



Default Power for WWAN

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	512	661	810	512	661	810	512	661
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
GSM 1 Tx slot	32.70	32.74	32.72	33.50	23.70	23.74	23.72	24.50
GPRS 1 Tx slot	32.66	32.68	32.69	33.50	23.66	23.68	23.69	24.50
GPRS 2 Tx slots	30.19	30.14	30.22	30.50	24.19	24.14	24.22	24.50
GPRS 3 Tx slots	28.35	28.33	28.36	28.70	24.09	24.07	24.10	24.44
GPRS 4 Tx slots	26.93	26.96	26.92	27.50	23.93	23.96	23.92	24.50
EDGE 1 Tx slot	26.61	26.66	26.61	27.50	17.61	17.66	17.61	18.50
EDGE 2 Tx slots	23.65	23.67	23.64	24.50	17.65	17.67	17.64	18.50
EDGE 3 Tx slots	21.73	21.78	21.71	22.70	17.47	17.52	17.45	18.44
EDGE 4 Tx slots	20.94	20.97	20.86	21.50	17.94	17.97	17.86	18.50

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	512	661	810	512	661	810	512	661
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
GSM 1 Tx slot	32.58	32.43	32.37	33.50	23.58	23.43	23.37	24.50
GPRS 1 Tx slot	32.56	32.41	32.34	33.50	23.56	23.41	23.34	24.50
GPRS 2 Tx slots	29.92	29.77	29.76	30.50	23.92	23.77	23.76	24.50
GPRS 3 Tx slots	28.07	27.96	27.93	28.70	23.81	23.70	23.67	24.44
GPRS 4 Tx slots	26.71	26.73	26.58	27.50	23.71	23.73	23.58	24.50
EDGE 1 Tx slot	26.23	26.31	26.27	27.00	17.23	17.31	17.27	18.00
EDGE 2 Tx slots	23.30	23.36	23.32	24.00	17.30	17.36	17.32	18.00
EDGE 3 Tx slots	21.44	21.42	21.38	22.20	17.18	17.16	17.12	17.94
EDGE 4 Tx slots	20.47	20.56	20.43	21.00	17.47	17.56	17.43	18.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
GSM 1 Tx slot	29.38	29.48	29.46	30.50	20.38	20.48	20.46	21.50
GPRS 1 Tx slot	29.35	29.44	29.42	30.50	20.35	20.44	20.42	21.50
GPRS 2 Tx slots	26.93	27.01	26.99	27.50	20.93	21.01	20.99	21.50
GPRS 3 Tx slots	25.14	25.26	25.22	25.70	20.88	21.00	20.96	21.44
GPRS 4 Tx slots	23.84	23.93	23.89	24.50	20.84	20.93	20.89	21.50
EDGE 1 Tx slot	25.75	25.68	25.66	26.50	16.75	16.68	16.66	17.50
EDGE 2 Tx slots	22.31	22.26	22.28	23.50	16.31	16.26	16.28	17.50
EDGE 3 Tx slots	20.02	19.91	19.97	21.70	15.76	15.65	15.71	17.44
EDGE 4 Tx slots	19.11	19.04	19.06	20.50	16.11	16.04	16.06	17.50

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
GSM 1 Tx slot	29.40	29.56	29.51	30.50	20.40	20.56	20.51	21.50
GPRS 1 Tx slot	29.39	29.52	29.50	30.50	20.39	20.52	20.50	21.50
GPRS 2 Tx slots	26.95	27.05	27.02	27.50	20.95	21.05	21.02	21.50
GPRS 3 Tx slots	25.18	25.30	25.28	25.70	20.92	21.04	21.02	21.44
GPRS 4 Tx slots	23.86	23.97	23.95	24.50	20.86	20.97	20.95	21.50
EDGE 1 Tx slot	26.03	25.91	25.97	26.50	17.03	16.91	16.97	17.50
EDGE 2 Tx slots	22.66	22.38	22.53	23.50	16.66	16.38	16.53	17.50
EDGE 3 Tx slots	20.17	19.95	20.12	21.70	15.91	15.69	15.86	17.44
EDGE 4 Tx slots	19.32	19.24	19.31	20.50	16.32	16.24	16.31	17.50

Band	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA II_Ant 2			Tune-up Limit (dBm)
	9282	9800	9538		9282	9800	9538	
TX Channel	9682	9800	9938	9682	9800	9938	9682	9800
Rx Channel	9682	9800	9938	9682	9800	9938	9682	9800
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6	1852.4	1880
3GPP Rel 99 AMR 12.2Kbps	23.78	23.82	23.66	24.50	23.86	23.95	23.81	25.00
3GPP Rel 99 RMC 12.2Kbps	23.84	23.89	23.71	24.50	24.02	24.07	23.93	25.00
3GPP Rel 6 HSDPA Subtest-1	22.75	22.93	22.86	23.50	22.98	23.18	23.16	24.00
3GPP Rel 6 HSDPA Subtest-2	22.90	22.88	22.87	23.50	23.15	23.05	23.09	24.00
3GPP Rel 6 HSDPA Subtest-3	22.17	22.33	22.27	23.00	22.64	22.51	22.57	23.50
3GPP Rel 6 HSDPA Subtest-4	22.35	22.47	22.30	23.00	22.52	22.80	22.50	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.01	22.89	22.95	23.50	23.13	23.19	23.18	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.76	22.96	22.83	23.50	23.10	23.19	23.00	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.37	22.45	22.33	23.00	22.63	22.72	22.63	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.27	22.47	22.30	23.00	22.50	22.72	22.47	23.50
3GPP Rel 6 HSUPA Subtest-1	22.85	22.89	22.84	23.50	23.15	23.18	23.15	24.00
3GPP Rel 6 HSUPA Subtest-2	20.77	21.02	21.00	21.50	21.00	21.34	21.25	22.00
3GPP Rel 6 HSUPA Subtest-3	21.96	21.95	21.82	22.50	22.15	22.23	22.05	23.00
3GPP Rel 6 HSUPA Subtest-4	20.82	20.84	20.91	21.50	20.99	21.04	21.06	22.00
3GPP Rel 6 HSUPA Subtest-5	22.95	23.03	22.89	23.50	23.25	23.22	23.10	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.21	20.55	20.33	21.00	20.59	20.81	20.59	21.50

Band	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 2			Tune-up Limit (dBm)
	1312	1418	1513		1312	1418	1513	
TX Channel	1537	1638	1738	1537	1638	1738	1537	1638
Rx Channel	1537	1638	1738	1537	1638	1738	1537	1638
Frequency (MHz)	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6	1712.4	1732.6
3GPP Rel 99 AMR 12.2Kbps	24.20	24.26	24.16	25.00	24.22	24.37	24.29	25.50
3GPP Rel 99 RMC 12.2Kbps	24.32	24.36	24.27	25.00	24.37	24.51	24.40	25.50
3GPP Rel 6 HSDPA Subtest-1	23.16	23.36	23.40	24.00	23.51	23.67	23.59	24.50
3GPP Rel 6 HSDPA Subtest-2	23.30	23.25	23.23	24.00	23.55	23.54	23.59	24.50
3GPP Rel 6 HSDPA Subtest-3	22.80	22.66	22.76	23.50	23.04	22.97	23.02	24.00
3GPP Rel 6 HSDPA Subtest-4	22.85	22.95	22.96	23.50	22.96	23.16	22.95	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	23.29	23.26	23.33	24.00	23.72	23.69	23.72	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	23.20	23.43	23.17	24.00	23.45	23.65	23.51	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	22.78	22.94	22.80	23.50	23.20	23.14	23.03	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	22.68	22.82	22.71	23.50	22.80	23.13	23.02	24.00
3GPP Rel 6 HSUPA Subtest-1	23.22	23.30	23.30	24.00	23.55	23.67	23.58	24.50
3GPP Rel 6 HSUPA Subtest-2	21.30	21.40	21.34	22.00	21.59	21.78	21.64	22.50
3GPP Rel 6 HSUPA Subtest-3	22.38	22.39	22.12	23.00	22.60	22.68	22.56	23.50
3GPP Rel 6 HSUPA Subtest-4	21.15	21.26	21.31	22.00	21.42	21.54	21.62	22.50
3GPP Rel 6 HSUPA Subtest-5	23.35	23.41	23.32	24.00	23.62	23.67	23.65	24.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.69	20.85	20.81	21.50	20.98	21.15	21.00	22.00

Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)
	4132	4182	4233		4132	4182	4233	
TX Channel	4357	4407	4458	4357	4407	4458	4357	4407
Rx Channel	4357	4407	4458	4357	4407	4458	4357	4407
Frequency (MHz)	5264	5324	5416	5264	5324	5416	5264	5324
3GPP Rel 99 AMR 12.2Kbps	24.17	24.23	24.11	25.00	23.85	23.94	23.88	25.00
3GPP Rel 99 RMC 12.2Kbps	24.28	24.31	24.25	25.00	23.97	24.01	23.95	25.00
3GPP Rel 6 HSDPA Subtest-1	23.22	23.36	23.39	24.00	22.81	22.93	23.08	24.00
3GPP Rel 6 HSDPA Subtest-2	23.38	23.29	23.28	24.00	23.03	22.96	23.03	24.00
3GPP Rel 6 HSDPA Subtest-3	22.71	22.68	22.74	23.50	22.43	22.45	22.35	23.50
3GPP Rel 6 HSDPA Subtest-4	22.83	22.81	22.59	23.50	22.46	22.62	22.39	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.38	23.37	23.30	24.00	22.82	23.00	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.13	23.40	23.25	24.00	22.91	23.15	22.91	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.84	22.86	22.74	23.50	22.46	22.59	22.42	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.70	22.88	22.61	23.50	22.36	22.59	22.33	23.50
3GPP Rel 6 HSUPA Subtest-1	23.28	23.30	23.24	24.00	22.91	23.06	22.97	24.00
3GPP Rel 6 HSUPA Subtest-2	21.08	21.37	21.41	22.00	20.84	21.13	21.06	22.00
3GPP Rel 6 HSUPA Subtest-3	22.42	22.37	22.17	23.00	21.99	22.07	21.83	23.00
3GPP Rel 6 HSUPA Subtest-4	21.16	21.27	21.24	22.00	20.86	21.00	21.04	22.00
3GPP Rel 6 HSUPA Subtest-5	23.42	23.38	23.32	24.00	23.08	22.99	2	



Band 2_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				18700	18900	19100				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	23.02	23.08	23.01	24	0		
20	QPSK	1	49	23.08	23.08	23.01	24	0		
20	QPSK	1	99	23.08	23.14	23.01	24	0		
20	QPSK	50	0	22.06	22.15	22.10	23	1		
20	QPSK	50	24	22.01	22.13	21.98	23	1		
20	QPSK	50	50	22.05	22.12	22.07	23	1		
20	QPSK	100	0	22.10	22.16	22.09	23	1		
20	16QAM	1	0	22.16	22.27	22.22	23	1		
20	16QAM	1	49	22.13	22.23	22.12	23	1		
20	16QAM	1	99	22.02	22.15	22.07	22	2		
20	16QAM	50	0	21.07	21.14	21.00	22	2		
20	16QAM	50	24	21.08	21.22	21.15	22	2		
20	16QAM	50	50	21.01	21.10	21.02	22	2		
20	16QAM	100	0	21.01	21.06	20.96	22	2		
20	64QAM	1	0	21.05	21.15	21.10	22	2		
20	64QAM	1	49	20.98	21.03	20.97	22	2		
20	64QAM	1	99	21.09	21.17	21.06	22	2		
20	64QAM	50	0	20.04	20.12	20.06	21	3		
20	64QAM	50	24	20.03	20.07	19.96	21	3		
20	64QAM	50	50	19.98	19.98	19.98	21	3		
20	64QAM	100	0	19.97	20.05	19.93	21	3		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	0	23.05	23.10	22.94	24	0		
15	QPSK	1	37	22.84	22.90	22.85	24	0		
15	QPSK	1	74	22.98	22.99	22.93	24	0		
15	QPSK	36	0	21.92	22.04	22.00	23	1		
15	QPSK	36	39	21.96	22.00	21.93	23	1		
15	QPSK	75	0	22.03	22.06	22.03	23	1		
15	16QAM	1	0	22.11	22.22	22.17	23	1		
15	16QAM	1	37	21.99	22.11	22.00	23	1		
15	16QAM	1	74	21.94	22.02	22.00	22	2		
15	16QAM	36	0	20.98	21.06	20.97	22	2		
15	16QAM	36	20	21.01	21.11	21.03	22	2		
15	16QAM	36	39	20.88	20.96	20.97	22	2		
15	16QAM	75	0	20.87	20.92	20.85	22	2		
15	64QAM	1	0	20.97	21.06	21.04	22	2		
15	64QAM	1	37	20.91	20.91	20.89	22	2		
15	64QAM	1	74	20.91	21.01	20.97	22	2		
15	64QAM	36	0	19.95	20.09	19.97	21	3		
15	64QAM	36	20	19.91	19.94	19.88	21	3		
15	64QAM	36	39	19.77	19.88	19.81	21	3		
15	64QAM	75	0	19.88	19.94	19.90	21	3		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	22.98	23.05	22.96	24	0		
10	QPSK	1	25	22.97	23.06	22.97	24	0		
10	QPSK	1	49	23.03	23.09	22.96	24	0		
10	QPSK	25	0	22.02	22.06	21.97	23	1		
10	QPSK	25	12	21.97	22.07	21.87	23	1		
10	QPSK	25	25	22.02	21.98	21.99	23	1		
10	QPSK	50	0	21.99	22.05	22.01	23	1		
10	16QAM	1	0	22.05	22.14	22.18	23	1		
10	16QAM	1	25	22.00	22.10	22.08	23	1		
10	16QAM	1	49	21.98	22.08	22.02	23	1		
10	16QAM	25	0	21.03	21.08	20.85	22	2		
10	16QAM	25	12	20.94	21.13	21.09	22	2		
10	16QAM	25	25	20.93	20.96	20.94	22	2		
10	16QAM	50	0	20.91	20.95	20.91	22	2		
10	64QAM	1	0	20.91	21.07	21.07	22	2		
10	64QAM	1	25	20.90	20.95	20.91	22	2		
10	64QAM	1	49	21.01	21.05	21.01	22	2		
10	64QAM	25	0	19.92	20.04	20.01	21	3		
10	64QAM	25	12	19.95	20.02	19.91	21	3		
10	64QAM	25	25	19.76	19.90	19.86	21	3		
10	64QAM	50	0	19.85	19.98	19.89	21	3		
Channel				18525	18800	19175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	23.07	23.04	22.87	24	0		
5	QPSK	1	12	22.95	22.97	22.82	24	0		
5	QPSK	1	24	22.95	23.09	22.93	24	0		
5	QPSK	12	0	21.95	22.08	22.06	23	1		
5	QPSK	12	7	21.90	22.10	21.89	23	1		
5	QPSK	12	13	21.90	22.07	21.93	23	1		
5	QPSK	25	0	21.96	22.06	22.04	23	1		
5	16QAM	1	0	22.13	22.22	22.17	23	1		
5	16QAM	1	12	22.09	22.10	22.02	23	1		
5	16QAM	1	24	21.91	22.07	21.95	23	1		
5	16QAM	12	0	21.02	21.05	20.91	22	2		
5	16QAM	12	7	21.00	21.12	21.08	22	2		
5	16QAM	12	13	20.88	21.00	20.92	22	2		
5	16QAM	25	0	20.86	20.91	20.86	22	2		
5	64QAM	1	0	21.01	21.03	20.99	22	2		
5	64QAM	1	12	20.91	20.94	20.89	22	2		
5	64QAM	1	24	21.00	21.08	20.97	22	2		
5	64QAM	12	0	19.90	20.07	20.01	21	3		
5	64QAM	12	7	19.95	19.99	19.93	21	3		
5	64QAM	12	13	19.77	19.95	19.83	21	3		
5	64QAM	25	0	19.85	19.96	19.82	21	3		
Channel				18615	18900	19165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1851.5	1880	1908.5				
3	QPSK	1	0	23.06	23.08	22.89	24	0		
3	QPSK	1	8	22.91	22.96	22.78	24	0		
3	QPSK	1	14	21.90	22.07	22.06	23	1		
3	QPSK	8	0	21.92	22.03	21.97	23	1		
3	QPSK	8	4	21.88	22.00	21.86	23	1		
3	QPSK	8	7	21.97	22.03	21.97	23	1		
3	QPSK	15	0	21.99	22.02	22.01	23	1		
3	16QAM	1	0	22.05	22.14	22.16	23	1		
3	16QAM	1	8	22.10	22.09	22.04	23	1		
3	16QAM	1	14	21.99	22.09	22.01	23	1		
3	16QAM	8	0	20.98	21.05	20.90	22	2		
3	16QAM	8	4	20.98	21.19	21.02	22	2		
3	16QAM	8	7	20.90	21.06	20.95	22	2		
3	16QAM	15	0	20.89	21.01	20.93	22	2		
3	64QAM	1	0	20.91	21.04	20.95	22	2		
3	64QAM	1	8	20.93	20.92	20.86	22	2		
3	64QAM	1	14	20.97	21.08	20.91	22	2		
3	64QAM	8	0	19.93	20.03	20.01	21	3		
3	64QAM	8	4	19.91	19.93	19.87	21	3		
3	64QAM	8	7	19.79	19.91	19.81	21	3		
3	64QAM	15	0	19.87	19.94	19.87	21	3		
Channel				18507	18800	19103	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1850.7	1880	1909.3				
1.4	QPSK	1	0	23.05	23.04	22.91	24	0		
1.4	QPSK	1	3	22.86	22.90	22.82	24	0		
1.4	QPSK	1	5	22.99	23.01	22.87	24	0		
1.4	QPSK	3	0	22.91	23.03	22.88	24	0		
1.4	QPSK	3	1	22.95	23.05	22.80	24	0		
1.4	QPSK	3	1	22.93	23.03	23.01	24	0		
1.4	QPSK	6	0	22.07	22.07	22.03	23	1		
1.4	16QAM	1	0	22.02	22.17	22.18	23	1		
1.4	16QAM	1	3	22.02	22.18	22.08	23	1		
1.4	16QAM	1	5	21.93	22.09	22.03	23	1		
1.4	16QAM	3	0	21.97	22.04	21.96	23	1		
1.4	16QAM	3	1	21.95	22.15	22.08	23	1		
1.4	16QAM	3	1	22.05	22.17	22.08	23	1		
1.4	16QAM	6	0	20.92	20.96	20.91	22	2		
1.4	64QAM	1	0	21.0						



Band 4_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel			20050	20175	20300					
Frequency (MHz)			1720	1732.5	1745					
20	QPSK	1	0	23.62	23.68	23.58	25.1	0		
20	QPSK	1	49	23.47	23.57	23.54				
20	QPSK	1	99	23.47	23.57	23.50				
20	QPSK	50	0	22.66	22.71	22.62	24.1	1		
20	QPSK	50	24	22.55	22.67	22.61				
20	QPSK	50	50	22.54	22.63	22.54				
20	QPSK	100	0	22.55	22.60	22.45	23.1	2		
20	16QAM	1	0	21.53	21.59	21.52				
20	16QAM	1	49	22.56	22.62	22.45				
20	16QAM	1	99	22.60	22.68	22.57	24.1	1		
20	16QAM	50	0	21.55	21.64	21.55				
20	16QAM	50	24	21.52	21.60	21.54				
20	16QAM	50	50	21.48	21.52	21.39	23.1	2		
20	16QAM	100	0	21.48	21.53	21.44				
20	16QAM	1	49	21.39	21.46	21.32				
20	64QAM	1	49	21.34	21.46	21.34	23.1	2		
20	64QAM	1	99	21.34	21.46	21.34				
20	64QAM	50	0	20.53	20.57	20.42				
20	64QAM	50	24	20.35	20.49	20.38	22.1	3		
20	64QAM	50	50	20.39	20.45	20.40				
20	64QAM	100	0	20.48	20.61	20.51				
Channel			20025	20175	20325					
Frequency (MHz)			1717.5	1732.5	1747.5					
15	QPSK	1	0	23.55	23.60	23.42	25.1	0		
15	QPSK	1	37	23.56	23.59	23.44				
15	QPSK	1	74	23.36	23.48	23.35				
15	QPSK	36	0	22.55	22.66	22.54	24.1	1		
15	QPSK	36	39	22.40	22.58	22.49				
15	QPSK	75	0	22.46	22.53	22.43				
15	16QAM	1	0	22.47	22.53	22.50	24.1	1		
15	16QAM	1	37	22.51	22.51	22.39				
15	16QAM	1	74	22.46	22.60	22.52				
15	16QAM	36	0	21.50	21.60	21.47	23.1	2		
15	16QAM	36	20	21.42	21.51	21.39				
15	16QAM	36	39	21.38	21.45	21.32				
15	16QAM	75	0	21.38	21.49	21.39	23.1	2		
15	16QAM	1	0	21.44	21.42	21.36				
15	16QAM	1	37	21.28	21.34	21.26				
15	64QAM	1	74	21.23	21.31	21.26	23.1	2		
15	64QAM	36	0	20.30	20.33	20.33				
15	64QAM	36	20	20.21	20.43	20.33				
15	64QAM	36	39	20.35	20.39	20.32	22.1	3		
15	64QAM	75	0	20.41	20.52	20.44				
15	64QAM	75	0	20.00	20.175	20.350				
Channel			1715	1732.5	1750					
Frequency (MHz)			1715	1732.5	1750					
10	QPSK	1	0	23.57	23.61	23.46	25.1	0		
10	QPSK	1	25	23.51	23.60	23.47				
10	QPSK	1	49	23.42	23.42	23.35				
10	QPSK	25	0	22.58	22.64	22.53	24.1	1		
10	QPSK	25	12	22.47	22.62	22.56				
10	QPSK	25	25	22.39	22.57	22.44				
10	QPSK	50	0	22.50	22.54	22.39	24.1	1		
10	16QAM	1	25	22.45	22.49	22.43				
10	16QAM	1	49	22.47	22.61	22.43				
10	16QAM	1	49	22.47	22.61	22.47	23.1	2		
10	16QAM	25	0	21.40	21.52	21.45				
10	16QAM	25	12	21.48	21.48	21.47				
10	16QAM	25	25	21.36	21.48	21.28	23.1	2		
10	16QAM	50	0	21.50	21.46	21.36				
10	64QAM	1	0	21.45	21.45	21.40				
10	64QAM	1	25	21.35	21.37	21.20	23.1	2		
10	64QAM	1	49	21.26	21.34	21.24				
10	64QAM	25	0	20.43	20.54	20.30				
10	64QAM	25	12	20.28	20.45	20.34	22.1	3		
10	64QAM	25	25	20.35	20.33	20.34				
10	64QAM	50	0	20.40	20.46	20.46				
Channel			1937.5	20175	20375					
Frequency (MHz)			1712.5	1732.5	1752.5					
5	QPSK	1	0	23.57	23.64	23.39	25.1	0		
5	QPSK	1	12	23.48	23.57	23.49				
5	QPSK	1	24	23.44	23.43	23.47				
5	QPSK	12	0	22.53	22.66	22.49	24.1	1		
5	QPSK	12	7	22.45	22.56	22.48				
5	QPSK	12	14	22.42	22.45	22.40				
5	QPSK	25	0	22.49	22.50	22.36	24.1	1		
5	16QAM	1	0	22.48	22.59	22.49				
5	16QAM	1	12	22.43	22.47	22.42				
5	16QAM	1	24	22.52	22.64	22.52	23.1	2		
5	16QAM	12	0	21.48	21.58	21.39				
5	16QAM	12	7	21.38	21.47	21.39				
5	16QAM	12	13	21.40	21.41	21.27	23.1	2		
5	16QAM	25	0	21.45	21.45	21.44				
5	64QAM	1	0	21.39	21.39	21.30				
5	64QAM	1	12	21.30	21.36	21.20	23.1	2		
5	64QAM	1	24	21.27	21.37	21.25				
5	64QAM	12	0	20.40	20.43	20.27				
5	64QAM	12	7	20.22	20.45	20.28	22.1	3		
5	64QAM	12	13	20.30	20.36	20.28				
5	64QAM	25	0	20.34	20.50	20.46				
Channel			19665	20175	20385					
Frequency (MHz)			1711.5	1732.5	1753.5					
3	QPSK	1	0	23.51	23.59	23.49	25.1	0		
3	QPSK	1	8	23.51	23.61	23.51				
3	QPSK	1	14	23.35	23.44	23.38				
3	QPSK	8	0	22.55	22.57	22.46	24.1	1		
3	QPSK	8	4	22.52	22.55	22.58				
3	QPSK	8	7	22.48	22.60	22.45				
3	QPSK	15	0	22.44	22.51	22.44	24.1	1		
3	16QAM	1	0	22.49	22.59	22.45				
3	16QAM	1	8	22.49	22.47	22.38				
3	16QAM	1	14	22.56	22.63	22.54	24.1	1		
3	16QAM	8	0	21.44	21.50	21.43				
3	16QAM	8	4	21.37	21.56	21.49				
3	16QAM	8	7	21.41	21.40	21.30	23.1	2		
3	16QAM	15	0	21.40	21.56	21.39				
3	64QAM	1	0	21.45	21.41	21.36				
3	64QAM	1	8	21.31	21.42	21.24	23.1	2		
3	64QAM	1	14	21.22	21.36	21.23				
3	64QAM	8	0	20.45	20.47	20.28				
3	64QAM	8	4	20.31	20.38	20.27	22.1	3		
3	64QAM	8	7	20.25	20.35	20.33				
3	64QAM	15	0	20.43	20.55	20.45				
Channel			19695	20175	20393					
Frequency (MHz)			1710.7	1732.5	1754.3					
1.4	QPSK	1	0	23.47	23.56	23.42	25.1	0		
1.4	QPSK	1	3	23.54	23.59	23.45				
1.4	QPSK	1	5	23.40	23.48	23.38				
1.4	QPSK	3	0	23.60	23.57	23.44	24.1	1		
1.4	QPSK	3	1	23.47	23.59	23.48				
1.4	QPSK	3	3	23.41	23.57	23.44				
1.4	QPSK	6	0	22.50	22.47	22.44	24.1	1		
1.4	16QAM	1	0	22.54	22.54	22.45				
1.4	16QAM	1	3	22.45	22.47	22.40				
1.4	16QAM	1	5	22.48	22.62	22.53	24.1	1		
1.4	16QAM	3	0	22.49	22.61	22.48				
1.4	16QAM	3	1	22.42	22.65	22.40				
1.4	16QAM	3	1	22.42	22.42	22.30	23.1	2		
1.4	16QAM	6	0	21.43	21.47	21.44				
1.4	64QAM	1	0	21.38	21.43	21.34				
1.4	64QAM	1	3	21.26	21.37	21.22	23.1	2		
1.4	64QAM	1	5	21.30	21.35	21.26				
1.4	64QAM	3	0	21.44	21.53	21.28				
1.4	64QAM	3	1	21.31	21.39	21.33	22.1	3		
1.4	64QAM	3	3	21.28	21.41	21.27				
1.4	64QAM	6	0	20.33	20.55	20.41				

Band 4_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel			20050	20175	20300					
Frequency (MHz)			1720	1732.5	1745					
20	QPSK	1	0	24.45	24.49	24.58	25.6	0		
20	QPSK	1	49	24.55	24.54	24.53				
20	QPSK	1	99	24.45	24.54	24.49				
20	QPSK	50	0	23.54	23.66	23.61	24.6	1		
20	QPSK	50	24	23.51	23.61	23.53				
20	QPSK	50	50	23.45	23.57	23.42				
20	QPSK	100	0	23.53	23.60	23.55	24.6	1		
20	16QAM	1	0	22.52	22.57	22.45				
20	16QAM	1	49	23.43	23.47	23.43				
20	16QAM	1	99	23.42	23.48	23.54	24.6	1		
20	16QAM	50	0	22.50	22.52	22.43				
20	16QAM	50	24	22.35	22.32	22.33				
20	16QAM	50	50	22.35	22.32	22.33	23.6	2		
20	16QAM	100	0	22.35	22.37	22.35				
20	64QAM	1	0	22.48	22.56	22.51				
20	64QAM	1	49	22.37	22.34	22.38	23.6	2		
20	64QAM	1	99	22.51	22.48	22.52				
20	64QAM	50	0	21.41	21.48	21.54				
20	64QAM	50	24	21.30	21.31	21.23	22.6	3		
20	64QAM	50	50	21.32	21.29	21.28				
20	64QAM	100	0	21.52	21.55	21.47				
Channel			20025	20175	20325					
Frequency (MHz)			1717.5	1732.5	1747.5					
15	QPSK	1	0	24.45	24.54	24.43	25.6	0		
15	QPSK	1	37	24						



Band 5_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	24.36	24.44	24.41					
10	QPSK	1	25	24.37	24.42	24.34	25.5	0			
10	QPSK	1	49	24.24	24.36	24.32					
10	QPSK	25	0	23.30	23.39	23.35					
10	QPSK	25	12	23.27	23.32	23.21	24.5	1			
10	QPSK	25	25	23.18	23.30	23.20					
10	QPSK	50	0	23.22	23.32	23.22					
10	16QAM	1	0	23.43	23.52	23.48					
10	16QAM	1	25	23.31	23.38	23.34	24.5	1			
10	16QAM	1	49	23.33	23.38	23.37					
10	16QAM	25	0	22.33	22.36	22.31					
10	16QAM	25	12	22.19	22.25	22.20	23.5	2			
10	16QAM	25	25	22.24	22.29	22.19					
10	16QAM	50	0	22.23	22.35	22.28					
10	64QAM	1	0	22.34	22.47	22.41					
10	64QAM	1	25	22.17	22.32	22.30	23.5	2			
10	64QAM	1	49	22.20	22.38	22.35					
10	64QAM	25	0	21.26	21.37	21.34					
10	64QAM	25	12	21.15	21.24	21.22	22.5	3			
10	64QAM	25	25	21.17	21.26	21.29					
10	64QAM	50	0	21.35	21.30	21.28					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	24.26	24.32	24.29					
5	QPSK	1	12	24.23	24.37	24.20	25.5	0			
5	QPSK	1	24	24.17	24.25	24.20					
5	QPSK	12	0	23.16	23.32	23.25					
5	QPSK	12	7	23.17	23.23	23.13	24.5	1			
5	QPSK	12	13	23.03	23.22	23.13					
5	QPSK	25	0	23.17	23.28	23.09					
5	16QAM	1	0	23.34	23.38	23.31					
5	16QAM	1	12	23.26	23.29	23.22	24.5	1			
5	16QAM	1	24	23.20	23.27	23.22					
5	16QAM	12	0	22.22	22.25	22.26					
5	16QAM	12	7	22.10	22.22	22.14	23.5	2			
5	16QAM	12	13	22.20	22.14	22.11					
5	16QAM	25	0	22.16	22.26	22.16					
5	64QAM	1	0	22.30	22.36	22.37					
5	64QAM	1	12	22.12	22.22	22.19	23.5	2			
5	64QAM	1	24	22.11	22.29	22.28					
5	64QAM	12	0	21.22	21.32	21.25					
5	64QAM	12	7	21.04	21.19	21.17	22.5	3			
5	64QAM	12	13	21.02	21.22	21.25					
5	64QAM	25	0	21.28	21.17	21.18					
Channel				20415	20525	20635					
Frequency (MHz)				826.5	836.5	847.5					
3	QPSK	1	0	24.32	24.30	24.32					
3	QPSK	1	8	24.30	24.37	24.21	25.5	0			
3	QPSK	1	14	24.12	24.29	24.22					
3	QPSK	8	0	23.22	23.32	23.25					
3	QPSK	8	4	23.15	23.18	23.14	24.5	1			
3	QPSK	8	7	23.14	23.23	23.05					
3	QPSK	15	0	23.18	23.24	23.11					
3	16QAM	1	0	23.35	23.49	23.38					
3	16QAM	1	8	23.24	23.29	23.20	24.5	1			
3	16QAM	1	14	23.24	23.25	23.33					
3	16QAM	8	0	22.21	22.21	22.20					
3	16QAM	8	4	22.10	22.21	22.07	23.5	2			
3	16QAM	8	7	22.13	22.15	22.13					
3	16QAM	15	0	22.11	22.30	22.15					
3	64QAM	1	0	22.29	22.32	22.30					
3	64QAM	1	8	22.12	22.24	22.20	23.5	2			
3	64QAM	1	14	22.12	22.31	22.24					
3	64QAM	8	0	21.17	21.33	21.25					
3	64QAM	8	4	21.02	21.10	21.13	22.5	3			
3	64QAM	8	7	21.05	21.13	21.16					
3	64QAM	15	0	21.30	21.23	21.15					
Channel				20407	20525	20643					
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	24.25	24.31	24.38					
1.4	QPSK	1	3	24.32	24.27	24.25	25.5	0			
1.4	QPSK	1	5	24.11	24.30	24.22					
1.4	QPSK	3	0	24.21	24.24	24.22					
1.4	QPSK	3	1	24.12	24.13	24.12					
1.4	QPSK	3	3	24.08	24.16	24.04	24.5	1			
1.4	QPSK	6	0	23.10	23.17	23.18					
1.4	16QAM	1	0	23.33	23.44	23.43					
1.4	16QAM	1	3	23.27	23.34	23.30	24.5	1			
1.4	16QAM	1	5	23.27	23.31	23.22					
1.4	16QAM	3	0	23.16	23.25	23.15					
1.4	16QAM	3	1	23.01	23.17	23.09	23.5	2			
1.4	16QAM	3	3	23.06	23.17	23.08					
1.4	16QAM	6	0	22.08	22.24	22.18					
1.4	64QAM	1	0	22.27	22.33	22.34					
1.4	64QAM	1	3	22.11	22.28	22.21	23.5	2			
1.4	64QAM	1	5	22.12	22.32	22.21					
1.4	64QAM	3	0	22.11	22.23	22.25					
1.4	64QAM	3	1	21.98	22.07	22.04	22.5	3			
1.4	64QAM	3	3	22.03	22.18	22.15					
1.4	64QAM	6	0	21.31	21.16	21.21					

Band 5_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	23.95	24.11	24.01					
10	QPSK	1	25	23.93	24.02	23.88	25.4	0			
10	QPSK	1	49	23.95	24.07	23.95					
10	QPSK	25	0	22.95	22.99	22.92					
10	QPSK	25	12	22.79	22.92	22.79	24.4	1			
10	QPSK	25	25	22.94	22.98	22.91					
10	QPSK	50	0	22.91	22.94	22.82					
10	16QAM	1	0	23.14	23.24	23.21					
10	16QAM	1	25	23.17	23.10	23.16	24.4	1			
10	16QAM	1	49	23.14	23.10	23.06					
10	16QAM	25	0	21.84	21.90	21.96					
10	16QAM	25	12	21.75	21.70	21.73	23.4	2			
10	16QAM	25	25	21.69	21.67	21.75					
10	16QAM	50	0	21.95	21.93	21.87					
10	64QAM	1	0	22.10	22.14	22.02					
10	64QAM	1	25	21.93	22.00	21.93	23.4	2			
10	64QAM	1	49	22.01	21.93	21.91					
10	64QAM	25	0	21.01	20.92	20.88					
10	64QAM	25	12	20.74	20.73	20.76	22.4	3			
10	64QAM	25	25	20.75	20.82	20.77					
10	64QAM	50	0	20.95	20.91	20.99					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	23.87	24.02	23.95					
5	QPSK	1	12	23.83	23.94	23.75	25.4	0			
5	QPSK	1	24	23.85	24.01	23.82					
5	QPSK	12	0	22.92	22.87	22.76					
5	QPSK	12	7	22.75	22.80	22.67	24.4	1			
5	QPSK	12	13	22.85	22.89	22.86					
5	QPSK	25	0	22.85	22.89	22.78					
5	16QAM	1	0	23.02	23.12	23.11					
5	16QAM	1	12	23.12	23.02	23.13	24.4	1			
5	16QAM	1	24	22.99	22.97	22.99					
5	16QAM	12	0	23.76	23.84	23.79					
5	16QAM	12	7	21.68	21.59	21.68	23.4	2			
5	16QAM	12	13	21.55	21.53	21.66					
5</											



Band 7_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.85	24.03	23.80	24.7	0
20	QPSK	1	49	23.81	23.86	23.77		
20	QPSK	1	99	23.73	23.84	23.79		
20	QPSK	50	0	22.98	22.99	22.91	23.7	1
20	QPSK	50	24	22.75	22.86	22.81		
20	QPSK	50	50	22.75	22.89	22.85		
20	QPSK	100	0	22.80	22.91	22.80	23.7	1
20	16QAM	1	0	22.95	23.05	22.92		
20	16QAM	1	49	22.89	22.96	22.84		
20	16QAM	1	99	22.88	22.99	22.94		
20	16QAM	50	0	21.94	22.02	21.87		
20	16QAM	50	24	21.95	22.00	21.95	22.7	2
20	16QAM	50	50	21.85	21.94	21.82		
20	16QAM	100	0	21.86	21.96	21.89		
20	64QAM	1	0	22.00	22.09	21.97	22.7	2
20	64QAM	1	49	21.96	22.06	21.94		
20	64QAM	1	99	21.86	22.09	22.04		
20	64QAM	50	0	20.82	20.96	20.81		
20	64QAM	50	24	20.80	20.87	20.74	21.7	3
20	64QAM	50	50	20.84	20.88	20.82		
20	64QAM	100	0	20.82	20.95	20.89		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.85	23.90	23.72	24.7	0
15	QPSK	1	37	23.74	23.72	23.71		
15	QPSK	1	74	23.66	23.71	23.64		
15	QPSK	36	0	22.81	22.88	22.81	23.7	1
15	QPSK	36	20	22.71	22.82	22.75		
15	QPSK	36	39	22.60	22.78	22.82		
15	QPSK	75	0	22.73	22.81	22.77		
15	16QAM	1	0	22.90	22.95	22.79	23.7	1
15	16QAM	1	37	22.81	22.92	22.89		
15	16QAM	1	74	22.78	22.88	22.79		
15	16QAM	36	0	21.86	21.90	21.75	22.7	2
15	16QAM	36	20	21.88	21.96	21.86		
15	16QAM	36	39	21.82	21.82	21.74		
15	16QAM	75	0	21.73	21.84	21.80		
15	64QAM	1	0	21.93	21.98	21.88	22.7	2
15	64QAM	1	37	21.91	21.97	21.81		
15	64QAM	1	74	21.85	21.96	22.01		
15	64QAM	36	0	20.77	20.80	20.68	21.7	3
15	64QAM	36	20	20.78	20.73	20.59		
15	64QAM	36	39	20.74	20.75	20.72		
15	64QAM	75	0	20.67	20.92	20.79		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.86	23.97	23.72	24.7	0
10	QPSK	1	25	23.71	23.79	23.69		
10	QPSK	1	49	23.69	23.76	23.76		
10	QPSK	25	0	22.89	22.85	22.83	23.7	1
10	QPSK	25	12	22.65	22.77	22.75		
10	QPSK	25	25	22.63	22.79	22.76		
10	QPSK	50	0	22.74	22.84	22.75	23.7	1
10	16QAM	1	0	22.83	22.95	22.83		
10	16QAM	1	25	22.77	22.90	22.80		
10	16QAM	1	49	22.85	22.96	22.87		
10	16QAM	25	0	21.84	21.92	21.77	22.7	2
10	16QAM	25	12	21.81	21.92	21.80		
10	16QAM	25	25	21.73	21.87	21.79		
10	16QAM	50	0	21.78	21.92	21.79		
10	64QAM	1	0	21.97	21.97	21.83	22.7	2
10	64QAM	1	25	21.91	21.99	21.91		
10	64QAM	1	49	21.83	21.95	21.86		
10	64QAM	25	0	20.73	20.92	20.69	21.7	3
10	64QAM	25	12	20.65	20.79	20.63		
10	64QAM	25	25	20.76	20.82	20.68		
10	64QAM	50	0	20.79	20.85	20.75		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.82	23.93	23.75	24.7	0
5	QPSK	1	12	23.76	23.80	23.63		
5	QPSK	1	24	23.59	23.71	23.67		
5	QPSK	12	0	22.92	22.85	22.83	23.7	1
5	QPSK	12	7	22.62	22.80	22.70		
5	QPSK	12	13	22.60	22.84	22.80		
5	QPSK	25	0	22.71	22.77	22.77		
5	16QAM	1	0	22.82	22.95	22.87	23.7	1
5	16QAM	1	12	22.76	22.92	22.78		
5	16QAM	1	24	22.74	22.87	22.80		
5	16QAM	12	0	21.84	21.93	21.81	22.7	2
5	16QAM	12	7	21.88	21.89	21.84		
5	16QAM	12	13	21.81	21.79	21.77		
5	16QAM	25	0	21.83	21.88	21.80		
5	64QAM	1	0	21.91	22.05	21.89	22.7	2
5	64QAM	1	12	21.83	21.97	21.91		
5	64QAM	1	24	21.87	21.96	21.95		
5	64QAM	12	0	20.78	20.87	20.74	21.7	3
5	64QAM	12	7	20.68	20.73	20.70		
5	64QAM	12	13	20.77	20.73	20.69		
5	64QAM	25	0	20.77	20.91	20.84		

Band 7_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	24.52	24.66	24.63	25.6	0
20	QPSK	1	49	24.51	24.59	24.53		
20	QPSK	1	99	24.51	24.64	24.52		
20	QPSK	50	0	23.83	23.73	23.68	24.6	1
20	QPSK	50	24	23.51	23.65	23.56		
20	QPSK	50	50	23.61	23.69	23.56		
20	QPSK	100	0	23.51	23.64	23.50		
20	16QAM	1	0	23.61	23.68	23.57	24.6	1
20	16QAM	1	49	23.42	23.44	23.47		
20	16QAM	1	99	23.52	23.55	23.51		
20	16QAM	50	0	22.52	22.69	22.66	23.6	2
20	16QAM	50	24	22.51	22.48	22.54		
20	16QAM	50	50	22.49	22.47	22.52		
20	16QAM	100	0	22.50	22.56	22.45		
20	64QAM	1	0	22.98	22.65	22.52	23.6	2
20	64QAM	1	49	22.58	22.51	22.55		
20	64QAM	1	99	22.40	22.44	22.52		
20	64QAM	50	0	21.57	21.71	21.72	22.6	3
20	64QAM	50	24	21.64	21.66	21.57		
20	64QAM	50	50	21.58	21.55	21.55		
20	64QAM	100	0	21.41	21.59	21.55		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	24.46	24.64	24.58	25.6	0
15	QPSK	1	37	24.38	24.52	24.42		
15	QPSK	1	74	24.38	24.60	24.42		
15	QPSK	36	0	23.54	23.59	23.60	24.6	1
15	QPSK	36	20	23.38	23.57	23.41		
15	QPSK	36	39	23.58	23.64	23.46		
15	QPSK	75	0	23.40	23.50	23.46		
15	16QAM	1	0	23.48	23.65	23.43	24.6	1
15	16QAM	1	37	23.33	23.36	23.41		
15	16QAM	1	74	23.47	23.50	23.38		
15	16QAM	36	0	22.46	22.46	22.44	23.6	2
15	16QAM	36	20	22.45	22.35	22.40		
15	16QAM	36	39	22.46	22.34	22.42		
15	16QAM	75	0	22.38	22.50	22.38		
15	64QAM	1	0	22.51	22.56	22.38	23.6	2
15	64QAM	1	37	22.51	22.47	22.41		
15	64QAM	1	74	22.26	22.29	22.39		
15	64QAM	36	0	21.50	21.67	21.61	22.6	3
15	64QAM	36	20	21.50	21.56	21.47		
15	64QAM	36	39	21.43	21.44	21.51		
15	64QAM	75	0	21.30	21.47	21.41		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	24.48	24.57	24.51	25.6	0
10	QPSK	1	25	24.43	24.46	24.44		
10	QPSK	1	49	24.38	24.53	24.48		
10	QPSK	25	0	23.56	23.62	23.62	24.6	1
10	QPSK	25	12	23.40	23.62	23.51		
10	QPSK	25						



Band 12_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.26	24.65	24.88	25.5	0
10	QPSK	1	25	24.46	24.60	24.49		
10	QPSK	1	49	24.52	24.57	24.47		
10	QPSK	25	0	23.55	23.70	23.62	24.5	1
10	QPSK	25	12	23.41	23.56	23.43		
10	QPSK	25	25	23.51	23.63	23.55		
10	QPSK	50	0	23.56	23.68	23.56	24.5	1
10	16QAM	50	0	23.58	23.69	23.64		
10	16QAM	1	25	23.49	23.47	23.46		
10	16QAM	1	49	23.50	23.54	23.57	24.5	1
10	16QAM	25	0	22.49	22.63	22.57		
10	16QAM	25	12	22.50	22.48	22.50		
10	16QAM	25	25	22.47	22.47	22.50	23.5	2
10	16QAM	50	0	22.55	22.33	22.51		
10	8QAM	1	0	22.63	22.67	22.73		
10	8QAM	1	25	22.55	22.57	22.55	23.5	2
10	8QAM	1	49	22.47	22.49	22.40		
10	8QAM	25	0	21.51	21.64	21.56		
10	8QAM	25	12	21.39	21.45	21.50	22.5	3
10	8QAM	25	25	21.46	21.49	21.49		
10	8QAM	50	0	21.53	21.57	21.49		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	24.49	24.48	24.43	25.5	0
5	QPSK	1	12	24.34	24.52	24.41		
5	QPSK	1	24	24.47	24.46	24.44		
5	QPSK	12	0	23.50	23.65	23.55	24.5	1
5	QPSK	12	7	23.37	23.46	23.29		
5	QPSK	12	13	23.44	23.60	23.41		
5	QPSK	25	0	23.53	23.59	23.50	24.5	1
5	16QAM	1	0	23.49	23.54	23.55		
5	16QAM	1	12	23.44	23.38	23.43		
5	16QAM	1	24	23.36	23.48	23.43	23.5	2
5	16QAM	12	0	23.36	23.52	23.50		
5	16QAM	12	7	23.38	23.35	23.35		
5	16QAM	12	13	22.39	22.39	22.45	23.5	2
5	16QAM	25	0	22.50	22.54	22.44		
5	8QAM	1	0	22.51	22.59	22.59		
5	8QAM	1	12	22.41	22.43	22.40	23.5	2
5	8QAM	1	24	22.37	22.39	22.27		
5	8QAM	12	0	21.43	21.60	21.43		
5	8QAM	12	7	21.30	21.40	21.39	22.5	3
5	8QAM	12	13	21.33	21.39	21.39		
5	8QAM	25	0	21.48	21.45	21.34		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.51	24.57	24.54	25.5	0
3	QPSK	1	8	24.42	24.55	24.40		
3	QPSK	1	14	24.38	24.46	24.39		
3	QPSK	8	0	23.48	23.57	23.49	24.5	1
3	QPSK	8	4	23.36	23.46	23.36		
3	QPSK	8	7	23.41	23.57	23.49		
3	QPSK	15	0	23.51	23.62	23.51	24.5	1
3	16QAM	1	0	23.53	23.57	23.60		
3	16QAM	1	8	23.41	23.36	23.40		
3	16QAM	1	14	23.47	23.51	23.42	23.5	2
3	16QAM	8	0	22.39	22.53	22.45		
3	16QAM	8	4	22.38	22.44	22.41		
3	16QAM	8	7	22.34	22.43	22.41	23.5	2
3	16QAM	15	0	22.44	22.54	22.39		
3	8QAM	1	0	22.58	22.59	22.70		
3	8QAM	1	8	22.46	22.51	22.51	23.5	2
3	8QAM	1	14	22.33	22.37	22.32		
3	8QAM	8	0	21.44	21.56	21.45		
3	8QAM	8	4	21.34	21.36	21.43	22.5	3
3	8QAM	8	7	21.36	21.43	21.36		
3	8QAM	15	0	21.41	21.52	21.42		
Channel				23017	23095	23173		
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.44	24.53	24.46	25.5	0
1.4	QPSK	1	3	24.42	24.50	24.40		
1.4	QPSK	1	5	24.49	24.53	24.39		
1.4	QPSK	3	0	24.41	24.57	24.43	24.5	1
1.4	QPSK	3	1	24.27	24.38	24.25		
1.4	QPSK	3	3	24.39	24.55	24.37		
1.4	QPSK	6	0	23.47	23.55	23.49	24.5	1
1.4	16QAM	1	0	23.45	23.64	23.56		
1.4	16QAM	1	3	23.36	23.33	23.41		
1.4	16QAM	1	5	23.40	23.50	23.45	24.5	1
1.4	16QAM	3	0	23.38	23.55	23.38		
1.4	16QAM	3	1	23.33	23.34	23.37		
1.4	16QAM	3	3	23.28	23.36	23.33	23.5	2
1.4	16QAM	6	0	22.45	22.48	22.42		
1.4	8QAM	1	0	22.49	22.52	22.66		
1.4	8QAM	1	3	22.47	22.48	22.46	23.5	2
1.4	8QAM	1	5	22.41	22.44	22.36		
1.4	8QAM	3	0	22.43	22.33	22.45		
1.4	8QAM	3	1	22.31	22.34	22.34	23.5	2
1.4	8QAM	3	3	22.32	22.37	22.39		
1.4	8QAM	6	0	21.46	21.47	21.40		

Band 12_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.52	23.63	23.53	24.8	0
10	QPSK	1	25	23.50	23.59	23.52		
10	QPSK	1	49	23.37	23.47	23.38		
10	QPSK	25	0	22.84	22.77	22.71	23.8	1
10	QPSK	25	12	22.52	22.58	22.52		
10	QPSK	25	25	22.52	22.66	22.58		
10	QPSK	50	0	22.66	22.75	22.67	23.8	1
10	16QAM	50	0	22.53	22.72	22.68		
10	16QAM	1	25	22.50	22.54	22.52		
10	16QAM	1	49	22.59	22.54	22.52	22.8	2
10	16QAM	25	0	21.59	21.82	21.73		
10	16QAM	25	12	21.74	21.77	21.76		
10	16QAM	25	25	21.61	21.61	21.66	22.8	2
10	16QAM	50	0	21.85	21.74	21.76		
10	8QAM	1	0	21.48	21.61	21.54		
10	8QAM	1	25	21.35	21.44	21.38	21.8	3
10	8QAM	1	49	21.53	21.47	21.53		
10	8QAM	25	0	20.66	20.79	20.74		
10	8QAM	25	12	20.72	20.64	20.63	21.8	3
10	8QAM	25	25	20.71	20.65	20.67		
10	8QAM	50	0	20.80	20.72	20.57		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.41	23.52	23.39	24.8	0
5	QPSK	1	12	23.47	23.46	23.44		
5	QPSK	1	24	23.24	23.37	23.31		
5	QPSK	12	0	22.53	22.69	22.59	23.8	1
5	QPSK	12	7	22.37	22.46	22.47		
5	QPSK	12	13	22.41	22.55	22.51		
5	QPSK	25	0	22.58	22.69	22.53	23.8	1
5	16QAM	1	0	22.46	22.61	22.60		
5	16QAM	1	12	22.38	22.51	22.48		
5	16QAM	1	24	22.46	22.47	22.37	22.8	2
5	16QAM	12	0	21.53	21.70	21.61		
5	16QAM	12	7	21.62	21.71	21.64		
5	16QAM	12	13	21.46	21.54	21.52	22.8	2
5	16QAM	25	0	21.51	21.69	21.66		
5	8QAM	1	0	21.35	21.47	21.42		
5	8QAM	1	12	21.23	21.35	21.23	21.8	3
5	8QAM	1	24	21.50	21.34	21.39		
5	8QAM	12	0	20.58	20.66	20.70		
5	8QAM	12	7	20.62	20.67	20.49	21.8	3
5	8QAM	12	13	20.63	20.62	20.58		
5	8QAM	25	0	20.51	20.68	20.48		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.41	23.54	23.42	24.8	0
3	QPSK	1	8	23.41	23.46	23.42		
3	QPSK	1	14	23.29	23.32	23.28		
3	QPSK	8	0	22.58	22.63	22.62	23.8	1
3	QPSK	8	4	22.46	22.45	22.38		
3	QPSK	8	7	22.42	22.55	22.50		
3	QPSK	15	0	22.61	22.69	22.62	23.8	1
3	16QAM	1	0	22.42	22.80	22.56		
3	16QAM	1	8	22.38	22.51	22.38		
3	16QAM	1	14	22.51	22.42	22.41	22.8	2
3	16QAM	8	0	21.51	21.68	21.66		
3	16QAM	8	4	21.64	21.65	21.72		
3	16QAM	8	7	21.50	21.54	21.53	22.8	2
3	16QAM	15	0	21.58	21.61	21.71		



Band 13_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0	23.86			24.9	0
10	QPSK	1	25	23.80				
10	QPSK	1	49	23.83				
10	QPSK	25	0	22.79			23.9	1
10	QPSK	25	12	22.75				
10	QPSK	25	25	22.72				
10	QPSK	50	0	22.74			23.9	1
10	16QAM	1	0	22.81				
10	16QAM	1	25	22.72				
10	16QAM	1	49	22.73			22.9	2
10	16QAM	25	0	21.52				
10	16QAM	25	12	21.50				
10	16QAM	25	25	21.48			22.9	2
10	16QAM	50	0	21.74				
10	64QAM	1	0	21.77				
10	64QAM	1	25	21.73			21.9	3
10	64QAM	1	49	21.67				
10	64QAM	25	0	20.46				
10	64QAM	25	12	20.40			23.9	1
10	64QAM	25	25	20.33				
10	64QAM	50	0	20.37				
Channel				23205				
Frequency (MHz)				782				
5	QPSK	1	0	23.67	23.66	23.72	24.9	0
5	QPSK	1	12	23.57	23.61	23.50		
5	QPSK	1	24	23.61	23.70	23.57		
5	QPSK	12	0	22.63	22.62	22.53	23.9	1
5	QPSK	12	7	22.46	22.60	22.50		
5	QPSK	12	13	22.43	22.53	22.54		
5	QPSK	25	0	22.42	22.61	22.45	23.9	1
5	16QAM	1	0	22.47	22.69	22.51		
5	16QAM	1	12	22.55	22.56	22.51		
5	16QAM	1	24	22.58	22.55	22.46	22.9	2
5	16QAM	12	0	21.31	21.40	21.15		
5	16QAM	12	7	21.18	21.30	21.21		
5	16QAM	12	13	21.26	21.29	21.23	22.9	2
5	16QAM	25	0	21.42	21.60	21.55		
5	64QAM	1	0	21.47	21.58	21.51		
5	64QAM	1	12	21.41	21.63	21.40	21.9	3
5	64QAM	1	24	21.36	21.50	21.43		
5	64QAM	12	0	20.19	20.35	20.25		
5	64QAM	12	7	20.34	20.44	20.27	21.9	3
5	64QAM	12	13	20.35	20.35	20.22		
5	64QAM	25	0	20.47	20.60	20.47		

Band 17_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780				
Frequency (MHz)				709				
10	QPSK	1	0	24.37	24.62	24.60	25.5	0
10	QPSK	1	25	24.45	24.52	24.44		
10	QPSK	1	49	24.50	24.61	24.56		
10	QPSK	25	0	23.57	23.62	23.54	24.5	1
10	QPSK	25	12	23.48	23.52	23.37		
10	QPSK	25	25	23.56	23.60	23.51		
10	QPSK	50	0	23.45	23.58	23.51	24.5	1
10	16QAM	1	0	23.64	23.77	23.75		
10	16QAM	1	25	23.58	23.51	23.60		
10	16QAM	1	49	23.60	23.64	23.67	23.5	2
10	16QAM	25	0	22.51	22.65	22.59		
10	16QAM	25	12	22.51	22.45	22.41		
10	16QAM	25	25	22.39	22.41	22.43	23.5	2
10	16QAM	50	0	22.50	22.57	22.49		
10	64QAM	1	0	22.61	22.70	22.67		
10	64QAM	1	25	22.51	22.54	22.52	22.5	3
10	64QAM	1	49	22.49	22.55	22.55		
10	64QAM	25	0	21.67	21.58	21.60		
10	64QAM	25	12	21.44	21.44	21.37	23.9	1
10	64QAM	25	25	21.43	21.38	21.44		
10	64QAM	50	0	21.62	21.56	21.53		
Channel				23755				
Frequency (MHz)				710				
5	QPSK	1	0	24.54	24.57	24.49	25.5	0
5	QPSK	1	12	24.37	24.39	24.35		
5	QPSK	1	24	24.40	24.56	24.41		
5	QPSK	12	0	23.51	23.49	23.50	24.5	1
5	QPSK	12	7	23.43	23.42	23.30		
5	QPSK	12	13	23.46	23.46	23.39		
5	QPSK	25	0	23.34	23.44	23.37	24.5	1
5	16QAM	1	0	23.54	23.70	23.64		
5	16QAM	1	12	23.54	23.47	23.48		
5	16QAM	1	24	23.56	23.61	23.51	23.5	2
5	16QAM	12	0	22.41	22.56	22.50		
5	16QAM	12	7	22.47	22.41	22.28		
5	16QAM	12	13	22.31	22.32	22.29	23.5	2
5	16QAM	25	0	22.37	22.42	22.37		
5	64QAM	1	0	22.50	22.66	22.62		
5	64QAM	1	12	22.38	22.42	22.38	22.5	3
5	64QAM	1	24	22.42	22.48	22.48		
5	64QAM	12	0	21.52	21.47	21.48		
5	64QAM	12	7	21.37	21.34	21.33	21.9	3
5	64QAM	12	13	21.34	21.30	21.34		
5	64QAM	25	0	21.57	21.48	21.41		

Band 17_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780				
Frequency (MHz)				709				
10	QPSK	1	0	23.46	23.59	23.52	24.8	0
10	QPSK	1	25	23.42	23.48	23.38		
10	QPSK	1	49	23.40	23.52	23.38		
10	QPSK	25	0	22.67	22.78	22.62	23.8	1
10	QPSK	25	12	22.51	22.56	22.43		
10	QPSK	25	25	22.62	22.73	22.58		
10	QPSK	50	0	22.73	22.76	22.70	23.8	1
10	16QAM	1	0	22.68	22.74	22.57		
10	16QAM	1	25	22.58	22.63	22.57		
10	16QAM	1	49	22.57	22.60	22.62	22.8	2
10	16QAM	25	0	21.55	21.64	21.49		
10	16QAM	25	12	21.54	21.51	21.54		
10	16QAM	25	25	21.54	21.44	21.48	22.8	2
10	16QAM	50	0	21.58	21.73	21.59		
10	64QAM	1	0	21.64	21.68	21.62		
10	64QAM	1	25	21.46	21.48	21.46	21.8	3
10	64QAM	1	49	21.62	21.56	21.54		
10	64QAM	25	0	20.57	20.65	20.48		
10	64QAM	25	12	20.46	20.42	20.46	23.9	1
10	64QAM	25	25	20.47	20.45	20.38		
10	64QAM	50	0	20.65	20.68	20.54		
Channel				23755				
Frequency (MHz)				710				
5	QPSK	1	0	23.37	23.51	23.46	24.8	0
5	QPSK	1	12	23.38	23.36	23.33		
5	QPSK	1	24	23.36	23.42	23.30		
5	QPSK	12	0	22.64	22.68	22.48	23.8	1
5	QPSK	12	7	22.43	22.51	22.30		
5	QPSK	12	13	22.50	22.66	22.51		
5	QPSK	25	0	22.60	22.68	22.67	23.8	1
5	16QAM	1	0	22.54	22.70	22.42		
5	16QAM	1	12	22.53	22.54	22.47		
5	16QAM	1	24	22.53	22.54	22.48	22.8	2
5	16QAM	12	0	21.49	21.57	21.35		
5	16QAM	12	7	21.46	21.47	21.39		
5	16QAM	12	13	21.43	21.35	21.44	22.8	2
5	16QAM	25	0	21.43	21.64	21.65		
5	64QAM	1	0	21.58	21.58	21.52		
5	64QAM	1	12	21.32	21.44	21.38	21.8	3
5	64QAM	1	24	21.57	21.46	21.49		
5	64QAM	12	0	20.48	20.50	20.41		
5	64QAM	12	7	20.31	20.33	20.32	21.8	3
5	64QAM	12	13	20.40	20.38	20.26		
5	64QAM	25	0	20.58	20.65	20.42		



Band 26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				821.5	831.5	841.5			
Frequency (MHz)									
15	QPSK	1	0	24.30	24.40	24.30	25.5	0	
15	QPSK	1	37	24.31	24.36	24.24			
15	QPSK	1	74	24.34	24.41	24.31			
15	QPSK	36	0	23.30	23.41	23.34			
15	QPSK	36	20	23.28	23.37	23.30	24.5	1	
15	QPSK	36	39	23.29	23.33	23.25			
15	QPSK	75	0	23.44	23.46	23.43			
15	16QAM	1	0	23.48	23.56	23.51			
15	16QAM	1	37	23.37	23.46	23.36	24.5	1	
15	16QAM	1	74	23.44	23.36	23.41			
15	16QAM	36	0	22.44	22.47	22.46			
15	16QAM	36	20	22.37	22.31	22.39	23.5	2	
15	16QAM	36	39	22.34	22.33	22.29			
15	16QAM	75	0	22.38	22.43	22.31			
15	64QAM	1	0	22.41	22.45	22.37			
15	64QAM	1	37	22.32	22.23	22.32	23.5	2	
15	64QAM	1	74	22.31	22.30	22.24			
15	64QAM	36	0	21.39	21.44	21.43			
15	64QAM	36	20	21.28	21.24	21.24	22.5	3	
15	64QAM	36	39	21.23	21.23	21.16			
15	64QAM	75	0	21.30	21.43	21.35			
Channel				26740	26865	26990			
Frequency (MHz)									
10	QPSK	1	0	24.26	24.36	24.29	25.5	0	
10	QPSK	1	25	24.26	24.24	24.09			
10	QPSK	1	49	24.23	24.34	24.20			
10	QPSK	25	0	23.25	23.27	23.29			
10	QPSK	25	12	23.17	23.26	23.22	24.5	1	
10	QPSK	25	25	23.15	23.19	23.21			
10	QPSK	50	0	23.38	23.36	23.29			
10	16QAM	1	0	23.40	23.43	23.41			
10	16QAM	1	25	23.33	23.36	23.30	24.5	1	
10	16QAM	1	49	23.32	23.32	23.27			
10	16QAM	25	0	22.36	22.34	22.42			
10	16QAM	25	12	22.29	22.25	22.36	23.5	2	
10	16QAM	25	25	22.21	22.24	22.17			
10	16QAM	50	0	22.32	22.34	22.20			
10	64QAM	1	0	22.28	22.31	22.27			
10	64QAM	1	25	22.17	22.16	22.28	23.5	2	
10	64QAM	1	49	22.17	22.21	22.16			
10	64QAM	25	0	21.30	21.41	21.29			
10	64QAM	25	12	21.22	21.17	21.12	22.5	3	
10	64QAM	25	25	21.18	21.16	21.04			
10	64QAM	50	0	21.16	21.35	21.29			
Channel				26715	26865	27015			
Frequency (MHz)									
5	QPSK	1	0	24.32	24.42	24.30	25.5	0	
5	QPSK	1	12	24.27	24.28	24.14			
5	QPSK	1	24	24.29	24.37	24.17			
5	QPSK	12	0	23.22	23.28	23.27			
5	QPSK	12	7	23.17	23.26	23.22	24.5	1	
5	QPSK	12	13	23.23	23.22	23.17			
5	QPSK	25	0	23.37	23.43	23.32			
5	16QAM	1	0	23.44	23.49	23.36	24.5	1	
5	16QAM	1	12	23.34	23.41	23.30			
5	16QAM	1	24	23.33	23.25	23.37			
5	16QAM	12	0	22.34	22.33	22.40			
5	16QAM	12	7	22.25	22.28	22.27	23.5	2	
5	16QAM	12	13	22.31	22.30	22.18			
5	16QAM	25	0	22.31	22.29	22.18			
5	64QAM	1	0	22.35	22.37	22.33	23.5	2	
5	64QAM	1	12	22.20	22.11	22.24			
5	64QAM	1	24	22.19	22.22	22.21			
5	64QAM	12	0	21.25	21.36	21.30			
5	64QAM	12	7	21.16	21.14	21.14	22.5	3	
5	64QAM	12	13	21.14	21.16	21.08			
5	64QAM	25	0	21.27	21.28	21.25			
Channel				26705	26865	27025			
Frequency (MHz)									
3	QPSK	1	0	24.30	24.40	24.33	25.5	0	
3	QPSK	1	8	24.26	24.26	24.15			
3	QPSK	1	14	24.28	24.31	24.24			
3	QPSK	8	0	23.24	23.34	23.20			
3	QPSK	8	4	23.20	23.30	23.19	24.5	1	
3	QPSK	8	7	23.26	23.22	23.11			
3	QPSK	15	0	23.41	23.33	23.36			
3	16QAM	1	0	23.42	23.48	23.47			
3	16QAM	1	8	23.24	23.31	23.23	24.5	1	
3	16QAM	1	14	23.36	23.31	23.31			
3	16QAM	8	0	22.38	22.32	22.40			
3	16QAM	8	4	22.25	22.20	22.25	23.5	2	
3	16QAM	8	7	22.24	22.25	22.21			
3	16QAM	15	0	22.31	22.31	22.21			
3	64QAM	1	0	22.33	22.36	22.31			
3	64QAM	1	8	22.26	22.16	22.24	23.5	2	
3	64QAM	1	14	22.21	22.26	22.10			
3	64QAM	8	0	21.35	21.34	21.38			
3	64QAM	8	4	21.21	21.17	21.23	22.5	3	
3	64QAM	8	7	21.20	21.15	21.13			
3	64QAM	15	0	21.22	21.31	21.27			
Channel				26697	26865	27033			
Frequency (MHz)									
1.4	QPSK	1	0	24.32	24.36	24.32	25.5	0	
1.4	QPSK	1	3	24.22	24.31	24.13			
1.4	QPSK	1	5	24.24	24.33	24.26			
1.4	QPSK	3	0	24.21	24.29	24.22			
1.4	QPSK	3	1	24.18	24.26	24.24			
1.4	QPSK	3	3	24.24	24.27	24.20			
1.4	QPSK	6	0	23.40	23.39	23.40	24.5	1	
1.4	16QAM	1	0	23.44	23.49	23.44			
1.4	16QAM	1	3	23.29	23.32	23.23			
1.4	16QAM	1	5	23.33	23.29	23.32	24.5	1	
1.4	16QAM	3	0	23.30	23.38	23.37			
1.4	16QAM	3	1	23.25	23.16	23.24			
1.4	16QAM	3	3	23.27	23.22	23.15			
1.4	16QAM	6	0	22.25	22.33	22.21	23.5	2	
1.4	64QAM	1	0	22.30	22.38	22.26			
1.4	64QAM	1	3	22.28	22.15	22.23			
1.4	64QAM	1	5	22.19	22.22	22.09	23.5	2	
1.4	64QAM	3	0	22.29	22.32	22.32			
1.4	64QAM	3	1	22.24	22.15	22.18			
1.4	64QAM	3	3	22.12	22.16	22.05	22.5	3	
1.4	64QAM	6	0	21.25	21.29	21.32			

Band 26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				821.5	831.5	841.5			
Frequency (MHz)									
15	QPSK	1	0	24.00	24.17	24.07	25.4	0	
15	QPSK	1	37	23.87	24.03	23.96			
15	QPSK	1	74	23.99	24.08	23.94			
15	QPSK	36	0	23.03	23.13	23.04			
15	QPSK	36	20	22.91	23.05	22.94	24.4	1	
15	QPSK	36	39	23.01	23.08	23.03			
15	QPSK	75	0	23.02	23.09	22.98			
15	16QAM	1	0	23.05	23.17	23.13			
15	16QAM	1	37	22.94	22.89	22.83	24.4	1	
15	16QAM	1	74	22.95	22.98	23.02			
15	16QAM	36	0	21.93	22.09	22.00			
15	16QAM	36	20	21.94	22.01	21.99	23.4	2	
15	16QAM	36	39	22.01	21.94	22.02			
15	16QAM	75	0	22.02	22.10	21.98			
15	64QAM	1	0	21.98	22.07	22.03			
15	64QAM	1	37	21.83	21.84	21.87	23.4	2	
15	64QAM	1	74	21.82	21.97	21.98			
15	64QAM	36	0	20.94	21.05	20.88			
15	64QAM	36	20	21.02	21.02	20.93	22.4	3	
15	64QAM	36	39	20.85	20.81	20.85			
15	64QAM	75	0	20.96	21.07	20.99			
Channel				26740	26865	26990			
Frequency (MHz)									
10	QPSK	1	0	23.94	24.13	24.01	25.4	0	
10	QPSK	1	25	23.88					



Band 66_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)									
20	QPSK	1	0	24.40	24.36	24.32	25.5	0	
20	QPSK	1	49	24.27	24.41	24.27			
20	QPSK	1	99	24.36	24.44	24.31			
20	QPSK	50	0	23.51	23.65	23.57	24.5	1	
20	QPSK	50	24	23.47	23.60	23.46			
20	QPSK	50	50	23.50	23.57	23.50			
20	QPSK	100	0	23.50	23.55	23.48	24.5	1	
20	16QAM	1	0	23.50	23.55	23.46			
20	16QAM	1	49	23.35	23.35	23.39			
20	16QAM	1	99	23.34	23.31	23.35	23.5	2	
20	16QAM	50	0	22.40	22.51	22.46			
20	16QAM	50	24	22.37	22.34	22.35			
20	16QAM	50	50	22.37	22.35	22.32	23.5	2	
20	16QAM	100	0	22.41	22.45	22.37			
20	16QAM	1	0	22.42	22.54	22.46			
20	64QAM	1	0	22.32	22.29	22.29	23.5	2	
20	64QAM	1	49	22.32	22.29	22.29			
20	64QAM	1	99	22.45	22.39	22.39			
20	64QAM	50	0	21.34	21.45	21.43	22.5	3	
20	64QAM	50	24	21.26	21.27	21.33			
20	64QAM	50	50	21.24	21.26	21.23			
20	64QAM	100	0	21.37	21.42	21.40			
Channel				132047	132322	132597			
Frequency (MHz)									
15	QPSK	1	0	24.24	24.41	24.26	25.5	0	
15	QPSK	1	37	24.15	24.29	24.23			
15	QPSK	1	74	24.31	24.39	24.16			
15	QPSK	36	0	23.45	23.51	23.45	24.5	1	
15	QPSK	36	39	23.42	23.50	23.37			
15	QPSK	36	39	23.37	23.46	23.35			
15	QPSK	75	0	23.46	23.46	23.37	24.5	1	
15	16QAM	1	0	23.47	23.50	23.37			
15	16QAM	1	37	23.36	23.24	23.32			
15	16QAM	1	74	23.29	23.18	23.21	23.5	2	
15	16QAM	36	0	22.27	22.38	22.35			
15	16QAM	36	20	22.24	22.29	22.20			
15	16QAM	36	39	22.28	22.25	22.28	23.5	2	
15	16QAM	75	0	22.37	22.31	22.23			
15	64QAM	1	0	22.37	22.42	22.33			
15	64QAM	1	37	22.19	22.19	22.21	23.5	2	
15	64QAM	1	74	22.35	22.33	22.30			
15	64QAM	36	0	21.26	21.36	21.30			
15	64QAM	36	20	21.15	21.17	21.20	22.5	3	
15	64QAM	36	39	21.17	21.14	21.10			
15	64QAM	75	0	21.32	21.33	21.28			
Channel				132022	132322	132622			
Frequency (MHz)									
10	QPSK	1	0	24.25	24.42	24.24	25.5	0	
10	QPSK	1	25	24.19	24.37	24.13			
10	QPSK	1	49	24.37	24.34	24.24			
10	QPSK	25	0	23.40	23.54	23.52	24.5	1	
10	QPSK	25	12	23.38	23.56	23.41			
10	QPSK	25	25	23.46	23.46	23.38			
10	QPSK	50	0	23.40	23.49	23.44	24.5	1	
10	16QAM	1	0	23.45	23.48	23.34			
10	16QAM	1	25	23.29	23.31	23.29			
10	16QAM	1	49	23.28	23.23	23.27	23.5	2	
10	16QAM	25	0	22.34	22.47	22.33			
10	16QAM	25	12	22.24	22.23	22.26			
10	16QAM	25	25	22.32	22.27	22.23	23.5	2	
10	16QAM	50	0	22.30	22.29	22.30			
10	64QAM	1	0	22.36	22.45	22.32			
10	64QAM	1	25	22.25	22.24	22.21	23.5	2	
10	64QAM	1	49	22.40	22.33	22.29			
10	64QAM	25	0	21.26	21.35	21.32			
10	64QAM	25	12	21.12	21.18	21.25	22.5	3	
10	64QAM	25	25	21.13	21.12	21.17			
10	64QAM	50	0	21.32	21.38	21.28			
Channel				131997	132322	132647			
Frequency (MHz)									
5	QPSK	1	0	24.30	24.51	24.21	25.5	0	
5	QPSK	1	12	24.13	24.36	24.23			
5	QPSK	1	24	24.30	24.30	24.28			
5	QPSK	12	0	23.47	23.50	23.48	24.5	1	
5	QPSK	12	7	23.40	23.50	23.39			
5	QPSK	12	13	23.36	23.44	23.37			
5	QPSK	25	0	23.39	23.44	23.40	24.5	1	
5	16QAM	1	0	23.38	23.45	23.31			
5	16QAM	1	12	23.34	23.24	23.35			
5	16QAM	1	24	23.24	23.19	23.23	23.5	2	
5	16QAM	12	0	22.34	22.47	22.39			
5	16QAM	12	7	22.28	22.19	22.23			
5	16QAM	12	13	22.30	22.29	22.28	23.5	2	
5	16QAM	25	0	22.31	22.38	22.32			
5	64QAM	1	0	22.34	22.50	22.39			
5	64QAM	1	12	22.19	22.22	22.23	23.5	2	
5	64QAM	1	24	22.41	22.33	22.31			
5	64QAM	12	0	21.31	21.38	21.39			
5	64QAM	12	7	21.19	21.16	21.14	22.5	3	
5	64QAM	12	13	21.10	21.15	21.17			
5	64QAM	25	0	21.24	21.33	21.33			
Channel				131987	132322	132657			
Frequency (MHz)									
3	QPSK	1	0	24.30	24.47	24.25	25.5	0	
3	QPSK	1	8	24.15	24.29	24.15			
3	QPSK	1	14	24.29	24.28	24.24			
3	QPSK	8	0	23.38	23.53	23.53	24.5	1	
3	QPSK	8	4	23.39	23.48	23.41			
3	QPSK	8	7	23.42	23.42	23.37			
3	QPSK	15	0	23.43	23.52	23.42	24.5	1	
3	16QAM	1	0	23.38	23.42	23.41			
3	16QAM	1	8	23.34	23.31	23.34			
3	16QAM	1	14	23.30	23.26	23.31	23.5	2	
3	16QAM	8	0	22.29	22.42	22.33			
3	16QAM	8	4	22.29	22.30	22.32			
3	16QAM	8	7	22.29	22.28	22.24	23.5	2	
3	16QAM	15	0	22.37	22.31	22.31			
3	64QAM	1	0	22.34	22.39	22.36			
3	64QAM	1	8	22.21	22.19	22.21	23.5	2	
3	64QAM	1	14	22.27	22.33	22.28			
3	64QAM	8	0	21.20	21.37	21.33			
3	64QAM	8	4	21.21	21.20	21.24	22.5	3	
3	64QAM	8	7	21.17	21.08	21.12			
3	64QAM	15	0	21.33	21.34	21.29			
Channel				131970	132322	132685			
Frequency (MHz)									
1.4	QPSK	1	0	24.21	24.51	24.22	25.5	0	
1.4	QPSK	1	3	24.24	24.28	24.17			
1.4	QPSK	1	5	24.33	24.30	24.19			
1.4	QPSK	3	0	24.41	24.49	24.40	24.5	1	
1.4	QPSK	3	1	24.33	24.43	24.31			
1.4	QPSK	3	3	24.37	24.38	23.35			
1.4	QPSK	6	0	23.43	23.48	23.38	24.5	1	
1.4	16QAM	1	0	23.39	23.42	23.31			
1.4	16QAM	1	3	23.24	23.22	23.35			
1.4	16QAM	1	5	23.27	23.18	23.28	24.5	1	
1.4	16QAM	3	0	23.30	23.34	23.33			
1.4	16QAM	3	1	23.24	23.15	23.15			
1.4	16QAM	3	1	23.28	23.19	23.13	23.5	2	
1.4	16QAM	6	0	22.29	22.38	22.27			
1.4	64QAM	1	0	22.32	22.40	22.39			
1.4	64QAM	1	3	22.27	22.24	22.15	23.5	2	
1.4	64QAM	1	5	22.34	22.26	22.31			
1.4	64QAM	3	0	22.21	22.28	22.26			
1.4	64QAM	3	1	22.10	22.09	22.25	22.5	3	
1.4	64QAM	3	3	22.05	22.02	22.07			
1.4	64QAM	6	0	21.25	21.28	21.33			

Band 66_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)									
20	QPSK	1	0	23.68	23.73	23.64	25	0	
20	QPSK	1	49	23.67	23.69	23.63			
20	QPSK	1	99	23.57	23.67	23.65			
20	QPSK	50	0	22.77	22.88	22.72	24	1	
20	QPSK	50	24	22.74	22.79	22.65			
20	QPSK	50	50	22.60	22.74	22.69			
20	QPSK	100	0	22.65	22.71	22.63	24	1	
20	16QAM	1	0	23.11	23.17	23.06			
20	16QAM	1	49	22.93	22.96	22.86			
20	16QAM	1	99	22.96	23.04	22.91	23	2	
20	16QAM	50							



Band 66_Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				132072	132322	132572					
Frequency (MHz)											
20	QPSK	1	0	24.61	24.72	24.83	25.7	0			
20	QPSK	1	49	24.47	24.60	24.48					
20	QPSK	1	99	24.59	24.64	24.55					
20	QPSK	50	0	23.71	23.81	23.69	24.7	1			
20	QPSK	50	24	23.54	23.69	23.55					
20	QPSK	50	50	23.70	23.76	23.68					
20	QPSK	100	0	23.58	23.68	23.59	24.7	1			
20	16QAM	1	0	23.62	23.71	23.59					
20	16QAM	1	49	23.53	23.61	23.56					
20	16QAM	1	99	23.67	23.51	23.50	23.7	2			
20	16QAM	50	0	22.51	22.69	22.60					
20	16QAM	50	24	22.50	22.49	22.47					
20	16QAM	50	50	22.50	22.44	22.51	23.7	2			
20	16QAM	100	0	22.54	22.64	22.56					
20	64QAM	1	0	22.54	22.65	22.49					
20	64QAM	1	49	22.49	22.48	22.49	22.7	3			
20	64QAM	1	99	22.45	22.48	22.54					
20	64QAM	50	0	21.51	21.68	21.59					
20	64QAM	50	24	21.45	21.53	21.55	132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
20	64QAM	50	50	21.50	21.58	21.50					
20	64QAM	100	0	21.47	21.62	21.61					
Channel				132047	132322	132597					
Frequency (MHz)											
15	QPSK	1	0	24.53	24.62	24.49	25.7	0			
15	QPSK	1	37	24.34	24.47	24.35					
15	QPSK	1	74	24.46	24.59	24.47					
15	QPSK	36	0	23.52	23.69	23.57	24.7	1			
15	QPSK	36	20	23.49	23.59	23.42					
15	QPSK	36	39	23.64	23.70	23.68					
15	QPSK	75	0	23.48	23.64	23.48	24.7	1			
15	16QAM	1	0	23.46	23.58	23.47					
15	16QAM	1	37	23.46	23.49	23.47					
15	16QAM	1	74	23.49	23.43	23.41	23.7	2			
15	16QAM	36	0	22.38	22.56	22.53					
15	16QAM	36	20	22.37	22.46	22.34					
15	16QAM	36	39	22.46	22.29	22.37	23.7	2			
15	16QAM	75	0	22.46	22.59	22.52					
15	64QAM	1	0	22.47	22.54	22.37					
15	64QAM	1	37	22.43	22.34	22.36	22.7	3			
15	64QAM	1	74	22.37	22.38	22.40					
15	64QAM	36	0	21.38	21.59	21.45					
15	64QAM	36	20	21.39	21.49	21.46	132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
15	64QAM	36	39	21.44	21.45	21.45					
15	64QAM	75	0	21.42	21.52	21.51					
Channel				132022	132322	132622					
Frequency (MHz)											
10	QPSK	1	0	24.51	24.63	24.55	25.7	0			
10	QPSK	1	25	24.38	24.53	24.43					
10	QPSK	1	49	24.57	24.50	24.49					
10	QPSK	25	0	23.42	23.68	23.60	24.7	1			
10	QPSK	25	12	23.43	23.65	23.41					
10	QPSK	25	25	23.64	23.67	23.66					
10	QPSK	50	0	23.55	23.63	23.48	24.7	1			
10	16QAM	1	0	23.41	23.61	23.51					
10	16QAM	1	25	23.44	23.58	23.47					
10	16QAM	1	49	23.44	23.38	23.36	23.7	2			
10	16QAM	25	0	22.40	22.59	22.52					
10	16QAM	25	12	22.39	22.40	22.37					
10	16QAM	25	25	22.37	22.35	22.38	23.7	2			
10	16QAM	50	0	22.40	22.58	22.50					
10	64QAM	1	0	22.40	22.58	22.34					
10	64QAM	1	25	22.45	22.43	22.37	22.7	3			
10	64QAM	1	49	22.33	22.42	22.42					
10	64QAM	25	0	21.40	21.55	21.50					
10	64QAM	25	12	21.41	21.46	21.49	131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
10	64QAM	25	25	21.38	21.55	21.35					
10	64QAM	50	0	21.33	21.49	21.50					
Channel				131997	132322	132647					
Frequency (MHz)											
5	QPSK	1	0	24.52	24.59	24.54	25.7	0			
5	QPSK	1	12	24.34	24.47	24.40					
5	QPSK	1	24	24.55	24.56	24.43					
5	QPSK	12	0	23.43	23.75	23.50	24.7	1			
5	QPSK	12	7	23.44	23.61	23.51					
5	QPSK	12	13	23.61	23.65	23.67					
5	QPSK	25	0	23.54	23.63	23.51	24.7	1			
5	16QAM	1	0	23.40	23.57	23.55					
5	16QAM	1	12	23.41	23.49	23.53					
5	16QAM	1	24	23.52	23.37	23.40	23.7	2			
5	16QAM	12	0	22.40	22.55	22.56					
5	16QAM	12	7	22.37	22.43	22.43					
5	16QAM	12	13	22.37	22.32	22.44	23.7	2			
5	16QAM	25	0	22.47	22.56	22.47					
5	16QAM	25	12	22.47	22.53	22.41					
5	64QAM	1	12	22.45	22.40	22.41	22.7	3			
5	64QAM	1	24	22.38	22.42	22.40					
5	64QAM	12	0	21.38	21.60	21.52					
5	64QAM	12	7	21.37	21.40	21.51	131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
5	64QAM	12	13	21.45	21.46	21.42					
5	64QAM	25	0	21.35	21.56	21.49					
Channel				131987	132322	132657					
Frequency (MHz)											
3	QPSK	1	0	24.45	24.58	24.55	25.7	0			
3	QPSK	1	8	24.44	24.51	24.40					
3	QPSK	1	14	24.60	24.51	24.50					
3	QPSK	8	0	23.50	23.68	23.53	24.7	1			
3	QPSK	8	4	23.49	23.58	23.51					
3	QPSK	8	7	23.58	23.67	23.65					
3	QPSK	15	0	23.51	23.60	23.52	24.7	1			
3	16QAM	1	0	23.38	23.64	23.53					
3	16QAM	1	8	23.39	23.51	23.51					
3	16QAM	1	14	23.51	23.47	23.40	23.7	2			
3	16QAM	8	0	22.38	22.58	22.54					
3	16QAM	8	4	22.44	22.35	22.36					
3	16QAM	8	7	22.41	22.37	22.47	23.7	2			
3	16QAM	15	0	22.44	22.53	22.50					
3	64QAM	1	0	22.39	22.58	22.44					
3	64QAM	1	8	22.34	22.40	22.35	22.7	3			
3	64QAM	1	14	22.38	22.35	22.47					
3	64QAM	8	0	21.38	21.60	21.48					
3	64QAM	8	4	21.40	21.43	21.41	131970	132322	132686	Tune-up limit (dBm)	MPR (dB)
3	64QAM	8	7	21.35	21.47	21.45					
3	64QAM	15	0	21.42	21.51	21.57					
Channel				131970	132322	132686					
Frequency (MHz)											
1.4	QPSK	1	0	24.56	24.61	24.49	25.7	0			
1.4	QPSK	1	3	24.40	24.50	24.37					
1.4	QPSK	1	5	24.56	24.60	24.42					
1.4	QPSK	3	0	24.39	24.64	24.43	24.7	1			
1.4	QPSK	3	1	24.39	24.54	24.37					
1.4	QPSK	3	3	24.57	24.50	24.52					
1.4	QPSK	6	0	23.48	23.55	23.50	24.7	1			
1.4	16QAM	1	0	23.41	23.63	23.53					
1.4	16QAM	1	3	23.38	23.52	23.50					
1.4	16QAM	1	5	23.50	23.41	23.42	23.7	2			
1.4	16QAM	3	0	23.36	23.45	23.35					
1.4	16QAM	3	1	23.31	23.35	23.23					
1.4	16QAM	3	1	22.22	22.38	22.34	23.7	2			
1.4	16QAM	6	0	22.47	22.50	22.47					
1.4	64QAM	1	0	22.45	22.57	22.40					
1.4	64QAM	1	3	22.40	22.37	22.36	22.7	3			
1.4	64QAM	1	5	22.33	22.37	22.44					
1.4	64QAM	3	0	22.30	22.48	22.34					
1.4	64QAM	3	1	22.22	22.38	22.34	131970	132322	132686	Tune-up limit (dBm)	MPR (dB)
1.4	64QAM	3	3	22.29	22.42	22.34					
1.4	64QAM	6	0	21.34	21.51	21.52					

Band 66_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)									
20	QPSK	1	0	23.16	23.32	23.21	24	0	
20	QPSK	1	49	24.10	23.07	23.15			
20	QPSK	1	99	23.13	23.26	23.20			
20	QPSK	50	0	22.24	22.46	22.28	23	1	
20	QPSK	50	24	22.19	22.34	22.25			
20	QPSK	50	50	22.20	22.32	22.19			
20	QPSK	100	0	22.19	22.31	22.27	23	1	
20	16QAM	1	0	22.23	22.39	22.30			
20	16QAM	1	49						



Band 38_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.82	24.78	24.85	25.5	0	
20	QPSK	1	49	24.68	24.75	24.64			
20	QPSK	1	99	24.95	24.66	24.57			
20	QPSK	50	0	23.77	23.81	23.74	24.5	1	
20	QPSK	50	24	23.85	23.70	23.62			
20	QPSK	50	50	23.52	23.64	23.54			
20	QPSK	100	0	23.65	23.69	23.60			
20	16QAM	1	0	23.76	23.77	23.73	24.5	1	
20	16QAM	1	49	23.58	23.57	23.58			
20	16QAM	1	99	23.62	23.64	23.60			
20	16QAM	50	0	22.79	22.75	22.85			
20	16QAM	50	24	22.63	22.63	22.64	23.5	2	
20	16QAM	50	50	22.59	22.69	22.60			
20	16QAM	100	0	22.73	22.71	22.78			
20	64QAM	1	0	22.47	22.51	22.42	23.5	2	
20	64QAM	1	49	22.27	22.22	22.30			
20	64QAM	1	99	22.43	22.40	22.40			
20	64QAM	50	0	21.76	21.73	21.79			
20	64QAM	50	24	21.58	21.63	21.68	22.5	3	
20	64QAM	50	50	21.54	21.49	21.47			
20	64QAM	100	0	21.69	21.69	21.74			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.53	24.74	24.63	25.5	0	
15	QPSK	1	37	24.62	24.62	24.53			
15	QPSK	1	74	24.41	24.56	24.47			
15	QPSK	36	0	23.74	23.77	23.61	24.5	1	
15	QPSK	36	20	23.57	23.66	23.56			
15	QPSK	36	39	23.47	23.52	23.43			
15	QPSK	75	0	23.56	23.65	23.49			
15	16QAM	1	0	23.68	23.64	23.67	24.5	1	
15	16QAM	1	37	23.54	23.45	23.47			
15	16QAM	1	74	23.48	23.57	23.46			
15	16QAM	36	0	22.73	22.71	22.77	23.5	2	
15	16QAM	36	20	22.53	22.56	22.40			
15	16QAM	36	39	22.48	22.66	22.52			
15	16QAM	75	0	22.66	22.62	22.65			
15	64QAM	1	0	22.35	22.40	22.31	23.5	2	
15	64QAM	1	37	22.22	22.19	22.17			
15	64QAM	1	74	22.35	22.28	22.29			
15	64QAM	36	0	21.65	21.69	21.69	22.5	3	
15	64QAM	36	20	21.52	21.59	21.54			
15	64QAM	36	39	21.47	21.44	21.39			
15	64QAM	75	0	21.58	21.58	21.63			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.58	24.71	24.63	25.5	0	
10	QPSK	1	25	24.59	24.67	24.50			
10	QPSK	1	49	24.42	24.56	24.43			
10	QPSK	25	0	23.69	23.78	23.69	24.5	1	
10	QPSK	25	12	23.59	23.66	23.55			
10	QPSK	25	25	23.38	23.58	23.44			
10	QPSK	50	0	23.55	23.66	23.47	24.5	1	
10	16QAM	1	0	23.62	23.66	23.65			
10	16QAM	1	25	23.51	23.52	23.46	24.5	1	
10	16QAM	1	49	23.54	23.54	23.54			
10	16QAM	25	0	22.73	22.66	22.81	23.5	2	
10	16QAM	25	12	22.52	22.53	22.59			
10	16QAM	25	25	22.53	22.60	22.50			
10	16QAM	50	0	22.80	22.62	22.74			
10	64QAM	1	0	22.42	22.37	22.31	23.5	2	
10	64QAM	1	25	22.14	22.11	22.23			
10	64QAM	1	49	22.38	22.31	22.38			
10	64QAM	25	0	21.82	21.58	21.73	22.5	3	
10	64QAM	25	12	21.55	21.59	21.60			
10	64QAM	25	25	21.42	21.37	21.40			
10	64QAM	50	0	21.58	21.61	21.62			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.55	24.75	24.52	25.5	0	
5	QPSK	1	12	24.68	24.64	24.59			
5	QPSK	1	24	24.47	24.62	24.46			
5	QPSK	12	0	23.68	23.69	23.65	24.5	1	
5	QPSK	12	7	23.61	23.65	23.50			
5	QPSK	12	13	23.40	23.55	23.42			
5	QPSK	25	0	23.62	23.64	23.45			
5	16QAM	1	0	23.71	23.74	23.64	24.5	1	
5	16QAM	1	12	23.45	23.43	23.42			
5	16QAM	1	24	23.59	23.56	23.48			
5	16QAM	12	0	22.70	22.69	22.77	23.5	2	
5	16QAM	12	7	22.59	22.56	22.57			
5	16QAM	12	13	22.49	22.66	22.50			
5	16QAM	25	0	22.63	22.64	22.69	23.5	2	
5	64QAM	1	0	22.33	22.38	22.38			
5	64QAM	1	12	22.23	22.09	22.24	23.5	2	
5	64QAM	1	24	22.32	22.29	22.27			
5	64QAM	12	0	21.85	21.83	21.73	22.5	3	
5	64QAM	12	7	21.44	21.49	21.58			
5	64QAM	12	13	21.50	21.38	21.36			
5	64QAM	25	0	21.55	21.62	21.59			

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.65	23.52	23.64	25	0	
20	QPSK	1	49	23.59	23.67	23.58			
20	QPSK	1	99	23.84	23.88	23.82			
20	QPSK	50	0	22.73	22.85	22.79	24	1	
20	QPSK	50	24	22.69	22.82	22.78			
20	QPSK	50	50	22.57	22.72	22.61			
20	QPSK	100	0	22.74	22.78	22.68			
20	16QAM	1	0	22.80	22.88	22.81	24	1	
20	16QAM	1	49	22.66	22.66	22.58			
20	16QAM	1	99	22.76	22.68	22.73			
20	16QAM	50	0	21.75	21.85	21.71	23	2	
20	16QAM	50	24	21.62	21.73	21.71			
20	16QAM	50	50	21.68	21.71	21.77			
20	16QAM	100	0	21.74	21.79	21.63			
20	64QAM	1	0	21.46	21.60	21.38	23	2	
20	64QAM	1	49	21.44	21.37	21.43			
20	64QAM	1	99	21.47	21.44	21.45			
20	64QAM	50	0	20.73	20.82	20.67	22	3	
20	64QAM	50	24	20.71	20.64	20.71			
20	64QAM	50	50	20.68	20.71	20.64			
20	64QAM	100	0	20.65	20.74	20.57			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.74	23.84	23.75	25	0	
15	QPSK	1	37	23.55	23.55	23.52			
15	QPSK	1	74	23.80	23.78	23.80			
15	QPSK	36	0	22.63	22.80	22.68	24	1	
15	QPSK	36	20	22.56	22.71	22.65			
15	QPSK	36	39	22.47	22.68	22.47			
15	QPSK	75	0	22.64	22.66	22.62			
15	16QAM	1	0	22.65	22.74	22.56	24	1	
15	16QAM	1	37	22.54	22.55	22.50			
15	16QAM	1	74	22.51	22.55	22.66			
15	16QAM	36	0	21.71	21.77	21.62	23	2	
15	16QAM	36	20	21.47	21.58	21.60			
15	16QAM	36	39	21.55	21.67	21.63			
15	16QAM	75	0	21.65	21.68	21.52			
15	64QAM	1	0	21.36	21.52	21.35	23	2	
15	64QAM	1	37	21.40	21.33	21.30			
15	64QAM	1	74	21.39	21.40	21.35			
15	64QAM	36	0	20.65	20.74	20.57	22	3	
15	64QAM	36	20	20.57	20.53	20.67			
15	64QAM	36	39	20.58	20.57	20.61			



Band 38_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.32	24.34	24.45	25.7	0	
20	QPSK	1	49	24.40	24.47	24.41			
20	QPSK	1	99	24.38	24.51	24.42			
20	QPSK	50	0	23.53	23.60	23.58	24.7	1	
20	QPSK	50	24	23.38	23.42	23.34			
20	QPSK	50	50	23.44	23.55	23.46			
20	QPSK	100	0	23.54	23.57	23.50	24.7	1	
20	16QAM	1	0	23.60	23.63	23.51			
20	16QAM	1	49	23.46	23.45	23.50			
20	16QAM	1	99	23.51	23.52	23.54	23.7	2	
20	16QAM	50	0	22.54	22.61	22.58			
20	16QAM	50	24	22.47	22.45	22.44			
20	16QAM	50	50	22.53	22.48	22.46	23.7	2	
20	16QAM	100	0	22.53	22.55	22.49			
20	64QAM	1	0	22.22	22.28	22.17			
20	64QAM	1	49	22.07	22.03	22.09	22.7	3	
20	64QAM	1	99	22.19	22.20	22.25			
20	64QAM	50	0	21.61	21.52	21.53			
20	64QAM	50	24	21.30	21.37	21.36	22.7	3	
20	64QAM	50	50	21.34	21.33	21.34			
20	64QAM	100	0	21.50	21.47	21.50			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.38	24.45	24.39	25.7	0	
15	QPSK	1	37	24.26	24.34	24.32			
15	QPSK	1	74	24.28	24.41	24.28			
15	QPSK	36	0	23.44	23.52	23.49	24.7	1	
15	QPSK	36	20	23.33	23.36	23.20			
15	QPSK	36	39	23.30	23.49	23.42			
15	QPSK	75	0	23.47	23.45	23.41	24.7	1	
15	16QAM	1	0	23.57	23.57	23.43			
15	16QAM	1	37	23.41	23.41	23.38			
15	16QAM	1	74	23.43	23.46	23.49	23.7	2	
15	16QAM	36	0	22.41	22.37	22.45			
15	16QAM	36	20	22.42	22.34	22.35			
15	16QAM	36	39	22.38	22.43	22.34	23.7	2	
15	16QAM	75	0	22.45	22.48	22.44			
15	64QAM	1	0	22.13	22.23	22.10			
15	64QAM	1	37	21.99	21.96	22.01	22.7	3	
15	64QAM	1	74	22.15	22.14	22.15			
15	64QAM	36	0	21.54	21.48	21.40			
15	64QAM	36	20	21.20	21.34	21.27	22.7	3	
15	64QAM	36	39	21.31	21.22	21.22			
15	64QAM	75	0	21.44	21.33	21.43			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.43	24.41	24.38	25.7	0	
10	QPSK	1	25	24.25	24.37	24.29			
10	QPSK	1	49	24.24	24.47	24.29			
10	QPSK	25	0	23.44	23.54	23.42	24.7	1	
10	QPSK	25	12	23.34	23.38	23.21			
10	QPSK	25	25	23.38	23.43	23.41			
10	QPSK	50	0	23.46	23.51	23.42	24.7	1	
10	16QAM	1	0	23.52	23.54	23.37			
10	16QAM	1	25	23.43	23.31	23.35			
10	16QAM	1	49	23.46	23.39	23.40	23.7	2	
10	16QAM	25	0	22.46	22.56	22.54			
10	16QAM	25	12	22.36	22.37	22.35			
10	16QAM	25	25	22.46	22.35	22.38	23.7	2	
10	16QAM	50	0	22.45	22.49	22.41			
10	64QAM	1	0	22.18	22.23	22.10			
10	64QAM	1	25	21.98	21.98	22.04	22.7	3	
10	64QAM	1	49	22.05	22.05	22.13			
10	64QAM	25	0	21.49	21.48	21.47			
10	64QAM	25	12	21.26	21.33	21.21	22.7	3	
10	64QAM	25	25	21.27	21.29	21.24			
10	64QAM	50	0	21.46	21.42	21.43			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.38	24.48	24.39	25.7	0	
5	QPSK	1	12	24.33	24.32	24.36			
5	QPSK	1	24	24.27	24.46	24.33			
5	QPSK	12	0	23.45	23.56	23.44	24.7	1	
5	QPSK	12	7	23.29	23.33	23.25			
5	QPSK	12	13	23.31	23.46	23.43			
5	QPSK	25	0	23.42	23.53	23.39	24.7	1	
5	16QAM	1	0	23.56	23.56	23.39			
5	16QAM	1	12	23.36	23.40	23.37			
5	16QAM	1	24	23.37	23.44	23.43	23.7	2	
5	16QAM	12	0	22.49	22.47	22.43			
5	16QAM	12	7	22.38	22.32	22.40			
5	16QAM	12	13	22.43	22.33	22.38	23.7	2	
5	16QAM	25	0	22.47	22.52	22.36			
5	64QAM	1	0	22.10	22.17	22.09			
5	64QAM	1	12	22.04	21.92	22.01	23.7	2	
5	64QAM	1	24	22.16	22.15	22.20			
5	64QAM	12	0	21.51	21.38	21.43			
5	64QAM	12	7	21.26	21.23	21.28	22.7	3	
5	64QAM	12	13	21.22	21.21	21.26			
5	64QAM	25	0	21.45	21.33	21.41			

Band 38_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.46	23.48	23.40	24.5	0	
20	QPSK	1	49	23.28	23.41	23.34			
20	QPSK	1	99	23.29	23.37	23.33			
20	QPSK	50	0	22.51	22.55	22.49	23.5	1	
20	QPSK	50	24	22.31	22.39	22.34			
20	QPSK	50	50	22.30	22.43	22.34			
20	QPSK	100	0	22.42	22.50	22.44	23.5	1	
20	16QAM	1	0	22.52	22.51	22.47			
20	16QAM	1	49	22.36	22.33	22.42			
20	16QAM	1	99	22.37	22.42	22.41	22.5	2	
20	16QAM	50	0	21.57	21.52	21.52			
20	16QAM	50	24	21.34	21.33	21.38			
20	16QAM	50	50	21.45	21.35	21.41	22.5	2	
20	16QAM	100	0	21.51	21.48	21.45			
20	64QAM	1	0	21.23	21.26	21.17			
20	64QAM	1	49	21.07	21.09	21.05	21.5	3	
20	64QAM	1	99	21.19	21.20	21.20			
20	64QAM	50	0	20.52	20.51	20.49			
20	64QAM	50	24	20.40	20.37	20.39	21.5	3	
20	64QAM	50	50	20.31	20.28	20.27			
20	64QAM	100	0	20.48	20.44	20.41			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.33	23.45	23.37	24.5	0	
15	QPSK	1	37	23.19	23.32	23.22			
15	QPSK	1	74	23.20	23.25	23.21			
15	QPSK	36	0	22.37	22.43	22.41	23.5	1	
15	QPSK	36	20	22.22	22.25	22.20			
15	QPSK	36	39	22.23	22.34	22.23			
15	QPSK	75	0	22.29	22.41	22.32	23.5	1	
15	16QAM	1	0	22.47	22.44	22.33			
15	16QAM	1	37	22.32	22.28	22.37			
15	16QAM	1	74	22.24	22.36	22.31	22.5	2	
15	16QAM	36	0	21.43	21.47	21.38			
15	16QAM	36	20	21.30	21.24	21.30			
15	16QAM	36	39	21.36	21.25	21.29	22.5	2	
15	16QAM	75	0	21.48	21.44	21.37			
15	64QAM	1	0	21.10	21.17	21.14			
15	64QAM	1	37	20.99	21.02	20.95	21.5	3	
15	64QAM	1	74	21.10	21.08	21.06			
15	64QAM	36	0	20.45	20.46	20.38			
15	64QAM	36	20	20.27	20.30	20.33	21.5	3	
15	64QAM	36	39	20.22	20.14	20.17			
15	64QAM	75	0	20.43	20.37	20.29			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.36	23.36	23.26	24.5	0	
10	QPSK	1	25	23.18	23.30	23.24			
10	QPSK	1	49	23.22	23.23	23.27			
10	QPSK	25	0	22.45	22.50	22.41	23.5	1	
10	QPSK	25	12	22.26	22.31	22.19			
10	QPSK	25	25	22.22	22.35	22.22			
10	QPSK	50	0	22.32	22.40	22.38	23.5	1	
10	16QAM	1	0	22.39	22.47	22.42			
10	16QAM	1	25	22.31	22.19	22.33			
10	16QAM	1	49	22.27	22.33	22.30	22.5	2	
10	16QAM	25	0	21.47	21.44	21.44			
10	16QAM	25	12	21.19	21.25	21.29			
10	16QAM	25	25	21.32	21.26	21.38	21.5	3	
10	16QAM	50	0	21.37	21.36	21.39			
10	64QAM	1	0	21.09	21.14	21.10			
10	64QAM	1	25	20.95	20.98	21.00	22.5	2	
10	64QAM	1	49	21.12	21.10	21.12			
10	64QAM	25	0	20.43	20.39	20.37			
10	64QAM	25	12	20.29	20.28	20.24	21.5	3	
10	64QAM	25	25	20.26	20.19	20.22			
10	64QAM	50	0	20.37	20.40	20.29			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.34	23.37	23.32	24.5	0	
5	QPSK	1	12	23.16					



Band 41_Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	24.75	24.75	24.91	24.82	24.75	25.5	0		
20	QPSK	1	49	24.68	24.74	24.78	24.84	24.87				
20	QPSK	1	99	24.63	24.61	24.67	24.62	24.58				
20	QPSK	50	0	23.76	23.70	23.89	23.85	23.80				
20	QPSK	50	24	23.61	23.67	23.71	23.63	23.61	24.5	1		
20	QPSK	50	50	23.59	23.64	23.63	23.54	23.57				
20	QPSK	100	0	23.79	23.76	23.89	23.81	23.83				
20	16QAM	1	0	23.78	23.61	23.77	23.82	23.86				
20	16QAM	1	49	23.56	23.59	23.56	23.52	23.57	24.5	1		
20	16QAM	1	99	23.55	23.67	23.65	23.59	23.63				
20	16QAM	50	0	22.77	22.63	22.79	22.87	22.84				
20	16QAM	50	24	22.61	22.59	22.57	22.62	22.60	23.5	2		
20	16QAM	50	50	22.59	22.65	22.61	22.65	22.62				
20	16QAM	100	0	21.69	21.73	21.70	21.71	21.75				
20	64QAM	1	0	22.41	22.31	22.59	22.42	22.53				
20	64QAM	1	49	22.39	22.41	22.47	22.45	22.50	23.5	2		
20	64QAM	1	99	22.46	22.49	22.48	22.50	22.49				
20	64QAM	50	0	21.72	21.84	21.86	21.83	21.89				
20	64QAM	50	24	21.78	21.80	21.78	21.75	21.75	22.5	3		
20	64QAM	50	50	21.73	21.73	21.70	21.71	21.75				
20	64QAM	100	0	21.71	21.68	21.85	21.75	21.82				
Channel				39725	40173	40620	41088	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	24.71	24.74	24.78	24.70	24.68	25.5	0		
15	QPSK	1	37	24.54	24.67	24.68	24.58	24.53				
15	QPSK	1	74	24.57	24.51	24.63	24.50	24.51				
15	QPSK	36	0	23.67	23.66	23.84	23.73	23.72				
15	QPSK	36	20	23.48	23.56	23.56	23.58	23.51	24.5	1		
15	QPSK	36	39	23.45	23.61	23.55	23.45	23.47				
15	QPSK	75	0	23.64	23.72	23.84	23.76	23.75				
15	16QAM	1	0	23.65	23.52	23.71	23.74	23.82				
15	16QAM	1	37	23.48	23.53	23.44	23.47	23.52	24.5	1		
15	16QAM	1	74	23.44	23.60	23.60	23.49	23.58				
15	16QAM	36	0	22.89	22.59	22.73	22.80	22.71				
15	16QAM	36	20	22.53	22.55	22.44	22.57	22.54	23.5	2		
15	16QAM	36	39	22.45	22.62	22.47	22.56	22.54				
15	16QAM	75	0	22.66	22.60	22.66	22.81	22.77				
15	64QAM	1	0	22.30	22.25	22.53	22.30	22.40				
15	64QAM	1	37	22.27	22.27	22.40	22.38	22.40	23.5	2		
15	64QAM	1	74	22.36	22.35	22.35	22.46	22.34				
15	64QAM	36	0	21.63	21.58	21.76	21.69	21.84				
15	64QAM	36	20	21.63	21.65	21.86	21.71	21.68	22.5	3		
15	64QAM	36	39	21.80	21.69	21.67	21.60	21.71				
15	64QAM	75	0	21.57	21.56	21.79	21.71	21.71				
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	24.65	24.66	24.86	24.67	24.70	25.5	0		
10	QPSK	1	25	24.65	24.71	24.65	24.58	24.53				
10	QPSK	1	49	24.50	24.54	24.60	24.53	24.51				
10	QPSK	25	0	23.88	23.57	23.78	23.71	23.69				
10	QPSK	25	12	23.48	23.55	23.66	23.51	23.54	24.5	1		
10	QPSK	25	25	23.55	23.52	23.53	23.50	23.52				
10	QPSK	50	0	23.70	23.71	23.82	23.75	23.76				
10	16QAM	1	0	23.88	23.56	23.66	23.77	23.79	24.5	1		
10	16QAM	1	25	23.48	23.47	23.48	23.45	23.49				
10	16QAM	1	49	23.42	23.62	23.60	23.46	23.60				
10	16QAM	25	0	22.70	22.56	22.75	22.78	22.78				
10	16QAM	25	12	22.53	22.55	22.50	22.56	22.53	23.5	2		
10	16QAM	25	25	22.53	22.57	22.51	22.54	22.56				
10	16QAM	50	0	22.64	22.65	22.59	22.77	22.74				
10	64QAM	1	0	22.32	22.21	22.53	22.34	22.44				
10	64QAM	1	25	22.25	22.28	22.33	22.38	22.40	23.5	2		
10	64QAM	1	49	22.37	22.37	22.40	22.42	22.42				
10	64QAM	25	0	21.65	21.55	21.80	21.77	21.80				
10	64QAM	25	12	21.64	21.76	21.63	21.69	21.65	22.5	3		
10	64QAM	25	25	21.63	21.67	21.62	21.61	21.67				
10	64QAM	50	0	21.64	21.59	21.71	21.67	21.72				
Channel				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2545.5	2593	2640.30	2687.5				
5	QPSK	1	0	24.66	24.74	24.81	24.78	24.71	25.5	0		
5	QPSK	1	12	24.56	24.71	24.72	24.55	24.54				
5	QPSK	1	24	24.56	24.49	24.58	24.49	24.52				
5	QPSK	12	0	23.64	23.63	23.80	23.77	23.72				
5	QPSK	12	7	23.47	23.57	23.62	23.54	23.48	24.5	1		
5	QPSK	12	13	23.50	23.53	23.55	23.47	23.51				
5	QPSK	25	0	23.75	23.67	23.73	23.77	23.77				
5	16QAM	1	0	23.67	23.55	23.72	23.76	23.81				
5	16QAM	1	12	23.43	23.48	23.44	23.45	23.53	24.5	1		
5	16QAM	1	24	23.51	23.58	23.58	23.49	23.56				
5	16QAM	12	0	22.73	22.50	22.70	22.74	22.73				
5	16QAM	12	7	22.54	22.55	22.53	22.52	22.48				
5	16QAM	12	13	22.54	22.51	22.51	22.52	22.49	23.5	2		
5	16QAM	25	0	22.73	22.59	22.60	22.83	22.84				
5	64QAM	1	0	22.28	22.18	22.45	22.34	22.49				
5	64QAM	1	12	22.35	22.32	22.44	22.35	22.42	23.5	2		
5	64QAM	1	24	22.42	22.45	22.43	22.40	22.43				
5	64QAM	12	0	21.63	21.53	21.77	21.69	21.81				
5	64QAM	12	7	21.64	21.66	21.72	21.60	21.71	22.5	3		
5	64QAM	12	13	21.64	21.65	21.65	21.57	21.70				
5	64QAM	25	0	21.67	21.57	21.73	21.61	21.75				

Band 41_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	24.01	23.86	24.03	23.91	23.96	25	0		
20	QPSK	1	49	23.97	23.78	24.03	23.81	23.93				
20	QPSK	1	99	23.80	23.77	23.83	23.79	23.68				
20	QPSK	50	0	22.91	22.79	22.94	22.74	22.84				
20	QPSK	50	24	22.85	22.75	22.92	22.92	22.71	24	1		
20	QPSK	50	50	22.78	22.69	22.83	22.73	22.75				
20	QPSK	100	0	22.84	22.78	22.90	22.85	22.81				
20	16QAM	1	0	22.87	22.66	22.83	22.61	22.80				
20	16QAM	1	49	22.70	22.68	22.72	22.65	22.70	24	1		
20	16QAM	1	99	22.78	22.81	22.77	22.81	22.83				
20	16QAM	50	0	21								



Band 41_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.36	24.80	24.62	24.56	24.59	25.7	0
20	QPSK	1	49	24.39	24.35	24.45	24.36	24.40		
20	QPSK	1	99	24.52	24.44	24.56	24.45	24.50	24.7	1
20	QPSK	50	0	23.60	23.61	23.69	23.63	23.67		
20	QPSK	50	24	23.52	23.59	23.64	23.52	23.53	24.7	1
20	QPSK	50	50	23.43	23.45	23.58	23.44	23.47		
20	QPSK	100	0	23.52	23.55	23.65	23.61	23.52	24.7	1
20	16QAM	1	0	23.61	23.63	23.61	23.62	23.64		
20	16QAM	1	49	23.46	23.51	23.50	23.46	23.41	23.7	2
20	16QAM	1	99	23.47	23.44	23.41	23.42	23.39		
20	16QAM	50	0	22.60	22.61	22.62	22.72	22.68	23.7	2
20	16QAM	50	24	22.49	22.51	22.53	22.48	22.46		
20	16QAM	50	50	22.49	22.44	22.46	22.50	22.44	23.7	2
20	16QAM	100	0	22.59	22.61	22.57	22.65	22.73		
20	64QAM	1	0	22.22	22.24	22.35	22.24	22.30	23.7	2
20	64QAM	1	49	22.20	22.19	22.23	22.22	22.21		
20	64QAM	1	99	22.20	22.20	22.17	22.16	22.19	22.7	3
20	64QAM	50	0	21.56	21.57	21.60	21.63	21.65		
20	64QAM	50	24	21.42	21.44	21.45	21.46	21.52	22.7	3
20	64QAM	50	50	21.43	21.44	21.43	21.41	21.35		
20	64QAM	100	0	21.54	21.57	21.55	21.63	21.71		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.51	24.48	24.48	24.42	24.51	25.7	0
15	QPSK	1	37	24.28	24.27	24.39	24.24	24.35		
15	QPSK	1	74	24.46	24.30	24.49	24.35	24.39	24.7	1
15	QPSK	36	0	23.51	23.47	23.57	23.48	23.59		
15	QPSK	36	20	23.45	23.53	23.58	23.48	23.40	24.7	1
15	QPSK	36	39	23.36	23.34	23.44	23.36	23.39		
15	QPSK	75	0	23.48	23.43	23.58	23.51	23.40	24.7	1
15	16QAM	1	0	23.53	23.52	23.56	23.47	23.54		
15	16QAM	1	37	23.42	23.45	23.46	23.35	23.37	23.7	2
15	16QAM	1	74	23.42	23.40	23.35	23.33	23.28		
15	16QAM	36	0	22.49	22.49	22.58	22.67	22.58	23.7	2
15	16QAM	36	20	22.45	22.46	22.50	22.38	22.40		
15	16QAM	36	39	22.37	22.37	22.37	22.47	22.34	23.7	2
15	16QAM	75	0	22.44	22.48	22.42	22.60	22.66		
15	64QAM	1	0	22.12	22.18	22.27	22.10	22.16	23.7	2
15	64QAM	1	37	22.14	22.11	22.13	22.13	22.08		
15	64QAM	1	74	22.13	22.13	22.11	22.05	22.05	22.7	3
15	64QAM	36	0	21.51	21.53	21.51	21.54	21.62		
15	64QAM	36	20	21.38	21.37	21.30	21.40	21.42	22.7	3
15	64QAM	36	39	21.36	21.36	21.33	21.30	21.24		
15	64QAM	75	0	21.40	21.47	21.42	21.51	21.62		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.52	24.55	24.58	24.52	24.45	25.7	0
10	QPSK	1	25	24.26	24.23	24.34	24.26	24.32		
10	QPSK	1	49	24.42	24.30	24.45	24.34	24.38	24.7	1
10	QPSK	25	0	23.47	23.52	23.60	23.50	23.59		
10	QPSK	25	12	23.41	23.48	23.52	23.38	23.39	24.7	1
10	QPSK	25	25	23.33	23.33	23.54	23.37	23.40		
10	QPSK	50	0	23.41	23.45	23.55	23.58	23.47	24.7	1
10	16QAM	1	0	23.30	23.50	23.51	23.52	23.60		
10	16QAM	1	25	23.33	23.40	23.44	23.44	23.35	23.7	2
10	16QAM	1	49	23.40	23.31	23.36	23.27	23.30		
10	16QAM	25	0	22.55	22.56	22.54	22.59	22.60	23.7	2
10	16QAM	25	12	22.43	22.40	22.49	22.39	22.40		
10	16QAM	25	25	22.41	22.40	22.33	22.38	22.40	23.7	2
10	16QAM	50	0	22.45	22.57	22.45	22.58	22.59		
10	64QAM	1	0	22.17	22.15	22.21	22.18	22.27	23.7	2
10	64QAM	1	25	22.10	22.14	22.18	22.18	22.18		
10	64QAM	1	49	22.06	22.10	22.07	22.12	22.10	22.7	3
10	64QAM	25	0	21.41	21.43	21.48	21.63	21.53		
10	64QAM	25	12	21.38	21.39	21.34	21.32	21.39	22.7	3
10	64QAM	25	25	21.39	21.37	21.30	21.37	21.21		
10	64QAM	50	0	21.51	21.45	21.41	21.49	21.54		
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
5	QPSK	1	0	24.48	24.49	24.59	24.41	24.51	25.7	0
5	QPSK	1	12	24.30	24.26	24.37	24.22	24.34		
5	QPSK	1	24	24.48	24.34	24.53	24.39	24.46	24.7	1
5	QPSK	12	0	23.54	23.47	23.64	23.54	23.59		
5	QPSK	12	7	23.48	23.58	23.53	23.41	23.43	24.7	1
5	QPSK	12	13	23.35	23.39	23.44	23.31	23.40		
5	QPSK	25	0	23.47	23.46	23.58	23.47	23.46	24.7	1
5	16QAM	1	0	23.49	23.53	23.47	23.50	23.55		
5	16QAM	1	12	23.42	23.43	23.43	23.40	23.38	23.7	2
5	16QAM	1	24	23.33	23.30	23.30	23.29	23.26		
5	16QAM	12	0	22.56	22.52	22.49	22.59	22.61	23.7	2
5	16QAM	12	7	22.45	22.39	22.48	22.44	22.41		
5	16QAM	12	13	22.44	22.31	22.43	22.39	22.30	23.7	2
5	16QAM	25	0	22.49	22.52	22.43	22.54	22.67		
5	64QAM	1	0	22.14	22.18	22.26	22.14	22.26	23.7	2
5	64QAM	1	12	22.10	22.10	22.09	22.13	22.12		
5	64QAM	1	24	22.11	22.09	22.07	22.06	22.09	22.7	3
5	64QAM	12	0	21.42	21.53	21.47	21.50	21.56		
5	64QAM	12	7	21.37	21.37	21.34	21.37	21.39	22.7	3
5	64QAM	12	13	21.31	21.38	21.37	21.31	21.24		
5	64QAM	25	0	21.42	21.48	21.49	21.48	21.63		

Band 41_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.49	23.31	23.33	23.38	23.50	24.5	0
20	QPSK	1	49	23.30	23.31	23.41	23.37	23.28		
20	QPSK	1	99	23.31	23.31	23.31	23.36	23.21	23.5	1
20	QPSK	50	0	22.42	22.35	22.53	22.45	22.49		
20	QPSK	50	24	22.38	22.34	22.46	22.46	22.32	23.5	1
20	QPSK	50	50	22.32	22.27	22.39	22.32	22.33		
20	QPSK	100	0	22.36	22.36	22.49	22.40	22.42	23.5	1
20	16QAM	1	0	22.53	22.30	22.55	22.39	22.51		
20	16QAM	1	49	22.38	22.42	22.37	22.42	22.39	23.5	1
20	16QAM	1	99	22.45	22.42	22.46	22.45	22.43		
20	16QAM	50	0	21.48	21.35	21.54	21.47	21.48	22.5	2
20	16QAM	50	24	21.43	21.38	21.36	21.43	21.42		
20	16QAM	50	50	21.35	21.37	21.39	21.30	21.32	22.5	2
20	16QAM	100	0	21.46	21.30	21.52	21.40	21.54		
20	64QAM	1	0	21.22	21.07	21.29	21.14	21.32	22.5	2
20	64QAM	1	49	21.16	21.12	21.10	21.08	21.11		
20	64QAM	1	99	21.21	21.22	21.20	21.21	21.23	21.5	3
20	64QAM	50	0	20.41	20.30	20.52	20.46	20.46		
20	64QAM	50	24	20.44	20.43	20.37	20.41	20.38	21.5	3
20	64QAM	50	50	20.29	20.30	20.34	20.34	20.27		
20	64QAM	100	0	20.4						



DS10

GSM1600_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	180	251		128	180	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slot	32.70	32.74	32.72	33.50	23.70	23.74	23.72	24.50
GPRS 1 Tx slot	32.66	32.68	32.69	33.50	23.66	23.68	23.69	24.50
GPRS 2 Tx slots	30.19	30.14	30.22	30.50	24.19	24.14	24.22	24.50
GPRS 3 Tx slots	28.35	28.33	28.36	28.70	24.09	24.07	24.10	24.44
GPRS 4 Tx slots	26.93	26.96	26.92	27.50	23.93	23.96	23.92	24.50
EDGE 1 Tx slot	26.61	26.66	26.61	27.50	17.61	17.66	17.61	18.50
EDGE 2 Tx slots	23.65	23.67	23.64	24.50	17.65	17.67	17.64	18.50
EDGE 3 Tx slots	21.75	21.78	21.71	22.70	17.47	17.52	17.45	18.44
EDGE 4 Tx slots	20.94	20.97	20.86	21.50	17.94	17.97	17.86	18.50

GSM1600_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	180	251		128	180	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slot	32.58	32.43	32.37	33.50	23.58	23.43	23.37	24.50
GPRS 1 Tx slot	32.56	32.41	32.34	33.50	23.56	23.41	23.34	24.50
GPRS 2 Tx slots	29.92	29.77	29.76	30.50	23.92	23.77	23.76	24.50
GPRS 3 Tx slots	28.07	27.96	27.93	28.70	23.81	23.70	23.67	24.44
GPRS 4 Tx slots	26.71	26.73	26.58	27.50	23.71	23.73	23.58	24.50
EDGE 1 Tx slot	26.23	26.31	26.27	27.00	17.23	17.31	17.27	18.00
EDGE 2 Tx slots	23.30	23.36	23.32	24.00	17.30	17.36	17.32	18.00
EDGE 3 Tx slots	21.44	21.42	21.36	22.20	17.18	17.16	17.12	17.94
EDGE 4 Tx slots	20.47	20.56	20.43	21.00	17.47	17.56	17.43	18.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
GSM 1 Tx slot	29.38	29.48	29.46	30.50	20.38	20.46	20.46	21.50
GPRS 1 Tx slot	29.35	29.44	29.42	30.50	20.35	20.44	20.42	21.50
GPRS 2 Tx slots	26.93	27.01	26.99	27.50	20.93	21.01	20.99	21.50
GPRS 3 Tx slots	25.14	25.26	25.22	25.70	20.68	21.00	20.96	21.44
GPRS 4 Tx slots	23.84	23.93	23.89	24.50	20.84	20.93	20.89	21.50
EDGE 1 Tx slot	25.75	25.68	25.66	26.50	16.75	16.68	16.66	17.50
EDGE 2 Tx slots	22.31	22.26	22.28	23.50	16.31	16.28	16.28	17.50
EDGE 3 Tx slots	20.02	19.91	19.97	21.70	15.76	15.65	15.71	17.44
EDGE 4 Tx slots	19.11	19.04	19.06	20.50	16.11	16.04	16.08	17.50

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
GSM 1 Tx slot	29.40	29.56	29.51	30.50	20.40	20.56	20.51	21.50
GPRS 1 Tx slot	29.39	29.52	29.50	30.50	20.39	20.52	20.50	21.50
GPRS 2 Tx slots	26.95	27.05	27.02	27.50	20.95	21.05	21.02	21.50
GPRS 3 Tx slots	25.18	25.30	25.28	25.70	20.92	21.04	21.02	21.44
GPRS 4 Tx slots	23.86	23.97	23.95	24.50	20.86	20.97	20.95	21.50
EDGE 1 Tx slot	26.03	25.91	25.97	26.50	17.03	16.91	16.97	17.50
EDGE 2 Tx slots	22.66	22.38	22.53	23.50	16.66	16.38	16.53	17.50
EDGE 3 Tx slots	20.17	19.95	19.12	21.70	15.91	15.69	15.86	17.44
EDGE 4 Tx slots	19.32	19.24	19.21	20.50	16.32	16.24	16.31	17.50

Band	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA II_Ant 2			Tune-up Limit (dBm)	
	9262	9400	9538		9262	9400	9538		
TX Channel	9662	9800	9938	9662	9800	9938	9662	9800	
Rx Channel	9662	9800	9938	9662	9800	9938	9662	9800	
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6	1852.4	1880	
3GPP Rel 99	AMR 12.2Kbps	23.78	23.82	23.66	24.50	20.50	20.55	20.49	21.50
3GPP Rel 99	RMC 12.2Kbps	23.84	23.89	23.71	24.50	20.54	20.57	20.53	21.50
3GPP Rel 6	HSDPA Subtest-1	22.75	22.93	22.86	23.50	19.37	19.75	19.68	20.50
3GPP Rel 6	HSDPA Subtest-2	22.50	22.88	22.87	23.50	19.73	19.48	19.64	20.50
3GPP Rel 6	HSDPA Subtest-3	22.17	22.33	22.27	23.00	18.92	18.90	18.96	20.00
3GPP Rel 6	HSDPA Subtest-4	23.05	22.47	22.30	23.00	19.05	19.39	19.14	20.00
3GPP Rel 8	DC-HSDPA Subtest-1	23.01	22.89	22.95	23.50	19.61	19.73	19.82	20.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.76	22.96	22.83	23.50	19.53	19.77	19.47	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.37	22.45	22.33	23.00	19.28	19.29	19.12	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.27	22.47	22.30	23.00	19.19	19.35	19.00	20.00
3GPP Rel 6	HSUPA Subtest-1	22.85	22.89	22.84	23.50	19.61	19.59	19.63	20.50
3GPP Rel 6	HSUPA Subtest-2	20.77	21.02	21.00	21.50	17.54	17.90	17.69	18.50
3GPP Rel 6	HSUPA Subtest-3	21.98	21.95	21.82	22.50	18.66	18.82	18.58	19.50
3GPP Rel 6	HSUPA Subtest-4	20.82	20.84	20.91	21.50	17.57	17.70	17.50	18.50
3GPP Rel 6	HSUPA Subtest-5	22.95	23.03	22.89	23.50	19.87	19.95	19.55	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.21	20.55	20.33	21.00	17.03	17.29	17.31	18.00

Band	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 2			Tune-up Limit (dBm)	
	1312	1413	1513		1312	1413	1513		
TX Channel	1537	1638	1738	1537	1638	1738	1537	1638	
Rx Channel	1537	1638	1738	1537	1638	1738	1537	1638	
Frequency (MHz)	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6	1712.4	1732.6	
3GPP Rel 99	AMR 12.2Kbps	24.20	24.28	24.16	25.00	21.09	21.19	21.14	22.50
3GPP Rel 99	RMC 12.2Kbps	24.32	24.36	24.27	25.00	21.11	21.38	21.37	22.50
3GPP Rel 6	HSDPA Subtest-1	23.16	23.36	23.40	24.00	20.43	20.49	20.55	21.50
3GPP Rel 6	HSDPA Subtest-2	23.30	23.25	23.23	24.00	20.51	20.52	20.59	21.50
3GPP Rel 6	HSDPA Subtest-3	22.80	22.66	22.76	23.50	19.97	19.82	19.91	21.00
3GPP Rel 6	HSDPA Subtest-4	22.65	22.95	22.66	23.50	19.94	20.14	19.75	21.00
3GPP Rel 8	DC-HSDPA Subtest-1	23.29	23.26	23.33	24.00	20.55	20.54	20.72	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	23.20	23.43	23.17	24.00	20.28	20.51	20.34	21.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.78	22.94	22.80	23.50	20.19	19.98	19.84	21.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.68	22.82	22.71	23.50	19.71	20.02	19.98	21.00
3GPP Rel 6	HSUPA Subtest-1	23.22	23.30	23.30	24.00	20.42	20.47	20.49	21.50
3GPP Rel 6	HSUPA Subtest-2	21.30	21.40	21.34	22.00	18.43	18.66	18.52	19.50
3GPP Rel 6	HSUPA Subtest-3	22.39	22.39	22.12	23.00	19.47	19.62	19.52	20.50
3GPP Rel 6	HSUPA Subtest-4	21.15	21.26	21.31	22.00	18.29	18.46	18.54	19.50
3GPP Rel 6	HSUPA Subtest-5	23.35	23.41	23.32	24.00	20.43	20.55	20.52	21.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.69	20.85	20.61	21.50	17.90	18.02	17.84	19.00

Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	4132	4182	4233		4132	4182	4233		
TX Channel	4357	4407	4458	4357	4407	4458	4357	4407	
Rx Channel	4357	4407	4458	4357	4407	4458	4357	4407	
Frequency (MHz)	826.4	836.4	846.6	826.4	836.4	846.6	826.4	836.4	
3GPP Rel 99	AMR 12.2Kbps	24.17	24.23	24.11	25.00	23.34	23.40	23.27	24.50
3GPP Rel 99	RMC 12.2Kbps	24.28	24.31	24.25	25.00	23.40	23.42	23.31	24.50
3GPP Rel 6	HSDPA Subtest-1	23.22	23.36	23.39	24.00	22.29	22.38	22.28	23.50
3GPP Rel 6	HSDPA Subtest-2	23.36	23.29	23.28	24.00	22.42	22.36	22.46	23.50
3GPP Rel 6	HSDPA Subtest-3	22.71	22.88	22.74	23.50	21.85	21.88	21.74	23.00
3GPP Rel 6	HSDPA Subtest-4	22.63	22.81	22.59	23.50	21.92	22.10	21.81	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	23.38	23.37	23.30	24.00	22.29	22.46	22.56	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	23.13	23.40	23.25	24.00	22.33	22.52	22.30	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.84	22.92	22.74	23.50	21.93	22.06	21.88	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.70	22.88	22.61	23.50	21.75	21.97	21.80	23.00
3GPP Rel 6	HSUPA Subtest-1	23.26	23.30	23.24	24.00	22.31	22.50	22.43	23.50
3GPP Rel 6	HSUPA Subtest-2	21.08	21.37	21.41	22.00	20.34	20.50	20.55	21.50
3GPP Rel 6	HSUPA Subtest-3	22							



Band 2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	23.02	23.08	23.01			
20	QPSK	1	49	23.03	23.03	23.03	24	0	
20	QPSK	1	99	23.08	23.14	23.00			
20	QPSK	50	0	22.06	22.15	22.10			
20	QPSK	50	24	22.01	22.13	21.98	23	1	
20	QPSK	50	50	22.05	22.12	22.07			
20	QPSK	100	0	22.10	22.16	22.09			
20	16QAM	1	0	22.16	22.27	22.22			
20	16QAM	1	49	22.13	22.23	22.12	23	1	
20	16QAM	1	99	22.02	22.15	22.07			
20	16QAM	50	0	21.07	21.14	21.00			
20	16QAM	50	24	21.08	21.22	21.15	22	2	
20	16QAM	50	50	21.01	21.10	21.02			
20	16QAM	100	0	21.01	21.06	20.96			
20	64QAM	1	0	21.05	21.15	21.10			
20	64QAM	1	49	20.98	21.03	20.97	22	2	
20	64QAM	1	99	21.09	21.17	21.06			
20	64QAM	50	0	20.04	20.12	20.06			
20	64QAM	50	24	20.03	20.07	19.96	21	3	
20	64QAM	50	50	19.98	19.98	19.98			
20	64QAM	100	0	19.97	20.05	19.93			
Channel				18675	18900	18900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	23.05	23.10	22.94			
15	QPSK	1	37	22.84	22.80	22.85	24	0	
15	QPSK	1	74	22.98	22.99	22.93			
15	QPSK	36	0	21.92	22.04	22.00			
15	QPSK	36	39	21.96	22.00	21.93	23	1	
15	QPSK	36	75	0	22.03	22.06	22.03		
15	16QAM	1	0	22.11	22.22	22.17			
15	16QAM	1	37	21.99	22.11	22.00	23	1	
15	16QAM	1	74	21.94	22.02	22.00			
15	16QAM	36	0	20.98	21.06	20.97			
15	16QAM	36	20	21.01	21.11	21.03	22	2	
15	16QAM	36	39	20.88	20.96	20.97			
15	16QAM	75	0	20.87	20.92	20.85			
15	64QAM	1	0	20.97	21.06	21.04	22	2	
15	64QAM	1	37	20.91	20.91	20.97	22	2	
15	64QAM	1	74	20.97	21.01	20.97			
15	64QAM	36	0	19.95	20.09	19.99			
15	64QAM	36	20	19.91	19.94	19.88			
15	64QAM	36	39	19.77	19.88	19.81	21	3	
15	64QAM	75	0	19.88	19.94	19.90			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	22.98	23.05	22.96			
10	QPSK	1	25	22.97	22.96	22.79	24	0	
10	QPSK	1	49	23.03	23.09	22.96			
10	QPSK	25	0	22.02	22.06	21.97			
10	QPSK	25	12	21.97	22.07	21.87	23	1	
10	QPSK	25	25	22.02	21.98	21.99			
10	QPSK	50	0	21.99	22.05	22.01			
10	16QAM	1	0	22.05	22.14	22.18			
10	16QAM	1	25	22.00	22.10	22.08	23	1	
10	16QAM	1	49	21.98	22.08	22.02			
10	16QAM	25	0	21.03	21.08	20.85			
10	16QAM	25	12	20.94	21.13	21.09	22	2	
10	16QAM	25	25	20.93	20.96	20.94			
10	16QAM	50	0	20.91	20.95	20.91			
10	64QAM	1	0	21.01	21.11	21.07			
10	64QAM	1	25	20.90	20.95	20.91	22	2	
10	64QAM	1	49	21.01	21.05	21.01			
10	64QAM	25	0	19.92	20.04	20.01			
10	64QAM	25	12	19.95	20.02	19.91			
10	64QAM	25	25	19.76	19.90	19.86	21	3	
10	64QAM	50	0	19.85	19.98	19.89			
Channel				18525	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	23.07	23.04	22.87			
5	QPSK	1	12	22.95	22.97	22.82	24	0	
5	QPSK	1	24	22.95	23.09	22.93			
5	QPSK	12	0	21.95	22.08	22.06			
5	QPSK	12	7	21.90	22.10	21.89	23	1	
5	QPSK	12	13	21.90	22.07	21.93			
5	QPSK	25	0	21.96	22.06	22.04			
5	16QAM	1	0	22.13	22.22	22.17			
5	16QAM	1	12	22.09	22.10	22.02	23	1	
5	16QAM	1	24	21.91	22.07	21.95			
5	16QAM	12	0	21.02	21.05	20.91			
5	16QAM	12	7	21.00	21.12	21.08	22	2	
5	16QAM	12	13	20.88	21.00	20.92			
5	16QAM	25	0	20.86	20.91	20.86			
5	64QAM	1	0	21.01	21.03	20.99			
5	64QAM	1	12	20.91	20.94	20.89	22	2	
5	64QAM	1	24	21.00	21.08	20.97			
5	64QAM	12	0	19.90	20.03	20.01			
5	64QAM	12	7	19.95	19.99	19.93	21	3	
5	64QAM	12	13	19.77	19.95	19.83			
5	64QAM	25	0	19.85	19.96	19.82			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	23.06	23.08	22.79			
3	QPSK	1	8	22.91	22.96	22.88	24	0	
3	QPSK	1	14	21.90	22.07	22.06			
3	QPSK	8	0	21.92	22.03	21.97			
3	QPSK	8	4	21.86	22.00	21.86	23	1	
3	QPSK	8	7	21.97	22.03	21.97			
3	QPSK	15	0	21.99	22.02	22.01			
3	16QAM	1	0	22.05	22.14	22.16			
3	16QAM	1	8	22.10	22.09	22.04	23	1	
3	16QAM	1	14	21.99	22.09	22.01			
3	16QAM	8	0	20.98	21.05	20.90			
3	16QAM	8	4	20.98	21.19	21.02	22	2	
3	16QAM	8	7	20.90	21.06	20.95			
3	16QAM	15	0	20.89	21.01	20.93			
3	64QAM	1	0	20.91	21.04	20.95			
3	64QAM	1	8	20.93	20.92	20.98	22	2	
3	64QAM	1	14	20.97	21.08	20.91			
3	64QAM	8	0	19.93	20.03	20.01			
3	64QAM	8	4	19.91	19.93	19.87	21	3	
3	64QAM	8	7	19.79	19.91	19.81			
3	64QAM	15	0	19.87	19.94	19.83			
Channel				18507	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	23.05	23.04	22.91			
1.4	QPSK	1	3	22.86	22.90	22.82	24	0	
1.4	QPSK	1	5	22.99	23.01	22.87			
1.4	QPSK	3	0	22.91	23.03	23.00			
1.4	QPSK	3	1	22.95	23.05	22.88			
1.4	QPSK	3	3	22.93	23.03	23.01			
1.4	QPSK	6	0	22.07	22.07	22.03	23	1	
1.4	16QAM	1	0	22.02	22.17	22.18			
1.4	16QAM	1	3	22.02	22.18	22.08			
1.4	16QAM	1	5	21.93	22.09	22.03	23	1	
1.4	16QAM	3	0	21.97	22.04	21.96			
1.4	16QAM	3	1	21.95	22.15	22.08			
1.4	16QAM	3	3	22.05	22.17	22.08			
1.4	16QAM	6	0	20.92	20.96	20.91	22	2	
1.4	64QAM	1	0	21.02	21.08	21.05			
1.4	64QAM	1	3	20.88	20.96	20.85			
1.4	64QAM	1	5	21.00	21.14	20.93	22	2	
1.4	64QAM	3	0	20.94	21.06	21.00			
1.4	64QAM	3	1	20.96	21.03	20.93			
1.4	64QAM	3	3	20.82	20.86	20.83			
1.4	64QAM	6	0	19.85	19.94	19.83	21	3	

Band 2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	13.99	13.90	13.93			
20	QPSK	1	49	13.49	13.49	13.49	14.7	0	
20	QPSK	1	99	13.41	13.50	13.45			
20	QPSK	50	0	13.53	13.59	13.54			
20	QPSK	50	24	13.52	13.56	13.52	14.7	0	
20	QPSK	50	50	13.48	13.54	13.45			
20	QPSK	100	0	13.46	13.54	13.45			
20	16QAM	1	0	13.49	13.55	13.52			
20	16QAM	1	49	13.51	13.58	13.54	14.7	0	
20	16QAM	1	99	13.46	13.57	13.47			
20	16QAM	50	0	13.45	13.56	13.44			
20	16QAM	50	24	13.54	13.58	13.47	14.7	0	
20	16QAM	50	50	13.45	13.57	13.50			
20	16QAM	100	0	13.50	13.55	13.43			
20	64QAM	1	0	13.50	13.54	13.45			
20	64QAM	1	49	13.50	13.56	13.46	14.7	0	
20	64QAM	1	99	13.46	13.53	13.49			
20	64QAM	50	0	13.44	13.50	13.40			
20									



Band 4_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20175	20300			
Frequency (MHz)									
20	QPSK	1	0	16.85	16.85	16.85	18.1	0	
20	QPSK	1	49	16.72	16.84	16.81			
20	QPSK	1	99	16.55	16.64	16.80			
20	QPSK	50	0	16.79	16.80	16.83			
20	QPSK	50	24	16.77	16.85	16.82	18.1	0	
20	QPSK	50	50	16.74	16.83	16.72			
20	QPSK	100	0	16.87	16.78	16.70			
20	16QAM	1	0	16.85	16.85	16.83	18.1	0	
20	16QAM	1	49	16.95	16.99	16.90			
20	16QAM	1	99	16.79	16.91	16.79			
20	16QAM	50	0	16.77	16.89	16.77			
20	16QAM	50	24	16.69	16.80	16.74	18.1	0	
20	16QAM	50	50	16.71	16.82	16.71			
20	16QAM	100	0	16.71	16.78	16.68			
20	64QAM	1	0	16.88	16.91	16.88	18.1	0	
20	64QAM	1	49	16.87	16.92	16.80			
20	64QAM	1	99	16.71	16.77	16.68			
20	64QAM	50	0	16.87	16.90	16.84			
20	64QAM	50	24	16.75	16.83	16.72	18.1	0	
20	64QAM	50	50	16.78	16.81	16.73			
20	64QAM	100	0	16.68	16.79	16.67			
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	0	16.85	16.95	16.87	18.1	0	
15	QPSK	1	37	16.68	16.80	16.71			
15	QPSK	1	74	16.49	16.54	16.56			
15	QPSK	36	0	16.69	16.84	16.76	18.1	0	
15	QPSK	36	20	16.72	16.76	16.74			
15	QPSK	36	39	16.66	16.73	16.64			
15	QPSK	75	0	16.55	16.66	16.59			
15	16QAM	1	0	16.81	16.85	16.74	18.1	0	
15	16QAM	1	37	16.84	16.90	16.84			
15	16QAM	1	74	16.75	16.85	16.74			
15	16QAM	36	0	16.72	16.78	16.68	18.1	0	
15	16QAM	36	20	16.61	16.77	16.65			
15	16QAM	36	39	16.63	16.73	16.60			
15	16QAM	75	0	16.62	16.69	16.60			
15	64QAM	1	0	16.83	16.82	16.82	18.1	0	
15	64QAM	1	37	16.82	16.85	16.69			
15	64QAM	1	74	16.60	16.65	16.65			
15	64QAM	36	0	16.79	16.82	16.72	18.1	0	
15	64QAM	36	20	16.64	16.73	16.65			
15	64QAM	36	39	16.73	16.72	16.66			
15	64QAM	75	0	16.60	16.71	16.56			
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	0	16.85	16.94	16.93	18.1	0	
10	QPSK	1	25	16.67	16.74	16.69			
10	QPSK	1	49	16.47	16.54	16.56			
10	QPSK	25	0	16.72	16.83	16.73	18.1	0	
10	QPSK	25	12	16.66	16.75	16.77			
10	QPSK	25	25	16.65	16.80	16.65			
10	QPSK	50	0	16.57	16.67	16.67	18.1	0	
10	16QAM	1	0	16.79	16.95	16.74	18.1	0	
10	16QAM	1	25	16.68	16.95	16.81			
10	16QAM	1	49	16.69	16.87	16.75			
10	16QAM	25	0	16.66	16.83	16.66	18.1	0	
10	16QAM	25	12	16.59	16.69	16.62			
10	16QAM	25	25	16.65	16.79	16.67			
10	16QAM	50	0	16.67	16.69	16.57	18.1	0	
10	64QAM	1	0	16.73	16.87	16.83	18.1	0	
10	64QAM	1	25	16.81	16.87	16.69			
10	64QAM	1	49	16.68	16.74	16.62			
10	64QAM	25	0	16.78	16.85	16.73	18.1	0	
10	64QAM	25	12	16.67	16.74	16.60			
10	64QAM	25	25	16.69	16.73	16.62			
10	64QAM	50	0	16.55	16.69	16.59			
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	0	16.80	16.93	16.86	18.1	0	
5	QPSK	1	12	16.69	16.72	16.72			
5	QPSK	1	24	16.49	16.61	16.48			
5	QPSK	12	0	16.73	16.85	16.71	18.1	0	
5	QPSK	12	7	16.67	16.78	16.71			
5	QPSK	12	13	16.71	16.77	16.67			
5	QPSK	25	0	16.62	16.73	16.59	18.1	0	
5	16QAM	1	0	16.75	16.87	16.74	18.1	0	
5	16QAM	1	12	16.83	16.95	16.86			
5	16QAM	1	24	16.72	16.80	16.70			
5	16QAM	12	0	16.65	16.84	16.68	18.1	0	
5	16QAM	12	7	16.65	16.75	16.64			
5	16QAM	12	13	16.61	16.70	16.61			
5	16QAM	25	0	16.67	16.74	16.58	18.1	0	
5	64QAM	1	0	16.83	16.87	16.83	18.1	0	
5	64QAM	1	12	16.78	16.85	16.68			
5	64QAM	1	24	16.68	16.69	16.60			
5	64QAM	12	0	16.79	16.84	16.81	18.1	0	
5	64QAM	12	7	16.63	16.79	16.61			
5	64QAM	12	13	16.74	16.71	16.64			
5	64QAM	25	0	16.59	16.70	16.61			
Channel				19955	20175	20385	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
3	QPSK	1	0	16.86	16.90	16.86	18.1	0	
3	QPSK	1	8	16.69	16.77	16.69			
3	QPSK	1	14	16.46	16.52	16.53			
3	QPSK	8	0	16.67	16.84	16.79	18.1	0	
3	QPSK	8	4	16.71	16.81	16.75			
3	QPSK	8	7	16.68	16.72	16.60			
3	QPSK	15	0	16.63	16.67	16.64	18.1	0	
3	16QAM	1	0	16.73	16.86	16.77	18.1	0	
3	16QAM	1	8	16.85	16.91	16.86			
3	16QAM	1	14	16.68	16.86	16.76	18.1	0	
3	16QAM	8	0	16.68	16.83	16.71			
3	16QAM	8	4	16.57	16.69	16.69	18.1	0	
3	16QAM	8	7	16.67	16.76	16.65			
3	16QAM	15	0	16.68	16.68	16.68	18.1	0	
3	64QAM	1	0	16.85	16.79	16.81	18.1	0	
3	64QAM	1	8	16.83	16.87	16.75			
3	64QAM	1	14	16.64	16.65	16.59	18.1	0	
3	64QAM	8	0	16.77	16.78	16.78			
3	64QAM	8	4	16.72	16.71	16.67	18.1	0	
3	64QAM	8	7	16.71	16.72	16.61			
3	64QAM	15	0	16.60	16.76	16.56			
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
1.4	QPSK	1	0	16.86	16.97	16.85	18.1	0	
1.4	QPSK	1	3	16.69	16.73	16.71			
1.4	QPSK	1	5	16.51	16.55	16.52			
1.4	QPSK	3	0	16.72	16.83	16.71	18.1	0	
1.4	QPSK	3	1	16.72	16.80	16.73			
1.4	QPSK	3	3	16.63	16.80	16.67	18.1	0	
1.4	QPSK	6	0	16.60	16.75	16.65			
1.4	16QAM	1	0	16.81	16.87	16.79	18.1	0	
1.4	16QAM	1	3	16.84	16.93	16.87			
1.4	16QAM	1	5	16.68	16.80	16.71	18.1	0	
1.4	16QAM	3	0	16.65	16.78	16.74			
1.4	16QAM	3	1	16.57	16.73	16.67	18.1	0	
1.4	16QAM	3	3	16.65	16.77	16.68			
1.4	16QAM	6	0	16.66	16.70	16.63	18.1	0	
1.4	64QAM	1	0	16.83	16.84	16.78	18.1	0	
1.4	64QAM	1	3	16.76	16.81	16.71			
1.4	64QAM	1	5	16.60	16.69	16.63	18.1	0	
1.4	64QAM	3	0	16.75	16.81	16.77			
1.4	64QAM	3	1	16.64	16.72	16.68	18.1	0	
1.4	64QAM	3	3	16.68	16.73	16.68			
1.4	64QAM	6	0	16.59	16.73	16.56	18.1	0	

Band 4_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20175	20300			
Frequency (MHz)									
20	QPSK	1	0	16.86	16.76	16.67	19.6	0	
20	QPSK	1	49	16.63	16.70	16.60			
20	QPSK	1	99	16.44	16.50	16.43			
20	QPSK	50	0	16.81	16.71	16.61	19.6	0	
20	QPSK	50	24	16.63	16.73	16.65			
20	QPSK	50	50	16.59	16.69	16.62			
20	QPSK	100	0	16.60	16.69	16.60	19.6	0	
20	16QAM	1	0	16.57	16.67	16.59	19.6	0	
20	16QAM	1	49	16.80	16.84	16.57			
20	16QAM	1	99	16.71	16.75	16.67			
20	16QAM	50	0	16.58	16.70	16.58	19.6	0	
20	16QAM	50	24	16.63	16.75	16.64			
20	16QAM	50	50	16.60	16.68	16.64			
20	16QAM	100	0	16.59	16.67	16.56	19.6	0	
20	64QAM	1	0	16.66	16.71	16.65	19.6	0	
20	64QAM	1	49	16.71	16.74	16.65			
20	64QAM	1	99	16.58	16.63	16.56			
20	64QAM	50	0	16.57	16.67	16.58	19.6	0	
20	64QAM	50	24	16.66	16.71	16.68			



Band 4_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				20550	20175	20300				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	23.21	23.29	23.17			24.1	0
20	QPSK	1	49	23.12	23.14	23.11				
20	QPSK	1	99	23.12	23.24	23.13				
20	QPSK	50	0	22.14	22.28	22.24				
20	QPSK	50	24	22.06	22.19	22.12			23.1	1
20	QPSK	50	50	22.10	22.22	22.07				
20	QPSK	100	0	22.23	22.31	22.27				
20	16QAM	1	0	22.32	22.30	22.29				
20	16QAM	1	49	22.15	22.06	22.16			23.1	1
20	16QAM	1	99	22.23	22.22	22.19				
20	16QAM	50	0	21.12	21.17	21.25				
20	16QAM	50	24	20.99	21.02	21.05			22.1	2
20	16QAM	50	50	21.06	21.00	21.02				
20	16QAM	100	0	21.06	21.16	21.23				
20	64QAM	1	0	21.18	21.15	21.12				
20	64QAM	1	49	20.98	20.88	20.92			22.1	2
20	64QAM	1	99	20.94	21.03	20.92				
20	64QAM	50	0	20.21	20.21	20.16				
20	64QAM	50	24	20.15	20.16	20.09			21.1	3
20	64QAM	50	50	20.03	20.01	20.01				
20	64QAM	100	0	20.10	20.15	20.21				
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	23.16	23.17	23.08			24.1	0
15	QPSK	1	37	23.05	23.03	22.88				
15	QPSK	1	74	23.08	23.13	23.03				
15	QPSK	39	0	22.07	22.19	22.13				
15	QPSK	39	29	21.98	22.10	21.93			23.1	1
15	QPSK	75	0	22.20	22.24	22.21				
15	16QAM	1	0	22.27	22.24	22.24				
15	16QAM	1	37	22.00	21.98	22.09			23.1	1
15	16QAM	1	74	22.16	22.09	22.15				
15	16QAM	39	0	21.06	21.06	21.11				
15	16QAM	39	20	20.98	20.91	20.91			22.1	2
15	16QAM	38	39	20.93	20.94	20.95				
15	16QAM	75	0	21.00	21.03	21.12				
15	64QAM	1	0	21.08	21.06	21.08				
15	64QAM	1	37	20.84	20.83	20.80			22.1	2
15	64QAM	1	74	20.80	20.86	20.79				
15	64QAM	39	0	20.07	20.09	20.13				
15	64QAM	39	20	20.05	20.07	20.03			21.1	3
15	64QAM	38	39	19.99	19.96	19.98				
15	64QAM	75	0	19.98	20.07	20.11				
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	23.08	23.14	23.08			24.1	0
10	QPSK	1	25	23.03	23.09	23.09				
10	QPSK	1	49	23.07	23.10	23.03				
10	QPSK	25	0	22.02	22.18	22.12				
10	QPSK	25	12	21.95	22.10	21.98			23.1	1
10	QPSK	25	25	21.98	22.09	21.93				
10	QPSK	50	0	22.17	22.26	22.17				
10	16QAM	1	0	22.28	22.16	22.18			23.1	1
10	16QAM	1	25	21.85	21.85	21.88				
10	16QAM	1	49	22.17	22.16	22.13				
10	16QAM	25	0	20.98	21.07	21.19				
10	16QAM	25	12	20.85	20.93	20.99			22.1	2
10	16QAM	25	25	20.94	20.95	20.88				
10	16QAM	50	0	20.98	21.05	21.17				
10	64QAM	1	0	21.10	21.03	21.00				
10	64QAM	1	25	20.90	20.76	20.85			22.1	2
10	64QAM	1	49	20.80	20.95	20.86				
10	64QAM	25	0	20.18	20.12	20.07				
10	64QAM	25	12	20.05	20.01	20.03			21.1	3
10	64QAM	25	25	19.97	19.92	19.96				
10	64QAM	50	0	20.01	20.02	20.13				
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	23.10	23.16	23.02			24.1	0
5	QPSK	1	12	23.06	23.10	22.88				
5	QPSK	1	24	23.03	23.17	23.05				
5	QPSK	12	0	22.01	22.23	22.15				
5	QPSK	12	7	22.03	22.09	22.02			23.1	1
5	QPSK	12	14	22.04	22.03	21.92				
5	QPSK	25	0	22.11	22.27	22.18				
5	16QAM	1	0	22.21	22.23	22.14				
5	16QAM	1	12	22.09	21.92	22.07			23.1	1
5	16QAM	1	24	22.14	22.10	22.06				
5	16QAM	12	0	21.03	21.12	21.06				
5	16QAM	12	7	20.94	20.95	20.98			22.1	2
5	16QAM	12	13	21.03	20.93	20.97				
5	16QAM	25	0	21.01	21.05	21.18				
5	64QAM	1	0	21.11	21.11	21.01				
5	64QAM	1	12	20.90	20.85	20.80			22.1	2
5	64QAM	1	24	20.91	20.93	20.86				
5	64QAM	12	0	20.13	20.13	20.06				
5	64QAM	12	7	20.12	20.08	19.99			21.1	3
5	64QAM	12	13	19.99	19.90	19.95				
5	64QAM	25	0	20.01	20.02	20.14				
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1711.5	1732.5	1753.5				
3	QPSK	1	0	23.13	23.21	23.05			24.1	0
3	QPSK	1	8	23.01	23.08	22.91				
3	QPSK	1	16	23.09	23.21	23.11				
3	QPSK	8	0	22.03	22.17	22.10				
3	QPSK	8	4	21.97	22.15	21.98			23.1	1
3	QPSK	8	7	22.04	22.16	21.97				
3	QPSK	15	0	22.09	22.20	22.23				
3	16QAM	1	0	22.26	22.16	22.25				
3	16QAM	1	8	22.08	21.93	22.03			23.1	1
3	16QAM	1	14	22.10	22.18	22.10				
3	16QAM	8	0	21.08	21.02	21.15				
3	16QAM	8	4	20.88	20.98	21.01			22.1	2
3	16QAM	8	7	20.93	20.90	20.99				
3	16QAM	15	0	20.93	21.01	21.12				
3	64QAM	1	0	21.08	21.04	21.00				
3	64QAM	1	4	20.93	20.81	20.79			22.1	2
3	64QAM	1	14	20.81	20.89	20.87				
3	64QAM	8	0	20.13	20.09	20.02				
3	64QAM	8	4	20.02	20.04	19.94			21.1	3
3	64QAM	8	7	19.97	19.87	19.95				
3	64QAM	15	0	19.96	20.00	20.13				
Channel				19957	20115	20393	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	23.13	23.17	23.06			24.1	0
1.4	QPSK	1	3	23.00	23.07	22.91				
1.4	QPSK	1	5	23.02	23.13	23.09				
1.4	QPSK	3	0	23.06	23.21	23.15				
1.4	QPSK	3	1	22.99	23.10	22.99				
1.4	QPSK	3	3	23.02	23.07	22.95			23.1	1
1.4	QPSK	6	0	22.09	22.25	22.13				
1.4	16QAM	1	0	22.26	22.18	22.17				
1.4	16QAM	1	3	22.05	21.94	22.11				
1.4	16QAM	1	5	22.11	22.11	22.06			23.1	1
1.4	16QAM	3	0	22.08	22.04	22.21				
1.4	16QAM	3	1	21.90	21.92	21.84				
1.4	16QAM	3	2	21.98	21.94	21.98				
1.4	16QAM	6	0	20.94	21.10	21.11			22.1	2
1.4	64QAM	1	0	21.11	21.10	20.99				
1.4	64QAM	1	3	20.94	20.80	20.80				
1.4	64QAM	1	5	20.87	20.96	20.80			22.1	2
1.4	64QAM	3	0	21.14	21.16	21.06				
1.4	64QAM	3	1	21.08	21.08	21.03				
1.4	64QAM	3	3	20.94	20.97	21.00				
1.4	64QAM	6	0	20.00	20.01	20.08			21.1	3

Band 5_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	24.35	24.44	24.41			25.5	0
10	QPSK	1	25	24.37	24.42	24.34				
10	QPSK	1	49	24.24	24.36	24.32				
10	QPSK	25	0	23.30	23.39	23.35				
10	QPSK	25	12	23.27	23.32	23.21			24.5	1
10	QPSK	25	25	23.18	23.30	23.20				
10	QPSK	50	0	23.22	23.32	23.22				
10	16QAM	1	0	23.43	23.52	23.48				
10	16QAM	1	25	23.31	23.38	23.34			24.5	1
10	16QAM	1	49	23.33	23.22					



Band 7_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	24.72	24.87	24.81	25.5	0		
20	QPSK	1	49	24.68	24.76	24.61				
20	QPSK	1	99	24.63	24.73	24.63	24.5	1		
20	QPSK	50	0	23.80	23.92	23.85				
20	QPSK	50	24	23.74	23.81	23.72	23.5	2		
20	QPSK	50	50	23.74	23.86	23.72				
20	QPSK	100	0	23.69	23.77	23.69	24.5	1		
20	16QAM	1	0	23.75	23.90	23.87				
20	16QAM	1	49	23.65	23.83	23.76	23.5	2		
20	16QAM	1	99	23.69	23.84	23.76				
20	16QAM	50	0	22.83	22.89	22.76	22.5	3		
20	16QAM	50	24	22.64	22.74	22.64				
20	16QAM	50	50	22.72	22.86	22.63				
20	16QAM	100	0	22.70	22.73	22.64	23.5	2		
20	64QAM	1	0	22.72	22.81	22.75				
20	64QAM	1	49	22.60	22.64	22.64	22.5	2		
20	64QAM	1	99	22.57	22.75	22.69				
20	64QAM	50	0	21.74	21.86	21.84	22.5	3		
20	64QAM	50	24	21.57	21.77	21.89				
20	64QAM	50	50	21.60	21.80	21.77				
20	64QAM	100	0	21.55	21.76	21.61	25.5	0		
Channel				20825	21100	21375			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	24.64	24.80	24.73	25.5	0		
15	QPSK	1	37	24.63	24.61	24.50				
15	QPSK	1	74	24.56	24.65	24.50	24.5	1		
15	QPSK	36	0	23.69	23.77	23.71				
15	QPSK	36	20	23.64	23.67	23.61	24.5	1		
15	QPSK	36	39	23.66	23.76	23.63				
15	QPSK	75	0	23.66	23.69	23.62	24.5	1		
15	16QAM	1	0	23.62	23.78	23.75				
15	16QAM	1	37	23.55	23.77	23.82	23.5	2		
15	16QAM	1	74	23.61	23.76	23.72				
15	16QAM	36	0	22.76	22.81	22.50	23.5	2		
15	16QAM	36	20	22.58	22.69	22.50				
15	16QAM	36	39	22.64	22.76	22.53	23.5	2		
15	16QAM	75	0	22.58	22.68	22.57				
15	64QAM	1	0	22.61	22.89	22.69	23.5	2		
15	64QAM	1	37	22.53	22.54	22.58				
15	64QAM	36	0	21.70	21.78	21.77	22.5	3		
15	64QAM	36	20	21.50	21.69	21.60				
15	64QAM	36	39	21.49	21.73	21.70				
15	64QAM	75	0	21.43	21.63	21.55	25.5	0		
Channel				20800	21100	21400			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	24.69	24.74	24.71	25.5	0		
10	QPSK	1	25	24.57	24.72	24.50				
10	QPSK	1	49	24.56	24.67	24.52	24.5	1		
10	QPSK	25	0	23.76	23.88	23.79				
10	QPSK	25	12	23.66	23.70	23.69	24.5	1		
10	QPSK	25	25	23.60	23.76	23.65				
10	QPSK	50	0	23.59	23.65	23.61	24.5	1		
10	16QAM	1	0	23.64	23.76	23.73				
10	16QAM	1	25	23.61	23.69	23.65	23.5	2		
10	16QAM	1	49	23.60	23.73	23.63				
10	16QAM	25	0	22.78	22.82	22.72	23.5	2		
10	16QAM	25	12	22.51	22.84	22.58				
10	16QAM	25	25	22.62	22.76	22.54	23.5	2		
10	16QAM	50	0	22.63	22.68	22.56				
10	64QAM	1	0	22.66	22.75	22.64	22.5	3		
10	64QAM	1	25	22.51	22.80	22.50				
10	64QAM	1	49	22.47	22.65	22.59				
10	64QAM	25	0	21.82	21.75	21.79	22.5	3		
10	64QAM	25	12	21.47	21.67	21.59				
10	64QAM	25	25	21.55	21.65	21.73				
10	64QAM	50	0	21.41	21.54	21.55	25.5	0		
Channel				20775	21100	21425			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	24.58	24.79	24.69	25.5	0		
5	QPSK	1	12	24.58	24.72	24.56				
5	QPSK	1	24	24.51	24.67	24.59	24.5	1		
5	QPSK	12	0	23.73	23.82	23.75				
5	QPSK	12	7	23.67	23.67	23.65	24.5	1		
5	QPSK	12	13	23.70	23.71	23.66				
5	QPSK	25	0	23.60	23.66	23.57	24.5	1		
5	16QAM	1	0	23.64	23.82	23.78				
5	16QAM	1	12	23.52	23.76	23.71	23.5	2		
5	16QAM	1	24	23.63	23.73	23.61				
5	16QAM	12	0	22.78	22.80	22.85	23.5	2		
5	16QAM	12	7	22.60	22.64	22.53				
5	16QAM	12	13	22.67	22.71	22.58	23.5	2		
5	16QAM	25	0	22.58	22.66	22.60				
5	64QAM	1	0	22.62	22.71	22.68	23.5	2		
5	64QAM	1	12	22.47	22.52	22.60				
5	64QAM	1	24	22.45	22.70	22.54	22.5	3		
5	64QAM	12	0	21.61	21.72	21.77				
5	64QAM	12	7	21.54	21.64	21.58				
5	64QAM	12	13	21.53	21.66	21.69	22.5	3		
5	64QAM	25	0	21.48	21.63	21.50				

Band 7_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	17.01	17.08	17.01	17.7	0		
20	QPSK	1	49	16.87	16.94	16.82				
20	QPSK	1	99	16.74	16.86	16.82	17.7	0		
20	QPSK	50	0	16.97	17.04	16.98				
20	QPSK	50	24	16.90	17.01	16.93	17.7	0		
20	QPSK	50	50	16.91	17.02	16.93				
20	QPSK	100	0	16.87	16.97	16.82	17.7	0		
20	16QAM	1	0	16.98	17.00	16.97				
20	16QAM	1	49	16.94	17.01	16.97	17.7	0		
20	16QAM	1	99	16.99	17.05	16.98				
20	16QAM	50	0	16.92	17.01	16.92	17.7	0		
20	16QAM	50	24	16.94	17.05	16.99				
20	16QAM	50	50	17.03	17.07	17.00	17.7	0		
20	16QAM	100	0	16.95	16.99	16.92				
20	64QAM	1	0	17.00	17.06	16.96	17.7	0		
20	64QAM	1	49	16.96	17.03	16.98				
20	64QAM	1	99	16.99	17.07	16.97	17.7	0		
20	64QAM	50	0	16.96	17.05	16.93				
20	64QAM	50	24	16.94	16.99	16.96	17.7	0		
20	64QAM	50	50	16.94	17.04	16.97				
20	64QAM	100	0	16.89	16.99	16.90	25.5	0		
Channel				20825	21100	21375			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	16.89	17.00	16.97	17.7	0		
15	QPSK	1	37	16.79	16.87	16.70				
15	QPSK	1	74	16.62	16.76	16.78	17.7	0		
15	QPSK	36	0	16.87	17.00	16.91				
15	QPSK	36	20	16.81	16.92	16.81	17.7	0		
15	QPSK	36	39	16.84	16.93	16.82				
15	QPSK	75	0	16.81	16.89	16.80	17.7	0		
15	16QAM	1	0	16.87	16.92	16.87				
15	16QAM	1	37	16.84	16.89	16.91	17.7	0		
15	16QAM	1	74	16.89	16.94	16.92				
15	16QAM	36	0	16.82	16.95	16.84	17.7	0		
15	16QAM	36	20	16.86	16.95	16.96				
15	16QAM	36	39	16.91	17.03	16.90	17.7	0		
15	16QAM	75	0	16.86	16.92	16.81				
15	64QAM	1	0	16.92	17.00	16.90	17.7	0		
15	64QAM	1	37	16.90	16.96	16.87				
15	64QAM	1	74	16.98	16.95	16.98	17			



Band 7_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2050	2100	2150				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	23.10	23.25	23.40	24.1	0		
20	QPSK	1	49	23.07	23.14	23.06				
20	QPSK	1	99	23.00	23.07	22.98				
20	QPSK	50	0	22.27	22.32	22.18				
20	QPSK	50	24	22.11	22.16	22.03	23.1	1		
20	QPSK	50	50	22.19	22.24	22.15				
20	QPSK	100	0	22.08	22.21	22.11				
20	16QAM	1	0	22.14	22.23	22.06				
20	16QAM	1	49	21.98	22.00	22.05	23.1	1		
20	16QAM	1	99	22.11	22.12	22.17				
20	16QAM	50	0	21.18	21.22	21.24				
20	16QAM	50	24	21.03	21.04	21.00	22.1	2		
20	16QAM	50	50	21.03	21.00	20.99				
20	16QAM	100	0	20.08	20.03	20.13				
20	64QAM	1	0	21.03	21.12	21.15				
20	64QAM	1	49	20.92	20.95	20.96	22.1	2		
20	64QAM	1	99	20.99	21.00	20.97				
20	64QAM	50	0	20.16	20.21	20.29				
20	64QAM	50	24	20.10	20.08	20.11	21.1	3		
20	64QAM	50	50	20.08	20.03	20.13				
20	64QAM	100	0	20.20	20.08	20.14				
Channel				20525	21100	21375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				25075	2535	2562.5				
15	QPSK	1	0	23.00	23.13	23.11	24.1	0		
15	QPSK	1	37	22.99	23.02	22.97				
15	QPSK	1	74	22.93	23.03	22.84				
15	QPSK	38	0	22.14	22.26	22.08	23.1	1		
15	QPSK	38	39	22.03	22.04	21.89				
15	QPSK	38	39	22.16	22.18	22.05				
15	QPSK	75	0	21.95	22.18	22.06				
15	16QAM	1	0	22.06	22.16	22.02				
15	16QAM	1	37	21.86	21.94	22.00	23.1	1		
15	16QAM	1	74	21.96	22.05	22.05				
15	16QAM	38	0	21.13	21.14	21.15				
15	16QAM	38	20	20.88	20.95	20.88	22.1	2		
15	16QAM	38	39	20.93	20.87	20.93				
15	16QAM	75	0	21.05	21.06	20.90				
15	64QAM	1	0	20.98	21.04	21.04				
15	64QAM	1	37	20.86	20.82	20.89	22.1	2		
15	64QAM	1	74	20.87	20.95	20.88				
15	64QAM	38	0	20.05	20.16	20.24				
15	64QAM	38	20	20.00	19.95	20.00	21.1	3		
15	64QAM	38	39	19.95	19.97	20.03				
15	64QAM	75	0	20.09	20.01	20.07				
Channel				20600	21100	21400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	22.96	23.16	23.20	24.1	0		
10	QPSK	1	25	22.99	23.05	22.97				
10	QPSK	1	49	22.92	23.01	22.83				
10	QPSK	25	0	22.14	22.28	22.05	23.1	1		
10	QPSK	25	12	22.02	22.08	21.99				
10	QPSK	25	25	22.15	22.09	22.06				
10	QPSK	50	0	21.93	22.09	21.99	23.1	1		
10	16QAM	1	0	22.10	22.09	21.93				
10	16QAM	1	25	21.89	21.85	22.02				
10	16QAM	1	49	22.04	21.99	22.13				
10	16QAM	25	0	21.14	21.17	21.10	22.1	2		
10	16QAM	25	12	20.89	20.95	20.93				
10	16QAM	25	25	20.94	20.96	20.90				
10	16QAM	50	0	21.12	21.05	20.97				
10	64QAM	1	0	20.93	21.00	21.10	22.1	2		
10	64QAM	1	25	20.86	20.82	20.92				
10	64QAM	1	49	20.91	20.93	20.91				
10	64QAM	25	0	20.06	20.07	20.20	21.1	3		
10	64QAM	25	12	20.03	19.98	19.98				
10	64QAM	25	25	20.01	19.94	20.10				
10	64QAM	50	0	20.05	19.98	20.05				
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				25275	2535	2567.5				
5	QPSK	1	0	23.04	23.11	23.12	24.1	0		
5	QPSK	1	12	22.98	23.04	22.93				
5	QPSK	1	24	22.89	22.94	22.92				
5	QPSK	12	0	22.18	22.26	22.04	23.1	1		
5	QPSK	12	7	22.01	22.09	22.00				
5	QPSK	12	13	22.08	22.14	22.07				
5	QPSK	25	0	22.01	22.09	21.99				
5	16QAM	1	0	22.06	22.08	21.98	23.1	1		
5	16QAM	1	12	21.93	21.93	21.94				
5	16QAM	1	24	21.97	22.08	22.07				
5	16QAM	12	0	21.13	21.17	21.14				
5	16QAM	12	7	20.99	21.01	20.88	22.1	2		
5	16QAM	12	13	20.94	20.91	20.86				
5	16QAM	25	0	21.14	21.04	20.94				
5	64QAM	1	0	20.91	20.98	21.12	22.1	2		
5	64QAM	1	12	20.81	20.91	20.91				
5	64QAM	1	24	20.86	20.87	20.93				
5	64QAM	12	0	20.05	20.10	20.25				
5	64QAM	12	7	20.03	20.02	20.05	21.1	3		
5	64QAM	12	13	20.03	19.93	20.03				
5	64QAM	25	0	20.07	20.04	20.11				

Band 12_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.26	24.65	24.58	25.5	0		
10	QPSK	1	25	24.46	24.60	24.49				
10	QPSK	1	49	24.52	24.57	24.47				
10	QPSK	25	0	23.55	23.70	23.62	24.5	1		
10	QPSK	25	12	23.41	23.56	23.43				
10	QPSK	25	25	23.51	23.63	23.55				
10	QPSK	50	0	23.56	23.68	23.56				
10	16QAM	1	0	23.58	23.69	23.64	24.5	1		
10	16QAM	1	25	23.49	23.47	23.46				
10	16QAM	1	49	23.50	23.54	23.57				
10	16QAM	25	0	22.49	22.63	22.57	23.5	2		
10	16QAM	25	12	22.50	22.48	22.50				
10	16QAM	25	25	22.47	22.47	22.50				
10	16QAM	50	0	21.46	21.49	21.48	22.5	3		
10	64QAM	1	0	22.63	22.67	22.73				
10	64QAM	1	25	22.55	22.57	22.55				
10	64QAM	1	49	22.47	22.49	22.40				
10	64QAM	25	0	21.51	21.64	21.56	22.5	3		
10	64QAM	25	12	21.39	21.45	21.50				
10	64QAM	25	25	21.46	21.49	21.48				
10	64QAM	50	0	21.53	21.57	21.49				
Channel				23035	23095	23165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	24.49	24.48	24.43	25.5	0		
5	QPSK	1	12	24.34	24.52	24.41				
5	QPSK	1	24	24.47	24.46	24.44				
5	QPSK	12	0	23.50	23.65	23.55	24.5	1		
5	QPSK	12	7	23.37	23.46	23.29				
5	QPSK	12	13	23.44	23.60	23.41				
5	QPSK	25	0	23.53	23.59	23.50				
5	16QAM	1	0	23.49	23.54	23.55				
5	16QAM	1	12	23.44	23.38	23.43	24.5	1		
5	16QAM	1	24	23.36	23.48	23.43				
5	16QAM	12	0	22.37	22.39	22.27	23.5	2		
5	16QAM	12	7	22.38	22.35	22.35				
5	16QAM	12	13	22.39	22.39	22.45				
5	16QAM	25	0	22.50	22.54	22.44				
5	64QAM	1	0	22.51	22.59	22.59				
5	64QAM	1	12	22.41	22.43	22.40	23.5	2		
5	64QAM	1	24	22.37	22.39	22.37				
5	64QAM	12	0	21.43	21.50	21.43	22.5	3		
5	64QAM	12	7	21.30	21.40	21.36				
5	64QAM	12	13	21.33	21.39	21.39				
5	64QAM	25	0	21.48	21.45	21.34				
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	24.51	24.57	24.54	25.5	0		
3	QPSK	1	8	24.42	24.56	24.40				
3	QPSK	1	14	24.36	24.49	24.39				
3	QPSK	8	0	23.48	23.57	23.49	24.5	1		
3	QPSK	8	4	23.36	23.46	23.36				
3	QPSK	8	7	23.41	23.57	23.49				
3	QPSK	15	0	23.51	23.62	23.51				
3	16QAM	1	0	23.53	23.57	23.60	24.5	1		
3	16QAM	1	8	23.41	23.36	23.40				
3	16QAM	1	14	23.47	23.51	23.42				
3	16QAM	8	0	22.39	22.					



Band 13_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				782					
10	QPSK	1	0		24.46		25.5	0	
10	QPSK	1	25		24.37				
10	QPSK	1	49		24.40				
10	QPSK	25	0		23.38		24.5	1	
10	QPSK	25	12		23.30				
10	QPSK	25	25		23.33				
10	QPSK	50	0		23.39		24.5	1	
10	16QAM	1	0		23.55				
10	16QAM	1	25		23.42				
10	16QAM	1	49		23.45		23.5	2	
10	16QAM	25	0		22.42				
10	16QAM	25	12		22.32				
10	16QAM	25	25		22.33		23.5	2	
10	16QAM	50	0		22.40				
10	16QAM	50	0		22.48				
10	64QAM	1	0		22.35		23.5	2	
10	64QAM	1	25		22.35				
10	64QAM	1	49		22.39				
10	64QAM	25	0		21.43		22.5	3	
10	64QAM	25	12		21.35				
10	64QAM	25	25		21.37				
10	64QAM	50	0		21.38				
Channel				23205					
Frequency (MHz)				782					
5	QPSK	1	0	24.32	24.41	24.26	25.5	0	
5	QPSK	1	12	24.20	24.31	24.20			
5	QPSK	1	24	24.15	24.33	24.25			
5	QPSK	12	0	23.12	23.34	23.19	24.5	1	
5	QPSK	12	7	23.20	23.21	23.02			
5	QPSK	12	13	23.13	23.27	23.10			
5	QPSK	25	0	23.20	23.29	23.18	24.5	1	
5	16QAM	1	0	23.40	23.50	23.47			
5	16QAM	1	12	23.18	23.27	23.29			
5	16QAM	1	24	23.28	23.35	23.29	23.5	2	
5	16QAM	12	0	22.20	22.29	22.22			
5	16QAM	12	7	22.22	22.19	22.18			
5	16QAM	12	13	22.11	22.26	22.12	23.5	2	
5	16QAM	25	0	22.24	22.29	22.20			
5	64QAM	1	0	22.27	22.41	22.32			
5	64QAM	1	12	22.12	22.21	22.19	23.5	2	
5	64QAM	1	24	22.26	22.30	22.18			
5	64QAM	12	0	21.24	21.29	21.25			
5	64QAM	12	7	21.23	21.24	21.19	22.5	3	
5	64QAM	12	13	21.10	21.28	21.16			
5	64QAM	25	0	21.19	21.23	21.17			

Band 13_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				782					
10	QPSK	1	0		23.88		24.9	0	
10	QPSK	1	25		23.80				
10	QPSK	1	49		23.83				
10	QPSK	25	0		22.79		23.9	1	
10	QPSK	25	12		22.75				
10	QPSK	25	25		22.72				
10	QPSK	50	0		22.74		23.9	1	
10	16QAM	1	0		22.81				
10	16QAM	1	25		22.72				
10	16QAM	1	49		22.73		22.9	2	
10	16QAM	25	0		21.52				
10	16QAM	25	12		21.50				
10	16QAM	25	25		21.48		22.9	2	
10	16QAM	50	0		21.74				
10	64QAM	1	0		21.77				
10	64QAM	1	25		21.73		21.9	3	
10	64QAM	1	49		21.87				
10	64QAM	25	0		20.46				
10	64QAM	25	12		20.40		21.9	3	
10	64QAM	25	25		20.33				
10	64QAM	50	0		20.57				
Channel				23205					
Frequency (MHz)				782					
5	QPSK	1	0	23.67	23.66	23.72	24.9	0	
5	QPSK	1	12	23.57	23.61	23.50			
5	QPSK	1	24	23.61	23.70	23.57			
5	QPSK	12	0	22.63	22.62	22.53	23.9	1	
5	QPSK	12	7	22.46	22.60	22.50			
5	QPSK	12	13	22.43	22.53	22.54			
5	QPSK	25	0	22.42	22.61	22.45	23.9	1	
5	16QAM	1	0	22.47	22.69	22.51			
5	16QAM	1	12	22.55	22.56	22.51			
5	16QAM	1	24	22.58	22.55	22.46	22.9	2	
5	16QAM	12	0	21.31	21.40	21.15			
5	16QAM	12	7	21.18	21.30	21.21			
5	16QAM	12	13	21.26	21.29	21.23	22.9	2	
5	16QAM	25	0	21.42	21.60	21.55			
5	64QAM	1	0	21.47	21.58	21.51			
5	64QAM	1	12	21.41	21.63	21.40	21.9	3	
5	64QAM	1	24	21.36	21.50	21.43			
5	64QAM	12	0	20.19	20.35	20.25			
5	64QAM	12	7	20.34	20.44	20.27	21.9	3	
5	64QAM	12	13	20.35	20.35	20.22			
5	64QAM	25	0	20.47	20.60	20.47			



Band 17_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23780	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.27	24.62	24.90			
10	QPSK	1	25	24.45	24.52	24.44	25.5	0	
10	QPSK	1	49	24.50	24.61	24.56			
10	QPSK	25	0	23.57	23.62	23.54			
10	QPSK	25	12	23.48	23.52	23.37	24.5	1	
10	QPSK	25	25	23.56	23.60	23.51			
10	QPSK	50	0	23.45	23.58	23.51			
10	16QAM	1	0	23.64	23.77	23.75			
10	16QAM	1	25	23.58	23.51	23.60	24.5	1	
10	16QAM	1	49	23.60	23.64	23.57			
10	16QAM	25	0	22.51	22.65	22.59			
10	16QAM	25	12	22.51	22.45	22.41	23.5	2	
10	16QAM	25	25	22.39	22.41	22.43			
10	16QAM	50	0	22.50	22.57	22.49			
10	64QAM	1	0	22.61	22.70	22.67			
10	64QAM	1	25	22.51	22.54	22.52	23.5	2	
10	64QAM	1	49	22.49	22.55	22.55			
10	64QAM	25	0	21.67	21.58	21.60			
10	64QAM	25	12	21.44	21.44	21.37	22.5	3	
10	64QAM	25	25	21.43	21.38	21.44			
10	64QAM	50	0	21.62	21.58	21.53			
Channel				23785	23790	23825			
Frequency (MHz)				705.5	710	713.5			
5	QPSK	1	0	24.54	24.57	24.49			
5	QPSK	1	12	24.37	24.39	24.35	25.5	0	
5	QPSK	1	24	24.40	24.56	24.41			
5	QPSK	12	0	23.51	23.49	23.50			
5	QPSK	12	7	23.43	23.42	23.30	24.5	1	
5	QPSK	12	13	23.46	23.46	23.39			
5	QPSK	25	0	23.34	23.44	23.37			
5	16QAM	1	0	23.56	23.70	23.64			
5	16QAM	1	12	23.54	23.47	23.48	24.5	1	
5	16QAM	1	24	23.56	23.61	23.51			
5	16QAM	12	0	22.41	22.36	22.50			
5	16QAM	12	7	22.47	22.41	22.29	23.5	2	
5	16QAM	12	13	22.31	22.32	22.29			
5	16QAM	25	0	22.37	22.42	22.37			
5	64QAM	1	0	22.50	22.66	22.62			
5	64QAM	1	12	22.38	22.42	22.38	23.5	2	
5	64QAM	1	24	22.42	22.48	22.49			
5	64QAM	12	0	21.52	21.47	21.48			
5	64QAM	12	7	21.37	21.34	21.33	22.5	3	
5	64QAM	12	13	21.34	21.30	21.34			
5	64QAM	25	0	21.57	21.48	21.41			

Band 17_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	23.46	23.59	23.53			
10	QPSK	1	25	23.42	23.48	23.38	24.8	0	
10	QPSK	1	49	23.40	23.52	23.38			
10	QPSK	25	0	22.67	22.78	22.62			
10	QPSK	25	12	22.51	22.56	22.43	23.8	1	
10	QPSK	25	25	22.62	22.73	22.56			
10	QPSK	50	0	22.73	22.76	22.70			
10	16QAM	1	0	22.68	22.74	22.57			
10	16QAM	1	25	22.58	22.63	22.57	23.8	1	
10	16QAM	1	49	22.57	22.60	22.62			
10	16QAM	25	0	21.55	21.64	21.49			
10	16QAM	25	12	21.54	21.51	21.54	22.8	2	
10	16QAM	25	25	21.54	21.44	21.48			
10	16QAM	50	0	21.58	21.73	21.69			
10	64QAM	1	0	21.64	21.69	21.62			
10	64QAM	1	25	21.46	21.48	21.46	22.8	2	
10	64QAM	1	49	21.62	21.56	21.54			
10	64QAM	25	0	20.57	20.65	20.48			
10	64QAM	25	12	20.46	20.42	20.46	21.8	3	
10	64QAM	25	25	20.47	20.45	20.38			
10	64QAM	50	0	20.65	20.68	20.54			
Channel				23785	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	23.37	23.51	23.46			
5	QPSK	1	12	23.38	23.36	23.33	24.8	0	
5	QPSK	1	24	23.36	23.42	23.30			
5	QPSK	12	0	22.64	22.68	22.48			
5	QPSK	12	7	22.43	22.51	22.30	23.8	1	
5	QPSK	12	13	22.50	22.66	22.51			
5	QPSK	25	0	22.60	22.68	22.67			
5	16QAM	1	0	22.54	22.70	22.42			
5	16QAM	1	12	22.53	22.54	22.47	23.8	1	
5	16QAM	1	24	22.53	22.54	22.48			
5	16QAM	12	0	21.49	21.57	21.35			
5	16QAM	12	7	21.48	21.47	21.39	22.8	2	
5	16QAM	12	13	21.43	21.35	21.44			
5	16QAM	25	0	21.43	21.64	21.65			
5	64QAM	1	0	21.58	21.58	21.52			
5	64QAM	1	12	21.32	21.44	21.38	22.8	2	
5	64QAM	1	24	21.57	21.46	21.49			
5	64QAM	12	0	20.48	20.50	20.41			
5	64QAM	12	7	20.31	20.33	20.32	21.8	3	
5	64QAM	12	13	20.40	20.38	20.26			
5	64QAM	25	0	20.58	20.65	20.42			



Band 26_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				26765	26865	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	23.32	23.32	23.32	25.5	0		
15	QPSK	1	37	24.31	24.36	24.24				
15	QPSK	1	74	24.34	24.41	24.31				
15	QPSK	36	0	23.30	23.41	23.34				
15	QPSK	36	20	23.28	23.37	23.30	24.5	1		
15	QPSK	36	39	23.29	23.33	23.25				
15	QPSK	75	0	23.44	23.48	23.43				
15	16QAM	25	0	22.38	22.43	22.31				
15	16QAM	1	37	23.37	23.46	23.36	24.5	1		
15	16QAM	1	74	23.44	23.36	23.41				
15	16QAM	36	0	22.44	22.47	22.46				
15	16QAM	36	20	22.37	22.31	22.39	23.5	2		
15	16QAM	36	39	22.34	22.33	22.29				
15	16QAM	75	0	22.30	22.43	22.31				
15	64QAM	1	0	22.41	22.45	22.37				
15	64QAM	1	37	22.32	22.23	22.32	23.5	2		
15	64QAM	1	74	22.31	22.30	22.24				
15	64QAM	36	0	21.39	21.44	21.43				
15	64QAM	36	20	21.28	21.24	21.24	22.5	3		
15	64QAM	36	39	21.23	21.23	21.19				
15	64QAM	75	0	21.30	21.43	21.35				
Channel				26740	26865	26990				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	24.26	24.36	24.29	25.5	0		
10	QPSK	1	25	24.26	24.24	24.09				
10	QPSK	1	49	24.23	24.34	24.20				
10	QPSK	25	0	23.25	23.27	23.29				
10	QPSK	25	12	23.17	23.25	23.22	24.5	1		
10	QPSK	25	25	23.15	23.19	23.21				
10	QPSK	50	0	23.38	23.36	23.29				
10	16QAM	1	0	23.40	23.43	23.41				
10	16QAM	1	25	23.33	23.36	23.30	24.5	1		
10	16QAM	1	49	23.32	23.32	23.27				
10	16QAM	25	0	22.27	22.28	22.22				
10	16QAM	25	12	22.20	22.25	22.28	23.5	2		
10	16QAM	25	25	22.21	22.24	22.17				
10	16QAM	50	0	22.32	22.34	22.20				
10	64QAM	1	0	22.28	22.31	22.27				
10	64QAM	1	25	22.17	22.16	22.28	23.5	2		
10	64QAM	1	49	22.27	22.21	22.10				
10	64QAM	25	0	21.34	21.41	21.29				
10	64QAM	25	12	21.22	21.17	21.12	22.5	3		
10	64QAM	25	25	21.18	21.16	21.04				
10	64QAM	50	0	21.16	21.38	21.29				
Channel				26715	26865	27015				
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	24.32	24.42	24.30	25.5	0		
5	QPSK	1	12	24.27	24.26	24.14				
5	QPSK	1	24	24.25	24.37	24.17				
5	QPSK	12	0	23.22	23.28	23.27				
5	QPSK	12	7	23.17	23.26	23.22	24.5	1		
5	QPSK	12	13	23.23	23.22	23.17				
5	QPSK	25	0	23.37	23.43	23.32				
5	16QAM	1	0	23.41	23.39	23.36	24.5	1		
5	16QAM	1	12	23.34	23.41	23.30				
5	16QAM	1	24	23.33	23.25	23.37				
5	16QAM	12	0	22.34	22.33	22.40				
5	16QAM	12	7	22.25	22.26	22.27	23.5	2		
5	16QAM	12	13	22.31	22.30	22.18				
5	16QAM	25	0	22.31	22.29	22.16				
5	64QAM	1	0	22.35	23.27	23.33				
5	64QAM	1	12	22.20	22.11	22.24	23.5	2		
5	64QAM	1	24	22.19	22.22	22.21				
5	64QAM	12	0	21.25	21.38	21.30				
5	64QAM	12	7	21.16	21.14	21.14	22.5	3		
5	64QAM	12	13	21.14	21.16	21.08				
5	64QAM	25	0	21.27	21.19	21.28				
Channel				26705	26865	27025				
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	24.30	24.40	24.33	25.5	0		
3	QPSK	1	8	24.26	24.26	24.15				
3	QPSK	1	14	24.28	24.31	24.24				
3	QPSK	8	0	23.24	23.34	23.20				
3	QPSK	8	4	23.20	23.30	23.19	24.5	1		
3	QPSK	8	7	23.26	23.22	23.11				
3	QPSK	15	0	23.41	23.33	23.36				
3	16QAM	1	0	23.42	23.49	23.47	24.5	1		
3	16QAM	1	8	23.24	23.31	23.23				
3	16QAM	1	14	23.36	23.31	23.31				
3	16QAM	8	0	22.38	22.32	22.40				
3	16QAM	8	4	22.25	22.20	22.25	23.5	2		
3	16QAM	8	7	22.24	22.25	22.21				
3	16QAM	15	0	22.31	22.31	22.21				
3	64QAM	1	0	22.33	22.36	22.31	23.5	2		
3	64QAM	1	8	22.26	22.16	22.24				
3	64QAM	1	14	22.21	22.26	22.10				
3	64QAM	8	0	21.35	21.34	21.38				
3	64QAM	8	4	21.21	21.17	21.12	22.5	3		
3	64QAM	8	7	21.20	21.15	21.13				
3	64QAM	15	0	21.22	21.31	21.27				
Channel				26697	26865	27033				
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	24.32	24.36	24.32	25.5	0		
1.4	QPSK	1	3	24.22	24.31	24.13				
1.4	QPSK	1	5	24.24	24.33	24.26				
1.4	QPSK	3	0	24.21	24.29	24.22				
1.4	QPSK	3	1	24.18	24.26	24.24				
1.4	QPSK	3	3	24.24	24.27	24.20				
1.4	QPSK	6	0	23.40	23.39	23.40	24.5	1		
1.4	16QAM	1	0	23.44	23.49	23.44				
1.4	16QAM	1	3	23.29	23.32	23.23	24.5	1		
1.4	16QAM	1	5	23.33	23.29	23.32				
1.4	16QAM	3	0	23.30	23.38	23.37				
1.4	16QAM	3	1	23.25	23.16	23.24				
1.4	16QAM	3	3	23.27	23.22	23.15				
1.4	16QAM	6	0	22.25	22.23	22.21	23.5	2		
1.4	64QAM	1	0	22.30	22.38	22.28				
1.4	64QAM	1	3	22.29	22.15	22.23				
1.4	64QAM	1	5	22.19	22.22	22.09	23.5	2		
1.4	64QAM	3	0	22.29	22.32	22.32				
1.4	64QAM	3	1	22.24	22.15	22.18				
1.4	64QAM	3	3	22.12	22.16	22.05				
1.4	64QAM	6	0	21.25	21.29	21.32	22.5	3		

Band 26_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				26765	26865	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	23.54	23.64	23.49	24.9	0		
15	QPSK	1	37	23.53	23.51	23.41				
15	QPSK	1	74	23.52	23.54	23.43				
15	QPSK	36	0	23.00	23.13	22.97				
15	QPSK	36	20	22.97	23.07	22.96	24.4	0.5		
15	QPSK	36	39	22.97	23.11	22.85				
15	QPSK	75	0	23.01	23.17	22.93				
15	16QAM	1	0	23.23	23.23	23.20				
15	16QAM	1	37	23.25	23.38	23.19	24.4	0.5		
15	16QAM	1	74	23.29	23.25	23.13				
15	16QAM	36	0	21.85	22.08	21.96				
15	16QAM	36	20	22.05	22.08	21.98	23.4	1.5		
15	16QAM	36	39	21.96	22.14	21.85				
15	16QAM	75	0	21.99	22.11	21.94				
15	64QAM	1	0	22.06	22.13	22.08				
15	64QAM	1	37	22.15	22.28	22.10	23.4	1.5		
15	64QAM	1	74	22.13	22.12	22.00				
15	64QAM	36	0	20.86	21.06	20.95				
15	64QAM	36	20	21.03	21.09	20.97	22.4	2.5		
15	64QAM	36	39	20.97	21.14	20.94				
15	64QAM	75	0	20.94	21.10	20.90				
Channel				26740	26865	26990				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	23.51	23.57	23.47	24.9	0		
10	QPSK	1	25	23.51	23.46	23.39				
10	QPSK	1	49	23.40	23.48	23.34				
10	QPSK	25	0	22.99	23.03	22.92				
10	QPSK	25	12	22.96	22.98	22.88	24.4	0.5		
10	QPSK	25	25	22.89	23.02	22.79				
10	QPSK	50	0	22.92	23.09	22.89				
10	16QAM	1	0	23.07	23.13	23.16				
10	16QAM	1	25	23.15	23.17	23.16	24.4	0.5		
10	16QAM	1	49	23.20	23.32	23.09				
10	16QAM	25	0	21.86	21.86	21.86				
10										



Band 66_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	16.76	16.86	16.80				
20	QPSK	1	49	16.47	16.49	16.83	18	0		
20	QPSK	1	99	16.48	16.46	16.82				
20	QPSK	50	0	16.72	16.84	16.69				
20	QPSK	50	24	16.45	16.75	16.65	18	0		
20	QPSK	50	50	16.53	16.69	16.57				
20	QPSK	100	0	16.43	16.82	16.59				
20	16QAM	1	0	16.61	16.59	16.60				
20	16QAM	1	49	16.70	16.71	16.70	18	0		
20	16QAM	1	99	16.55	16.58	16.63				
20	16QAM	50	0	16.60	16.69	16.55				
20	16QAM	50	24	16.64	16.74	16.54	18	0		
20	16QAM	50	50	16.56	16.72	16.71				
20	16QAM	100	0	16.66	16.53	16.75				
20	64QAM	1	0	16.67	16.77	16.62				
20	64QAM	1	49	16.57	16.51	16.76	18	0		
20	64QAM	1	99	16.63	16.56	16.65				
20	64QAM	50	0	16.53	16.68	16.62				
20	64QAM	50	24	16.68	16.73	16.63	18	0		
20	64QAM	50	50	16.53	16.73	16.61				
20	64QAM	100	0	16.60	16.68	16.52				
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	16.58	16.79	16.76	18	0		
15	QPSK	1	37	16.35	16.60	16.47				
15	QPSK	1	74	16.43	16.40	16.59				
15	QPSK	36	0	16.42	16.68	16.62				
15	QPSK	36	29	16.39	16.64	16.50	18	0		
15	QPSK	36	39	16.42	16.66	16.50				
15	QPSK	75	0	16.38	16.64	16.55				
15	16QAM	1	0	16.49	16.56	16.57				
15	16QAM	1	37	16.60	16.60	16.59	18	0		
15	16QAM	1	74	16.48	16.50	16.59				
15	16QAM	36	0	16.51	16.64	16.48				
15	16QAM	36	20	16.54	16.67	16.49	18	0		
15	16QAM	36	39	16.46	16.62	16.65				
15	16QAM	75	0	16.60	16.50	16.69				
15	64QAM	1	0	16.64	16.72	16.50				
15	64QAM	1	37	16.53	16.46	16.71	18	0		
15	64QAM	1	74	16.63	16.46	16.59				
15	64QAM	36	0	16.45	16.56	16.54				
15	64QAM	36	20	16.62	16.63	16.51	18	0		
15	64QAM	36	39	16.41	16.70	16.53				
15	64QAM	75	0	16.50	16.62	16.44				
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	16.53	16.79	16.68	18	0		
10	QPSK	1	25	16.43	16.36	16.40				
10	QPSK	1	49	16.41	16.36	16.59				
10	QPSK	25	0	16.49	16.64	16.63				
10	QPSK	25	12	16.34	16.67	16.56	18	0		
10	QPSK	25	25	16.42	16.57	16.50				
10	QPSK	50	0	16.39	16.60	16.50				
10	16QAM	1	0	16.51	16.46	16.59	18	0		
10	16QAM	1	25	16.53	16.63	16.50				
10	16QAM	1	49	16.50	16.54	16.57				
10	16QAM	25	0	16.53	16.59	16.43				
10	16QAM	25	12	16.55	16.71	16.48	18	0		
10	16QAM	25	25	16.46	16.64	16.64				
10	16QAM	50	0	16.57	16.50	16.67				
10	64QAM	1	0	16.56	16.66	16.53				
10	64QAM	1	25	16.54	16.43	16.66	18	0		
10	64QAM	1	49	16.54	16.46	16.55				
10	64QAM	25	0	16.48	16.64	16.53				
10	64QAM	25	12	16.62	16.68	16.60				
10	64QAM	25	25	16.46	16.61	16.56	18	0		
10	64QAM	50	0	16.48	16.54	16.47				
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	16.54	16.81	16.70				
5	QPSK	1	12	16.41	16.51	16.49	18	0		
5	QPSK	1	24	16.36	16.39	16.59				
5	QPSK	12	0	16.51	16.65	16.59				
5	QPSK	12	7	16.42	16.63	16.53	18	0		
5	QPSK	12	13	16.44	16.54	16.49				
5	QPSK	25	0	16.34	16.58	16.53				
5	16QAM	1	0	16.53	16.54	16.57				
5	16QAM	1	12	16.63	16.59	16.65	18	0		
5	16QAM	1	24	16.48	16.64	16.59				
5	16QAM	12	0	16.49	16.64	16.52				
5	16QAM	12	7	16.56	16.70	16.50	18	0		
5	16QAM	12	13	16.51	16.68	16.65				
5	16QAM	25	0	16.63	16.47	16.64				
5	64QAM	1	0	16.59	16.74	16.52				
5	64QAM	1	12	16.45	16.40	16.72	18	0		
5	64QAM	1	24	16.57	16.46	16.66				
5	64QAM	12	0	16.44	16.56	16.52				
5	64QAM	12	7	16.65	16.62	16.53	18	0		
5	64QAM	12	13	16.47	16.67	16.50				
5	64QAM	25	0	16.50	16.58	16.40				
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	16.52	16.79	16.76	18	0		
3	QPSK	1	8	16.37	16.53	16.47				
3	QPSK	1	14	16.40	16.39	16.57				
3	QPSK	8	0	16.42	16.65	16.56	18	0		
3	QPSK	8	4	16.37	16.68	16.59				
3	QPSK	8	7	16.44	16.57	16.47				
3	QPSK	15	0	16.39	16.62	16.54				
3	16QAM	1	0	16.58	16.48	16.48	18	0		
3	16QAM	1	8	16.65	16.60	16.67				
3	16QAM	1	14	16.49	16.46	16.51				
3	16QAM	8	0	16.51	16.59	16.60				
3	16QAM	8	4	16.53	16.66	16.44	18	0		
3	16QAM	8	7	16.46	16.64	16.67				
3	16QAM	15	0	16.63	16.50	16.63				
3	64QAM	1	0	16.64	16.70	16.54				
3	64QAM	1	8	16.54	16.43	16.65	18	0		
3	64QAM	1	14	16.55	16.51	16.55				
3	64QAM	8	0	16.42	16.64	16.59				
3	64QAM	8	4	16.63	16.68	16.58	18	0		
3	64QAM	8	7	16.45	16.70	16.58				
3	64QAM	15	0	16.50	16.61	16.47				
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	16.55	16.74	16.70	18	0		
1.4	QPSK	1	3	16.35	16.54	16.46				
1.4	QPSK	1	5	16.39	16.36	16.54				
1.4	QPSK	3	0	16.47	16.72	16.64				
1.4	QPSK	3	1	16.35	16.72	16.55	18	0		
1.4	QPSK	3	3	16.46	16.52	16.52				
1.4	QPSK	6	0	16.33	16.60	16.54				
1.4	16QAM	1	0	16.57	16.50	16.51	18	0		
1.4	16QAM	1	3	16.65	16.62	16.61				
1.4	16QAM	1	5	16.45	16.47	16.55				
1.4	16QAM	3	0	16.56	16.58	16.45				
1.4	16QAM	3	1	16.55	16.66	16.51	18	0		
1.4	16QAM	3	1	16.45	16.59	16.53				
1.4	16QAM	6	0	16.59	16.50	16.67				
1.4	64QAM	1	0	16.55	16.69	16.50	18	0		
1.4	64QAM	1	3	16.53	16.43	16.69				
1.4	64QAM	1	5	16.58	16.52	16.54				
1.4	64QAM	3	0	16.41	16.65	16.52				
1.4	64QAM	3	1	16.61	16.51	16.53	18	0		
1.4	64QAM	3	3	16.43	16.61	16.58				
1.4	64QAM	6	0	16.52	16.60	16.42				

Band 66_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	21.06	21.31	21.20				
20	QPSK	1	49	21.04	21.04	21.14	22.2	0		
20	QPSK	1	99	20.82	20.83	21.14				
20	QPSK	50	0	21.09	21.24	21.16				
20	QPSK	50	24	21.05	21.18	21.13	22.2	0		
20	QPSK	50	50	20.96	21.06	21.07				
20	QPSK	100	0	20.98	21.06	21.01				
20	16QAM	1	0	20.97	21.02	21.20				
20	16QAM	1	49	21.16	20.94	20.95	22.2	0		
20	1									



Band 38_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.82	24.78	24.85	25.5	0	
20	QPSK	1	49	24.88	24.75	24.84			
20	QPSK	1	99	24.95	24.66	24.57			
20	QPSK	50	0	23.77	23.81	23.74			
20	QPSK	50	24	23.85	23.70	23.62	24.5	1	
20	QPSK	50	50	23.52	23.64	23.54			
20	QPSK	100	0	23.65	23.69	23.60			
20	16QAM	1	0	23.76	23.77	23.73			
20	16QAM	1	49	23.58	23.57	23.58	24.5	1	
20	16QAM	1	99	23.62	23.64	23.60			
20	16QAM	50	0	22.79	22.75	22.85			
20	16QAM	50	24	22.63	22.63	22.64	23.5	2	
20	16QAM	50	50	22.59	22.69	22.60			
20	16QAM	100	0	22.73	22.71	22.78			
20	64QAM	1	0	22.47	22.51	22.42			
20	64QAM	1	49	22.27	22.22	22.30	23.5	2	
20	64QAM	1	99	22.43	22.40	22.40			
20	64QAM	50	0	21.76	21.73	21.79			
20	64QAM	50	24	21.58	21.83	21.88	22.5	3	
20	64QAM	50	50	21.54	21.49	21.47			
20	64QAM	100	0	21.69	21.69	21.74			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.53	24.74	24.83	25.5	0	
15	QPSK	1	37	24.62	24.62	24.53			
15	QPSK	1	74	24.41	24.56	24.47			
15	QPSK	36	0	23.74	23.77	23.61	24.5	1	
15	QPSK	36	20	23.57	23.66	23.56			
15	QPSK	36	39	23.47	23.52	23.43			
15	QPSK	75	0	23.56	23.65	23.49			
15	16QAM	1	0	23.68	23.64	23.67			
15	16QAM	1	37	23.54	23.45	23.47	24.5	1	
15	16QAM	1	74	23.48	23.57	23.46			
15	16QAM	36	0	22.73	22.71	22.77			
15	16QAM	36	20	22.53	22.56	22.40	23.5	2	
15	16QAM	36	39	22.48	22.66	22.52			
15	16QAM	75	0	22.66	22.62	22.65			
15	64QAM	1	0	22.35	22.40	22.31			
15	64QAM	1	37	22.22	22.19	22.17	23.5	2	
15	64QAM	1	74	22.35	22.28	22.29			
15	64QAM	36	0	21.65	21.69	21.69			
15	64QAM	36	20	21.52	21.59	21.54	22.5	3	
15	64QAM	36	39	21.47	21.44	21.39			
15	64QAM	75	0	21.58	21.58	21.63			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.58	24.71	24.63	25.5	0	
10	QPSK	1	25	24.59	24.67	24.50			
10	QPSK	1	49	24.42	24.56	24.43			
10	QPSK	25	0	23.69	23.78	23.69			
10	QPSK	25	12	23.59	23.66	23.55	24.5	1	
10	QPSK	25	25	23.38	23.58	23.44			
10	QPSK	50	0	23.55	23.66	23.47			
10	16QAM	1	0	23.62	23.66	23.65	24.5	1	
10	16QAM	1	25	23.51	23.52	23.46			
10	16QAM	1	49	23.54	23.54	23.54			
10	16QAM	25	0	22.73	22.66	22.81			
10	16QAM	25	12	22.52	22.53	22.59	23.5	2	
10	16QAM	25	25	22.53	22.60	22.50			
10	16QAM	50	0	22.80	22.62	22.74			
10	64QAM	1	0	22.42	22.37	22.31	23.5	2	
10	64QAM	1	25	22.14	22.11	22.23			
10	64QAM	1	49	22.38	22.31	22.38			
10	64QAM	25	0	21.82	21.58	21.73			
10	64QAM	25	12	21.55	21.59	21.60	22.5	3	
10	64QAM	25	25	21.42	21.37	21.40			
10	64QAM	50	0	21.58	21.61	21.62			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.55	24.75	24.52	25.5	0	
5	QPSK	1	12	24.68	24.64	24.59			
5	QPSK	1	24	24.47	24.62	24.46			
5	QPSK	12	0	23.68	23.69	23.65	24.5	1	
5	QPSK	12	7	23.61	23.65	23.50			
5	QPSK	12	13	23.40	23.55	23.42			
5	QPSK	25	0	23.62	23.64	23.45			
5	16QAM	1	0	23.71	23.74	23.64	24.5	1	
5	16QAM	1	12	23.45	23.43	23.42			
5	16QAM	1	24	23.59	23.56	23.48			
5	16QAM	12	0	22.70	22.69	22.77			
5	16QAM	12	7	22.59	22.56	22.57			
5	16QAM	12	13	22.49	22.66	22.50	23.5	2	
5	16QAM	25	0	22.63	22.64	22.69			
5	64QAM	1	0	22.33	22.38	22.38			
5	64QAM	1	12	22.23	22.09	22.24	23.5	2	
5	64QAM	1	24	22.32	22.29	22.27			
5	64QAM	12	0	21.85	21.83	21.73			
5	64QAM	12	7	21.44	21.49	21.58	22.5	3	
5	64QAM	12	13	21.50	21.36	21.36			
5	64QAM	25	0	21.55	21.62	21.59			

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.78	20.89	20.81	22	0	
20	QPSK	1	49	20.73	20.91	20.49			
20	QPSK	1	99	20.62	20.68	20.44			
20	QPSK	50	0	20.79	20.86	20.63			
20	QPSK	50	24	20.74	20.81	20.49	22	0	
20	QPSK	50	50	20.75	20.85	20.46			
20	QPSK	100	0	20.80	20.83	20.56			
20	16QAM	1	0	20.65	20.74	20.46			
20	16QAM	1	49	20.81	20.85	20.50	22	0	
20	16QAM	1	99	20.80	20.83	20.45			
20	16QAM	50	0	20.80	20.87	20.62			
20	16QAM	50	24	20.82	20.85	20.57	22	0	
20	16QAM	50	50	20.74	20.82	20.56			
20	16QAM	100	0	20.80	20.86	20.61			
20	64QAM	1	0	20.38	20.48	20.15			
20	64QAM	1	49	20.64	20.67	20.34	22	0	
20	64QAM	1	99	20.51	20.57	20.31			
20	64QAM	50	0	20.76	20.86	20.50			
20	64QAM	50	24	20.81	20.84	20.50	22	0	
20	64QAM	50	50	21.45	20.81	20.48			
20	64QAM	100	0	20.82	20.86	20.47			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.74	20.77	20.54	22	0	
15	QPSK	1	37	20.65	20.69	20.41			
15	QPSK	1	74	20.53	20.58	20.37			
15	QPSK	36	0	20.76	20.82	20.53	22	0	
15	QPSK	36	20	20.71	20.69	20.42			
15	QPSK	36	39	20.63	20.81	20.38			
15	QPSK	75	0	20.74	20.72	20.44			
15	16QAM	1	0	20.53	20.65	20.39			
15	16QAM	1	37	20.73	20.74	20.40	22	0	
15	16QAM	1	74	20.69	20.73	20.37			
15	16QAM	36	0	20.70	20.82	20.45			
15	16QAM	36	20	20.74	20.79	20.52	22	0	
15	16QAM	36	39	20.65	20.74	20.47			
15	16QAM	75	0	20.73	20.78	20.52			
15	64QAM	1	0	20.27	20.39	20.03			
15	64QAM	1	37	20.58	20.57	20.29	22	0	
15	64QAM	1	74	20.40	20.49	20.28			
15	64QAM	36	0	20.68	20.82	20.44			
15	64QAM	36	20	20.70	20.81	20.46	22	0	
15	64QAM	36	39	20.68	20.76	20.39			
15									



Band 38_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.85	20.96	20.92	22.2	0	
20	QPSK	1	49	20.71	20.71	20.74			
20	QPSK	1	99	20.76	20.75	20.63			
20	QPSK	50	0	20.79	20.81	20.78			
20	QPSK	50	24	20.63	20.74	20.68	22.2	0	
20	QPSK	50	50	20.65	20.76	20.74			
20	QPSK	100	0	20.72	20.75	20.74			
20	16QAM	1	0	20.61	20.62	20.73			
20	16QAM	1	49	20.74	20.67	20.71	22.2	0	
20	16QAM	1	99	20.82	20.80	20.76			
20	16QAM	50	0	20.76	20.76	20.83			
20	16QAM	50	24	20.63	20.85	20.67	22.2	0	
20	16QAM	50	50	20.80	20.74	20.81			
20	16QAM	100	0	20.72	20.74	20.85			
20	64QAM	1	0	20.31	20.37	20.50			
20	64QAM	1	49	20.59	20.60	20.61	22.2	0	
20	64QAM	1	99	20.53	20.56	20.61			
20	64QAM	50	0	20.74	20.75	20.84			
20	64QAM	50	24	20.81	20.83	20.74	22.2	0	
20	64QAM	50	50	20.82	20.74	20.81			
20	64QAM	100	0	20.73	20.83	20.81			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.73	20.85	20.71	22.2	0	
15	QPSK	1	37	20.61	20.70	20.66			
15	QPSK	1	74	20.73	20.73	20.60			
15	QPSK	36	0	20.67	20.73	20.71	22.2	0	
15	QPSK	36	20	20.66	20.66	20.65			
15	QPSK	36	39	20.54	20.69	20.66			
15	QPSK	75	0	20.70	20.74	20.68			
15	16QAM	1	0	20.59	20.60	20.69			
15	16QAM	1	37	20.65	20.65	20.64	22.2	0	
15	16QAM	1	74	20.74	20.69	20.75			
15	16QAM	36	0	20.65	20.66	20.75			
15	16QAM	36	20	20.78	20.78	20.63	22.2	0	
15	16QAM	36	39	20.76	20.70	20.72			
15	16QAM	75	0	20.70	20.68	20.83			
15	64QAM	1	0	20.27	20.26	20.44			
15	64QAM	1	37	20.55	20.59	20.49	22.2	0	
15	64QAM	1	74	20.44	20.47	20.60			
15	64QAM	36	0	20.71	20.66	20.74			
15	64QAM	36	20	20.73	20.72	20.71	22.2	0	
15	64QAM	36	39	20.73	20.68	20.73			
15	64QAM	75	0	20.63	20.79	20.76			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	20.79	20.79	20.79	22.2	0	
10	QPSK	1	25	20.62	20.64	20.70			
10	QPSK	1	49	20.68	20.71	20.60			
10	QPSK	25	0	20.69	20.79	20.69			
10	QPSK	25	12	20.61	20.63	20.58	22.2	0	
10	QPSK	25	25	20.60	20.74	20.65			
10	QPSK	50	0	20.70	20.71	20.73			
10	16QAM	1	0	20.53	20.60	20.62	22.2	0	
10	16QAM	1	25	20.64	20.66	20.59			
10	16QAM	1	49	20.80	20.79	20.65			
10	16QAM	25	0	20.69	20.66	20.75			
10	16QAM	25	12	20.73	20.76	20.64	22.2	0	
10	16QAM	25	25	20.72	20.65	20.75			
10	16QAM	50	0	20.69	20.73	20.80			
10	64QAM	1	0	20.20	20.31	20.48	22.2	0	
10	64QAM	1	25	20.49	20.48	20.57			
10	64QAM	1	49	20.46	20.52	20.49			
10	64QAM	25	0	20.72	20.72	20.75			
10	64QAM	25	12	20.70	20.76	20.62	22.2	0	
10	64QAM	25	25	20.79	20.65	20.75			
10	64QAM	50	0	20.62	20.81	20.80			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	20.81	20.83	20.72	22.2	0	
5	QPSK	1	12	20.68	20.65	20.64			
5	QPSK	1	24	20.67	20.70	20.58			
5	QPSK	12	0	20.68	20.72	20.77			
5	QPSK	12	7	20.57	20.68	20.66	22.2	0	
5	QPSK	12	13	20.57	20.75	20.64			
5	QPSK	25	0	20.62	20.72	20.72			
5	16QAM	1	0	20.58	20.58	20.68	22.2	0	
5	16QAM	1	12	20.68	20.67	20.65			
5	16QAM	1	24	20.74	20.79	20.74			
5	16QAM	12	0	20.75	20.64	20.81			
5	16QAM	12	7	20.75	20.80	20.81			
5	16QAM	12	13	20.78	20.85	20.72	22.2	0	
5	16QAM	25	0	20.67	20.65	20.80			
5	64QAM	1	0	20.22	20.26	20.45			
5	64QAM	1	12	20.58	20.57	20.49	22.2	0	
5	64QAM	1	24	20.47	20.50	20.54			
5	64QAM	12	0	20.63	20.69	20.75			
5	64QAM	12	7	20.77	20.74	20.73	22.2	0	
5	64QAM	12	13	20.78	20.67	20.80			
5	64QAM	25	0	20.63	20.76	20.79			

Band 38_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.46	23.46	23.40	24.5	0	
20	QPSK	1	49	23.28	23.41	23.34			
20	QPSK	1	99	23.29	23.37	23.33			
20	QPSK	50	0	22.51	22.55	22.49			
20	QPSK	50	24	22.31	22.39	22.34	23.5	1	
20	QPSK	50	50	22.30	22.43	22.34			
20	QPSK	100	0	22.42	22.50	22.44			
20	16QAM	1	0	22.52	22.51	22.47			
20	16QAM	1	49	22.36	22.33	22.42	23.5	1	
20	16QAM	1	99	22.37	22.42	22.41			
20	16QAM	50	0	21.57	21.52	21.52			
20	16QAM	50	24	21.34	21.33	21.38	22.5	2	
20	16QAM	50	50	21.45	21.35	21.41			
20	16QAM	100	0	20.31	20.26	20.27			
20	64QAM	1	0	21.23	21.26	21.17			
20	64QAM	1	49	21.07	21.09	21.05	22.5	2	
20	64QAM	1	99	21.19	21.20	21.20			
20	64QAM	50	0	20.52	20.51	20.49			
20	64QAM	50	24	20.40	20.37	20.39	21.5	3	
20	64QAM	50	50	20.31	20.26	20.27			
20	64QAM	100	0	20.48	20.44	20.41			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.33	23.45	23.37	24.5	0	
15	QPSK	1	37	23.19	23.32	23.22			
15	QPSK	1	74	23.20	23.25	23.21			
15	QPSK	36	0	22.37	22.43	22.41	23.5	1	
15	QPSK	36	20	22.22	22.25	22.20			
15	QPSK	36	39	22.23	22.34	22.23			
15	QPSK	75	0	22.29	22.41	22.32			
15	16QAM	1	0	22.47	22.44	22.33			
15	16QAM	1	37	22.32	22.28	22.37	23.5	1	
15	16QAM	1	74	22.24	22.36	22.31			
15	16QAM	36	0	21.43	21.47	21.38			
15	16QAM	36	20	21.30	21.24	21.30	22.5	2	
15	16QAM	36	39	21.36	21.25	21.29			
15	16QAM	75	0	21.48	21.44	21.37			
15	64QAM	1	0	21.10	21.17	21.14			
15	64QAM	1	37	20.99	21.02	20.95	22.5	2	
15	64QAM	1	74	21.10	21.08	21.06			
15	64QAM	36	0	20.45	20.46	20.38			
15	64QAM	36	20	20.27	20.30	20.33	21.5	3	
15	64QAM	36							



Band 41_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.75	24.72	24.91	24.85	24.78	25.5	0
20	QPSK	1	49	24.68	24.74	24.78	24.64	24.67	25.5	0
20	QPSK	1	99	24.63	24.61	24.67	24.62	24.58	25.5	0
20	QPSK	50	0	23.76	23.70	23.89	23.85	23.80	24.5	1
20	QPSK	50	24	23.61	23.67	23.71	23.63	23.61	24.5	1
20	QPSK	50	50	23.59	23.64	23.63	23.54	23.57	24.5	1
20	QPSK	100	0	23.79	23.76	23.88	23.81	23.83	23.5	2
20	16QAM	100	0	22.78	22.81	22.77	22.82	22.86	23.5	2
20	16QAM	1	49	23.56	23.56	23.56	23.52	23.57	24.5	1
20	16QAM	1	99	23.55	23.67	23.65	23.59	23.63	24.5	1
20	16QAM	50	0	22.77	22.63	22.79	22.87	22.84	23.5	2
20	16QAM	50	24	22.61	22.59	22.57	22.62	22.60	23.5	2
20	16QAM	50	50	22.59	22.65	22.61	22.65	22.62	23.5	2
20	16QAM	100	0	21.69	21.73	21.70	21.71	21.75	22.5	3
20	64QAM	1	0	22.41	22.31	22.59	22.42	22.53	23.5	2
20	64QAM	1	49	22.39	22.41	22.47	22.45	22.50	23.5	2
20	64QAM	1	99	22.46	22.46	22.48	22.46	22.49	23.5	2
20	64QAM	50	0	21.72	21.64	21.86	21.83	21.89	22.5	3
20	64QAM	50	24	21.76	21.80	21.78	21.75	21.75	22.5	3
20	64QAM	50	50	21.69	21.73	21.70	21.71	21.75	22.5	3
20	64QAM	100	0	21.71	21.68	21.85	21.75	21.82	22.5	3
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.71	24.74	24.78	24.70	24.68	25.5	0
15	QPSK	1	37	24.54	24.67	24.68	24.58	24.53	25.5	0
15	QPSK	1	74	24.57	24.51	24.63	24.50	24.51	25.5	0
15	QPSK	36	0	23.67	23.66	23.84	23.73	23.72	24.5	1
15	QPSK	36	20	23.48	23.56	23.56	23.58	23.51	24.5	1
15	QPSK	36	39	23.45	23.61	23.55	23.45	23.47	24.5	1
15	QPSK	75	0	23.64	23.72	23.84	23.76	23.75	24.5	1
15	16QAM	1	0	23.65	23.52	23.71	23.74	23.82	24.5	1
15	16QAM	1	37	23.48	23.53	23.44	23.47	23.52	24.5	1
15	16QAM	1	74	23.44	23.60	23.60	23.49	23.58	24.5	1
15	16QAM	36	0	22.66	22.59	22.73	22.65	22.71	23.5	2
15	16QAM	36	20	22.53	22.55	22.44	22.57	22.54	23.5	2
15	16QAM	36	39	22.45	22.62	22.47	22.56	22.54	23.5	2
15	16QAM	75	0	22.66	22.60	22.66	22.61	22.77	23.5	2
15	64QAM	1	0	22.30	22.25	22.53	22.30	22.40	23.5	2
15	64QAM	1	37	22.27	22.27	22.40	22.38	22.40	23.5	2
15	64QAM	1	74	22.36	22.35	22.35	22.46	22.34	23.5	2
15	64QAM	36	0	21.63	21.58	21.76	21.69	21.64	22.5	3
15	64QAM	36	20	21.63	21.65	21.66	21.71	21.68	22.5	3
15	64QAM	36	39	21.60	21.69	21.67	21.60	21.71	22.5	3
15	64QAM	75	0	21.57	21.56	21.79	21.71	21.71	22.5	3
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.65	24.66	24.86	24.67	24.70	25.5	0
10	QPSK	1	25	24.65	24.71	24.65	24.58	24.53	25.5	0
10	QPSK	1	49	24.50	24.54	24.60	24.53	24.51	25.5	0
10	QPSK	25	0	23.68	23.57	23.78	23.71	23.69	24.5	1
10	QPSK	25	12	23.48	23.56	23.66	23.51	23.54	24.5	1
10	QPSK	25	25	23.55	23.52	23.53	23.50	23.52	24.5	1
10	QPSK	50	0	23.70	23.71	23.82	23.75	23.76	24.5	1
10	16QAM	1	0	23.68	23.56	23.66	23.77	23.79	24.5	1
10	16QAM	1	25	23.48	23.47	23.48	23.45	23.49	24.5	1
10	16QAM	1	49	23.42	23.62	23.60	23.46	23.60	24.5	1
10	16QAM	25	0	22.70	22.56	22.75	22.78	22.78	23.5	2
10	16QAM	25	12	22.53	22.55	22.50	22.56	22.53	23.5	2
10	16QAM	25	25	22.53	22.57	22.51	22.54	22.56	23.5	2
10	16QAM	50	0	22.64	22.65	22.59	22.77	22.74	23.5	2
10	64QAM	1	0	22.32	22.21	22.53	22.34	22.44	23.5	2
10	64QAM	1	25	22.25	22.28	22.33	22.38	22.40	23.5	2
10	64QAM	1	49	22.37	22.37	22.40	22.42	22.42	23.5	2
10	64QAM	25	0	21.65	21.55	21.80	21.77	21.80	22.5	3
10	64QAM	25	12	21.64	21.76	21.63	21.69	21.65	22.5	3
10	64QAM	25	25	21.63	21.67	21.62	21.61	21.67	22.5	3
10	64QAM	50	0	21.64	21.59	21.71	21.67	21.72	22.5	3
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	24.66	24.74	24.81	24.78	24.71	25.5	0
5	QPSK	1	12	24.56	24.71	24.72	24.55	24.54	25.5	0
5	QPSK	1	24	24.56	24.49	24.58	24.49	24.52	25.5	0
5	QPSK	12	0	23.64	23.63	23.80	23.77	23.72	24.5	1
5	QPSK	12	7	23.47	23.57	23.62	23.54	23.48	24.5	1
5	QPSK	12	13	23.50	23.53	23.56	23.47	23.51	24.5	1
5	QPSK	25	0	23.75	23.67	23.73	23.77	23.77	24.5	1
5	16QAM	1	0	23.67	23.55	23.72	23.76	23.81	24.5	1
5	16QAM	1	12	23.43	23.48	23.44	23.45	23.53	24.5	1
5	16QAM	1	24	23.51	23.58	23.58	23.49	23.58	24.5	1
5	16QAM	12	0	22.73	22.50	22.70	22.74	22.73	23.5	2
5	16QAM	12	7	22.54	22.55	22.53	22.52	22.48	23.5	2
5	16QAM	12	13	22.54	22.51	22.51	22.52	22.49	23.5	2
5	16QAM	25	0	22.73	22.59	22.60	22.83	22.84	23.5	2
5	64QAM	1	0	22.28	22.18	22.45	22.34	22.49	23.5	2
5	64QAM	1	12	22.35	22.32	22.44	22.35	22.42	23.5	2
5	64QAM	1	24	22.42	22.45	22.43	22.40	22.43	23.5	2
5	64QAM	12	0	21.63	21.53	21.77	21.69	21.81	22.5	3
5	64QAM	12	7	21.64	21.66	21.72	21.60	21.71	22.5	3
5	64QAM	12	13	21.64	21.65	21.65	21.57	21.70	22.5	3
5	64QAM	25	0	21.67	21.57	21.73	21.61	21.75	22.5	3

Band 41_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.86	20.89	20.84	20.84	20.81	22	0
20	QPSK	1	49	20.79	20.61	20.88	20.54	20.55	22	0
20	QPSK	1	99	20.68	20.47	20.74	20.38	20.37	22	0
20	QPSK	50	0	20.86	20.88	20.93	20.68	20.64	22	0
20	QPSK	50	24	20.80	20.59	20.92	20.52	20.55	22	0
20	QPSK	50	50	20.85	20.62	20.90	20.64	20.60	22	0
20	QPSK	100	0	20.81	20.73	20.91	20.68	20.63	22	0
20	16QAM	100	0	20.74	20.55	20.86	20.49	20.52	22	0
20	16QAM	1	49	20.88	20.86	20.93	20.62	20.59	22	0
20	16QAM	1	99	20.82	20.62	20.88	20.50	20.51	22	0
20	16QAM	50	0	20.83	20.64	20.93	20.61	20.62	22	0
20	16QAM	50	24	20.85	20.65	20.91	20.58	20.53	22	0
20	16QAM	50	50	20.84	20.68	20.92	20.57	20.58	22	0
20	16QAM	100	0	20.83	20.57	20.90	20.44	20.52	22	0
20	64QAM	1	0	20.54	20.39	20.58	20.26	20.24	22	0
20	64QAM	1	49	20.69	20.					



Band 41_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.74	20.69	20.80	20.72	20.74	22.2	0
20	QPSK	1	49	20.63	20.63	20.68	20.63	20.58		
20	QPSK	1	99	20.51	20.57	20.60	20.49	20.49		
20	QPSK	50	0	20.74	20.72	20.78	20.73	20.70		
20	QPSK	50	24	20.69	20.66	20.77	20.70	20.66	22.2	0
20	QPSK	50	50	20.64	20.64	20.75	20.69	20.67		
20	QPSK	100	0	20.64	20.60	20.71	20.67	20.60		
20	16QAM	1	0	20.56	20.51	20.62	20.55	20.51		
20	16QAM	1	49	20.50	20.63	20.72	20.66	20.68	22.2	0
20	16QAM	1	99	20.63	20.64	20.75	20.66	20.71		
20	16QAM	50	0	20.69	20.61	20.72	20.60	20.61		
20	16QAM	50	24	20.72	20.75	20.79	20.71	20.70	22.2	0
20	16QAM	50	50	20.67	20.62	20.72	20.62	20.66		
20	16QAM	100	0	20.65	20.66	20.74	20.64	20.66		
20	64QAM	1	0	20.29	20.31	20.37	20.28	20.28		
20	64QAM	1	49	20.51	20.51	20.55	20.50	20.49	22.2	0
20	64QAM	1	99	20.45	20.44	20.48	20.37	20.45		
20	64QAM	50	0	20.61	20.60	20.71	20.68	20.65		
20	64QAM	50	24	20.75	20.73	20.79	20.67	20.71	21.7	0.5
20	64QAM	50	50	20.60	20.60	20.71	20.62	20.67		
20	64QAM	100	0	20.66	20.67	20.73	20.70	20.66		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.62	20.62	20.72	20.60	20.71	22.2	0
15	QPSK	1	37	20.57	20.51	20.62	20.58	20.52		
15	QPSK	1	74	20.44	20.52	20.56	20.41	20.38		
15	QPSK	36	0	20.71	20.70	20.71	20.69	20.58	22.2	0
15	QPSK	36	20	20.65	20.55	20.65	20.59	20.60		
15	QPSK	36	39	20.55	20.53	20.72	20.62	20.58		
15	QPSK	75	0	20.60	20.51	20.66	20.64	20.48		
15	16QAM	1	0	20.49	20.45	20.59	20.52	20.43		
15	16QAM	1	37	20.50	20.56	20.60	20.55	20.60	22.2	0
15	16QAM	1	74	20.57	20.59	20.63	20.56	20.65		
15	16QAM	36	0	20.65	20.56	20.67	20.49	20.57		
15	16QAM	36	20	20.60	20.65	20.69	20.68	20.59	22.2	0
15	16QAM	36	39	20.58	20.56	20.66	20.54	20.60		
15	16QAM	75	0	20.55	20.61	20.69	20.59	20.61		
15	64QAM	1	0	20.20	20.25	20.33	20.21	20.21		
15	64QAM	1	37	20.41	20.44	20.43	20.45	20.39	22.2	0
15	64QAM	1	74	20.34	20.42	20.42	20.29	20.42		
15	64QAM	36	0	20.57	20.54	20.63	20.56	20.57		
15	64QAM	36	20	20.72	20.64	20.68	20.57	20.59	21.7	0.5
15	64QAM	36	39	20.58	20.51	20.59	20.50	20.59		
15	64QAM	75	0	20.61	20.62	20.62	20.64	20.59		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.70	20.57	20.72	20.65	20.62	22.2	0
10	QPSK	1	25	20.63	20.52	20.62	20.52	20.49		
10	QPSK	1	49	20.42	20.51	20.49	20.46	20.40		
10	QPSK	25	0	20.62	20.66	20.68	20.65	20.66		
10	QPSK	25	12	20.62	20.63	20.72	20.62	20.59	22.2	0
10	QPSK	25	25	20.61	20.55	20.65	20.59	20.55		
10	QPSK	50	0	20.61	20.48	20.64	20.60	20.51		
10	16QAM	1	0	20.44	20.44	20.54	20.52	20.46	22.2	0
10	16QAM	1	25	20.57	20.57	20.62	20.55	20.59		
10	16QAM	1	49	20.57	20.54	20.64	20.57	20.59		
10	16QAM	25	0	20.58	20.50	20.61	20.57	20.51		
10	16QAM	25	12	20.65	20.63	20.76	20.62	20.58	22.2	0
10	16QAM	25	25	20.57	20.59	20.66	20.56	20.58		
10	16QAM	50	0	20.61	20.60	20.65	20.55	20.63		
10	64QAM	1	0	20.22	20.21	20.30	20.24	20.25		
10	64QAM	1	25	20.42	20.48	20.47	20.41	20.44	22.2	0
10	64QAM	1	49	20.41	20.41	20.45	20.32	20.33		
10	64QAM	25	0	20.51	20.56	20.63	20.58	20.56		
10	64QAM	25	12	20.68	20.65	20.67	20.55	20.62	21.7	0.5
10	64QAM	25	25	20.50	20.55	20.66	20.57	20.59		
10	64QAM	50	0	20.66	20.62	20.66	20.66	20.54		
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
5	QPSK	1	0	20.66	20.61	20.76	20.68	20.71	22.2	0
5	QPSK	1	12	20.59	20.60	20.64	20.54	20.55		
5	QPSK	1	24	20.40	20.46	20.53	20.41	20.37		
5	QPSK	12	0	20.70	20.63	20.68	20.64	20.60		
5	QPSK	12	7	20.64	20.58	20.72	20.64	20.56	22.2	0
5	QPSK	12	13	20.52	20.54	20.65	20.58	20.57		
5	QPSK	25	0	20.59	20.56	20.63	20.55	20.52		
5	16QAM	1	0	20.46	20.46	20.53	20.46	20.45		
5	16QAM	1	12	20.52	20.53	20.66	20.57	20.59	22.2	0
5	16QAM	1	24	20.53	20.59	20.69	20.57	20.59		
5	16QAM	12	0	20.59	20.50	20.60	20.48	20.49		
5	16QAM	12	7	20.68	20.70	20.72	20.63	20.59	22.2	0
5	16QAM	12	13	20.80	20.53	20.62	20.53	20.63		
5	16QAM	25	0	20.56	20.60	20.68	20.58	20.55		
5	64QAM	1	0	20.23	20.28	20.34	20.23	20.21		
5	64QAM	1	12	20.44	20.42	20.50	20.41	20.41	22.2	0
5	64QAM	1	24	20.35	20.36	20.45	20.27	20.33		
5	64QAM	12	0	20.56	20.52	20.61	20.57	20.56		
5	64QAM	12	7	20.70	20.69	20.73	20.59	20.59	21.7	0.5
5	64QAM	12	13	20.58	20.55	20.61	20.57	20.56		
5	64QAM	25	0	20.59	20.58	20.61	20.65	20.59		

Band 41_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.46	23.31	23.33	23.38	23.50	24.5	0
20	QPSK	1	49	23.30	23.31	23.41	23.37	23.28		
20	QPSK	1	99	23.31	23.31	23.31	23.36	23.21	23.24	0
20	QPSK	50	0	22.42	22.35	22.53	22.45	22.46		
20	QPSK	50	24	22.38	22.34	22.46	22.46	22.32	23.5	1
20	QPSK	50	50	22.32	22.27	22.39	22.32	22.33		
20	QPSK	100	0	22.36	22.36	22.49	22.40	22.42		
20	16QAM	1	0	22.53	22.30	22.55	22.39	22.51		
20	16QAM	1	49	22.38	22.42	22.37	22.42	22.39	23.5	1
20	16QAM	1	99	22.45	22.42	22.46	22.45	22.43		
20	16QAM	50	0	21.48	21.35	21.54	21.47	21.48		
20	16QAM	50	24	21.43	21.38	21.36	21.43	21.42	22.5	2
20	16QAM	50	50	21.35	21.37	21.39	21.30	21.32		
20	16QAM	100	0	21.46	21.30	21.52	21.40	21.54		
20	64QAM	1	0	21.22	21.07	21.29	21.14	21.32		
20	64QAM	1	49	21.16	21.12	21.10	21.08	21.11	22.5	2
20	64QAM	1	99	21.21	21.22	21.20	21.21	21.23		
20	64QAM	50	0	20.41	20.30	20.52	20.46	20.46		
20	64QAM	50	24	20.44	20.43	20.37	20.41	20.38	21.5	3
20	64QAM	50</								



DS11

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		824.2	836.4	848.8		
TX Channel	524.2	836.4	848.8	512	861	810	524.2	836.4	848.8
Frequency (MHz)	524.2	836.4	848.8	512	861	810	524.2	836.4	848.8
GSM 1 Tx slot	32.70	32.74	32.72	33.50	23.70	23.74	23.72	24.50	
GPRS 1 Tx slot	32.66	32.68	32.69	33.50	23.66	23.68	23.69	24.50	
GPRS 2 Tx slots	30.19	30.14	30.22	30.50	24.19	24.14	24.22	24.50	
GPRS 3 Tx slots	28.35	28.33	28.36	28.70	24.09	24.07	24.10	24.44	
GPRS 4 Tx slots	26.59	26.96	26.92	27.50	23.59	23.96	23.92	24.50	
EDGE 1 Tx slot	26.61	26.66	26.61	27.50	17.61	17.66	17.61	18.50	
EDGE 2 Tx slots	23.65	23.67	23.64	24.50	17.65	17.67	17.64	18.50	
EDGE 3 Tx slots	21.73	21.78	21.71	22.70	17.47	17.52	17.45	18.44	
EDGE 4 Tx slots	20.94	20.97	20.88	21.50	17.94	17.97	17.88	18.50	

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		824.2	836.4	848.8		
TX Channel	524.2	836.4	848.8	512	861	810	524.2	836.4	848.8
Frequency (MHz)	524.2	836.4	848.8	512	861	810	524.2	836.4	848.8
GSM 1 Tx slot	32.58	32.43	32.37	33.50	23.58	23.43	23.37	24.50	
GPRS 1 Tx slot	32.56	32.41	32.34	33.50	23.56	23.41	23.34	24.50	
GPRS 2 Tx slots	29.92	29.77	29.76	30.50	23.92	23.77	23.76	24.50	
GPRS 3 Tx slots	28.07	27.96	27.93	28.70	23.81	23.70	23.67	24.44	
GPRS 4 Tx slots	26.71	26.73	26.58	27.50	23.71	23.73	23.58	24.50	
EDGE 1 Tx slot	26.23	26.31	26.27	27.50	17.23	17.31	17.27	18.00	
EDGE 2 Tx slots	23.30	23.36	23.32	24.00	17.30	17.36	17.32	18.00	
EDGE 3 Tx slots	21.44	21.42	21.38	22.20	17.18	17.16	17.12	17.84	
EDGE 4 Tx slots	20.47	20.56	20.43	21.00	17.47	17.56	17.43	18.00	

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		850.2	860	809.8		
TX Channel	1850.2	1880	1909.8	512	861	810	1850.2	1880	1909.8
Frequency (MHz)	1850.2	1880	1909.8	512	861	810	1850.2	1880	1909.8
GSM 1 Tx slot	29.38	29.48	29.46	30.50	20.38	20.48	20.46	21.50	
GPRS 1 Tx slot	29.35	29.44	29.42	30.50	20.35	20.44	20.42	21.50	
GPRS 2 Tx slots	26.93	27.01	26.99	27.50	20.93	21.01	20.99	21.50	
GPRS 3 Tx slots	25.14	25.26	25.22	25.70	20.88	21.00	20.86	21.44	
GPRS 4 Tx slots	23.84	23.93	23.89	24.50	20.84	20.93	20.89	21.50	
EDGE 1 Tx slot	26.61	26.66	26.61	27.50	16.75	16.86	16.66	17.50	
EDGE 2 Tx slots	22.31	22.26	22.28	23.50	16.31	16.26	16.28	17.50	
EDGE 3 Tx slots	20.02	19.97	19.97	21.70	15.76	15.65	15.71	17.44	
EDGE 4 Tx slots	19.11	19.04	19.06	20.50	16.11	16.04	16.06	17.50	

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		850.2	860	809.8		
TX Channel	1850.2	1880	1909.8	512	861	810	1850.2	1880	1909.8
Frequency (MHz)	1850.2	1880	1909.8	512	861	810	1850.2	1880	1909.8
GSM 1 Tx slot	29.40	29.56	29.51	30.50	20.40	20.56	20.51	21.50	
GPRS 1 Tx slot	29.39	29.52	29.50	30.50	20.39	20.52	20.50	21.50	
GPRS 2 Tx slots	26.95	27.05	27.02	27.50	20.95	21.05	21.02	21.50	
GPRS 3 Tx slots	25.18	25.30	25.28	25.70	20.92	21.04	21.02	21.44	
GPRS 4 Tx slots	23.86	23.97	23.95	24.50	20.86	20.97	20.95	21.50	
EDGE 1 Tx slot	26.03	26.91	26.97	28.50	17.03	16.91	16.97	17.50	
EDGE 2 Tx slots	22.86	22.36	22.53	23.50	16.66	16.38	16.53	17.50	
EDGE 3 Tx slots	20.17	19.95	20.12	21.70	15.91	15.69	15.86	17.44	
EDGE 4 Tx slots	19.32	19.24	19.31	20.50	16.32	16.24	16.31	17.50	

Band	TX Channel	Rx Channel	WCDMA U_Ant 0			Tune-up Limit (dBm)	WCDMA U_Ant 2			Tune-up Limit (dBm)
			9202	9500	9538		9202	9400	9538	
3GPP Rel 99	AMR 12.2Kbps	1852.4	1880	1907.6	22.00	22.57	22.56	22.51	23.50	
3GPP Rel 99	RMC 12.2Kbps	21.43	21.51	21.50	22.00	22.58	22.59	22.53	23.50	
3GPP Rel 6	HSDPA Subtest-1	20.30	20.63	20.51	21.00	21.70	21.59	21.56	22.50	
3GPP Rel 6	HSDPA Subtest-2	20.63	20.60	20.59	21.00	21.64	21.56	21.53	22.50	
3GPP Rel 6	HSDPA Subtest-3	19.89	20.04	19.86	20.50	21.18	21.10	21.06	22.00	
3GPP Rel 6	HSDPA Subtest-4	20.01	20.21	19.85	20.50	21.13	21.04	21.02	22.00	
3GPP Rel 6	DC-HSDPA Subtest-1	20.80	20.61	20.71	21.00	21.41	21.42	21.40	22.50	
3GPP Rel 6	DC-HSDPA Subtest-2	20.43	20.52	20.61	21.00	21.32	21.35	21.31	22.50	
3GPP Rel 6	DC-HSDPA Subtest-3	20.05	20.02	19.90	20.50	20.78	20.87	20.82	22.00	
3GPP Rel 6	DC-HSDPA Subtest-4	19.99	20.09	20.03	20.50	20.73	20.86	20.81	22.00	
3GPP Rel 6	HSUPA Subtest-1	20.48	20.57	20.63	21.00	21.64	21.58	21.59	22.50	
3GPP Rel 6	HSUPA Subtest-2	18.42	18.73	18.58	19.00	19.64	19.55	19.56	20.00	
3GPP Rel 6	HSUPA Subtest-3	19.72	19.62	19.58	20.00	20.64	20.63	20.62	21.50	
3GPP Rel 6	HSUPA Subtest-4	18.44	18.50	18.48	19.00	19.17	19.08	19.12	20.50	
3GPP Rel 6	HSUPA Subtest-5	20.70	20.65	20.62	21.00	21.60	21.60	21.50	22.50	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.80	18.29	17.89	18.50	18.57	18.72	18.64	20.00	

Band	TX Channel	Rx Channel	WCDMA M_Ant 0			Tune-up Limit (dBm)	WCDMA M_Ant 2			Tune-up Limit (dBm)
			1312	1413	1513		1312	1413	1513	
3GPP Rel 99	AMR 12.2Kbps	1712.4	1722.6	1752.6	21.00	23.64	23.71	23.68	25.00	
3GPP Rel 99	RMC 12.2Kbps	20.18	20.20	20.19	21.00	23.67	23.76	23.74	25.00	
3GPP Rel 6	HSDPA Subtest-1	19.10	19.15	19.18	20.00	22.95	23.04	23.00	24.00	
3GPP Rel 6	HSDPA Subtest-2	19.11	19.13	19.17	20.00	22.91	22.96	23.03	24.00	
3GPP Rel 6	HSDPA Subtest-3	18.67	18.71	18.70	19.50	22.43	22.35	22.38	23.50	
3GPP Rel 6	HSDPA Subtest-4	18.57	18.64	18.63	19.50	22.28	22.54	22.35	23.50	
3GPP Rel 6	DC-HSDPA Subtest-1	18.82	18.66	18.64	20.00	23.08	23.14	23.09	24.00	
3GPP Rel 6	DC-HSDPA Subtest-2	18.83	18.67	18.62	20.00	22.78	22.98	22.90	24.00	
3GPP Rel 6	DC-HSDPA Subtest-3	18.07	18.11	18.12	19.50	22.52	22.50	22.41	23.50	
3GPP Rel 6	DC-HSDPA Subtest-4	18.05	18.13	18.11	19.50	22.26	22.58	22.48	23.50	
3GPP Rel 6	HSUPA Subtest-1	19.25	19.30	19.33	20.00	22.90	23.00	22.98	24.00	
3GPP Rel 6	HSUPA Subtest-2	17.26	17.31	17.34	18.00	20.96	21.19	21.00	22.00	
3GPP Rel 6	HSUPA Subtest-3	18.12	18.17	18.18	19.00	21.98	22.08	22.01	23.00	
3GPP Rel 6	HSUPA Subtest-4	16.77	16.86	16.84	18.00	20.83	20.90	21.05	22.00	
3GPP Rel 6	HSUPA Subtest-5	19.30	19.30	19.30	20.00	23.05	23.05	23.00	24.00	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.26	16.34	16.31	17.50	20.37	20.58	20.43	21.50	

Band	TX Channel	Rx Channel	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)
			4132	4182	4233		4132	4182	4233	
3GPP Rel 99	AMR 12.2Kbps	24.17	24.23	24.11	25.00	23.85	23.94	23.88	25.00	
3GPP Rel 99	RMC 12.2Kbps	24.28	24.31	24.25	25.00	23.97	24.01	23.95	25.00	
3GPP Rel 6	HSDPA Subtest-1	23.22	23.36	23.39	24.00	22.81	22.93	23.08	24.00	
3GPP Rel 6	HSDPA Subtest-2	23.38	23.29	23.28	24.00	23.03	22.96	23.03	24.00	
3GPP Rel 6	HSDPA Subtest-3	22.73	22.68	22.74	23.50	22.43	22.45	22.35	23.50	
3GPP Rel 6	HSDPA Subtest-4	22.63	22.81	22.59	23.50	22.46	22.62	22.39	23.50	
3GPP Rel 6	DC-HSDPA Subtest-1	23.38	23.37	23.30	24.00	22.82	23.00	23.10	24.00	
3GPP Rel 6	DC-HSDPA Subtest-2	23.13	23.40	23.25	24.00	22.91	23.15	22.91	24.00	
3GPP Rel 6	DC-HSDPA Subtest-3	22.84	22.92	22.74	23.50	22.46	22.59	22.42	23.50	
3GPP Rel 6	DC-HSDPA Subtest-4	22.70	22.88	22.61	23.50	22.36	22.59	22.33	23.50	
3GPP Rel 6	HSUPA Subtest-1	23.26	23.30	23.24	24.00	22.81	23.08	22.97	24.00	
3GPP Rel 6	HSUPA Subtest-2	21.08	21.37	21.41	22.00	20.84	21.13	21.06	22.00	
3GPP Rel 6	HSUPA Subtest-3	22.42	22.37	22.17	23.00	21.99	22.07	21.83	23.00	
3GPP Rel 6	HSUPA Subtest-4	21.16	21.27	21.24	22.00	20.86	21.00	21.04	22.00	
3GPP Rel 6	HSUPA Subtest-5	23.42	23.38	23.32	24.00	23.08	22.99	22.95	24.00	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.76	20.90	20.70	21.50	20.40	20.61	20.52	21.50	



Band 2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	21.91	22.01	21.74			
20	QPSK	1	49	21.74	21.85	21.63	22.5	0	
20	QPSK	1	99	21.66	21.65	21.58			
20	QPSK	50	0	21.66	21.96	21.70			
20	QPSK	50	24	21.85	21.92	21.64	22.5	0	
20	QPSK	50	50	21.82	21.84	21.60			
20	QPSK	100	0	21.74	21.88	21.68			
20	16QAM	1	0	21.82	21.76	21.57			
20	16QAM	1	49	21.86	21.80	21.70	22.5	0	
20	16QAM	1	99	21.71	21.64	21.46			
20	16QAM	50	0	21.30	21.39	21.09			
20	16QAM	50	24	21.34	21.33	21.06	22	0.5	
20	16QAM	50	50	21.36	21.32	21.05			
20	16QAM	100	0	21.34	21.20	21.17			
20	64QAM	1	0	21.35	21.37	21.26			
20	64QAM	1	49	21.42	21.45	21.27	22	0.5	
20	64QAM	1	99	21.20	21.15	21.31			
20	64QAM	50	0	20.27	20.39	20.15			
20	64QAM	50	24	20.35	20.34	20.09	21	1.5	
20	64QAM	50	50	20.33	20.26	19.98			
20	64QAM	100	0	20.35	20.27	20.09			
Channel				18975	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1880	1902.5			
15	QPSK	1	0	21.75	21.95	21.62	22.5	0	
15	QPSK	1	37	21.71	21.75	21.58			
15	QPSK	1	74	21.57	21.60	21.50			
15	QPSK	36	0	21.90	21.89	21.54			
15	QPSK	36	39	21.82	21.83	21.51	22.5	0	
15	QPSK	36	39	21.72	21.80	21.54			
15	QPSK	75	0	21.64	21.78	21.63			
15	16QAM	1	0	21.78	21.70	21.56			
15	16QAM	1	37	21.75	21.73	21.65	22.5	0	
15	16QAM	1	74	21.69	21.54	21.46			
15	16QAM	36	0	21.19	21.31	21.05			
15	16QAM	36	20	21.32	21.29	20.95	22	0.5	
15	16QAM	36	39	21.25	21.28	20.98			
15	16QAM	75	0	21.22	21.08	21.07			
15	64QAM	1	0	21.23	21.31	21.21			
15	64QAM	1	37	21.40	21.37	21.34	22	0.5	
15	64QAM	1	74	21.15	21.08	21.20			
15	64QAM	36	0	20.21	20.29	20.13			
15	64QAM	36	20	20.33	20.27	20.00	21	1.5	
15	64QAM	36	39	20.25	20.24	19.92			
15	64QAM	75	0	20.24	20.22	20.06			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	0	21.79	21.94	21.71	22.5	0	
10	QPSK	1	25	21.75	21.77	21.54			
10	QPSK	1	49	21.63	21.58	21.50			
10	QPSK	25	0	21.81	21.92	21.63			
10	QPSK	25	12	21.74	21.82	21.63	22.5	0	
10	QPSK	25	25	21.71	21.77	21.58			
10	QPSK	50	0	21.71	21.85	21.62			
10	16QAM	1	0	21.71	21.96	21.48	22.5	0	
10	16QAM	1	25	21.84	21.70	21.67			
10	16QAM	1	49	21.64	21.55	21.43			
10	16QAM	25	0	21.18	21.37	21.04			
10	16QAM	25	12	21.23	21.29	21.02	22	0.5	
10	16QAM	25	25	21.34	21.20	21.04			
10	16QAM	50	0	21.32	21.17	21.08			
10	64QAM	1	0	21.30	21.31	21.24	22	0.5	
10	64QAM	1	25	21.30	21.39	21.33			
10	64QAM	1	49	21.13	21.08	21.10			
10	64QAM	25	0	20.22	20.34	20.12			
10	64QAM	25	12	20.33	20.23	20.08	21	1.5	
10	64QAM	25	25	20.28	20.16	19.95			
10	64QAM	50	0	20.33	20.15	20.08			
Channel				18925	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1907.5			
5	QPSK	1	0	21.74	21.89	21.69	22.5	0	
5	QPSK	1	12	21.69	21.77	21.56			
5	QPSK	1	24	21.56	21.56	21.55			
5	QPSK	12	0	21.90	21.84	21.63			
5	QPSK	12	7	21.78	21.81	21.55	22.5	0	
5	QPSK	12	13	21.77	21.73	21.54			
5	QPSK	25	0	21.72	21.76	21.60			
5	16QAM	1	0	21.74	21.66	21.55			
5	16QAM	1	12	21.83	21.77	21.66	22.5	0	
5	16QAM	1	24	21.64	21.54	21.44			
5	16QAM	12	0	21.28	21.28	21.05			
5	16QAM	12	7	21.27	21.31	21.03	22	0.5	
5	16QAM	12	13	21.33	21.27	20.97			
5	16QAM	25	0	21.24	21.17	21.11			
5	64QAM	1	0	21.25	21.27	21.22			
5	64QAM	1	12	21.30	21.36	21.33	22	0.5	
5	64QAM	1	24	21.10	21.05	21.12			
5	64QAM	12	0	20.19	20.33	20.10			
5	64QAM	12	7	20.32	20.27	19.97	21	1.5	
5	64QAM	12	13	20.26	20.18	19.92			
5	64QAM	25	0	20.24	20.20	20.00			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1861.5	1880	1906.5			
3	QPSK	1	0	21.71	21.96	21.72	22.5	0	
3	QPSK	1	8	21.87	21.80	21.52			
3	QPSK	1	14	21.54	21.55	21.47			
3	QPSK	8	0	21.80	21.89	21.59			
3	QPSK	8	4	21.80	21.91	21.55	22.5	0	
3	QPSK	8	7	21.76	21.83	21.51			
3	QPSK	15	0	21.63	21.78	21.60			
3	16QAM	1	0	21.71	21.69	21.56	22.5	0	
3	16QAM	1	8	21.83	21.76	21.63			
3	16QAM	1	14	21.64	21.55	21.38			
3	16QAM	8	0	21.18	21.33	21.02			
3	16QAM	8	4	21.27	21.25	20.98	22	0.5	
3	16QAM	8	7	21.24	21.22	21.04			
3	16QAM	15	0	21.22	21.15	21.16			
3	64QAM	1	0	21.32	21.36	21.21	22	0.5	
3	64QAM	1	8	21.33	21.34	21.29			
3	64QAM	1	14	21.16	21.12	21.18			
3	64QAM	8	0	20.16	20.30	20.14			
3	64QAM	8	4	20.23	20.31	20.02	21	1.5	
3	64QAM	8	7	20.25	20.21	19.89			
3	64QAM	15	0	20.33	20.20	20.02			
Channel				18907	18900	19190	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1890.7	1880	1909.3			
1.4	QPSK	1	0	21.74	22.00	21.64	22.5	0	
1.4	QPSK	1	3	21.71	21.80	21.56			
1.4	QPSK	1	5	21.60	21.63	21.57			
1.4	QPSK	3	0	21.66	21.96	21.58			
1.4	QPSK	3	1	21.66	21.79	21.53	22.5	0	
1.4	QPSK	3	3	21.59	21.53	21.52			
1.4	QPSK	6	0	21.63	21.77	21.57	22.5	0	
1.4	16QAM	1	0	21.77	21.64	21.47			
1.4	16QAM	1	3	21.76	21.78	21.61			
1.4	16QAM	1	5	21.84	21.62	21.37	22.5	0	
1.4	16QAM	3	0	21.66	21.55	21.35			
1.4	16QAM	3	1	21.72	21.72	21.57			
1.4	16QAM	3	1	21.53	21.57	21.33			
1.4	16QAM	6	0	21.32	21.13	21.14	22	0.5	
1.4	64QAM	1	0	21.24	21.34	21.18			
1.4	64QAM	1	3	21.31	21.37	21.35			
1.4	64QAM	1	5	21.16	21.11	21.14	22	0.5	
1.4	64QAM	3	0	21.16	21.24	21.13			
1.4	64QAM	3	1	21.25	21.35	21.27			
1.4	64QAM	3	3	21.07	20.99	21.14			
1.4	64QAM	6	0	20.23	20.19	19.98	21	1.5	

Band 2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	16.63	16.66	16.54			
20	QPSK	1	49	16.45	16.61	16.48	17.7	0	
20	QPSK	1	99	16.45	16.51	16.48			
20	QPSK	50	0	16.61	16.65	16.60			
20	QPSK	50	24	16.54	16.64	16.56	17.7	0	
20	QPSK	50	50	16.51	16.59	16.49			
20	QPSK	100	0	16.51	16.61	16.58			
20	16QAM	1	0	16.62	16.65	16.55			
20	16QAM	1	49	16.53	16.64	16.58	17.7	0	
20	16QAM	1	99	16.53	16.65	16.53			
20	16QAM	50	0	16.59	16.63	16.55			
20	16QAM	50	24	16.58	16.65	16.62	17.7	0	
20	16QAM	50	50	16.57	16.61	16.49			
20	16QAM	100	0	16.56	16.61	16.52			
20	64QAM	1	0	16.57	16.65	16.54			
20	64QAM	1	49	16.52	16.64	16.59	17.7	0	
20	64								



Band 4_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	18.02	18.19	18.15	19	0	
20	QPSK	1	49	18.00	18.18	18.08			20.6
20	QPSK	1	99	17.82	17.91	17.81			20.6
20	QPSK	50	0	18.05	18.12	18.04			20.6
20	QPSK	50	24	18.01	18.11	18.03			20.6
20	QPSK	50	50	17.98	18.10	18.00			20.6
20	QPSK	100	0	17.99	18.06	18.01			20.6
20	16QAM	1	0	18.12	18.15	18.04			20.6
20	16QAM	1	49	18.04	18.16	18.12			20.6
20	16QAM	1	99	18.08	18.11	18.05			20.6
20	16QAM	50	0	18.04	18.10	18.00			20.6
20	16QAM	50	24	18.05	18.08	18.05			20.6
20	16QAM	50	50	17.99	18.10	18.04			20.6
20	16QAM	100	0	17.98	18.04	18.00			20.6
20	64QAM	1	0	18.01	18.10	17.98			20.6
20	64QAM	1	49	18.06	18.10	18.01			20.6
20	64QAM	1	99	18.04	18.07	17.95			20.6
20	64QAM	50	0	18.01	18.06	17.97			20.6
20	64QAM	50	24	18.03	18.11	18.06			20.6
20	64QAM	50	50	17.98	18.04	18.00			20.6
20	64QAM	100	0	17.98	18.05	17.96			20.6
Channel				20025	20175	20325			
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	17.99	18.10	18.03	19	0	
15	QPSK	1	37	17.89	18.08	18.04			20.6
15	QPSK	1	74	17.72	17.84	17.73			20.6
15	QPSK	36	0	17.94	18.00	17.94			20.6
15	QPSK	36	20	17.95	17.99	17.99			20.6
15	QPSK	36	39	17.89	18.00	17.96			20.6
15	QPSK	75	0	17.89	18.03	17.92			20.6
15	16QAM	1	0	18.05	18.06	17.93			20.6
15	16QAM	1	37	18.00	18.10	18.00			20.6
15	16QAM	1	74	17.98	18.00	18.02			20.6
15	16QAM	36	0	17.92	18.01	17.98			20.6
15	16QAM	36	20	18.01	18.02	17.94			20.6
15	16QAM	36	39	17.93	18.06	17.92			20.6
15	16QAM	75	0	17.85	17.99	17.89			20.6
15	64QAM	1	0	17.98	18.05	17.93			20.6
15	64QAM	1	37	17.84	17.98	17.89			20.6
15	64QAM	1	74	17.98	17.96	17.97			20.6
15	64QAM	36	0	17.90	17.96	17.87			20.6
15	64QAM	36	20	17.93	18.01	18.00			20.6
15	64QAM	36	39	17.90	17.92	17.93			20.6
15	64QAM	75	0	17.89	17.93	17.90			20.6
Channel				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	17.88	18.15	18.05	19	0	
10	QPSK	1	25	17.90	18.06	18.00			20.6
10	QPSK	1	49	17.70	17.79	17.70			20.6
10	QPSK	25	0	17.99	18.01	17.93			20.6
10	QPSK	25	12	17.96	18.08	17.97			20.6
10	QPSK	25	25	17.91	18.00	17.92			20.6
10	QPSK	50	0	17.96	17.97	17.96			20.6
10	16QAM	1	0	18.02	18.11	17.92			20.6
10	16QAM	1	25	17.93	18.12	18.00			20.6
10	16QAM	1	49	18.05	18.05	17.97			20.6
10	16QAM	25	0	17.96	18.05	17.92			20.6
10	16QAM	25	12	17.98	17.96	17.97			20.6
10	16QAM	25	25	17.96	18.06	17.95			20.6
10	16QAM	50	0	17.82	17.94	17.90			20.6
10	64QAM	1	0	17.97	18.02	17.93			20.6
10	64QAM	1	25	18.02	18.01	17.97			20.6
10	64QAM	1	49	17.93	17.95	17.83			20.6
10	64QAM	25	0	17.96	18.03	17.94			20.6
10	64QAM	25	12	17.92	18.06	18.03			20.6
10	64QAM	25	25	17.91	17.93	17.96			20.6
10	64QAM	50	0	17.90	18.03	17.94			20.6
Channel				19975	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	17.96	18.09	18.09	19	0	
5	QPSK	1	12	17.95	18.08	18.00			20.6
5	QPSK	1	24	17.70	17.80	17.75			20.6
5	QPSK	12	0	17.97	18.03	17.97			20.6
5	QPSK	12	7	17.87	18.04	17.97			20.6
5	QPSK	12	13	17.90	18.04	17.92			20.6
5	QPSK	25	0	17.93	17.98	17.96			20.6
5	16QAM	1	0	18.08	18.10	17.95			20.6
5	16QAM	1	12	17.99	18.09	18.06			20.6
5	16QAM	1	24	18.02	18.05	17.95			20.6
5	16QAM	12	0	17.99	18.03	17.91			20.6
5	16QAM	12	7	17.99	18.00	17.95			20.6
5	16QAM	12	13	17.92	18.02	17.93			20.6
5	16QAM	25	0	17.86	17.96	17.84			20.6
5	64QAM	1	0	17.93	18.07	17.94			20.6
5	64QAM	1	12	17.97	17.99	17.91			20.6
5	64QAM	1	24	17.83	17.97	17.90			20.6
5	64QAM	12	0	17.98	17.96	17.96			20.6
5	64QAM	12	7	17.99	18.00	17.98			20.6
5	64QAM	12	13	17.84	17.95	17.92			20.6
5	64QAM	25	0	17.95	17.97	17.84			20.6
Channel				19955	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	17.99	18.12	18.05	19	0	
3	QPSK	1	8	17.88	18.00	17.97			20.6
3	QPSK	1	14	17.73	17.88	17.76			20.6
3	QPSK	8	0	17.97	18.00	17.98			20.6
3	QPSK	8	4	17.98	18.08	17.97			20.6
3	QPSK	8	7	17.89	18.01	17.94			20.6
3	QPSK	15	0	17.95	17.96	17.92			20.6
3	16QAM	1	0	18.06	18.03	17.92			20.6
3	16QAM	1	8	17.96	18.05	18.02			20.6
3	16QAM	1	14	18.00	18.01	18.02			20.6
3	16QAM	8	0	17.94	18.07	17.92			20.6
3	16QAM	8	4	17.97	18.02	17.93			20.6
3	16QAM	8	7	17.89	18.02	17.97			20.6
3	16QAM	15	0	17.90	18.01	17.89			20.6
3	64QAM	1	0	17.91	18.06	17.95			20.6
3	64QAM	1	8	17.99	18.07	17.93			20.6
3	64QAM	1	14	17.92	18.04	17.92			20.6
3	64QAM	8	0	17.93	17.98	17.87			20.6
3	64QAM	8	4	17.99	18.01	17.96			20.6
3	64QAM	8	7	17.87	18.00	17.88			20.6
3	64QAM	15	0	17.92	17.99	17.89			20.6
Channel				19957	20175	20393			
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	18.02	18.09	18.09	19	0	
1.4	QPSK	1	3	17.95	18.01	18.00			20.6
1.4	QPSK	1	5	17.79	17.87	17.74			20.6
1.4	QPSK	3	0	17.95	18.06	17.93			20.6
1.4	QPSK	3	1	17.90	18.02	17.98			20.6
1.4	QPSK	3	3	17.92	18.01	17.96			20.6
1.4	QPSK	6	0	17.90	18.01	17.96			20.6
1.4	16QAM	1	0	18.09	18.08	17.92			20.6
1.4	16QAM	1	3	17.92	18.11	18.09			20.6
1.4	16QAM	1	5	18.03	18.03	17.97			20.6
1.4	16QAM	3	0	18.00	18.00	17.89			20.6
1.4	16QAM	3	1	17.88	17.97	17.95			20.6
1.4	16QAM	3	1	17.83	17.99	18.01			20.6
1.4	16QAM	6	0	17.87	17.93	17.90			20.6
1.4	64QAM	1	0	17.98	18.06	17.88			20.6
1.4	64QAM	1	3	18.00	18.01	17.89			20.6
1.4	64QAM	1	5	17.92	18.01	17.90			20.6
1.4	64QAM	3	0	17.95	17.98	17.94			20.6
1.4	64Q								



Band 4_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	21.14	21.34	21.13	22.1	0	
20	QPSK	1	49	21.04	21.24	20.97	22.1	0	
20	QPSK	1	99	20.87	20.99	20.85	22.1	0	
20	QPSK	50	0	21.13	21.24	21.11	22.1	0	
20	QPSK	50	24	21.03	21.23	21.09	22.1	0	
20	QPSK	50	50	21.04	21.19	21.05	22.1	0	
20	QPSK	100	0	21.10	21.20	21.12	22.1	0	
20	16QAM	1	0	21.11	21.28	21.16	22.1	0	
20	16QAM	1	49	21.11	21.33	21.19	22.1	0	
20	16QAM	1	99	21.17	21.31	21.15	22.1	0	
20	16QAM	50	0	21.12	21.20	21.07	22.1	0	
20	16QAM	50	24	21.11	21.24	21.07	22.1	0	
20	16QAM	50	50	21.09	21.20	21.03	22.1	0	
20	16QAM	100	0	21.02	21.16	20.99	22.1	0	
20	64QAM	1	0	21.18	21.26	21.14	22.1	0	
20	64QAM	1	49	21.17	21.31	21.17	22.1	0	
20	64QAM	1	99	20.99	21.18	20.98	22.1	0	
20	64QAM	50	0	21.09	21.22	21.07	22.1	0	
20	64QAM	50	24	21.03	21.25	21.09	22.1	0	
20	64QAM	50	50	21.08	21.19	21.09	22.1	0	
20	64QAM	100	0	21.05	21.17	20.99	22.1	0	
Channel				20025	20175	20325			
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	21.10	21.24	21.14	22.1	0	
15	QPSK	1	37	20.96	21.17	20.86	22.1	0	
15	QPSK	1	74	20.83	20.93	20.73	22.1	0	
15	QPSK	36	0	21.07	21.21	20.99	22.1	0	
15	QPSK	36	20	20.97	21.16	21.05	22.1	0	
15	QPSK	36	39	20.98	21.13	20.97	22.1	0	
15	QPSK	75	0	20.99	21.12	21.04	22.1	0	
15	16QAM	1	0	21.03	21.23	21.04	22.1	0	
15	16QAM	1	37	21.00	21.21	21.12	22.1	0	
15	16QAM	1	74	21.06	21.23	21.07	22.1	0	
15	16QAM	36	0	21.04	21.08	21.00	22.1	0	
15	16QAM	36	20	21.06	21.21	20.96	22.1	0	
15	16QAM	36	39	20.97	21.13	21.00	22.1	0	
15	16QAM	75	0	20.90	21.13	20.96	22.1	0	
15	64QAM	1	0	21.15	21.22	21.10	22.1	0	
15	64QAM	1	37	21.06	21.27	21.14	22.1	0	
15	64QAM	1	74	20.93	21.10	20.91	22.1	0	
15	64QAM	36	0	21.06	21.14	21.03	22.1	0	
15	64QAM	36	20	21.00	21.14	21.03	22.1	0	
15	64QAM	36	39	20.96	21.16	20.98	22.1	0	
15	64QAM	75	0	20.96	21.08	20.88	22.1	0	
Channel				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	21.07	21.25	21.09	22.1	0	
10	QPSK	1	25	21.00	21.15	20.98	22.1	0	
10	QPSK	1	49	20.75	20.92	20.74	22.1	0	
10	QPSK	25	0	21.07	21.18	21.02	22.1	0	
10	QPSK	25	12	20.91	21.15	20.99	22.1	0	
10	QPSK	25	25	21.01	21.14	20.94	22.1	0	
10	QPSK	50	0	21.02	21.14	21.04	22.1	0	
10	16QAM	1	0	21.05	21.17	21.10	22.1	0	
10	16QAM	1	25	20.99	21.30	21.07	22.1	0	
10	16QAM	1	49	21.13	21.24	21.06	22.1	0	
10	16QAM	25	0	21.03	21.09	21.00	22.1	0	
10	16QAM	25	12	21.00	21.21	20.98	22.1	0	
10	16QAM	25	25	21.00	21.16	20.96	22.1	0	
10	16QAM	50	0	20.96	21.13	20.90	22.1	0	
10	64QAM	1	0	21.10	21.19	21.08	22.1	0	
10	64QAM	1	25	21.14	21.28	21.13	22.1	0	
10	64QAM	1	49	20.92	21.15	20.95	22.1	0	
10	64QAM	25	0	21.05	21.14	21.02	22.1	0	
10	64QAM	25	12	20.93	21.13	21.04	22.1	0	
10	64QAM	25	25	20.96	21.15	21.03	22.1	0	
10	64QAM	50	0	21.02	21.13	20.90	22.1	0	
Channel				19975	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	21.11	21.23	21.11	22.1	0	
5	QPSK	1	12	20.98	21.08	20.91	22.1	0	
5	QPSK	1	24	20.80	20.96	20.77	22.1	0	
5	QPSK	12	0	21.01	21.21	21.03	22.1	0	
5	QPSK	12	7	20.99	21.11	21.01	22.1	0	
5	QPSK	12	13	20.94	21.14	21.01	22.1	0	
5	QPSK	25	0	21.00	21.09	21.01	22.1	0	
5	16QAM	1	0	20.99	21.22	21.04	22.1	0	
5	16QAM	1	12	21.03	21.23	21.13	22.1	0	
5	16QAM	1	24	21.08	21.25	21.05	22.1	0	
5	16QAM	12	0	21.00	21.08	20.99	22.1	0	
5	16QAM	12	7	21.00	21.18	20.97	22.1	0	
5	16QAM	12	13	20.97	21.15	20.92	22.1	0	
5	16QAM	25	0	20.90	21.13	20.96	22.1	0	
5	64QAM	1	0	21.06	21.22	21.08	22.1	0	
5	64QAM	1	12	21.12	21.27	21.08	22.1	0	
5	64QAM	1	24	20.88	21.11	20.89	22.1	0	
5	64QAM	12	0	20.99	21.13	20.98	22.1	0	
5	64QAM	12	7	20.94	21.14	21.04	22.1	0	
5	64QAM	12	13	21.01	21.14	20.97	22.1	0	
5	64QAM	25	0	20.99	21.12	20.87	22.1	0	
Channel				19955	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	21.08	21.25	21.08	22.1	0	
3	QPSK	1	8	20.98	21.16	20.93	22.1	0	
3	QPSK	1	14	20.83	20.95	20.82	22.1	0	
3	QPSK	8	0	21.07	21.15	21.00	22.1	0	
3	QPSK	8	4	20.92	21.20	20.97	22.1	0	
3	QPSK	8	7	20.96	21.16	20.99	22.1	0	
3	QPSK	15	0	21.00	21.08	21.02	22.1	0	
3	16QAM	1	0	21.06	21.21	21.13	22.1	0	
3	16QAM	1	8	21.07	21.25	21.14	22.1	0	
3	16QAM	1	14	21.14	21.25	21.05	22.1	0	
3	16QAM	8	0	21.00	21.11	20.96	22.1	0	
3	16QAM	8	4	21.00	21.21	20.99	22.1	0	
3	16QAM	8	7	21.02	21.15	20.97	22.1	0	
3	16QAM	15	0	20.96	21.08	20.87	22.1	0	
3	64QAM	1	0	21.07	21.10	21.10	22.1	0	
3	64QAM	1	8	21.05	21.25	21.08	22.1	0	
3	64QAM	1	14	20.99	21.13	20.98	22.1	0	
3	64QAM	8	0	21.05	21.18	20.95	22.1	0	
3	64QAM	8	4	20.98	21.21	21.04	22.1	0	
3	64QAM	8	7	21.02	21.14	21.03	22.1	0	
3	64QAM	15	0	20.97	21.08	20.90	22.1	0	
Channel				19957	20175	20383			
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	21.08	21.28	21.16	22.1	0	
1.4	QPSK	1	3	20.98	21.08	20.92	22.1	0	
1.4	QPSK	1	5	20.81	20.94	20.79	22.1	0	
1.4	QPSK	3	0	21.04	21.17	21.04	22.1	0	
1.4	QPSK	3	1	20.99	21.12	21.04	22.1	0	
1.4	QPSK	3	3	20.99	21.07	21.02	22.1	0	
1.4	QPSK	6	0	21.05	21.08	21.02	22.1	0	
1.4	16QAM	1	0	21.08	21.24	21.05	22.1	0	
1.4	16QAM	1	3	21.05	21.22	21.14	22.1	0	
1.4	16QAM	1	5	21.08	21.21	21.05	22.1	0	
1.4	16QAM	3	0	21.05	21.14	20.99	22.1	0	
1.4	16QAM	3	1	21.00	21.12	20.96	22.1	0	
1.4	16QAM	3	1	20.98	21.10	20.98	22.1	0	
1.4	16QAM	6	0	20.98	21.09	20.95	22.1	0	
1.4	64QAM	1	0	21.09	21.17	21.11	22.1	0	
1.4	64QAM	1	3	21.07	21.26				



Band 5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	24.32	24.44	24.51	25.5	0	
10	QPSK	1	25	24.37	24.42	24.34			
10	QPSK	1	49	24.24	24.36	24.32	24.5	1	
10	QPSK	25	0	23.30	23.39	23.35			
10	QPSK	25	12	23.27	23.32	23.21	24.5	1	
10	QPSK	25	25	23.18	23.30	23.20			
10	QPSK	50	0	23.22	23.32	23.22	24.5	1	
10	16QAM	1	0	23.43	23.52	23.48			
10	16QAM	1	25	23.31	23.38	23.34	23.5	2	
10	16QAM	1	49	23.33	23.38	23.37			
10	16QAM	25	0	22.33	22.36	22.31	23.5	2	
10	16QAM	25	12	22.19	22.25	22.20			
10	16QAM	25	25	22.24	22.29	22.19	23.5	2	
10	16QAM	50	0	22.23	22.35	22.28			
10	64QAM	1	0	22.34	22.47	22.41	22.5	3	
10	64QAM	1	25	22.17	22.32	22.30			
10	64QAM	1	49	22.20	22.38	22.35	22.5	3	
10	64QAM	25	0	21.28	21.37	21.34			
10	64QAM	25	12	21.15	21.24	21.22	22.5	3	
10	64QAM	25	25	21.17	21.26	21.29			
10	64QAM	50	0	21.35	21.30	21.28			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	24.26	24.32	24.29	25.5	0	
5	QPSK	1	12	24.23	24.37	24.20			
5	QPSK	1	24	24.17	24.25	24.20	24.5	1	
5	QPSK	12	0	23.16	23.32	23.25			
5	QPSK	12	7	23.17	23.23	23.13	24.5	1	
5	QPSK	12	13	23.03	23.22	23.13			
5	QPSK	25	0	23.17	23.28	23.09	24.5	1	
5	16QAM	1	0	23.34	23.38	23.41			
5	16QAM	1	12	23.28	23.29	23.22	23.5	2	
5	16QAM	1	24	23.20	23.27	23.29			
5	16QAM	12	0	22.22	22.25	22.26	23.5	2	
5	16QAM	12	7	22.10	22.22	22.14			
5	16QAM	12	13	22.20	22.14	22.11	22.5	3	
5	16QAM	25	0	22.16	22.26	22.16			
5	64QAM	1	0	22.30	22.36	22.37	22.5	2	
5	64QAM	1	12	22.12	22.22	22.19			
5	64QAM	1	24	22.11	22.26	22.28	22.5	3	
5	64QAM	12	0	21.22	21.32	21.25			
5	64QAM	12	7	21.04	21.19	21.17	22.5	3	
5	64QAM	12	13	21.02	21.22	21.25			
5	64QAM	25	0	21.28	21.17	21.18			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	24.32	24.30	24.32	25.5	0	
3	QPSK	1	8	24.30	24.37	24.21			
3	QPSK	1	14	24.12	24.29	24.22	24.5	1	
3	QPSK	8	0	23.22	23.32	23.25			
3	QPSK	8	4	23.15	23.18	23.14	23.5	2	
3	QPSK	8	7	23.14	23.23	23.05			
3	QPSK	15	0	23.18	23.24	23.11	23.5	1	
3	16QAM	1	0	23.35	23.49	23.38			
3	16QAM	1	8	23.24	23.29	23.20	23.5	2	
3	16QAM	1	14	23.24	23.25	23.33			
3	16QAM	8	0	22.21	22.21	22.20	23.5	2	
3	16QAM	8	4	22.10	22.21	22.07			
3	16QAM	8	7	22.13	22.15	22.13	23.5	2	
3	16QAM	15	0	22.11	22.30	22.15			
3	64QAM	1	0	22.29	22.32	22.30	22.5	3	
3	64QAM	1	8	22.12	22.24	22.20			
3	64QAM	1	14	22.12	22.31	22.24	22.5	3	
3	64QAM	8	0	21.17	21.33	21.25			
3	64QAM	8	4	21.02	21.10	21.13	22.5	3	
3	64QAM	8	7	21.05	21.13	21.16			
3	64QAM	15	0	21.30	21.23	21.15			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	24.25	24.31	24.38	25.5	0	
1.4	QPSK	1	3	24.32	24.27	24.25			
1.4	QPSK	1	5	24.11	24.30	24.22	24.5	1	
1.4	QPSK	3	0	24.21	24.24	24.22			
1.4	QPSK	3	1	24.12	24.13	24.12	24.5	1	
1.4	QPSK	3	3	24.08	24.18	24.04			
1.4	QPSK	6	0	23.10	23.17	23.18	23.5	2	
1.4	16QAM	1	0	23.33	23.44	23.43			
1.4	16QAM	1	3	23.27	23.34	23.30	23.5	1	
1.4	16QAM	1	5	23.27	23.31	23.22			
1.4	16QAM	3	0	23.16	23.25	23.15	23.5	2	
1.4	16QAM	3	1	23.01	23.17	23.09			
1.4	16QAM	3	3	23.06	23.17	23.08	22.5	2	
1.4	16QAM	6	0	22.08	22.24	22.18			
1.4	64QAM	1	0	22.27	22.33	22.34	23.5	2	
1.4	64QAM	1	3	22.11	22.28	22.21			
1.4	64QAM	1	5	22.12	22.32	22.21	22.5	3	
1.4	64QAM	3	0	22.11	22.23	22.25			
1.4	64QAM	3	1	21.98	22.07	22.04	22.5	3	
1.4	64QAM	3	3	22.03	22.18	22.15			
1.4	64QAM	6	0	21.31	21.16	21.21			

Band 5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.95	24.11	24.01	25.4	0	
10	QPSK	1	25	23.93	24.02	23.86			
10	QPSK	1	49	23.95	24.07	23.95	24.4	1	
10	QPSK	25	0	22.95	22.99	22.92			
10	QPSK	25	12	22.79	22.92	22.79	24.4	1	
10	QPSK	25	25	22.94	22.98	22.91			
10	QPSK	50	0	22.91	22.98	22.82	24.4	1	
10	16QAM	1	0	23.14	23.24	23.21			
10	16QAM	1	25	23.17	23.10	23.16	23.4	2	
10	16QAM	1	49	23.14	23.10	23.06			
10	16QAM	25	0	21.84	21.90	21.98	23.4	2	
10	16QAM	25	12	21.75	21.70	21.73			
10	16QAM	25	25	21.89	21.87	21.75	23.4	2	
10	16QAM	50	0	21.95	21.93	21.87			
10	64QAM	1	0	22.10	22.14	22.10	23.4	2	
10	64QAM	1	25	21.93	22.00	21.93			
10	64QAM	1	49	22.01	21.93	21.91	22.4	3	
10	64QAM	25	0	21.01	20.92	20.88			
10	64QAM	25	12	20.74	20.73	20.76	22.4	3	
10	64QAM	25	25	20.75	20.82	20.77			
10	64QAM	50	0	20.95	20.91	20.99			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.87	24.02	23.95	25.4	0	
5	QPSK	1	12	23.83	23.94	23.75			
5	QPSK	1	24	23.85	24.01	23.82	24.4	1	
5	QPSK	12	0	22.92	22.87	22.76			
5	QPSK	12	7	22.75	22.80	22.67	24.4	1	
5	QPSK	12	13	22.85	22.89	22.86			
5	QPSK	25	0	22.85	22.89	22.78	24.4	1	
5	16QAM	1	0	23.02	23.12	23.11			
5	16QAM	1	12	23.12	23.02	23.13	23.4	2	
5	16QAM	1	24	22.99	22.97	22.99			
5	16QAM	12	0	21.76	21.85	21.91	23.4	2	
5	16QAM	12	7	21.68	21.59	21.68			
5	16QAM	12	13	21.55	21.53	21.66	23.4	2	
5	16QAM	25	0	21.81	21.90	21.76			
5	64QAM	1	0	22.03	22.10	21.99	23.4	2	
5	64QAM	1	12	21.89	21.94	21.89			
5	64QAM	1	24	21.98	21.91	21.85	22.4	3	
5	64QAM	12	0	20.87	20.85	20.77			
5	64QAM	12	7	20.70	20.63	20.71	22.4	3	
5	64QAM	12	13	20.64	20.75	20.66			
5	64QAM	25	0	20.89	20.77	20.92			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0						



Band 7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.87	22.07	21.97	22.5	0	
20	QPSK	1	49	21.80	21.77	21.71			
20	QPSK	1	99	21.88	21.66	21.64			
20	QPSK	50	0	21.85	21.94	21.67	22.5	0	
20	QPSK	50	24	21.69	21.70	21.59			
20	QPSK	50	50	21.84	21.82	21.65			
20	QPSK	100	0	21.79	21.83	21.58	22.5	0	
20	16QAM	1	0	21.87	21.94	21.66			
20	16QAM	1	49	21.87	21.93	21.91			
20	16QAM	1	99	21.84	21.94	21.74	22.5	0	
20	16QAM	50	0	21.70	21.79	21.74			
20	16QAM	50	24	21.77	21.81	21.67			
20	16QAM	50	50	21.81	21.76	21.62	22.5	0	
20	16QAM	100	0	21.82	21.86	21.58			
20	64QAM	1	0	22.00	21.76	21.79			
20	64QAM	1	49	21.94	21.88	21.89	22.5	0	
20	64QAM	1	99	21.98	21.85	21.89			
20	64QAM	50	0	21.73	21.86	21.70			
20	64QAM	50	24	21.81	21.75	21.70	22.5	0	
20	64QAM	50	50	21.82	21.86	21.62			
20	64QAM	100	0	21.77	21.80	21.56			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	21.80	21.97	21.91	22.5	0	
15	QPSK	1	37	21.70	21.69	21.67			
15	QPSK	1	74	21.62	21.54	21.62			
15	QPSK	36	0	21.77	21.93	21.59	22.5	0	
15	QPSK	36	20	21.62	21.62	21.57			
15	QPSK	36	39	21.81	21.81	21.82			
15	QPSK	75	0	21.78	21.82	21.48	22.5	0	
15	16QAM	1	0	21.86	21.86	21.59			
15	16QAM	1	37	21.80	21.92	21.90			
15	16QAM	1	74	21.82	21.91	21.84	22.5	0	
15	16QAM	36	0	21.63	21.74	21.72			
15	16QAM	36	20	21.69	21.76	21.84			
15	16QAM	36	39	21.69	21.70	21.58	22.5	0	
15	16QAM	75	0	21.71	21.54	21.51			
15	64QAM	1	0	21.91	21.73	21.78			
15	64QAM	1	37	21.86	21.78	21.83	22.5	0	
15	64QAM	1	74	21.93	21.77	21.82			
15	64QAM	36	0	21.69	21.84	21.67			
15	64QAM	36	20	21.71	21.67	21.61	22.5	0	
15	64QAM	36	39	21.71	21.74	21.51			
15	64QAM	75	0	21.73	21.69	21.48			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	21.78	22.03	21.93	22.5	0	
10	QPSK	1	25	21.69	21.73	21.68			
10	QPSK	1	49	21.82	21.82	21.59			
10	QPSK	25	0	21.84	21.87	21.56	22.5	0	
10	QPSK	25	12	21.63	21.68	21.47			
10	QPSK	25	25	21.74	21.75	21.57			
10	QPSK	50	0	21.77	21.76	21.46	22.5	0	
10	16QAM	1	0	21.86	21.90	21.54			
10	16QAM	1	25	21.81	21.89	21.87			
10	16QAM	1	49	21.72	21.89	21.69	22.5	0	
10	16QAM	25	0	21.68	21.69	21.82			
10	16QAM	25	12	21.66	21.70	21.63			
10	16QAM	25	25	21.70	21.71	21.61	22.5	0	
10	16QAM	50	0	21.78	21.55	21.52			
10	64QAM	1	0	21.69	21.70	21.72			
10	64QAM	1	25	21.88	21.82	21.87	22.5	0	
10	64QAM	1	49	21.94	21.82	21.88			
10	64QAM	25	0	21.63	21.83	21.66			
10	64QAM	25	12	21.79	21.74	21.59	22.5	0	
10	64QAM	25	25	21.81	21.84	21.51			
10	64QAM	50	0	21.66	21.68	21.46			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	21.79	22.04	21.95	22.5	0	
5	QPSK	1	12	21.70	21.70	21.62			
5	QPSK	1	24	21.63	21.65	21.59			
5	QPSK	12	0	21.81	21.85	21.61	22.5	0	
5	QPSK	12	7	21.63	21.81	21.52			
5	QPSK	12	13	21.77	21.81	21.64			
5	QPSK	25	0	21.77	21.77	21.49	22.5	0	
5	16QAM	1	0	21.81	21.82	21.59			
5	16QAM	1	12	21.79	21.82	21.84			
5	16QAM	1	24	21.73	21.91	21.69	22.5	0	
5	16QAM	12	0	21.58	21.75	21.63			
5	16QAM	12	7	21.69	21.73	21.56			
5	16QAM	12	13	21.72	21.69	21.56	22.5	0	
5	16QAM	25	0	21.79	21.65	21.55			
5	64QAM	1	0	21.89	21.67	21.70			
5	64QAM	1	12	21.92	21.86	21.85	22.5	0	
5	64QAM	1	24	21.95	21.78	21.83			
5	64QAM	12	0	21.88	21.76	21.68			
5	64QAM	12	7	21.73	21.88	21.62	22.5	0	
5	64QAM	12	13	21.80	21.77	21.50			
5	64QAM	25	0	21.71	21.79	21.55			

Band 7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.31	17.29	17.47	18.2	0	
20	QPSK	1	49	17.43	17.53	17.41			
20	QPSK	1	99	17.36	17.43	17.37			
20	QPSK	50	0	17.52	17.57	17.50	18.2	0	
20	QPSK	50	24	17.47	17.56	17.49			
20	QPSK	50	50	17.43	17.52	17.45			
20	QPSK	100	0	17.42	17.51	17.43	18.2	0	
20	16QAM	1	0	17.50	17.53	17.50			
20	16QAM	1	49	17.50	17.58	17.54			
20	16QAM	1	99	17.49	17.52	17.49	18.2	0	
20	16QAM	50	0	17.52	17.56	17.48			
20	16QAM	50	24	17.46	17.55	17.46			
20	16QAM	50	50	17.47	17.58	17.53	18.2	0	
20	16QAM	100	0	17.43	17.54	17.45			
20	64QAM	1	0	17.42	17.49	17.39			
20	64QAM	1	49	17.50	17.56	17.44	18.2	0	
20	64QAM	1	99	17.47	17.54	17.42			
20	64QAM	50	0	17.51	17.56	17.51			
20	64QAM	50	24	17.49	17.54	17.48	18.2	0	
20	64QAM	50	50	17.43	17.54	17.45			
20	64QAM	100	0	17.45	17.51	17.47			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.44	17.48	17.43	18.2	0	
15	QPSK	1	37	17.39	17.47	17.32			
15	QPSK	1	74	17.32	17.33	17.27			
15	QPSK	36	0	17.46	17.50	17.40	18.2	0	
15	QPSK	36	20	17.38	17.53	17.43			
15	QPSK	36	39	17.40	17.48	17.34			
15	QPSK	75	0	17.33	17.43	17.39	18.2	0	
15	16QAM	1	0	17.39	17.41	17.47			
15	16QAM	1	37	17.42	17.50	17.47			
15	16QAM	1	74	17.46	17.47	17.40	18.2	0	
15	16QAM	36	0	17.45	17.45	17.41			
15	16QAM	36	20	17.35	17.52	17.40			
15	16QAM	36	39	17.36	17.48	17.44	18.2	0	
15	16QAM	75	0	17.32	17.42	17.44			
15	64QAM	1	0	17.32	17.40	17.34			
15	64QAM	1	37	17.40	17.44	17.37	18.2	0	
15	64QAM	1	74	17.43	17.49	17.39			
15	64QAM	36	0	17.48	17.50	17.41			
15	64QAM	36	20	17.43	17.47	17.37	18.2	0	
15	64QAM	36	39	17.31	17.50	17.39			
15	64QAM	75	0	17.39	17.45	17.40			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.43	17.49	17.42	18.2	0	
10	QPSK	1	25	17.38	17.47	17.37			
10	QPSK	1	49	17.29	17.40	17.31			
10	QPSK	25	0	17.49	17.54	17.47	18.2	0	
10	QPSK	25	12	17.41	17.46	17.38			
10	QPSK	25	25	17.39	17.44	17.38			
10	QPSK	50	0	17.32	17.41	17.32	18.2	0	
10	16QAM	1	0	17.39	17.45	17.45			
10	16Q								



Band 7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.29	19.45	19.52			
20	QPSK	1	49	19.24	19.36	19.25	20.6	0	
20	QPSK	1	99	19.12	19.25	19.15			
20	QPSK	50	0	19.32	19.44	19.31			
20	QPSK	50	24	19.28	19.40	19.26	20.6	0	
20	QPSK	50	50	19.26	19.43	19.25			
20	QPSK	100	0	19.27	19.36	19.28			
20	16QAM	1	0	19.21	19.40	19.24			
20	16QAM	1	49	19.25	19.37	19.28	20.6	0	
20	16QAM	1	99	19.31	19.41	19.28			
20	16QAM	50	0	19.25	19.39	19.27			
20	16QAM	50	24	19.23	19.43	19.24	20.6	0	
20	16QAM	50	50	19.32	19.42	19.30			
20	16QAM	100	0	19.32	19.41	19.33			
20	64QAM	1	0	19.21	19.41	19.22			
20	64QAM	1	49	19.30	19.40	19.24	20.6	0	
20	64QAM	1	99	19.23	19.42	19.21			
20	64QAM	50	0	19.30	19.38	19.26			
20	64QAM	50	24	19.29	19.43	19.22	20.6	0	
20	64QAM	50	50	19.32	19.41	19.33			
20	64QAM	100	0	19.26	19.38	19.24			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.22	19.34	19.24			
15	QPSK	1	37	19.15	19.28	19.19	20.6	0	
15	QPSK	1	74	19.09	19.20	19.08			
15	QPSK	36	0	19.26	19.39	19.24			
15	QPSK	36	20	19.20	19.30	19.21	20.6	0	
15	QPSK	36	39	19.18	19.31	19.17			
15	QPSK	75	0	19.18	19.27	19.22			
15	16QAM	1	0	19.11	19.34	19.14			
15	16QAM	1	37	19.20	19.25	19.19	20.6	0	
15	16QAM	1	74	19.25	19.29	19.20			
15	16QAM	36	0	19.22	19.33	19.15			
15	16QAM	36	20	19.13	19.40	19.17	20.6	0	
15	16QAM	36	39	19.24	19.39	19.18			
15	16QAM	75	0	19.17	19.28	19.19			
15	64QAM	1	0	19.18	19.29	19.14			
15	64QAM	1	37	19.25	19.31	19.21	20.6	0	
15	64QAM	1	74	19.20	19.35	19.17			
15	64QAM	36	0	19.24	19.30	19.20			
15	64QAM	36	20	19.22	19.39	19.11	20.6	0	
15	64QAM	36	39	19.27	19.34	19.24			
15	64QAM	75	0	19.22	19.32	19.12			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	19.19	19.37	19.18			
10	QPSK	1	25	19.12	19.29	19.15	20.6	0	
10	QPSK	1	49	19.06	19.19	19.03			
10	QPSK	25	0	19.24	19.33	19.24			
10	QPSK	25	12	19.21	19.36	19.20	20.6	0	
10	QPSK	25	25	19.17	19.33	19.14			
10	QPSK	50	0	19.21	19.35	19.21			
10	16QAM	1	0	19.15	19.36	19.12			
10	16QAM	1	25	19.20	19.28	19.23	20.6	0	
10	16QAM	1	49	19.28	19.34	19.16			
10	16QAM	25	0	19.20	19.36	19.16			
10	16QAM	25	12	19.15	19.31	19.15	20.6	0	
10	16QAM	25	25	19.26	19.34	19.24			
10	16QAM	50	0	19.22	19.30	19.23			
10	64QAM	1	0	19.16	19.37	19.17			
10	64QAM	1	25	19.26	19.30	19.17	20.6	0	
10	64QAM	1	49	19.11	19.37	19.18			
10	64QAM	25	0	19.19	19.28	19.21			
10	64QAM	25	12	19.22	19.33	19.14	20.6	0	
10	64QAM	25	25	19.25	19.32	19.29			
10	64QAM	50	0	19.16	19.32	19.15			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.19	19.37	19.15			
5	QPSK	1	12	19.16	19.26	19.18	20.6	0	
5	QPSK	1	24	19.01	19.13	19.04			
5	QPSK	12	0	19.23	19.34	19.20			
5	QPSK	12	7	19.15	19.32	19.17	20.6	0	
5	QPSK	12	13	19.15	19.35	19.20			
5	QPSK	25	0	19.20	19.30	19.16			
5	16QAM	1	0	19.12	19.32	19.13			
5	16QAM	1	12	19.15	19.32	19.17	20.6	0	
5	16QAM	1	24	19.28	19.29	19.20			
5	16QAM	12	0	19.21	19.30	19.22			
5	16QAM	12	7	19.11	19.35	19.12			
5	16QAM	12	13	19.26	19.34	19.22	20.6	0	
5	16QAM	25	0	19.18	19.27	19.22			
5	64QAM	1	0	19.12	19.35	19.15			
5	64QAM	1	12	19.27	19.34	19.13	20.6	0	
5	64QAM	1	24	19.11	19.32	19.17			
5	64QAM	12	0	19.21	19.31	19.23			
5	64QAM	12	7	19.21	19.34	19.11	20.6	0	
5	64QAM	12	13	19.21	19.35	19.30			
5	64QAM	25	0	19.23	19.33	19.16			

Band 7_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.00	21.25	21.05			
20	QPSK	1	49	20.97	21.23	21.05	22.1	0	
20	QPSK	1	99	20.98	21.15	20.98			
20	QPSK	50	0	21.03	21.23	21.01			
20	QPSK	50	24	21.00	21.21	20.99	22.1	0	
20	QPSK	50	50	20.95	21.20	20.99			
20	QPSK	100	0	20.99	21.21	20.97			
20	16QAM	1	0	21.00	21.17	21.05			
20	16QAM	1	49	20.98	21.23	21.05	22.1	0	
20	16QAM	1	99	20.99	21.22	20.97			
20	16QAM	50	0	20.97	21.19	20.92			
20	16QAM	50	24	20.94	21.11	20.87	22.1	0	
20	16QAM	50	50	20.98	21.19	21.03			
20	16QAM	100	0	20.90	21.12	20.92			
20	64QAM	1	0	20.79	21.02	20.80			
20	64QAM	1	49	20.92	21.22	20.88	22.1	0	
20	64QAM	1	99	20.88	21.14	20.89			
20	64QAM	50	0	20.51	20.65	20.51			
20	64QAM	50	24	20.34	20.57	20.33	21.1	1	
20	64QAM	50	50	20.42	20.54	20.50			
20	64QAM	100	0	20.48	20.62	20.47			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.89	21.19	21.01			
15	QPSK	1	37	20.88	21.14	20.96	22.1	0	
15	QPSK	1	74	20.87	21.04	20.93			
15	QPSK	36	0	20.94	21.16	20.89			
15	QPSK	36	20	20.92	21.10	20.96	22.1	0	
15	QPSK	36	39	20.90	21.10	20.91			
15	QPSK	75	0	20.89	21.11	20.92			
15	16QAM	1	0	20.91	21.06	20.98			
15	16QAM	1	37	20.88	21.20	21.00	22.1	0	
15	16QAM	1	74	20.88	21.16	20.86			
15	16QAM	36	0	20.88	21.19	20.87			
15	16QAM	36	20	20.91	21.04	20.94	22.1	0	
15	16QAM	36	39	20.92	21.15	20.95			
15	16QAM	75	0	20.78	21.09	20.87			
15	64QAM	1	0	20.74	20.94	20.70			
15	64QAM	1	37	20.85	21.10	20.78	22.1	0	
15	64QAM	1	74	20.79	21.05	20.66			
15	64QAM	36	0	20.46	20.55	20.45			
15	64QAM	36	20	20.28	20.46	20.30	21.1	1	
15	64QAM	36							



Band 12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.36	24.65	24.95	25.5	0	
10	QPSK	1	25	24.46	24.60	24.49			
10	QPSK	1	49	24.52	24.57	24.47			
10	QPSK	25	0	23.55	23.70	23.62			
10	QPSK	25	12	23.41	23.56	23.43	24.5	1	
10	QPSK	25	25	23.51	23.63	23.55			
10	QPSK	50	0	23.56	23.68	23.56			
10	16QAM	1	0	23.38	23.69	23.64			
10	16QAM	1	25	23.49	23.47	23.46	24.5	1	
10	16QAM	1	49	23.50	23.54	23.57			
10	16QAM	25	0	22.49	22.63	22.57			
10	16QAM	25	12	22.50	22.48	22.50	23.5	2	
10	16QAM	25	25	22.47	22.47	22.50			
10	16QAM	50	0	22.55	22.63	22.51			
10	64QAM	1	0	22.63	22.67	22.73			
10	64QAM	1	25	22.55	22.57	22.55	23.5	2	
10	64QAM	1	49	22.47	22.49	22.40			
10	64QAM	25	0	21.51	21.64	21.56			
10	64QAM	25	12	21.39	21.45	21.50	22.5	3	
10	64QAM	25	25	21.46	21.49	21.49			
10	64QAM	50	0	21.53	21.57	21.49			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.49	24.48	24.43	25.5	0	
5	QPSK	1	12	24.34	24.52	24.41			
5	QPSK	1	24	24.47	24.46	24.44			
5	QPSK	12	0	23.50	23.65	23.55			
5	QPSK	12	7	23.37	23.46	23.29	24.5	1	
5	QPSK	12	13	23.44	23.60	23.41			
5	QPSK	25	0	23.63	23.59	23.50			
5	16QAM	1	0	23.49	23.54	23.55			
5	16QAM	1	12	23.44	23.38	23.43	24.5	1	
5	16QAM	1	24	23.36	23.48	23.43			
5	16QAM	12	0	22.38	22.55	22.50			
5	16QAM	12	7	22.38	22.35	22.35	23.5	2	
5	16QAM	12	13	22.39	22.39	22.45			
5	16QAM	25	0	22.50	22.54	22.44			
5	64QAM	1	0	22.51	22.59	22.59			
5	64QAM	1	12	22.41	22.43	22.40	23.5	2	
5	64QAM	1	24	22.37	22.38	22.27			
5	64QAM	12	0	21.43	21.60	21.43			
5	64QAM	12	7	21.30	21.40	21.36	22.5	3	
5	64QAM	12	13	21.33	21.39	21.39			
5	64QAM	25	0	21.48	21.45	21.34			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.51	24.57	24.54	25.5	0	
3	QPSK	1	8	24.42	24.55	24.40			
3	QPSK	1	14	24.38	24.46	24.39			
3	QPSK	8	0	23.48	23.57	23.49	24.5	1	
3	QPSK	8	4	23.36	23.46	23.36			
3	QPSK	8	7	23.41	23.57	23.49			
3	QPSK	15	0	23.51	23.62	23.51			
3	16QAM	1	0	23.33	23.57	23.60	24.5	1	
3	16QAM	1	8	23.41	23.36	23.40			
3	16QAM	1	14	23.47	23.51	23.42			
3	16QAM	8	0	22.39	22.53	22.45			
3	16QAM	8	4	22.38	22.44	22.41	23.5	2	
3	16QAM	8	7	22.34	22.43	22.41			
3	16QAM	15	0	22.44	22.54	22.39			
3	64QAM	1	0	22.58	22.59	22.70			
3	64QAM	1	8	22.46	22.51	22.51	23.5	2	
3	64QAM	1	14	22.33	22.37	22.32			
3	64QAM	8	0	21.44	21.56	21.45			
3	64QAM	8	4	21.34	21.36	21.43	22.5	3	
3	64QAM	8	7	21.36	21.43	21.36			
3	64QAM	15	0	21.41	21.52	21.42			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.44	24.53	24.46	25.5	0	
1.4	QPSK	1	3	24.42	24.50	24.40			
1.4	QPSK	1	5	24.49	24.53	24.39			
1.4	QPSK	3	0	24.41	24.57	24.43			
1.4	QPSK	3	1	24.27	24.38	24.25			
1.4	QPSK	3	3	24.39	24.55	24.37	24.5	1	
1.4	QPSK	6	0	23.47	23.55	23.49			
1.4	16QAM	1	0	23.45	23.64	23.56			
1.4	16QAM	1	3	23.36	23.33	23.41	24.5	1	
1.4	16QAM	1	5	23.40	23.50	23.45			
1.4	16QAM	3	0	23.38	23.55	23.38			
1.4	16QAM	3	1	23.33	23.34	23.37			
1.4	16QAM	3	3	23.28	23.36	23.33	23.5	2	
1.4	16QAM	6	0	22.45	22.48	22.42			
1.4	64QAM	1	0	22.49	22.52	22.66			
1.4	64QAM	1	3	22.47	22.48	22.46	23.5	2	
1.4	64QAM	1	5	22.41	22.44	22.36			
1.4	64QAM	3	0	22.43	22.53	22.45			
1.4	64QAM	3	1	22.31	22.34	22.34			
1.4	64QAM	3	3	22.32	22.37	22.39	22.5	3	
1.4	64QAM	6	0	21.46	21.47	21.40			

Band 12_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.92	23.63	23.94	24.8	0	
10	QPSK	1	25	23.50	23.58	23.52			
10	QPSK	1	49	23.37	23.47	23.38			
10	QPSK	25	0	22.64	22.77	22.71			
10	QPSK	25	12	22.52	22.58	22.52	23.8	1	
10	QPSK	25	25	22.52	22.66	22.58			
10	QPSK	50	0	22.66	22.75	22.67			
10	16QAM	1	0	22.53	22.72	22.68			
10	16QAM	1	25	22.50	22.54	22.52	23.8	1	
10	16QAM	1	49	22.59	22.54	22.52			
10	16QAM	25	0	21.59	21.62	21.73			
10	16QAM	25	12	21.74	21.77	21.76	22.8	2	
10	16QAM	25	25	21.61	21.61	21.66			
10	16QAM	50	0	20.71	20.85	20.67			
10	64QAM	1	0	21.48	21.61	21.54			
10	64QAM	1	25	21.35	21.44	21.36	22.8	2	
10	64QAM	1	49	21.53	21.47	21.53			
10	64QAM	25	0	20.66	20.79	20.74			
10	64QAM	25	12	20.72	20.64	20.63	21.8	3	
10	64QAM	25	25	20.71	20.85	20.67			
10	64QAM	50	0	20.60	20.72	20.57			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.41	23.52	23.39	24.8	0	
5	QPSK	1	12	23.47	23.46	23.44			
5	QPSK	1	24	23.24	23.37	23.31			
5	QPSK	12	0	22.53	22.69	22.59			
5	QPSK	12	7	22.37	22.46	22.47	23.8	1	
5	QPSK	12	13	22.41	22.55	22.51			
5	QPSK	25	0	22.58	22.69	22.53			
5	16QAM	1	0	22.48	22.61	22.60			
5	16QAM	1	12	22.38	22.51	22.48	23.8	1	
5	16QAM	1	24	22.46	22.47	22.37			
5	16QAM	12	0	21.53	21.70	21.61			
5	16QAM	12	7	21.62	21.71	21.64	22.8	2	
5	16QAM	12	13	21.46	21.54	21.52			
5	16QAM	25	0	21.51	21.69	21.66			
5	64QAM	1	0	21.35	21.47	21.42			
5	64QAM	1	12	21.23	21.35	21.23	22.8	2	
5	64QAM	1	24	21.50	21.34	21.39			
5	64QAM	12	0	20.58	20.66	20.70			
5	64QAM	12	7	20.62	20.57	20.49	21.8	3	
5	64QAM	12	13	20.63	20.62	20.58			
5	64QAM	25	0	20.51	20.68				



Band 13_Ant 0									
Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				762					
10	QPSK	1	0	24.45			25.5	0	
10	QPSK	1	25	24.37					
10	QPSK	1	49	24.40					
10	QPSK	25	0	23.38					
10	QPSK	25	12	23.30			24.5	1	
10	QPSK	25	25	23.33					
10	QPSK	50	0	23.39					
10	16QAM	1	0	23.55			24.5	1	
10	16QAM	1	25	23.42					
10	16QAM	1	49	23.45					
10	16QAM	25	0	22.42					
10	16QAM	25	12	22.32			23.5	2	
10	16QAM	25	25	22.33					
10	16QAM	50	0	22.40					
10	64QAM	1	0	22.48			23.5	2	
10	64QAM	1	25	22.35					
10	64QAM	1	49	22.39					
10	64QAM	25	0	21.43					
10	64QAM	25	12	21.35			22.5	3	
10	64QAM	25	25	21.37					
10	64QAM	50	0	21.38					
Channel				23205					
Frequency (MHz)				779.5					
5	QPSK	1	0	24.32	24.41	24.26	25.5	0	
5	QPSK	1	12	24.20	24.31	24.20			
5	QPSK	1	24	24.15	24.33	24.25			
5	QPSK	12	0	23.12	23.34	23.19	24.5	1	
5	QPSK	12	7	23.20	23.21	23.02			
5	QPSK	12	13	23.13	23.27	23.10			
5	QPSK	25	0	23.20	23.29	23.18			
5	16QAM	1	0	23.40	23.50	23.47	24.5	1	
5	16QAM	1	12	23.18	23.27	23.29			
5	16QAM	1	24	23.28	23.35	23.29			
5	16QAM	12	0	22.20	22.29	22.22	23.5	2	
5	16QAM	12	7	22.22	22.18	22.16			
5	16QAM	12	13	22.11	22.26	22.12			
5	16QAM	25	0	22.24	22.29	22.20			
5	64QAM	1	0	22.27	22.41	22.32	23.5	2	
5	64QAM	1	12	22.12	22.21	22.19			
5	64QAM	1	24	22.26	22.30	22.16			
5	64QAM	12	0	21.24	21.29	21.25	22.5	3	
5	64QAM	12	7	21.23	21.24	21.19			
5	64QAM	12	13	21.10	21.28	21.16			
5	64QAM	25	0	21.19	21.23	21.17			

Band 13_Ant 1									
Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				762					
10	QPSK	1	0	23.86			24.9	0	
10	QPSK	1	25	23.80					
10	QPSK	1	49	23.83					
10	QPSK	25	0	22.79			23.9	1	
10	QPSK	25	12	22.75					
10	QPSK	25	25	22.72					
10	QPSK	50	0	22.74			23.9	1	
10	16QAM	1	0	22.81					
10	16QAM	1	25	22.72					
10	16QAM	1	49	22.73					
10	16QAM	25	0	21.52			22.9	2	
10	16QAM	25	12	21.50					
10	16QAM	25	25	21.48					
10	16QAM	50	0	21.74					
10	64QAM	1	0	21.77			22.9	2	
10	64QAM	1	25	21.73					
10	64QAM	1	49	21.67					
10	64QAM	25	0	20.46			21.9	3	
10	64QAM	25	12	20.40					
10	64QAM	25	25	20.33					
10	64QAM	50	0	20.57					
Channel				23205					
Frequency (MHz)				779.5					
5	QPSK	1	0	23.67	23.66	23.72	24.9	0	
5	QPSK	1	12	23.57	23.61	23.50			
5	QPSK	1	24	23.61	23.70	23.57			
5	QPSK	12	0	22.63	22.62	22.53	23.9	1	
5	QPSK	12	7	22.46	22.60	22.50			
5	QPSK	12	13	22.43	22.53	22.54			
5	QPSK	25	0	22.42	22.61	22.45			
5	16QAM	1	0	22.47	22.69	22.51	23.9	1	
5	16QAM	1	12	22.55	22.56	22.51			
5	16QAM	1	24	22.58	22.55	22.46			
5	16QAM	12	0	21.31	21.40	21.15	22.9	2	
5	16QAM	12	7	21.18	21.30	21.21			
5	16QAM	12	13	21.26	21.29	21.23			
5	16QAM	25	0	21.42	21.60	21.55			
5	64QAM	1	0	21.47	21.58	21.51	21.9	3	
5	64QAM	1	12	21.41	21.63	21.40			
5	64QAM	1	24	21.36	21.50	21.43			
5	64QAM	12	0	20.19	20.35	20.25			
5	64QAM	12	7	20.34	20.44	20.27			
5	64QAM	12	13	20.35	20.35	20.22			
5	64QAM	25	0	20.47	20.60	20.47			



Band 17_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.37	24.62	24.93	25.5	0	
10	QPSK	1	25	24.45	24.52	24.44			
10	QPSK	1	49	24.90	24.61	24.58			
10	QPSK	25	0	23.57	23.62	23.54			
10	QPSK	25	12	23.48	23.52	23.37	24.5	1	
10	QPSK	25	25	23.56	23.60	23.51			
10	QPSK	50	0	23.45	23.58	23.51			
10	16QAM	1	0	23.54	23.77	23.75			
10	16QAM	1	25	23.58	23.51	23.50	24.5	1	
10	16QAM	1	49	23.60	23.64	23.57			
10	16QAM	25	0	22.51	22.65	22.59			
10	16QAM	25	12	22.51	22.45	22.41	23.5	2	
10	16QAM	25	25	22.39	22.41	22.43			
10	16QAM	50	0	22.50	22.57	22.49			
10	64QAM	1	0	22.61	22.70	22.67			
10	64QAM	1	25	22.51	22.54	22.52	23.5	2	
10	64QAM	1	49	22.49	22.55	22.55			
10	64QAM	25	0	21.67	21.58	21.60			
10	64QAM	25	12	21.44	21.44	21.37	22.5	3	
10	64QAM	25	25	21.43	21.38	21.44			
10	64QAM	50	0	21.62	21.56	21.53			
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.54	24.57	24.49	25.5	0	
5	QPSK	1	12	24.37	24.39	24.35			
5	QPSK	1	24	24.40	24.56	24.41			
5	QPSK	12	0	23.51	23.49	23.50			
5	QPSK	12	7	23.43	23.42	23.30	24.5	1	
5	QPSK	12	13	23.46	23.46	23.39			
5	QPSK	25	0	23.34	23.44	23.37			
5	16QAM	1	0	23.56	23.70	23.64			
5	16QAM	1	12	23.54	23.47	23.48	24.5	1	
5	16QAM	1	24	23.56	23.61	23.51			
5	16QAM	12	0	22.41	22.36	22.50			
5	16QAM	12	7	22.47	22.41	22.29	23.5	2	
5	16QAM	12	13	22.31	22.32	22.29			
5	16QAM	25	0	22.37	22.42	22.37			
5	64QAM	1	0	22.50	22.66	22.62			
5	64QAM	1	12	22.38	22.42	22.38	23.5	2	
5	64QAM	1	24	22.42	22.46	22.49			
5	64QAM	12	0	21.52	21.47	21.45			
5	64QAM	12	7	21.37	21.34	21.33	22.5	3	
5	64QAM	12	13	21.34	21.30	21.34			
5	64QAM	25	0	21.57	21.48	21.41			

Band 17_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	23.46	23.59	23.53	24.8	0	
10	QPSK	1	25	23.42	23.48	23.38			
10	QPSK	1	49	23.40	23.52	23.38			
10	QPSK	25	0	22.67	22.78	22.62			
10	QPSK	25	12	22.51	22.56	22.43	23.8	1	
10	QPSK	25	25	22.62	22.73	22.58			
10	QPSK	50	0	22.73	22.76	22.70			
10	16QAM	1	0	22.68	22.74	22.67			
10	16QAM	1	25	22.58	22.63	22.57	23.8	1	
10	16QAM	1	49	22.57	22.60	22.62			
10	16QAM	25	0	21.55	21.64	21.49			
10	16QAM	25	12	21.54	21.51	21.54	22.8	2	
10	16QAM	25	25	21.54	21.44	21.48			
10	16QAM	50	0	21.56	21.73	21.69			
10	64QAM	1	0	21.64	21.69	21.62			
10	64QAM	1	25	21.46	21.48	21.46	22.8	2	
10	64QAM	1	49	21.62	21.56	21.54			
10	64QAM	25	0	20.57	20.65	20.48			
10	64QAM	25	12	20.46	20.42	20.46	21.8	3	
10	64QAM	25	25	20.47	20.45	20.38			
10	64QAM	50	0	20.65	20.68	20.54			
Channel				23755	23790	23825			
Frequency (MHz)				705.5	710	713.5			
5	QPSK	1	0	23.37	23.51	23.46	24.8	0	
5	QPSK	1	12	23.38	23.36	23.33			
5	QPSK	1	24	23.36	23.42	23.30			
5	QPSK	12	0	22.64	22.68	22.48			
5	QPSK	12	7	22.43	22.51	22.30	23.8	1	
5	QPSK	12	13	22.50	22.66	22.51			
5	QPSK	25	0	22.60	22.68	22.67			
5	16QAM	1	0	22.54	22.70	22.42			
5	16QAM	1	12	22.53	22.54	22.47	23.8	1	
5	16QAM	1	24	22.53	22.54	22.48			
5	16QAM	12	0	21.49	21.57	21.35			
5	16QAM	12	7	21.46	21.47	21.39	22.8	2	
5	16QAM	12	13	21.43	21.35	21.44			
5	16QAM	25	0	21.43	21.64	21.65			
5	64QAM	1	0	21.58	21.58	21.52			
5	64QAM	1	12	21.32	21.44	21.38	22.8	2	
5	64QAM	1	24	21.57	21.48	21.49			
5	64QAM	12	0	20.48	20.50	20.41			
5	64QAM	12	7	20.31	20.33	20.32	21.8	3	
5	64QAM	12	13	20.40	20.38	20.26			
5	64QAM	25	0	20.58	20.65	20.42			



Band 26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				821.5	831.5	841.5			
Frequency (MHz)									
15	QPSK	1	0	24.30	24.40	24.30	25.5	0	
15	QPSK	1	37	24.31	24.36	24.24			
15	QPSK	1	74	24.34	24.41	24.31			
15	QPSK	36	0	23.30	23.41	23.34	24.5	1	
15	QPSK	36	20	23.28	23.37	23.30			
15	QPSK	36	39	23.29	23.33	23.25			
15	QPSK	75	0	23.44	23.46	23.43	24.5	1	
15	16QAM	1	0	23.48	23.56	23.51			
15	16QAM	1	37	23.37	23.46	23.36			
15	16QAM	1	74	23.44	23.36	23.41	23.5	2	
15	16QAM	36	0	22.44	22.47	22.46			
15	16QAM	36	20	22.37	22.31	22.39			
15	16QAM	36	39	22.34	22.33	22.29	23.5	2	
15	16QAM	75	0	22.38	22.43	22.31			
15	64QAM	1	0	22.41	22.45	22.37			
15	64QAM	1	37	22.32	22.23	22.32	23.5	2	
15	64QAM	1	74	22.31	22.30	22.24			
15	64QAM	36	0	21.39	21.44	21.43			
15	64QAM	36	20	21.28	21.24	21.24	22.5	3	
15	64QAM	36	39	21.23	21.23	21.16			
15	64QAM	75	0	21.30	21.43	21.35			
Channel				26740	26865	26990			
Frequency (MHz)									
10	QPSK	1	0	24.26	24.36	24.29	25.5	0	
10	QPSK	1	25	24.26	24.24	24.09			
10	QPSK	1	49	24.23	24.34	24.20			
10	QPSK	25	0	23.25	23.27	23.29	24.5	1	
10	QPSK	25	12	23.17	23.26	23.22			
10	QPSK	25	25	23.15	23.19	23.21			
10	QPSK	50	0	23.38	23.36	23.29	24.5	1	
10	16QAM	1	0	23.40	23.43	23.41			
10	16QAM	1	25	23.33	23.36	23.30			
10	16QAM	1	49	23.32	23.32	23.27	23.5	2	
10	16QAM	25	0	22.36	22.34	22.42			
10	16QAM	25	12	22.29	22.25	22.36			
10	16QAM	25	25	22.21	22.24	22.17	23.5	2	
10	16QAM	50	0	22.32	22.34	22.20			
10	64QAM	1	0	22.28	22.31	22.27			
10	64QAM	1	25	22.17	22.16	22.28	23.5	2	
10	64QAM	1	49	22.17	22.21	22.16			
10	64QAM	25	0	21.30	21.41	21.29			
10	64QAM	25	12	21.22	21.17	21.12	22.5	3	
10	64QAM	25	25	21.18	21.16	21.04			
10	64QAM	50	0	21.16	21.35	21.29			
Channel				26715	26865	27015			
Frequency (MHz)									
5	QPSK	1	0	24.32	24.42	24.30	25.5	0	
5	QPSK	1	12	24.27	24.28	24.14			
5	QPSK	1	24	24.29	24.37	24.17			
5	QPSK	12	0	23.22	23.28	23.27	24.5	1	
5	QPSK	12	7	23.17	23.26	23.22			
5	QPSK	12	13	23.23	23.22	23.17			
5	QPSK	25	0	23.37	23.43	23.32	24.5	1	
5	16QAM	1	0	23.44	23.49	23.36			
5	16QAM	1	12	23.34	23.41	23.30			
5	16QAM	1	24	23.33	23.25	23.37	23.5	2	
5	16QAM	12	0	22.34	22.33	22.40			
5	16QAM	12	7	22.25	22.28	22.27			
5	16QAM	12	13	22.31	22.30	22.18	23.5	2	
5	16QAM	25	0	22.31	22.29	22.18			
5	64QAM	1	0	22.35	22.37	22.33			
5	64QAM	1	12	22.20	22.11	22.24	23.5	2	
5	64QAM	1	24	22.19	22.22	22.21			
5	64QAM	12	0	21.25	21.36	21.30			
5	64QAM	12	7	21.16	21.14	21.14	22.5	3	
5	64QAM	12	13	21.14	21.16	21.08			
5	64QAM	25	0	21.27	21.28	21.25			
Channel				26705	26865	27025			
Frequency (MHz)									
3	QPSK	1	0	24.30	24.40	24.33	25.5	0	
3	QPSK	1	8	24.26	24.26	24.15			
3	QPSK	1	14	24.28	24.31	24.24			
3	QPSK	8	0	23.24	23.34	23.20	24.5	1	
3	QPSK	8	4	23.20	23.30	23.19			
3	QPSK	8	7	23.26	23.22	23.11			
3	QPSK	15	0	23.41	23.33	23.36	24.5	1	
3	16QAM	1	0	23.42	23.48	23.47			
3	16QAM	1	8	23.24	23.31	23.23			
3	16QAM	1	14	23.36	23.31	23.31	23.5	2	
3	16QAM	8	0	22.38	22.32	22.40			
3	16QAM	8	4	22.25	22.20	22.25			
3	16QAM	8	7	22.24	22.25	22.21	23.5	2	
3	16QAM	15	0	22.31	22.31	22.21			
3	64QAM	1	0	22.33	22.36	22.31			
3	64QAM	1	8	22.26	22.16	22.24	23.5	2	
3	64QAM	1	14	22.21	22.26	22.10			
3	64QAM	8	0	21.35	21.34	21.38			
3	64QAM	8	4	21.21	21.17	21.23	22.5	3	
3	64QAM	8	7	21.20	21.15	21.13			
3	64QAM	15	0	21.22	21.31	21.27			
Channel				26697	26865	27033			
Frequency (MHz)									
1.4	QPSK	1	0	24.32	24.36	24.32	25.5	0	
1.4	QPSK	1	3	24.22	24.31	24.13			
1.4	QPSK	1	5	24.24	24.33	24.26			
1.4	QPSK	3	0	24.21	24.29	24.22	24.5	1	
1.4	QPSK	3	1	24.18	24.26	24.24			
1.4	QPSK	3	3	24.24	24.27	24.20			
1.4	QPSK	6	0	23.40	23.39	23.40	24.5	1	
1.4	16QAM	1	0	23.44	23.49	23.44			
1.4	16QAM	1	3	23.29	23.32	23.23			
1.4	16QAM	1	5	23.33	23.29	23.32	24.5	1	
1.4	16QAM	3	0	23.30	23.38	23.37			
1.4	16QAM	3	1	23.25	23.16	23.24			
1.4	16QAM	3	3	23.27	23.22	23.15	23.5	2	
1.4	16QAM	6	0	22.25	22.33	22.21			
1.4	16QAM	1	0	22.30	22.38	22.26			
1.4	64QAM	1	0	22.28	22.15	22.23	23.5	2	
1.4	64QAM	1	5	22.19	22.22	22.09			
1.4	64QAM	3	0	22.29	22.32	22.32			
1.4	64QAM	3	1	22.24	22.15	22.18	22.5	3	
1.4	64QAM	3	3	22.12	22.16	22.05			
1.4	64QAM	6	0	21.25	21.29	21.32			

Band 26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				821.5	831.5	841.5			
Frequency (MHz)									
15	QPSK	1	0	24.00	24.17	24.07	25.4	0	
15	QPSK	1	37	23.87	24.03	23.96			
15	QPSK	1	74	23.99	24.08	23.94			
15	QPSK	36	0	23.03	23.13	23.04	24.4	1	
15	QPSK	36	20	22.91	23.05	22.94			
15	QPSK	36	39	23.01	23.08	23.03			
15	QPSK	75	0	23.02	23.09	22.98	24.4	1	
15	16QAM	1	0	23.05	23.17	23.13			
15	16QAM	1	37	22.94	22.89	22.83			
15	16QAM	1	74	22.95	22.98	23.02	23.4	2	
15	16QAM	36	0	21.93	22.09	22.00			
15	16QAM	36	20	21.94	22.01	21.99			
15	16QAM	36	39	22.01	21.94	22.02	23.4	2	
15	16QAM	75	0	22.02	22.10	21.98			
15	64QAM	1	0	21.98	22.07	22.03			
15	64QAM	1	37	21.83	21.84	21.87	22.4	3	
15	64QAM	1	74	21.82	21.87	21.86			
15	64QAM	36	0	20.94	21.05	20.88			
15	64QAM	36	20	21.02	21.02	20.93	22.4	3	
15	64QAM	36	39	20.85	20.81	20.85			
15	64QAM	75	0	20.96	21.07	20.99			
Channel				26740	26865	26990			
Frequency (MHz)									
10	QPSK	1	0	23.94	24.13	24.01	25.4	0	
10	QPSK	1	25	23.88	23.92	23.82			
10	QPSK	1	49	23.93	24.04	23.89			
10	QPSK	25	0	22.86	23.09	22.99	24.4	1	
10	QPSK	25	12	22.77	22.91	22.82			
10	QPSK	25	25	22.92	22.96	23.01			
10	QPSK	50	0	22.92	22.95	22.93	24.4	1	
10	16QAM	1	0	22.92	22.99	22.99			
10	16QAM	1	25	22.86	22.83	22.80			
10	16QAM	1	49	22.81	22.91	22.95	23.4	2	
10	16QAM	25	0	21.90	21.88	21.90			
10	16QAM	25	12	21.88	21.88	21.85			
10	16QAM	25	25	21.87	21.84	21.97	23.4	2	
10	16QAM								



Band 66_Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				132072	132322	132572						
Frequency (MHz)												
20	QPSK	1	0	20.51	20.85	20.49	21.5	0				
20	QPSK	1	49	20.33	20.39	20.43						
20	QPSK	1	99	20.20	20.21	20.21						
20	QPSK	50	0	20.45	20.52	20.41	21.5	0				
20	QPSK	50	24	20.24	20.32	20.31						
20	QPSK	50	50	20.22	20.42	20.27						
20	QPSK	100	0	20.24	20.37	20.32	21.5	0				
20	16QAM	1	0	20.57	20.64	20.58						
20	16QAM	1	49	20.26	20.61	20.52						
20	16QAM	1	99	20.57	20.57	20.39	21.5	0				
20	16QAM	50	0	20.29	20.47	20.45						
20	16QAM	50	24	20.31	20.45	20.45						
20	16QAM	50	50	20.25	20.39	20.39	21.5	0				
20	16QAM	100	0	20.27	20.38	20.38						
20	16QAM	100	0	20.22	20.38	20.37						
20	64QAM	1	0	20.38	20.43	20.37	21.5	0				
20	64QAM	1	49	20.20	20.41	20.47						
20	64QAM	1	99	20.11	20.27	20.27						
20	64QAM	50	0	20.32	20.37	20.36	21.5	0				
20	64QAM	50	24	20.45	20.49	20.57						
20	64QAM	50	50	20.30	20.38	20.31						
20	64QAM	100	0	20.22	20.38	20.37	21.5	0				
Channel				132047	132322	132597						
Frequency (MHz)				1717.5	1745	1772.5						
15	QPSK	1	0	20.30	20.54	20.39	21.5	0				
15	QPSK	1	37	20.29	20.33	20.34						
15	QPSK	1	74	20.16	20.16	20.09						
15	QPSK	36	0	20.30	20.43	20.33	21.5	0				
15	QPSK	36	20	20.15	20.29	20.19						
15	QPSK	36	39	20.15	20.30	20.21						
15	QPSK	75	0	20.16	20.31	20.29	21.5	0				
15	16QAM	1	0	20.46	20.56	20.54						
15	16QAM	1	37	20.23	20.57	20.44						
15	16QAM	1	74	20.52	20.62	20.28	21.5	0				
15	16QAM	36	0	20.18	20.36	20.42						
15	16QAM	36	20	20.28	20.36	20.41						
15	16QAM	36	39	20.13	20.30	20.33	21.5	0				
15	16QAM	75	0	20.31	20.22	20.39						
15	16QAM	1	0	20.33	20.38	20.25						
15	64QAM	1	37	20.12	20.33	20.37	21.5	0				
15	64QAM	1	74	20.01	20.16	20.19						
15	64QAM	36	0	20.28	20.34	20.32						
15	64QAM	36	20	20.40	20.44	20.46	21.5	0				
15	64QAM	36	39	20.26	20.32	20.20						
15	64QAM	75	0	20.11	20.33	20.34						
Channel				132022	132322	132622						
Frequency (MHz)				1715	1745	1775						
10	QPSK	1	0	20.34	20.62	20.38	21.5	0				
10	QPSK	1	25	20.24	20.29	20.33						
10	QPSK	1	49	20.08	20.15	20.12						
10	QPSK	25	0	20.23	20.46	20.36	21.5	0				
10	QPSK	25	12	20.20	20.29	20.22						
10	QPSK	25	25	20.19	20.36	20.17						
10	QPSK	50	0	20.13	20.30	20.25	21.5	0				
10	16QAM	1	0	20.45	20.59	20.55						
10	16QAM	1	25	20.15	20.56	20.40						
10	16QAM	1	49	20.48	20.46	20.36	21.5	0				
10	16QAM	25	0	20.23	20.39	20.42						
10	16QAM	25	12	20.20	20.33	20.42						
10	16QAM	25	25	20.22	20.36	20.34	21.5	0				
10	16QAM	50	0	20.25	20.16	20.42						
10	64QAM	1	0	20.31	20.49	20.33						
10	64QAM	1	25	20.09	20.38	20.42	21.5	0				
10	64QAM	1	49	20.05	20.21	20.24						
10	64QAM	25	0	20.26	20.25	20.25						
10	64QAM	25	12	20.40	20.41	20.48	21.5	0				
10	64QAM	25	25	20.26	20.33	20.20						
10	64QAM	50	0	20.13	20.31	20.25						
Channel				131997	132322	132647						
Frequency (MHz)				1712.5	1745	1777.5						
5	QPSK	1	0	20.29	20.61	20.38	21.5	0				
5	QPSK	1	12	20.28	20.30	20.40						
5	QPSK	1	24	20.09	20.12	20.17						
5	QPSK	12	0	20.27	20.41	20.31	21.5	0				
5	QPSK	12	7	20.20	20.29	20.28						
5	QPSK	12	13	20.11	20.37	20.19						
5	QPSK	25	0	20.15	20.31	20.21	21.5	0				
5	16QAM	1	0	20.53	20.62	20.48						
5	16QAM	1	12	20.21	20.51	20.48						
5	16QAM	1	24	20.48	20.51	20.31	21.5	0				
5	16QAM	12	0	20.25	20.40	20.38						
5	16QAM	12	7	20.22	20.37	20.36						
5	16QAM	12	13	20.17	20.33	20.29	21.5	0				
5	16QAM	25	0	20.32	20.20	20.37						
5	64QAM	1	0	20.27	20.36	20.27						
5	64QAM	1	12	20.09	20.35	20.38	21.5	0				
5	64QAM	1	24	20.02	20.22	20.15						
5	64QAM	12	0	20.29	20.29	20.26						
5	64QAM	12	7	20.40	20.40	20.46	21.5	0				
5	64QAM	12	13	20.23	20.31	20.25						
5	64QAM	25	0	20.11	20.26	20.30						
Channel				131987	132322	132657						
Frequency (MHz)				1711.5	1745	1778.5						
3	QPSK	1	0	20.32	20.61	20.40	21.5	0				
3	QPSK	1	8	20.25	20.36	20.34						
3	QPSK	1	14	20.15	20.18	20.16						
3	QPSK	8	0	20.22	20.45	20.34	21.5	0				
3	QPSK	8	4	20.16	20.29	20.19						
3	QPSK	8	7	20.15	20.32	20.21						
3	QPSK	15	0	20.17	20.27	20.23	21.5	0				
3	16QAM	1	0	20.45	20.61	20.47						
3	16QAM	1	8	20.20	20.51	20.42						
3	16QAM	1	14	20.49	20.51	20.31	21.5	0				
3	16QAM	8	0	20.26	20.37	20.41						
3	16QAM	8	4	20.21	20.41	20.33						
3	16QAM	8	7	20.21	20.34	20.35	21.5	0				
3	16QAM	15	0	20.28	20.17	20.42						
3	64QAM	1	0	20.28	20.34	20.27						
3	64QAM	1	8	20.08	20.36	20.38	21.5	0				
3	64QAM	1	14	20.01	20.19	20.22						
3	64QAM	8	0	20.25	20.30	20.25						
3	64QAM	8	4	20.42	20.37	20.54	21.5	0				
3	64QAM	8	7	20.23	20.29	20.27						
3	64QAM	15	0	20.13	20.34	20.28						
Channel				131970	132322	132666						
Frequency (MHz)				1710.7	1745	1779.3						
1.4	QPSK	1	0	20.26	20.62	20.38	21.5	0				
1.4	QPSK	1	3	20.30	20.34	20.36						
1.4	QPSK	1	5	20.17	20.09	20.17						
1.4	QPSK	3	0	20.24	20.43	20.37	21.5	0				
1.4	QPSK	3	1	20.19	20.21	20.28						
1.4	QPSK	3	3	20.15	20.35	20.15						
1.4	QPSK	6	0	20.19	20.39	20.28	21.5	0				
1.4	16QAM	1	0	20.51	20.58	20.49						
1.4	16QAM	1	3	20.20	20.50	20.45						
1.4	16QAM	1	5	20.48	20.49	20.35	21.5	0				
1.4	16QAM	3	0	20.21	20.37	20.35						
1.4	16QAM	3	1	20.21	20.33	20.35						
1.4	16QAM	3	1	20.14	20.33	20.34	21.5	0				
1.4	16QAM	6	0	20.26	20.20	20.40						
1.4	64QAM	1	0	20.34	20.38	20.34						
1.4	64QAM	1	3	20.14	20.38	20.36	21.5	0				
1.4	64QAM	1	5	20.00	20.16	20.18						
1.4	64QAM	3	0	20.24	20.28	20.24						
1.4	64QAM	3	1	20.39	20.49	20.52	21.5	0				
1.4	64QAM	3	3	20.24	20.27	20.20						
1.4	64QAM	6	0	20.11	20.34	20.32						

Band 66_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)										
20	QPSK	1	0	19.42	19.46	19.45	20.5	0		
20	QPSK	1	49	19.37	19.37	19.37				
20	QPSK	1	99	19.09	19.17	19.17				
20	QPSK	50	0	19.37	19.47	19.44	20.5	0		
20	QPSK	50	24	19.33	19.44	19.33				
20	QPSK	50	50	19.34	19.40	19.30				
20	QPSK	100	0	19.34	19.46	19.43	20.5	0		
20	16QAM	1	0	19.36	19.47	19.43				
20	16QAM	1	49	19.33	19.42	19.34				
20	16QAM	1	99	19.41	19.44	19.36	20.5	0		
20	16QAM	50	0	19.35	19.47	19.41				
20	16QAM	50	24	19.38	19.47	19.42				
20	16QAM	50	50	19.32	19.40	19.31	20.5	0		
20	16QAM	100	0	19.38	19.43	19.40				
20	64QAM	1	0	19.42	19.47	19.40				
20	64QAM	1	49	19.19	19.31	19.25	20.5	0		
20	64QAM	1	99	19.32	19.40	19.36				
20	64QAM	50	0	19.39	19.45	19.39				
20	64QAM	50	24	19.34	19.46	19.42	20.5	0		
20	64QAM	50	50	19.36	19.47	19.35				
20	64QAM	100	0	19.32	19.37	19.25				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	19.33	19.37	19.35	20.5	0		
15	QPSK	1	37	19.21	19.29	19.26				
15	QPSK	1	74	19.04	19.08	19.02				
15	QPSK	36	0	19.29	19.35	19.34</				



Band 66_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	22.67	22.99	22.75				
20	QPSK	1	49	22.58	22.87	22.62	23.7	0		
20	QPSK	1	99	22.46	22.53	22.39				
20	QPSK	50	0	22.67	22.85	22.73				
20	QPSK	50	24	22.66	22.81	22.67	23.7	0		
20	QPSK	50	50	22.65	22.79	22.70				
20	QPSK	100	0	22.60	22.77	22.60				
20	16QAM	1	0	22.72	22.67	22.70				
20	16QAM	1	49	22.76	22.88	22.74	23.7	0		
20	16QAM	1	99	22.62	22.78	22.55				
20	16QAM	50	0	22.71	22.86	22.75				
20	16QAM	50	24	22.62	22.82	22.63	23.7	0		
20	16QAM	50	50	22.74	22.82	22.66				
20	16QAM	100	0	22.63	22.77	22.60				
20	64QAM	1	0	22.69	22.85	22.65				
20	64QAM	1	49	22.78	22.85	22.74	23.7	0		
20	64QAM	1	99	22.54	22.68	22.48				
20	64QAM	50	0	21.71	21.87	21.71				
20	64QAM	50	24	21.68	21.82	21.63	22.7	1		
20	64QAM	50	50	21.65	21.80	21.60				
20	64QAM	100	0	21.66	21.75	21.65				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	22.64	22.83	22.69	23.7	0		
15	QPSK	1	37	22.51	22.68	22.52				
15	QPSK	1	74	22.43	22.42	22.32				
15	QPSK	36	0	22.59	22.82	22.67				
15	QPSK	36	20	22.66	22.83	22.63	23.7	0		
15	QPSK	36	39	22.53	22.68	22.60				
15	QPSK	75	0	22.52	22.67	22.52				
15	16QAM	1	0	22.64	22.75	22.64				
15	16QAM	1	37	22.66	22.78	22.63	23.7	0		
15	16QAM	1	74	22.59	22.68	22.43				
15	16QAM	36	0	22.61	22.85	22.67				
15	16QAM	36	20	22.59	22.72	22.55	23.7	0		
15	16QAM	36	39	22.66	22.70	22.57				
15	16QAM	75	0	22.55	22.69	22.57				
15	64QAM	1	0	22.64	22.75	22.62				
15	64QAM	1	37	22.75	22.79	22.67	23.7	0		
15	64QAM	1	74	22.44	22.61	22.42				
15	64QAM	36	0	21.67	21.77	21.67				
15	64QAM	36	20	21.61	21.76	21.55	22.7	1		
15	64QAM	36	39	21.61	21.70	21.54				
15	64QAM	75	0	21.63	21.63	21.61				
Channel				132022	132322	132622				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	22.57	22.83	22.71	23.7	0		
10	QPSK	1	25	22.33	22.71	22.58				
10	QPSK	1	49	22.40	22.43	22.27				
10	QPSK	25	0	22.55	22.73	22.69				
10	QPSK	25	12	22.61	22.77	22.61	23.7	0		
10	QPSK	25	25	22.60	22.74	22.64				
10	QPSK	50	0	22.56	22.71	22.48				
10	16QAM	1	0	22.67	22.83	22.63	23.7	0		
10	16QAM	1	25	22.67	22.80	22.59				
10	16QAM	1	49	22.51	22.67	22.43				
10	16QAM	25	0	22.61	22.77	22.64				
10	16QAM	25	12	22.55	22.75	22.54	23.7	0		
10	16QAM	25	25	22.65	22.77	22.58				
10	16QAM	50	0	22.55	22.68	22.54				
10	64QAM	1	0	22.59	22.82	22.55				
10	64QAM	1	25	22.69	22.75	22.68	23.7	0		
10	64QAM	1	49	22.44	22.61	22.38				
10	64QAM	25	0	21.66	21.82	21.63				
10	64QAM	25	12	21.65	21.77	21.53	22.7	1		
10	64QAM	25	25	21.60	21.72	21.56				
10	64QAM	50	0	21.54	21.69	21.53				
Channel				131997	132322	132647				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	22.64	22.82	22.63	23.7	0		
5	QPSK	1	12	22.49	22.72	22.52				
5	QPSK	1	24	22.34	22.47	22.27				
5	QPSK	12	0	22.63	22.75	22.65				
5	QPSK	12	7	22.59	22.76	22.61	23.7	0		
5	QPSK	12	13	22.64	22.76	22.59				
5	QPSK	25	0	22.51	22.69	22.50				
5	16QAM	1	0	22.66	22.79	22.65				
5	16QAM	1	12	22.68	22.82	22.64	23.7	0		
5	16QAM	1	24	22.52	22.75	22.50				
5	16QAM	12	0	22.66	22.74	22.67				
5	16QAM	12	7	22.66	22.76	22.60	23.7	0		
5	16QAM	12	13	22.67	22.74	22.60				
5	16QAM	25	0	22.51	22.72	22.56				
5	64QAM	1	0	22.65	22.74	22.58				
5	64QAM	1	12	22.72	22.73	22.63	23.7	0		
5	64QAM	1	24	22.44	22.63	22.37				
5	64QAM	12	0	21.65	21.76	21.60				
5	64QAM	12	7	21.65	21.73	21.57	22.7	1		
5	64QAM	12	13	21.57	21.72	21.48				
5	64QAM	25	0	21.56	21.71	21.55				
Channel				131987	132322	132657				
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	22.59	22.78	22.72	23.7	0		
3	QPSK	1	8	22.48	22.68	22.50				
3	QPSK	1	14	22.39	22.55	22.27				
3	QPSK	8	0	22.63	22.80	22.69				
3	QPSK	8	4	22.63	22.70	22.56	23.7	0		
3	QPSK	8	7	22.59	22.75	22.62				
3	QPSK	15	0	22.52	22.65	22.53				
3	16QAM	1	0	22.65	22.82	22.63	23.7	0		
3	16QAM	1	8	22.65	22.76	22.71				
3	16QAM	1	14	22.51	22.67	22.49				
3	16QAM	8	0	22.62	22.76	22.66				
3	16QAM	8	4	22.53	22.77	22.53	23.7	0		
3	16QAM	8	7	22.66	22.74	22.58				
3	16QAM	15	0	22.60	22.72	22.48				
3	64QAM	1	0	22.61	22.76	22.58				
3	64QAM	1	8	22.71	22.81	22.67	23.7	0		
3	64QAM	1	14	22.46	22.61	22.42				
3	64QAM	8	0	21.68	21.75	21.66				
3	64QAM	8	4	21.59	21.77	21.53	22.7	1		
3	64QAM	8	7	21.56	21.71	21.50				
3	64QAM	15	0	21.59	21.71	21.59				
Channel				131979	132322	132665				
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	22.55	22.82	22.69	23.7	0		
1.4	QPSK	1	3	22.50	22.63	22.57				
1.4	QPSK	1	5	22.39	22.42	22.28				
1.4	QPSK	3	0	22.62	22.79	22.63				
1.4	QPSK	3	1	22.55	22.74	22.60	23.7	0		
1.4	QPSK	3	3	22.60	22.75	22.58				
1.4	QPSK	6	0	22.48	22.68	22.54	23.7	0		
1.4	16QAM	1	0	22.69	22.80	22.61				
1.4	16QAM	1	3	22.73	22.84	22.65				
1.4	16QAM	1	5	22.54	22.73	22.47	23.7	0		
1.4	16QAM	3	0	22.59	22.82	22.63				
1.4	16QAM	3	1	22.52	22.78	22.60				
1.4	16QAM	3	3	22.67	22.79	22.61	23.7	0		
1.4	16QAM	6	0	22.55	22.66	22.49				
1.4	64QAM	1	0	22.66	22.74	22.53				
1.4	64QAM	1	3	22.73	22.74	22.67				
1.4	64QAM	1	5	22.44	22.61	22.38	23.7	0		
1.4	64QAM	3	0	22.58	22.70	22.47				
1.4	64QAM	3	1	22.69	22.67	22.64				
1.4	64QAM	3	3	22.33	22.52	22.28	22.7	1		
1.4	64QAM	6	0	21.61	21.68	21.53				

Band 66_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	21.71	21.82	21.67				
20	QPSK	1	49	21.61	21.67	21.73	22.5	0		
20	QPSK	1	99	21.50	21.46	21.79				
20	QPSK	50	0	21.69	21.78	21.77				
20	QPSK	50	24	21.67	21.75	21.73	22.5	0		
20	QPSK	50	50	21.58	21.77	21.74				
20	QPSK	100	0	21.64	21.73	21.67				
20	16QAM	1	0	21.44	21.77	21.61				
20	16QAM	1	49	21.44	21.65	21.58	22.5	0		
20										



Band 38_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.29	24.33	24.25	25	0	
20	QPSK	1	49	24.09	24.24	24.24			
20	QPSK	1	99	23.97	24.07	24.02			
20	QPSK	50	0	23.77	23.88	23.67	24.5	0.5	
20	QPSK	50	24	23.62	23.61	23.58			
20	QPSK	50	50	23.49	23.72	23.54			
20	QPSK	100	0	23.60	23.71	23.64	24.5	0.5	
20	16QAM	1	0	23.86	23.78	23.64			
20	16QAM	1	49	23.64	23.51	23.65			
20	16QAM	1	99	23.71	23.62	23.56	23.5	1.5	
20	16QAM	50	0	22.83	22.81	22.84			
20	16QAM	50	24	22.63	22.55	22.64			
20	16QAM	50	50	22.55	22.75	22.67	23.5	1.5	
20	16QAM	100	0	22.73	22.81	22.85			
20	16QAM	1	49	22.36	22.58	22.41			
20	64QAM	1	49	22.29	22.28	22.23	22.5	2.5	
20	64QAM	1	99	22.37	22.42	22.30			
20	64QAM	50	0	21.72	21.75	21.78			
20	64QAM	50	24	21.53	21.60	21.61	25	0	
20	64QAM	50	50	21.51	21.54	21.42			
20	64QAM	100	0	21.66	21.74	21.78			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.12	24.32	24.09	25	0	
15	QPSK	1	37	24.10	24.22	24.00			
15	QPSK	1	74	24.03	24.17	24.08			
15	QPSK	36	0	23.86	23.79	23.73	24.5	0.5	
15	QPSK	36	20	23.88	23.60	23.59			
15	QPSK	36	39	23.54	23.51	23.47			
15	QPSK	75	0	23.60	23.64	23.51	24.5	0.5	
15	16QAM	1	0	23.74	23.64	23.66			
15	16QAM	1	37	23.80	23.50	23.50			
15	16QAM	1	74	23.51	23.55	23.52	23.5	1.5	
15	16QAM	36	0	22.99	22.94	22.97			
15	16QAM	36	20	22.61	22.57	22.60			
15	16QAM	36	39	22.57	22.60	22.61	23.5	1.5	
15	16QAM	75	0	22.72	22.72	22.66			
15	64QAM	1	0	22.52	22.43	22.32			
15	64QAM	1	37	22.15	22.13	22.15	22.5	2.5	
15	64QAM	1	74	22.40	22.44	22.37			
15	64QAM	36	0	21.70	21.65	21.70			
15	64QAM	36	20	21.54	21.51	21.62	25	0	
15	64QAM	36	39	21.45	21.47	21.49			
15	64QAM	75	0	21.73	21.73	21.70			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.21	24.17	24.16	25	0	
10	QPSK	1	25	24.11	24.27	24.10			
10	QPSK	1	49	24.10	24.19	24.00			
10	QPSK	25	0	23.79	23.67	23.69	24.5	0.5	
10	QPSK	25	12	23.51	23.63	23.62			
10	QPSK	25	25	23.41	23.69	23.51			
10	QPSK	50	0	23.54	23.70	23.57	24.5	0.5	
10	16QAM	1	0	23.69	23.69	23.70			
10	16QAM	1	25	23.47	23.42	23.55			
10	16QAM	1	49	23.60	23.52	23.60	23.5	1.5	
10	16QAM	25	0	22.75	22.72	22.72			
10	16QAM	25	12	22.81	22.50	22.49			
10	16QAM	25	25	22.64	22.74	22.63	23.5	1.5	
10	16QAM	50	0	22.94	22.58	22.77			
10	64QAM	1	0	22.41	22.41	22.41			
10	64QAM	1	25	22.18	22.11	22.24	22.5	2.5	
10	64QAM	1	49	22.33	22.37	22.33			
10	64QAM	25	0	21.85	21.68	21.78			
10	64QAM	25	12	21.46	21.58	21.67	25	0	
10	64QAM	25	25	21.49	21.54	21.38			
10	64QAM	50	0	21.54	21.58	21.59			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.21	24.28	24.15	25	0	
5	QPSK	1	12	24.10	24.13	24.03			
5	QPSK	1	24	23.97	24.19	24.02			
5	QPSK	12	0	23.67	23.79	23.79	24.5	0.5	
5	QPSK	12	7	23.55	23.61	23.63			
5	QPSK	12	13	23.56	23.52	23.50			
5	QPSK	25	0	23.55	23.55	23.45	24.5	0.5	
5	16QAM	1	0	23.63	23.66	23.72			
5	16QAM	1	12	23.56	23.50	23.41			
5	16QAM	1	24	23.66	23.57	23.61	23.5	1.5	
5	16QAM	12	0	22.84	22.77	22.87			
5	16QAM	12	7	22.55	22.53	22.50			
5	16QAM	12	13	22.47	22.72	22.49	23.5	1.5	
5	16QAM	25	0	22.63	22.58	22.71			
5	64QAM	1	0	22.47	22.40	22.31			
5	64QAM	1	12	22.15	22.11	22.21	22.5	2.5	
5	64QAM	1	24	22.39	22.35	22.33			
5	64QAM	12	0	21.74	21.62	21.76			
5	64QAM	12	7	21.45	21.49	21.64	25	0	
5	64QAM	12	13	21.47	21.43	21.46			
5	64QAM	25	0	21.70	21.72	21.72			

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.77	21.89	21.79	23	0	
20	QPSK	1	49	21.72	21.88	21.74			
20	QPSK	1	99	21.67	21.76	21.64			
20	QPSK	50	0	21.74	21.88	21.77	23	0	
20	QPSK	50	24	21.71	21.86	21.69			
20	QPSK	50	50	21.73	21.84	21.70			
20	QPSK	100	0	21.71	21.85	21.68	23	0	
20	16QAM	1	0	21.58	21.76	21.62			
20	16QAM	1	49	21.72	21.87	21.68			
20	16QAM	1	99	21.68	21.84	21.67	23	0	
20	16QAM	50	0	21.65	21.80	21.66			
20	16QAM	50	24	21.72	21.86	21.66			
20	16QAM	50	50	21.73	21.85	21.68	23	0	
20	16QAM	100	0	21.73	21.87	21.72			
20	64QAM	1	0	21.57	21.68	21.58			
20	64QAM	1	49	21.74	21.79	21.69	23	0	
20	64QAM	1	99	21.61	21.77	21.59			
20	64QAM	50	0	20.68	20.86	20.67			
20	64QAM	50	24	20.78	20.93	20.78	22	1	
20	64QAM	50	50	20.84	20.92	20.84			
20	64QAM	100	0	20.67	20.82	20.69			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.67	21.78	21.73	23	0	
15	QPSK	1	37	21.65	21.77	21.68			
15	QPSK	1	74	21.59	21.69	21.59			
15	QPSK	36	0	21.68	21.81	21.74	23	0	
15	QPSK	36	20	21.66	21.81	21.62			
15	QPSK	36	39	21.63	21.77	21.58			
15	QPSK	75	0	21.60	21.80	21.57	23	0	
15	16QAM	1	0	21.51	21.72	21.54			
15	16QAM	1	37	21.62	21.81	21.64			
15	16QAM	1	74	21.64	21.73	21.55	23	0	
15	16QAM	36	0	21.53	21.77	21.61			
15	16QAM	36	20	21.65	21.75	21.55			
15	16QAM	36	39	21.69	21.75	21.55	23	0	
15	16QAM	75	0	21.61	21.84	21.60			
15	64QAM	1	0	21.54	21.80	21.50			
15	64QAM	1	37	21.69	21.80	21.58	23	0	
15	64QAM	1	74	21.58	21.75	21.55			
15	64QAM	36	0	20.64	20.82	20.58			
15	64QAM	36	20	20.67	20.89	20.73	22	1	
15	64QAM	36	39	20.72	20.87	20.81			
15	64QAM	75	0	20.64	20.79	20.60			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.71	21.82	21.67	23	0	
10	QPSK	1	25	21.69	21.78	21.63			
10	QPSK	1	49	21.63	21.65	21.52			
10	QPSK	25	0	21.70	21.81	21.69	23	0	
10	QPSK	25	12	21.61	21.82	21.62			
10	QPSK	25	25	21.63	21.75	21.64			
10	QPSK	50	0	21.61	21.80	21.55	23	0	
10	16QAM	1	0	21.54	21.71	21.53			
10	16QAM	1	25	21.68	21.80	21.60			
10	16QAM	1	49	21.61	21.73	21.60	23	0	
10	16QAM	25	0	21.53	21.75	21.55			
10	16QAM	25	12	21.69	21.82	21.56			
10	16QAM	25	25	21.68	21.75	21.61	23	0	
10	16QAM	50	0	21.62	21.81	21.64			
10	64QAM	1	0	21.48	21.57	21.50			
10	64QAM	1	25	21.66	21.79	21.63	23	0	
10	64QAM	1	49	21.53	21.76	21.49			
10	64QAM	25	0	20.57	20.79	20.56			
10	64QAM	25	12	20.70	20.82	20.74	22	1	
10	64QAM	25	25	20.81	20.84	20.73			
10	64QAM	50	0	20.55	20.72	20.57			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.73	21.79	21.71	23	0	
5	QPSK	1	12	21.65	21.83	21.71			
5	QPSK	1	24	21.59	21.65	21.56			
5</									



Band 38_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.32	21.49	21.43	22.7	0	
20	QPSK	1	49	21.30	21.32	21.37			
20	QPSK	1	99	21.27	21.31	21.32			
20	QPSK	50	0	21.28	21.41	21.35			
20	QPSK	50	24	21.22	21.32	21.32	22.7	0	
20	QPSK	50	50	21.26	21.37	21.24			
20	QPSK	100	0	21.22	21.34	21.21			
20	16QAM	1	0	21.16	21.14	21.21			
20	16QAM	1	49	21.41	21.38	21.47	22.7	0	
20	16QAM	1	99	21.32	21.31	21.38			
20	16QAM	50	0	21.25	21.28	21.35			
20	16QAM	50	24	21.32	21.45	21.41	22.7	0	
20	16QAM	50	50	21.34	21.39	21.43			
20	16QAM	100	0	21.25	21.36	21.35			
20	64QAM	1	0	20.85	20.86	20.93			
20	64QAM	1	49	21.09	21.03	21.14	22.7	0	
20	64QAM	1	99	21.06	21.04	21.07			
20	64QAM	50	0	21.22	21.26	21.33			
20	64QAM	50	24	21.26	21.34	21.39	22.7	0	
20	64QAM	50	50	21.25	21.36	21.35			
20	64QAM	100	0	21.20	21.29	21.30			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.21	21.47	21.38	22.7	0	
15	QPSK	1	37	21.21	21.24	21.32			
15	QPSK	1	74	21.19	21.20	21.31			
15	QPSK	36	0	21.27	21.38	21.24	22.7	0	
15	QPSK	36	20	21.20	21.24	21.25			
15	QPSK	36	39	21.23	21.31	21.23			
15	QPSK	75	0	21.19	21.29	21.15			
15	16QAM	1	0	21.11	21.02	21.20	22.7	0	
15	16QAM	1	37	21.29	21.31	21.36			
15	16QAM	1	74	21.20	21.28	21.26			
15	16QAM	36	0	21.18	21.30	21.27	22.7	0	
15	16QAM	36	20	21.26	21.43	21.40			
15	16QAM	36	39	21.26	21.32	21.42			
15	16QAM	75	0	21.23	21.16	21.25			
15	64QAM	1	0	20.79	20.75	20.87	22.7	0	
15	64QAM	1	37	21.07	20.91	21.02			
15	64QAM	1	74	21.05	21.03	21.01			
15	64QAM	36	0	21.20	21.17	21.25	22.7	0	
15	64QAM	36	20	21.22	21.23	21.37			
15	64QAM	36	39	21.18	21.24	21.29			
15	64QAM	75	0	21.13	21.23	21.20	22.7	0	
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.22	21.39	21.33	22.7	0	
10	QPSK	1	25	21.22	21.30	21.31			
10	QPSK	1	49	21.25	21.28	21.24			
10	QPSK	25	0	21.28	21.39	21.31	22.7	0	
10	QPSK	25	12	21.19	21.23	21.24			
10	QPSK	25	25	21.26	21.27	21.23			
10	QPSK	50	0	21.10	21.33	21.11	22.7	0	
10	16QAM	1	0	21.15	21.13	21.12			
10	16QAM	1	25	21.32	21.31	21.35	22.7	0	
10	16QAM	1	49	21.24	21.22	21.36			
10	16QAM	25	0	21.21	21.23	21.31	22.7	0	
10	16QAM	25	12	21.24	21.39	21.31			
10	16QAM	25	25	21.26	21.35	21.35			
10	16QAM	50	0	21.26	21.22	21.26	22.7	0	
10	64QAM	1	0	20.78	20.76	20.88			
10	64QAM	1	25	21.05	20.98	21.06	22.7	0	
10	64QAM	1	49	21.00	20.95	20.98			
10	64QAM	25	0	21.15	21.22	21.26	22.7	0	
10	64QAM	25	12	21.18	21.25	21.37			
10	64QAM	25	25	21.16	21.27	21.33			
10	64QAM	50	0	21.13	21.23	21.22	22.7	0	
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.26	21.46	21.33	22.7	0	
5	QPSK	1	12	21.18	21.25	21.33			
5	QPSK	1	24	21.15	21.19	21.27			
5	QPSK	12	0	21.25	21.36	21.28	22.7	0	
5	QPSK	12	7	21.18	21.28	21.26			
5	QPSK	12	13	21.18	21.29	21.17			
5	QPSK	25	0	21.20	21.32	21.11	22.7	0	
5	16QAM	1	0	21.06	21.08	21.17	22.7	0	
5	16QAM	1	12	21.32	21.28	21.35			
5	16QAM	1	24	21.20	21.19	21.35			
5	16QAM	12	0	21.20	21.27	21.34	22.7	0	
5	16QAM	12	7	21.20	21.41	21.30			
5	16QAM	12	13	21.27	21.27	21.35			
5	16QAM	25	0	21.19	21.15	21.31	22.7	0	
5	64QAM	1	0	20.77	20.82	20.81			
5	64QAM	1	12	20.98	20.93	21.04	22.7	0	
5	64QAM	1	24	20.97	20.99	21.03			
5	64QAM	12	0	21.21	21.14	21.30	22.7	0	
5	64QAM	12	7	21.24	21.32	21.32			
5	64QAM	12	13	21.13	21.32	21.24			
5	64QAM	25	0	21.18	21.26	21.21	22.7	0	

Band 38_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.46	23.46	23.40	24.5	0	
20	QPSK	1	49	23.28	23.41	23.34			
20	QPSK	1	99	23.29	23.37	23.33			
20	QPSK	50	0	22.51	22.55	22.49	23.5	1	
20	QPSK	50	24	22.31	22.39	22.34			
20	QPSK	50	50	22.30	22.43	22.34			
20	QPSK	100	0	22.42	22.50	22.44			
20	16QAM	1	0	22.52	22.51	22.47	23.5	1	
20	16QAM	1	49	22.36	22.33	22.42			
20	16QAM	1	99	22.37	22.42	22.41			
20	16QAM	50	0	21.57	21.52	21.52	22.5	2	
20	16QAM	50	24	21.34	21.33	21.38			
20	16QAM	50	50	21.45	21.35	21.41			
20	16QAM	100	0	21.51	21.46	21.45			
20	64QAM	1	0	21.23	21.26	21.17	22.5	2	
20	64QAM	1	49	21.07	21.09	21.05			
20	64QAM	1	99	21.19	21.20	21.20			
20	64QAM	50	0	20.52	20.51	20.49	21.5	3	
20	64QAM	50	24	20.40	20.37	20.39			
20	64QAM	50	50	20.31	20.36	20.32			
20	64QAM	100	0	20.48	20.44	20.41			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.33	23.45	23.37	24.5	0	
15	QPSK	1	37	23.19	23.32	23.22			
15	QPSK	1	74	23.20	23.25	23.21			
15	QPSK	36	0	22.37	22.43	22.41	23.5	1	
15	QPSK	36	20	22.22	22.25	22.20			
15	QPSK	36	39	22.23	22.34	22.23			
15	QPSK	75	0	22.29	22.41	22.32			
15	16QAM	1	0	22.47	22.44	22.33	23.5	1	
15	16QAM	1	37	22.32	22.28	22.37			
15	16QAM	1	74	22.24	22.36	22.31			
15	16QAM	36	0	21.43	21.47	21.38	22.5	2	
15	16QAM	36	20	21.30	21.24	21.30			
15	16QAM	36	39	21.36	21.25	21.29			
15	16QAM	75	0	21.48	21.44	21.37			
15	64QAM	1	0	21.10	21.17	21.14	22.5	2	
15	64QAM	1	37	20.99	21.02	20.95			
15	64QAM	1	74	21.10	21.08	21.06			
15	64QAM	36	0	20.45	20.46	20.38	21.5	3	
15	64QAM	36	20	20.27	20.30	20.33			



Band 41_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.08	24.32	24.39	24.33	24.34	25	0
20	QPSK	1	49	24.08	24.26	24.38	24.32	24.23		
20	QPSK	1	99	24.28	24.30	24.37	24.28	24.28	24.5	0.5
20	QPSK	50	0	23.67	23.78	23.85	23.79	23.86		
20	QPSK	50	24	23.50	23.54	23.69	23.52	23.61	24	0
20	QPSK	50	50	23.53	23.58	23.51	23.41	23.54		
20	QPSK	100	0	23.70	23.68	23.51	23.72	23.79	24.5	0.5
20	16QAM	1	0	23.74	23.48	23.75	23.70	23.76		
20	16QAM	1	49	23.49	23.56	23.46	23.51	23.45	24	0
20	16QAM	1	99	23.52	23.54	23.61	23.49	23.62		
20	16QAM	50	0	22.76	22.50	22.78	22.87	22.73	23.5	1.5
20	16QAM	50	24	22.52	22.50	22.47	22.51	22.48		
20	16QAM	50	50	22.54	22.54	22.61	22.61	22.54	23.5	1.5
20	16QAM	100	0	22.76	22.59	22.61	22.62	22.76		
20	64QAM	1	0	22.31	22.21	22.52	22.35	22.41	22.5	2.5
20	64QAM	1	49	22.29	22.41	22.45	22.33	22.48		
20	64QAM	1	99	22.34	22.39	22.48	22.47	22.49	22	2
20	64QAM	50	0	21.67	21.68	21.81	21.57	21.79		
20	64QAM	50	24	21.80	21.61	21.80	21.76	21.81	22	2
20	64QAM	50	50	21.55	21.73	21.62	21.61	21.55		
20	64QAM	100	0	21.72	21.54	21.61	21.75	21.83		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.94	23.88	24.10	23.95	24.18	25	0
15	QPSK	1	37	23.77	23.86	24.12	24.06	23.97		
15	QPSK	1	74	24.01	24.12	24.18	23.98	24.07	24.5	0.5
15	QPSK	36	0	23.43	23.49	23.75	23.52	23.60		
15	QPSK	36	20	23.27	23.27	23.42	23.28	23.39	24	0
15	QPSK	36	39	23.28	23.36	23.25	23.18	23.25		
15	QPSK	75	0	23.43	23.44	23.66	23.47	23.48	24.5	0.5
15	16QAM	1	0	23.54	23.24	23.56	23.51	23.58		
15	16QAM	1	37	23.25	23.34	23.26	23.21	23.16	24	0
15	16QAM	1	74	23.25	23.33	23.39	23.30	23.32		
15	16QAM	36	0	22.54	22.21	22.48	22.46	22.50	23.5	1.5
15	16QAM	36	20	22.34	22.19	22.29	22.24	22.26		
15	16QAM	36	39	22.31	22.35	22.37	22.38	22.28	23.5	1.5
15	16QAM	75	0	22.52	22.33	22.36	22.54	22.59		
15	64QAM	1	0	22.09	22.10	22.21	21.91	22.00	23.5	1.5
15	64QAM	1	37	22.05	22.31	22.01	22.22	22.37		
15	64QAM	1	74	22.20	21.94	22.38	22.35	22.27	22.5	2.5
15	64QAM	36	0	21.31	21.32	21.49	21.38	21.62		
15	64QAM	36	20	21.53	21.24	21.39	21.65	21.35	22	2
15	64QAM	36	39	21.35	21.28	21.35	21.42	21.42		
15	64QAM	75	0	21.28	21.18	21.30	21.58	21.46		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.99	24.14	23.98	24.12	24.04	25	0
10	QPSK	1	25	23.86	23.97	24.11	24.06	24.04		
10	QPSK	1	49	24.01	24.12	24.18	24.02	24.00	24.5	0.5
10	QPSK	25	0	23.44	23.58	23.68	23.48	23.63		
10	QPSK	25	12	23.26	23.32	23.44	23.33	23.41	24	0
10	QPSK	25	25	23.31	23.40	23.33	23.10	23.27		
10	QPSK	50	0	23.46	23.37	23.60	23.47	23.53	24.5	0.5
10	16QAM	1	0	23.46	23.20	23.54	23.40	23.46		
10	16QAM	1	25	23.19	23.31	23.15	23.24	23.21	24	0
10	16QAM	1	49	23.24	23.34	23.35	23.27	23.31		
10	16QAM	25	0	22.46	22.32	22.53	22.59	22.50	23.5	1.5
10	16QAM	25	12	22.24	22.32	22.25	22.33	22.17		
10	16QAM	25	25	22.29	22.36	22.42	22.42	22.27	24	0
10	16QAM	50	0	22.45	22.40	22.43	22.55	22.53		
10	64QAM	1	0	21.89	21.84	22.20	22.19	22.28	23.5	1.5
10	64QAM	1	25	22.19	22.16	22.18	22.07	22.12		
10	64QAM	1	49	21.94	21.93	22.11	22.26	22.16	22.5	2.5
10	64QAM	25	0	21.44	21.53	21.63	21.31	21.56		
10	64QAM	25	12	21.62	21.23	21.59	21.61	21.49	22	2
10	64QAM	25	25	21.30	21.37	21.16	21.49	21.33		
10	64QAM	50	0	21.34	21.20	21.24	21.34	21.69		
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	24.13	23.96	24.24	24.02	24.22	25	0
5	QPSK	1	12	23.72	23.96	24.20	24.05	23.96		
5	QPSK	1	24	24.03	24.10	24.12	24.08	24.10	24.5	0.5
5	QPSK	12	0	23.46	23.59	23.65	23.60	23.62		
5	QPSK	12	7	23.22	23.29	23.39	23.30	23.41	24	0
5	QPSK	12	13	23.34	23.30	23.32	23.19	23.33		
5	QPSK	25	0	23.51	23.42	23.64	23.44	23.48	24.5	0.5
5	16QAM	1	0	23.52	23.25	23.49	23.48	23.52		
5	16QAM	1	12	23.23	23.37	23.19	23.28	23.19	24	0
5	16QAM	1	24	23.25	23.33	23.33	23.29	23.43		
5	16QAM	12	0	22.47	22.20	22.56	22.59	22.55	23.5	1.5
5	16QAM	12	7	22.29	22.31	22.28	22.29	22.28		
5	16QAM	12	13	22.25	22.24	22.30	22.34	22.29	23	1
5	16QAM	25	0	22.55	22.34	22.30	22.53	22.48		
5	64QAM	1	0	22.20	21.76	22.09	22.14	22.11	23.5	1.5
5	64QAM	1	12	21.97	22.04	22.30	21.94	22.17		
5	64QAM	1	24	22.14	22.24	22.14	22.10	22.05	22.5	2.5
5	64QAM	12	0	21.24	21.54	21.88	21.44	21.36		
5	64QAM	12	7	21.30	21.47	21.67	21.57	21.43	22	2
5	64QAM	12	13	21.22	21.46	21.47	21.39	21.09		
5	64QAM	25	0	21.40	21.32	21.32	21.47	21.59		

Band 41_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.01	23.26	23.07	23.20	23.02	24	0
20	QPSK	1	49	22.91	23.24	22.73	22.69	22.88		
20	QPSK	1	99	22.93	22.83	22.60	22.64	22.78	24	0
20	QPSK	50	0	22.99	22.85	23.05	22.69	22.82		
20	QPSK	50	24	22.81	22.78	22.82	22.80	22.69	24	0
20	QPSK	50	50	22.76	22.56	22.77	22.61	22.62		
20	QPSK	100	0	22.71	22.78	23.03	22.71	22.78	24	0
20	16QAM	1	0	22.76	22.54	22.83	22.50	22.67		
20	16QAM	1	49	22.65	22.64	22.60	22.58	22.59	24	0
20	16QAM	1	99	22.73	22.71	22.74	22.73	22.76		
20	16QAM	50	0	21.85	21.60	21.88	21.53	21.83	23	1
20	16QAM	50	24	21.80	21.72	21.66	21.75	21.69		
20	16QAM	50	50	21.86	21.67	21.59	21.78	21.81	23	1
20	16QAM	100	0	21.83	21.55	21.84	21.54	21.63		
20	64QAM	1	0	21.86	21.26	21.62	21.29	21.37	23	1
20	64QAM	1	49	21.35	21.25	21.36	21.25	21.39		
20	64QAM	1	99	21.46	21.48	21.39	21.41	21.34	22	2
20	64QAM	50	0	20.91	20.49	20.87	20.37	20.59		
20	64QAM	50	24	20.62	20.63	20.52	20.66	20.72	22	2
20	64QAM	50	50	20.49	20.46	20.70	20.71	20.75		
20	64QAM	100	0	20.79	20.38					



Band 41_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.42	19.24	19.57	19.96	19.46	20.7	0
20	QPSK	1	49	19.26	19.23	19.47	19.28	19.45		
20	QPSK	1	99	19.18	19.20	19.34	19.26	19.32		
20	QPSK	50	0	19.45	19.29	19.53	19.42	19.49		
20	QPSK	50	24	19.43	19.27	19.46	19.38	19.25	20.7	0
20	QPSK	50	50	19.39	19.12	19.35	19.38	19.48		
20	QPSK	100	0	19.32	19.20	19.34	19.29	19.29		
20	16QAM	1	0	19.29	19.06	19.31	19.29	19.37		
20	16QAM	1	49	19.45	19.15	19.43	19.39	19.55	20.7	0
20	16QAM	1	99	19.29	19.31	19.55	19.46	19.54		
20	16QAM	50	0	19.36	19.11	19.51	19.38	19.37		
20	16QAM	50	24	19.32	19.23	19.30	19.45	19.39	20.7	0
20	16QAM	50	50	19.36	19.27	19.43	19.53	19.45		
20	16QAM	100	0	19.40	19.16	19.56	19.40	19.56		
20	64QAM	1	0	19.03	18.86	19.09	19.03	19.24		
20	64QAM	1	49	19.11	18.91	19.31	19.17	19.26	20.7	0
20	64QAM	1	99	18.92	19.00	19.26	19.13	19.26		
20	64QAM	50	0	19.25	19.13	19.41	19.42	19.56		
20	64QAM	50	24	19.34	19.20	19.44	19.42	19.52	20.7	0
20	64QAM	50	50	19.40	19.18	19.56	19.40	19.56		
20	64QAM	100	0	19.26	19.14	19.42	19.50	19.55		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.35	19.21	19.51	19.41	19.42	20.7	0
15	QPSK	1	37	19.25	19.19	19.44	19.21	19.41		
15	QPSK	1	74	19.14	19.14	19.27	19.19	19.25		
15	QPSK	36	0	19.39	19.22	19.46	19.35	19.46	20.7	0
15	QPSK	36	20	19.21	19.41	19.21	19.16	19.18		
15	QPSK	36	39	19.36	19.06	19.29	19.35	19.42		
15	QPSK	75	0	19.29	19.17	19.30	19.25	19.24		
15	16QAM	1	0	19.22	19.03	19.27	19.24	19.31		
15	16QAM	1	37	19.40	19.12	19.39	19.36	19.48	20.7	0
15	16QAM	1	74	19.22	19.25	19.51	19.42	19.51		
15	16QAM	36	0	19.37	19.07	19.44	19.34	19.34		
15	16QAM	36	20	19.26	19.16	19.26	19.36	19.36	20.7	0
15	16QAM	36	39	19.32	19.21	19.38	19.50	19.38		
15	16QAM	75	0	19.30	19.11	19.41	19.33	19.16		
15	64QAM	1	0	19.00	18.92	19.04	19.00	19.20		
15	64QAM	1	37	19.05	18.94	19.27	19.12	19.21	20.7	0
15	64QAM	1	74	19.36	18.94	19.21	19.26	19.21		
15	64QAM	36	0	19.21	19.10	19.36	19.36	19.50		
15	64QAM	36	20	19.30	19.16	19.39	19.37	19.46	20.7	0
15	64QAM	36	39	19.37	19.13	19.49	19.37	19.51		
15	64QAM	75	0	19.23	19.08	19.35	19.47	19.48		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.39	19.17	19.51	19.40	19.42	20.7	0
10	QPSK	1	25	19.24	19.16	19.40	19.24	19.36		
10	QPSK	1	49	19.13	19.15	19.27	19.19	19.28		
10	QPSK	25	0	19.38	19.24	19.50	19.35	19.43		
10	QPSK	25	12	19.36	19.21	19.41	19.31	19.20	20.7	0
10	QPSK	25	25	19.34	19.08	19.29	19.33	19.41		
10	QPSK	50	0	19.26	19.16	19.30	19.26	19.25		
10	16QAM	1	0	19.25	19.03	19.27	19.23	19.33	20.7	0
10	16QAM	1	25	19.37	19.11	19.40	19.33	19.50		
10	16QAM	1	49	19.26	19.25	19.50	19.43	19.51		
10	16QAM	25	0	19.31	19.07	19.46	19.35	19.30		
10	16QAM	25	12	19.26	19.18	19.25	19.41	19.35	20.7	0
10	16QAM	25	25	19.33	19.23	19.37	19.47	19.40		
10	16QAM	50	0	19.30	19.10	19.38	19.33	19.16		
10	64QAM	1	0	19.20	18.92	19.04	18.96	19.21	20.7	0
10	64QAM	1	25	19.04	18.95	19.24	19.11	19.21		
10	64QAM	1	49	18.95	18.93	19.23	19.10	19.20		
10	64QAM	25	0	19.22	19.08	19.36	19.36	19.51		
10	64QAM	25	12	19.29	19.14	19.38	19.38	19.47	20.7	0
10	64QAM	25	25	19.35	19.14	19.52	19.35	19.51		
10	64QAM	50	0	19.20	19.00	19.37	19.44	19.50		
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.37	19.18	19.53	19.42	19.42	20.7	0
5	QPSK	1	12	19.21	19.20	19.40	19.21	19.39		
5	QPSK	1	24	19.15	19.13	19.27	19.19	19.26		
5	QPSK	12	0	19.40	19.23	19.46	19.35	19.43		
5	QPSK	12	7	19.37	19.22	19.41	19.33	19.21	20.7	0
5	QPSK	12	13	19.34	19.07	19.32	19.33	19.45		
5	QPSK	25	0	19.25	19.17	19.30	19.23	19.26		
5	16QAM	1	0	19.25	19.02	19.28	19.23	19.30	20.7	0
5	16QAM	1	12	19.41	19.08	19.37	19.34	19.52		
5	16QAM	1	24	19.26	19.24	19.48	19.41	19.51		
5	16QAM	12	0	19.31	19.08	19.44	19.35	19.30		
5	16QAM	12	7	19.26	19.17	19.25	19.42	19.34	20.7	0
5	16QAM	12	13	19.20	19.23	19.39	19.47	19.39		
5	16QAM	25	0	19.30	19.08	19.38	19.35	19.17		
5	64QAM	1	0	18.97	18.90	19.06	18.98	19.19		
5	64QAM	1	12	19.06	18.94	19.27	19.12	19.22	20.7	0
5	64QAM	1	24	18.96	18.97	19.20	19.06	19.21		
5	64QAM	12	0	19.18	19.10	19.38	19.39	19.52		
5	64QAM	12	7	19.27	19.16	19.38	19.37	19.45	20.7	0
5	64QAM	12	13	19.36	19.13	19.49	19.34	19.52		
5	64QAM	25	0	19.19	19.10	19.37	19.46	19.48		

Band 41_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2500	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.46	19.36	19.33	19.39	19.50	24.5	0
20	QPSK	1	49	19.30	19.31	19.41	19.37	19.28		
20	QPSK	1	99	19.31	19.31	19.31	19.36	19.32		
20	QPSK	50	0	19.42	19.35	19.33	19.45	19.49		
20	QPSK	50	24	19.38	19.34	19.46	19.46	19.25	23.5	1
20	QPSK	50	50	19.32	19.27	19.39	19.32	19.33		
20	QPSK	100	0	19.36	19.36	19.49	19.40	19.42		
20	16QAM	1	0	19.23	19.30	19.25	19.39	19.51		
20	16QAM	1	49	19.38	19.42	19.37	19.42	19.39	23.5	1
20	16QAM	1	99	19.25	19.42	19.46	19.45	19.43		
20	16QAM	50	0	19.48	19.35	19.54	19.47	19.48		
20	16QAM	50	24	19.43	19.38	19.36	19.43	19.42	22.5	2
20	16QAM	50	50	19.35	19.37	19.39	19.30	19.32		
20	16QAM	100	0	19.29	19.30	19.34	19.34	19.27		
20	64QAM	1	0	19.22	19.07	19.29	19.14	19.32		
20	64QAM	1	49	19.16	19.12	19.10	19.08	19.11	22.5	2
20	64QAM	1	99	19.21	19.22	19.20	19.21	19.23		
20	64QAM	50	0	19.41	19.30	19.52	19.46	19.46		
20	64QAM	50	24	19.44	19.43	19.37	19.41	19.38	21.5	3
20	64QAM	50	50	19.29	19.30	19.34	19.34	19.27		



DS13

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		824.2	836.4	848.8		
TX Channel	524.2	836.4	848.8	512	861	810	524.2	836.4	848.8
Frequency (MHz)	924.2	836.4	848.8	924.2	836.4	848.8	924.2	836.4	848.8
GSM 1 Tx slot	32.70	32.74	32.72	33.50	23.70	23.74	23.72	24.50	
GPRS 1 Tx slot	32.66	32.68	32.69	33.50	23.66	23.68	23.69	24.50	
GPRS 2 Tx slots	30.19	30.14	30.22	30.50	24.19	24.14	24.22	24.50	
GPRS 3 Tx slots	28.35	28.33	28.36	28.70	24.09	24.07	24.10	24.44	
GPRS 4 Tx slots	26.59	26.96	26.92	27.50	23.59	23.96	23.92	24.50	
EDGE 1 Tx slot	26.61	26.66	26.61	27.50	17.61	17.66	17.61	18.50	
EDGE 2 Tx slots	23.65	23.67	23.64	24.50	17.65	17.67	17.64	18.50	
EDGE 3 Tx slots	21.73	21.78	21.71	22.70	17.47	17.52	17.45	18.44	
EDGE 4 Tx slots	20.94	20.97	20.88	21.50	17.94	17.97	17.88	18.50	

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		824.2	836.4	848.8		
TX Channel	524.2	836.4	848.8	512	861	810	524.2	836.4	848.8
Frequency (MHz)	924.2	836.4	848.8	924.2	836.4	848.8	924.2	836.4	848.8
GSM 1 Tx slot	32.58	32.43	32.37	33.50	23.58	23.43	23.37	24.50	
GPRS 1 Tx slot	32.56	32.41	32.34	33.50	23.56	23.41	23.34	24.50	
GPRS 2 Tx slots	29.92	29.77	29.76	30.50	23.92	23.77	23.76	24.50	
GPRS 3 Tx slots	28.07	27.96	27.93	28.70	23.81	23.70	23.67	24.44	
GPRS 4 Tx slots	26.71	26.73	26.58	27.50	23.71	23.73	23.58	24.50	
EDGE 1 Tx slot	26.23	26.31	26.27	27.50	17.23	17.31	17.27	18.00	
EDGE 2 Tx slots	23.30	23.36	23.32	24.00	17.30	17.36	17.32	18.00	
EDGE 3 Tx slots	21.44	21.42	21.38	22.20	17.18	17.16	17.12	17.94	
EDGE 4 Tx slots	20.47	20.56	20.43	21.00	17.47	17.56	17.43	18.00	

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		850.2	860	809.8		
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880	1909.8
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880	1909.8
GSM 1 Tx slot	29.38	29.48	29.46	30.50	20.38	20.48	20.46	21.50	
GPRS 1 Tx slot	29.35	29.44	29.42	30.50	20.35	20.44	20.42	21.50	
GPRS 2 Tx slots	26.93	27.01	26.99	27.50	20.93	21.01	20.99	21.50	
GPRS 3 Tx slots	25.14	25.26	25.22	25.70	20.88	21.00	20.96	21.44	
GPRS 4 Tx slots	23.84	23.93	23.89	24.50	20.84	20.93	20.89	21.50	
EDGE 1 Tx slot	22.61	22.66	22.61	23.50	16.75	16.88	16.86	17.50	
EDGE 2 Tx slots	22.31	22.26	22.28	23.50	16.31	16.26	16.28	17.50	
EDGE 3 Tx slots	20.02	19.91	19.97	21.70	15.76	15.65	15.71	17.44	
EDGE 4 Tx slots	19.11	19.04	19.06	20.50	16.11	16.04	16.06	17.50	

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		850.2	860	809.8		
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880	1909.8
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880	1909.8
GSM 1 Tx slot	29.40	29.56	29.51	30.50	20.40	20.56	20.51	21.50	
GPRS 1 Tx slot	29.39	29.52	29.50	30.50	20.39	20.52	20.50	21.50	
GPRS 2 Tx slots	26.95	27.05	27.02	27.50	20.95	21.05	21.02	21.50	
GPRS 3 Tx slots	25.18	25.30	25.28	25.70	20.92	21.04	21.02	21.44	
GPRS 4 Tx slots	23.86	23.97	23.95	24.50	20.86	20.97	20.95	21.50	
EDGE 1 Tx slot	22.63	22.91	22.87	23.50	17.03	16.91	16.97	17.50	
EDGE 2 Tx slots	22.66	22.36	22.53	23.50	16.66	16.38	16.53	17.50	
EDGE 3 Tx slots	20.17	19.95	20.12	21.70	15.91	15.69	15.86	17.44	
EDGE 4 Tx slots	19.32	19.24	19.31	20.50	16.32	16.24	16.31	17.50	

Band	TX Channel	Rx Channel	WCDMA U_Ant 0			Tune-up Limit (dBm)	WCDMA U_Ant 2			Tune-up Limit (dBm)
			9202	9500	9538		9562	9800	9938	
3GPP Rel 99	AMR 12.2Kbps		23.78	23.82	23.66	24.50	23.86	23.95	23.81	25.00
3GPP Rel 99	RMC 12.2Kbps		23.84	23.88	23.71	24.50	24.02	24.07	23.93	25.00
3GPP Rel 6	HSDPA Subtest-1		22.75	22.93	22.86	23.50	22.98	23.18	23.16	24.00
3GPP Rel 6	HSDPA Subtest-2		22.90	22.88	22.87	23.50	23.15	23.05	23.09	24.00
3GPP Rel 6	HSDPA Subtest-3		22.17	22.33	22.27	23.00	22.84	22.51	22.57	23.50
3GPP Rel 6	HSDPA Subtest-4		22.35	22.47	22.30	23.00	22.52	22.80	22.80	23.50
3GPP Rel 6	DC-HSDPA Subtest-1		23.01	22.89	22.95	23.50	23.13	23.19	23.18	24.00
3GPP Rel 6	DC-HSDPA Subtest-2		22.76	22.96	22.83	23.50	23.10	23.19	23.00	24.00
3GPP Rel 6	DC-HSDPA Subtest-3		22.37	22.45	22.33	23.00	22.63	22.76	22.63	23.50
3GPP Rel 6	DC-HSDPA Subtest-4		22.27	22.47	22.30	23.00	22.50	22.72	22.47	23.50
3GPP Rel 6	HSUPA Subtest-1		22.85	22.89	22.84	23.50	23.15	23.18	23.15	24.00
3GPP Rel 6	HSUPA Subtest-2		23.77	21.02	21.00	21.50	21.00	21.34	21.25	22.00
3GPP Rel 6	HSUPA Subtest-3		21.96	21.95	21.82	22.50	22.15	22.23	22.05	23.00
3GPP Rel 6	HSUPA Subtest-4		20.82	20.84	20.91	21.50	20.99	21.04	21.06	22.00
3GPP Rel 6	HSUPA Subtest-5		22.95	23.03	22.89	23.50	23.25	23.22	23.10	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1		20.21	20.55	20.33	21.00	20.59	20.81	20.59	21.50

Band	TX Channel	Rx Channel	WCDMA M_Ant 0			Tune-up Limit (dBm)	WCDMA M_Ant 2			Tune-up Limit (dBm)
			1312	1413	1513		1537	1638	1738	
3GPP Rel 99	AMR 12.2Kbps		24.20	24.28	24.16	25.00	24.22	24.37	24.29	25.50
3GPP Rel 99	RMC 12.2Kbps		24.32	24.36	24.27	25.00	24.37	24.51	24.40	25.50
3GPP Rel 6	HSDPA Subtest-1		23.16	23.36	23.24	24.00	23.51	23.67	23.59	24.50
3GPP Rel 6	HSDPA Subtest-2		23.30	23.25	23.23	24.00	23.55	23.54	23.59	24.50
3GPP Rel 6	HSDPA Subtest-3		22.80	22.68	22.76	23.50	23.04	22.97	23.02	24.00
3GPP Rel 6	HSDPA Subtest-4		22.85	22.95	22.86	23.50	22.95	23.16	22.95	24.00
3GPP Rel 6	DC-HSDPA Subtest-1		23.29	23.26	23.33	24.00	23.72	23.69	23.72	24.50
3GPP Rel 6	DC-HSDPA Subtest-2		23.20	23.43	23.17	24.00	23.45	23.65	23.51	24.00
3GPP Rel 6	DC-HSDPA Subtest-3		22.78	22.94	22.80	23.50	23.20	23.14	23.03	24.00
3GPP Rel 6	DC-HSDPA Subtest-4		22.68	22.82	22.71	23.50	22.80	23.13	23.02	24.00
3GPP Rel 6	HSUPA Subtest-1		23.22	23.30	23.20	24.00	23.55	23.67	23.58	24.50
3GPP Rel 6	HSUPA Subtest-2		21.30	21.40	21.34	22.00	21.50	21.78	21.64	22.50
3GPP Rel 6	HSUPA Subtest-3		22.39	22.36	22.12	23.00	22.68	22.56	22.50	
3GPP Rel 6	HSUPA Subtest-4		21.15	21.26	21.31	22.00	21.42	21.54	21.62	22.50
3GPP Rel 6	HSUPA Subtest-5		23.35	23.41	23.32	24.00	23.62	23.67	23.65	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1		20.69	20.85	20.61	21.50	20.98	21.15	21.00	22.00

Band	TX Channel	Rx Channel	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)
			4132	4182	4233		4357	4407	4458	
3GPP Rel 99	AMR 12.2Kbps		24.17	24.23	24.11	25.00	23.85	23.94	23.88	25.00
3GPP Rel 99	RMC 12.2Kbps		24.28	24.31	24.25	25.00	23.97	24.01	23.95	25.00
3GPP Rel 6	HSDPA Subtest-1		23.22	23.36	23.29	24.00	22.81	22.93	23.08	24.00
3GPP Rel 6	HSDPA Subtest-2		23.38	23.29	23.28	24.00	23.03	22.96	23.03	24.00
3GPP Rel 6	HSDPA Subtest-3		22.71	22.68	22.74	23.50	22.43	22.45	22.35	23.50
3GPP Rel 6	HSDPA Subtest-4		22.63	22.81	22.59	23.50	22.46	22.62	22.39	23.50
3GPP Rel 6	DC-HSDPA Subtest-1		23.38	23.37	23.30	24.00	22.82	23.00	23.10	24.00
3GPP Rel 6	DC-HSDPA Subtest-2		23.13	23.40	23.25	24.00	22.91	23.15	22.91	24.00
3GPP Rel 6	DC-HSDPA Subtest-3		22.84	22.92	22.74	23.50	22.46	22.59	22.42	23.50
3GPP Rel 6	DC-HSDPA Subtest-4		22.70	22.88	22.61	23.50	22.36	22.59	22.33	23.50
3GPP Rel 6	HSUPA Subtest-1		23.26	23.30	23.24	24.00	22.81	23.08	22.97	24.00
3GPP Rel 6	HSUPA Subtest-2		21.08	21.37	21.41	22.00	20.84	21.13	21.06	22.00
3GPP Rel 6	HSUPA Subtest-3		22.42	22.37	22.17	23.00	21.99	22.07	21.83	23.00
3GPP Rel 6	HSUPA Subtest-4		21.18	21.27	21.24	22.00	20.86	21.00	21.04	22.00
3GPP Rel 6	HSUPA Subtest-5		23.42	23.38	23.32	24.00	23.08	22.99	22.95	24.00



Band 2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)									
20	QPSK	1	0	22.02	22.08	22.01			
20	QPSK	1	49	23.02	23.08	23.01	24	0	
20	QPSK	1	99	23.08	23.14	23.00			
20	QPSK	50	0	22.06	22.15	22.10			
20	QPSK	50	24	22.01	22.13	21.98	23	1	
20	QPSK	50	50	22.05	22.12	22.07			
20	QPSK	100	0	22.10	22.16	22.09			
20	16QAM	1	0	22.16	22.27	22.22			
20	16QAM	1	49	22.13	22.23	22.12	23	1	
20	16QAM	1	99	22.02	22.15	22.07			
20	16QAM	50	0	21.07	21.14	21.00			
20	16QAM	50	24	21.08	21.22	21.15	22	2	
20	16QAM	50	50	21.01	21.10	21.02			
20	16QAM	100	0	21.01	21.06	20.96			
20	64QAM	1	0	21.05	21.15	21.10			
20	64QAM	1	49	20.98	21.03	20.97	22	2	
20	64QAM	1	99	21.09	21.17	21.06			
20	64QAM	50	0	20.04	20.12	20.06			
20	64QAM	50	24	20.03	20.07	19.96	21	3	
20	64QAM	50	50	19.98	19.98	19.98			
20	64QAM	100	0	19.97	20.05	19.93			
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	0	23.05	23.10	22.94			
15	QPSK	1	37	22.84	22.90	22.85	24	0	
15	QPSK	1	74	22.96	22.99	22.93			
15	QPSK	36	0	21.92	22.04	22.00			
15	QPSK	36	25	21.98	22.06	21.93	23	1	
15	QPSK	36	39	21.96	22.00	21.83			
15	QPSK	75	0	22.03	22.06	22.03			
15	16QAM	1	0	22.11	22.22	22.17			
15	16QAM	1	37	21.99	22.11	22.00	23	1	
15	16QAM	1	74	21.94	22.02	22.00			
15	16QAM	36	0	20.98	21.06	20.97			
15	16QAM	36	20	21.01	21.11	21.03	22	2	
15	16QAM	36	39	20.88	20.96	20.97			
15	16QAM	75	0	20.87	20.92	20.85			
15	64QAM	1	0	20.97	21.06	21.04			
15	64QAM	1	37	20.91	20.91	20.87	22	2	
15	64QAM	1	74	20.92	21.01	20.97			
15	64QAM	36	0	19.95	20.09	19.99			
15	64QAM	36	20	19.91	19.94	19.88	21	3	
15	64QAM	36	39	19.77	19.88	19.81			
15	64QAM	75	0	19.88	19.94	19.90			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	0	22.98	23.05	22.96			
10	QPSK	1	25	22.97	23.06	22.93	24	0	
10	QPSK	1	49	23.03	23.09	22.96			
10	QPSK	25	0	22.02	22.06	21.97			
10	QPSK	25	12	21.97	22.07	21.87	23	1	
10	QPSK	25	25	22.02	21.98	21.99			
10	QPSK	50	0	21.99	22.05	22.01			
10	16QAM	1	0	22.05	22.14	22.18			
10	16QAM	1	25	22.05	22.10	22.08	23	1	
10	16QAM	1	49	21.98	22.08	22.02			
10	16QAM	25	0	21.03	21.08	20.85			
10	16QAM	25	12	20.94	21.13	21.09	22	2	
10	16QAM	25	25	20.93	20.96	20.94			
10	16QAM	50	0	20.91	20.95	20.91			
10	64QAM	1	0	21.01	21.11	21.07			
10	64QAM	1	25	20.90	20.95	20.91	22	2	
10	64QAM	1	49	21.01	21.05	21.01			
10	64QAM	25	0	19.92	20.04	20.01			
10	64QAM	25	12	19.95	20.02	19.91	21	3	
10	64QAM	25	25	19.76	19.90	19.81			
10	64QAM	50	0	19.85	19.98	19.89			
Channel				18525	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	0	23.07	23.04	22.87			
5	QPSK	1	12	22.95	22.97	22.82	24	0	
5	QPSK	1	24	22.95	23.09	22.93			
5	QPSK	12	0	21.95	22.08	22.06			
5	QPSK	12	7	21.90	22.10	21.89	23	1	
5	QPSK	12	13	21.90	22.07	21.93			
5	QPSK	25	0	21.96	22.06	22.04			
5	16QAM	1	0	22.13	22.22	22.17			
5	16QAM	1	12	22.09	22.10	22.02	23	1	
5	16QAM	1	24	21.91	22.07	21.95			
5	16QAM	12	0	21.02	21.05	20.91			
5	16QAM	12	7	21.00	21.12	21.08	22	2	
5	16QAM	12	13	20.88	21.00	20.92			
5	16QAM	25	0	20.86	20.91	20.86			
5	64QAM	1	0	21.01	21.03	20.99			
5	64QAM	1	12	20.91	20.94	20.89	22	2	
5	64QAM	1	24	21.00	21.08	20.97			
5	64QAM	12	0	19.90	20.03	20.01			
5	64QAM	12	7	19.95	19.99	19.93	21	3	
5	64QAM	12	13	19.77	19.95	19.83			
5	64QAM	25	0	19.85	19.96	19.82			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
3	QPSK	1	0	23.06	23.08	22.79			
3	QPSK	1	8	22.91	22.96	22.88	24	0	
3	QPSK	1	14	22.90	23.07	22.86			
3	QPSK	8	0	21.92	22.03	21.97			
3	QPSK	8	4	21.88	22.00	21.86	23	1	
3	QPSK	8	7	21.97	22.03	21.97			
3	QPSK	15	0	21.99	22.02	22.01			
3	16QAM	1	0	22.05	22.14	22.16			
3	16QAM	1	8	22.10	22.09	22.04	23	1	
3	16QAM	1	14	21.99	22.09	22.01			
3	16QAM	8	0	20.98	21.05	20.90			
3	16QAM	8	4	20.98	21.19	21.02	22	2	
3	16QAM	8	7	20.90	21.06	20.95			
3	16QAM	15	0	20.89	21.01	20.93			
3	64QAM	1	0	20.91	21.04	20.95			
3	64QAM	1	8	20.93	20.92	20.88	22	2	
3	64QAM	1	14	20.97	21.08	20.91			
3	64QAM	8	0	19.93	20.03	20.01			
3	64QAM	8	4	19.91	19.93	19.87	21	3	
3	64QAM	8	7	19.79	19.91	19.81			
3	64QAM	15	0	19.85	19.94	19.87			
Channel				18597	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
1.4	QPSK	1	0	23.05	23.04	22.91			
1.4	QPSK	1	3	22.86	22.90	22.82	24	0	
1.4	QPSK	1	5	22.99	23.01	22.87			
1.4	QPSK	3	0	22.91	23.03	23.00			
1.4	QPSK	3	1	22.95	23.05	22.88	23	1	
1.4	QPSK	3	2	22.93	23.03	23.01			
1.4	QPSK	6	0	22.07	22.07	22.03			
1.4	16QAM	1	0	22.02	22.17	22.18			
1.4	16QAM	1	3	22.02	22.18	22.08	23	1	
1.4	16QAM	1	5	21.93	22.09	22.03			
1.4	16QAM	3	0	21.97	22.04	21.98			
1.4	16QAM	3	1	21.95	22.15	22.06	22	2	
1.4	16QAM	3	1	20.96	21.03	20.93			
1.4	16QAM	6	0	20.92	20.96	20.91	22	2	
1.4	64QAM	1	0	21.02	21.08	21.05			
1.4	64QAM	1	3	20.88	20.96	20.85			
1.4	64QAM	1	5	21.00	21.14	20.93	22	2	
1.4	64QAM	3	0	20.94	21.06	21.00			
1.4	64QAM	3	1	20.96	21.03	20.93	21	3	
1.4	64QAM	3	3	20.82	20.86	20.83			
1.4	64QAM	6	0	19.85	19.94	19.83	21	3	

Band 2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)									
20	QPSK	1	0	19.95	19.25	19.00			
20	QPSK	1	49	19.08	19.13	19.02	20.2	0	
20	QPSK	1	99	18.86	18.97	18.91			
20	QPSK	50	0	19.05	19.17	19.10			
20	QPSK	50	24	19.02	19.13	19.09	20.2	0	
20	QPSK	50	50	19.04	19.10	19.00			
20	QPSK	100	0	19.03	19.11	19.02			
20	16QAM	1	0	19.19	19.12	19.06			
20	16QAM	1	49	19.19	19.22	19.16	20.2	0	
20	16QAM	1	99	19.16	19.24	19.20			
20	16QAM	50	0	19.03	19.15	19.05			
20	16QAM	50	24	19.09	19.17	19.11	20.2	0	
20	16QAM	50	50	19.07	19.10	19.03			
20	16QAM	100	0	19.04	19.11	19.09			
20	64QAM	1	0	19.17	19.24	19.15			
20	64QAM	1	49	19.10	19.21	19.18	20.2	0	
20	64QAM	1	99	19.02	19.11	19.05			
20	64QAM	50	0	19.06	19.14	19.06			
20	64QAM	50	24	19.09	19.14	19.05	20.2	0	
20	64QAM	50	50	19.04	19.10	19.00			
20	64QAM	100	0	19.06	19.10	19.02			
Channel				18					



Band 4_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				20550	20175	20350				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	22.26	22.38	22.31				
20	QPSK	1	49	22.26	22.38	22.26			23.6	0
20	QPSK	1	99	22.06	22.05	22.13				
20	QPSK	50	0	22.23	22.33	22.28				
20	QPSK	50	24	22.21	22.24	22.27			23.6	0
20	QPSK	50	50	22.22	22.25	22.21				
20	QPSK	100	0	22.09	22.26	22.25				
20	16QAM	1	0	22.35	22.33	22.17				
20	16QAM	1	49	22.21	22.31	22.27			23.6	0
20	16QAM	1	99	22.30	22.30	22.35				
20	16QAM	50	0	21.55	21.83	21.76				
20	16QAM	50	24	21.75	21.77	21.76			23.1	0.5
20	16QAM	50	50	21.72	21.73	21.80				
20	16QAM	100	0	21.63	21.69	21.74				
20	64QAM	1	0	21.83	21.83	21.84				
20	64QAM	1	49	21.85	21.87	21.90			23.1	0.5
20	64QAM	1	99	21.72	21.64	21.80				
20	64QAM	50	0	20.55	20.85	20.76				
20	64QAM	50	24	20.75	20.76	20.71			22.1	1.5
20	64QAM	50	50	20.72	20.71	20.78				
20	64QAM	100	0	20.62	20.68	20.76				
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	22.16	22.31	22.25			23.6	0
15	QPSK	1	37	22.18	22.14	22.25				
15	QPSK	1	74	22.05	21.97	22.08				
15	QPSK	36	0	22.15	22.29	22.21				
15	QPSK	36	29	22.17	22.16	22.20			23.6	0
15	QPSK	75	0	22.02	22.25	22.18				
15	16QAM	1	0	22.30	22.31	22.16				
15	16QAM	1	37	22.12	22.30	22.16			23.6	0
15	16QAM	1	74	22.23	22.23	22.23				
15	16QAM	36	0	22.45	21.82	21.72				
15	16QAM	36	20	21.71	21.70	21.72			23.1	0.5
15	16QAM	36	39	21.65	21.62	21.71				
15	16QAM	75	0	21.60	21.57	21.65				
15	64QAM	1	0	21.75	21.71	21.72				
15	64QAM	1	37	21.81	21.79	21.85			23.1	0.5
15	64QAM	1	74	21.69	21.73	21.71				
15	64QAM	36	0	20.52	20.73	20.67				
15	64QAM	36	20	20.65	20.73	20.64			22.1	1.5
15	64QAM	36	39	20.57	20.61	20.72				
15	64QAM	75	0	20.53	20.62	20.74				
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	22.17	22.34	22.29			23.6	0
10	QPSK	1	25	22.16	22.19	22.17				
10	QPSK	1	49	21.94	22.03	22.06				
10	QPSK	25	0	22.19	22.30	22.27				
10	QPSK	25	12	22.11	22.18	22.23			23.6	0
10	QPSK	25	25	22.19	22.21	22.19				
10	QPSK	50	0	22.00	22.21	22.23				
10	16QAM	1	0	22.33	22.26	22.13			23.6	0
10	16QAM	1	25	22.16	22.19	22.24				
10	16QAM	1	49	22.27	22.22	22.26				
10	16QAM	25	0	21.44	21.75	21.75				
10	16QAM	25	12	21.65	21.65	21.75			23.1	0.5
10	16QAM	25	25	21.68	21.68	21.75				
10	16QAM	50	0	21.59	21.61	21.63				
10	64QAM	1	0	21.73	21.78	21.78				
10	64QAM	1	25	21.82	21.86	21.81			23.1	0.5
10	64QAM	1	49	21.64	21.60	21.79				
10	64QAM	25	0	20.54	20.82	20.70				
10	64QAM	25	12	20.63	20.74	20.75			22.1	1.5
10	64QAM	25	25	20.59	20.68	20.74				
10	64QAM	50	0	20.54	20.66	20.71				
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	22.20	22.36	22.27			23.6	0
5	QPSK	1	12	22.17	22.14	22.24				
5	QPSK	1	24	22.00	21.95	22.02				
5	QPSK	12	0	22.17	22.21	22.23				
5	QPSK	12	7	22.18	22.23	22.24			23.6	0
5	QPSK	12	14	22.13	22.20	22.20				
5	QPSK	25	0	22.06	22.17	22.16				
5	16QAM	1	0	22.26	22.22	22.08				
5	16QAM	1	12	22.16	22.22	22.15			23.6	0
5	16QAM	1	24	22.18	22.18	22.25				
5	16QAM	12	0	21.45	21.82	21.85				
5	16QAM	12	7	21.74	21.72	21.72				
5	16QAM	12	13	21.63	21.66	21.79			23.1	0.5
5	16QAM	25	0	21.58	21.64	21.69				
5	64QAM	1	0	21.76	21.72	21.75				
5	64QAM	1	12	21.83	21.84	21.84			23.1	0.5
5	64QAM	1	24	21.68	21.53	21.71				
5	64QAM	12	0	20.46	20.76	20.64				
5	64QAM	12	7	20.74	20.73	20.78			22.1	1.5
5	64QAM	12	13	20.65	20.70	20.74				
5	64QAM	25	0	20.58	20.56	20.72				
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1711.5	1732.5	1753.5				
3	QPSK	1	0	22.23	22.30	22.23			23.6	0
3	QPSK	1	8	22.17	22.19	22.21				
3	QPSK	1	16	22.01	21.96	22.09				
3	QPSK	8	0	22.15	22.27	22.27				
3	QPSK	8	4	22.20	22.18	22.20			23.6	0
3	QPSK	8	7	22.12	22.15	22.22				
3	QPSK	15	0	21.97	22.14	22.22				
3	16QAM	1	0	22.27	22.25	22.12			23.6	0
3	16QAM	1	8	22.20	22.24	22.26				
3	16QAM	1	14	22.20	22.20	22.33				
3	16QAM	8	0	21.52	21.71	21.73				
3	16QAM	8	4	21.64	21.73	21.69			23.1	0.5
3	16QAM	8	7	21.60	21.67	21.78				
3	16QAM	15	0	21.54	21.61	21.72				
3	64QAM	1	0	21.77	21.82	21.83				
3	64QAM	1	8	21.83	21.78	21.79			23.1	0.5
3	64QAM	1	14	21.66	21.55	21.70				
3	64QAM	8	0	20.54	20.79	20.59				
3	64QAM	8	4	20.72	20.85	20.69			22.1	1.5
3	64QAM	8	7	20.62	20.66	20.74				
3	64QAM	15	0	20.61	20.56	20.69				
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	22.16	22.33	22.19			23.6	0
1.4	QPSK	1	3	22.14	22.11	22.17				
1.4	QPSK	1	5	22.04	21.97	22.07				
1.4	QPSK	3	0	22.14	22.22	22.22			23.6	0
1.4	QPSK	3	1	22.14	22.16	22.20				
1.4	QPSK	3	3	22.17	22.21	22.14				
1.4	QPSK	6	0	22.00	22.15	22.22			23.6	0
1.4	16QAM	1	0	22.32	22.23	22.10				
1.4	16QAM	1	3	22.18	22.24	22.26				
1.4	16QAM	1	5	22.22	22.29	22.24			23.6	0
1.4	16QAM	3	0	22.22	22.22	22.07				
1.4	16QAM	3	1	22.13	22.22	22.15				
1.4	16QAM	3	1	22.21	22.20	22.23				
1.4	16QAM	6	0	21.54	21.60	21.64			23.1	0.5
1.4	64QAM	1	0	21.77	21.79	21.81				
1.4	64QAM	1	3	21.78	21.76	21.86				
1.4	64QAM	1	5	21.66	21.57	21.78			23.1	0.5
1.4	64QAM	3	0	21.73	21.71	21.74				
1.4	64QAM	3	1	21.74	21.73	21.78				
1.4	64QAM	3	3	21.64	21.50	21.71				
1.4	64QAM	6	0	20.55	20.59	20.67			22.1	1.5

Band 4_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				20550	20175	20350				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	24.45	24.49	24.58			25.6	0
20	QPSK	1	49	24.55	24.54	24.49				
20	QPSK	1	99	24.45	24.54	24.49				
20	QPSK	50	0	23.54	23.66	23.61				
20	QPSK	50	24	23.51	23.61	23.53			24.6	1
20	QPSK	50	50	23.45	23.57	23.42				
20	QPSK	100	0	23.53	23.60	23.55				
20	16QAM	1	0	23.27	23.65	23.61				
20	16QAM	1	49	23.43	23.47	23.43			24.6	1
20										



Band 5_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	24.32	24.44	24.51	25.5	0			
10	QPSK	1	25	24.37	24.42	24.34					
10	QPSK	1	49	24.24	24.36	24.32					
10	QPSK	25	0	23.30	23.39	23.35	24.5	1			
10	QPSK	25	12	23.27	23.32	23.21					
10	QPSK	25	25	23.18	23.30	23.20					
10	QPSK	50	0	23.22	23.32	23.22	24.5	1			
10	16QAM	1	0	23.43	23.52	23.48					
10	16QAM	1	25	23.31	23.38	23.34					
10	16QAM	1	49	23.33	23.38	23.37	23.5	2			
10	16QAM	25	0	22.33	22.36	22.31					
10	16QAM	25	12	22.19	22.25	22.20					
10	16QAM	25	25	22.24	22.29	22.19	23.5	2			
10	16QAM	50	0	22.23	22.35	22.28					
10	64QAM	1	0	22.34	22.47	22.41					
10	64QAM	1	25	22.17	22.32	22.30	22.5	3			
10	64QAM	1	49	22.20	22.38	22.35					
10	64QAM	25	0	21.28	21.37	21.34					
10	64QAM	25	12	21.15	21.24	21.22	20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
10	64QAM	25	25	21.17	21.26	21.29					
10	64QAM	50	0	21.35	21.30	21.28					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	24.26	24.32	24.29	25.5	0			
5	QPSK	1	12	24.23	24.37	24.20					
5	QPSK	1	24	24.17	24.25	24.20					
5	QPSK	12	0	23.16	23.32	23.25	24.5	1			
5	QPSK	12	7	23.17	23.23	23.13					
5	QPSK	12	13	23.03	23.22	23.13					
5	QPSK	25	0	23.17	23.28	23.09	24.5	1			
5	16QAM	1	0	23.34	23.38	23.41					
5	16QAM	1	12	23.28	23.29	23.22					
5	16QAM	1	24	23.20	23.27	23.29	23.5	2			
5	16QAM	12	0	22.22	22.25	22.26					
5	16QAM	12	7	22.10	22.22	22.14					
5	16QAM	12	13	22.20	22.14	22.11	23.5	2			
5	16QAM	25	0	22.16	22.26	22.16					
5	64QAM	1	0	22.30	22.36	22.37					
5	64QAM	1	12	22.12	22.22	22.19	22.5	3			
5	64QAM	1	24	22.11	22.26	22.28					
5	64QAM	12	0	21.22	21.32	21.25					
5	64QAM	12	7	21.04	21.19	21.17	20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
5	64QAM	12	13	21.02	21.22	21.25					
5	64QAM	25	0	21.28	21.17	21.18					
Channel				20415	20525	20635					
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	24.32	24.30	24.32	25.5	0			
3	QPSK	1	8	24.30	24.37	24.21					
3	QPSK	1	14	24.12	24.29	24.22					
3	QPSK	8	0	23.22	23.32	23.25	24.5	1			
3	QPSK	8	4	23.15	23.18	23.14					
3	QPSK	8	7	23.14	23.23	23.05					
3	QPSK	15	0	23.18	23.24	23.11	24.5	1			
3	16QAM	1	0	23.35	23.49	23.38					
3	16QAM	1	8	23.24	23.29	23.20					
3	16QAM	1	14	23.24	23.25	23.33	23.5	2			
3	16QAM	8	0	22.21	22.21	22.20					
3	16QAM	8	4	22.10	22.21	22.07					
3	16QAM	8	7	22.13	22.15	22.13	23.5	2			
3	16QAM	15	0	22.11	22.30	22.15					
3	64QAM	1	0	22.29	22.32	22.30					
3	64QAM	1	8	22.12	22.24	22.20	22.5	3			
3	64QAM	1	14	22.12	22.31	22.24					
3	64QAM	8	0	21.17	21.33	21.25					
3	64QAM	8	4	21.02	21.10	21.13	20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
3	64QAM	8	7	21.05	21.13	21.16					
3	64QAM	15	0	21.30	21.23	21.15					
Channel				824.7	836.5	848.3					
Frequency (MHz)				24.25	24.31	24.38					
1.4	QPSK	1	0	24.25	24.31	24.38	25.5	0			
1.4	QPSK	1	3	24.32	24.27	24.25					
1.4	QPSK	1	5	24.11	24.30	24.22					
1.4	QPSK	3	0	24.21	24.24	24.22	24.5	1			
1.4	QPSK	3	1	24.12	24.13	24.12					
1.4	QPSK	3	3	24.08	24.18	24.04					
1.4	QPSK	6	0	23.10	23.17	23.18	24.5	1			
1.4	16QAM	1	0	23.33	23.44	23.43					
1.4	16QAM	1	3	23.27	23.34	23.30					
1.4	16QAM	1	5	23.27	23.31	23.22	23.5	2			
1.4	16QAM	3	0	23.16	23.25	23.15					
1.4	16QAM	3	1	23.01	23.17	23.09					
1.4	16QAM	3	3	23.06	23.17	23.08	20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
1.4	16QAM	6	0	22.08	22.24	22.18					
1.4	64QAM	1	0	22.27	22.33	22.34					
1.4	64QAM	1	3	22.11	22.28	22.21	23.5	2			
1.4	64QAM	1	5	22.12	22.32	22.21					
1.4	64QAM	3	0	22.11	22.23	22.25					
1.4	64QAM	3	1	21.98	22.07	22.04	20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
1.4	64QAM	3	3	22.03	22.18	22.15					
1.4	64QAM	6	0	21.31	21.16	21.21					

Band 5_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	23.95	24.11	24.01	25.4	0			
10	QPSK	1	25	23.93	24.02	23.86					
10	QPSK	1	49	23.95	24.07	23.95					
10	QPSK	25	0	22.95	22.99	22.92	24.4	1			
10	QPSK	25	12	22.79	22.92	22.79					
10	QPSK	25	25	22.94	22.98	22.91					
10	QPSK	50	0	22.91	22.98	22.82	24.4	1			
10	16QAM	1	0	23.14	23.24	23.21					
10	16QAM	1	25	23.17	23.10	23.16					
10	16QAM	1	49	23.14	23.10	23.06	23.4	2			
10	16QAM	25	0	21.84	21.90	21.96					
10	16QAM	25	12	21.75	21.70	21.73					
10	16QAM	25	25	21.89	21.87	21.75	23.4	2			
10	16QAM	50	0	21.95	21.93	21.87					
10	64QAM	1	0	22.10	22.14	22.10					
10	64QAM	1	25	21.93	22.00	21.93	22.4	3			
10	64QAM	1	49	22.01	21.93	21.91					
10	64QAM	25	0	21.01	20.92	20.88					
10	64QAM	25	12	20.74	20.73	20.76	20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
10	64QAM	25	25	20.75	20.82	20.77					
10	64QAM	50	0	20.95	20.91	20.99					
Channel				826.5	836.5	846.5					
Frequency (MHz)				23.87	24.02	23.95					
5	QPSK	1	0	23.87	24.02	23.95	25.4	0			
5	QPSK	1	12	23.83	23.94	23.75					
5	QPSK	1	24	23.85	24.01	23.82					
5	QPSK	12	0	22.92	22.87	22.76	24.4	1			
5	QPSK	12	7	22.75	22.80	22.67					
5	QPSK	12	13	22.85	22.89	22.86					
5	QPSK	25	0	22.85	22.89	22.78	24.4	1			
5	16QAM	1	0	23.02	23.12	23.11					
5	16QAM	1	12	23.12	23.02	23.13					
5	16QAM	1	24	22.99	22.97	22.99	23.4	2			
5	16QAM	12	0	21.76	21.85	21.91					
5	16QAM	12	7	21.68	21.59	21.68					
5	16QAM	12	13	21.55	21.53	21.66	22.4	3			
5	16QAM	25	0	21.81	21.90	21.76					
5	64QAM	1	0	22.03	22.10	21.99					
5	64QAM	1	12	21.89	21.94	21.89	20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
5	64QAM	1	24	21.98	21.91	21.85					
5	64QAM	12	0	20.87	20.85	20.77					
5	64QAM	12	7	20.70	20.63	20.71	20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
5	64QAM	12	13	20.64	20.75	20.66					
5	64QAM	25	0	20.89	20.77	20.92					
Channel				825.5	836.5	847.5					
Frequency (MHz)				23.90	24.01	23.94					
3	QPSK	1	0	23.90	24.01	23.94	25.4	0			
3	QPSK	1	8	23.88	23.94	23.78					
3	QPSK	1	14	23.88	24.03	23.91					
3	QPSK	8	0	22.87	22.86	22.87	24.4	1			
3	QPSK										



Band 7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	23.47	23.83	23.52			
20	QPSK	1	49	23.41	23.49	23.45	24	0	
20	QPSK	1	99	23.46	23.36	23.49			
20	QPSK	50	0	23.41	23.54	23.48			
20	QPSK	50	24	23.31	23.45	23.38	24	0	
20	QPSK	50	50	23.31	23.37	23.41			
20	QPSK	100	0	23.52	23.53	23.36			
20	16QAM	1	0	23.23	23.35	23.28			
20	16QAM	1	49	23.23	23.27	23.21	24	0	
20	16QAM	1	99	23.22	23.32	23.17			
20	16QAM	50	0	23.02	23.15	22.96			
20	16QAM	50	24	23.15	23.13	22.93	23.5	0.5	
20	16QAM	50	50	23.21	23.18	22.95			
20	16QAM	100	0	22.2	22.02	21.91			
20	64QAM	1	0	22.94	23.24	23.1			
20	64QAM	1	49	23.15	23.4	23.25	23.5	0.5	
20	64QAM	1	99	22.99	23.3	23.11			
20	64QAM	50	0	22.01	22.11	21.96			
20	64QAM	50	24	22.1	21.99	21.86	22.5	1.5	
20	64QAM	50	50	22.2	22.02	21.91			
20	64QAM	100	0	22.07	22.01	21.92			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	23.37	23.55	23.43			
15	QPSK	1	37	23.36	23.47	23.44	24	0	
15	QPSK	1	74	23.40	23.28	23.48			
15	QPSK	36	0	23.34	23.46	23.46			
15	QPSK	36	20	23.19	23.37	23.29	24	0	
15	QPSK	36	39	23.23	23.31	23.39			
15	QPSK	75	0	23.49	23.43	23.35			
15	16QAM	1	0	23.22	23.33	23.26			
15	16QAM	1	37	23.17	23.16	23.10	24	0	
15	16QAM	1	74	23.10	23.29	23.05			
15	16QAM	36	0	23.00	23.43	22.85			
15	16QAM	36	20	23.12	23.06	22.82	23.5	0.5	
15	16QAM	36	39	23.17	23.17	22.91			
15	16QAM	75	0	23.13	22.86	22.90			
15	64QAM	1	0	22.92	23.23	23.08			
15	64QAM	1	37	23.09	23.33	23.22	23.5	0.5	
15	64QAM	1	74	22.94	23.26	23.07			
15	64QAM	36	0	21.96	22.09	21.92			
15	64QAM	36	20	21.99	21.93	21.74	22.5	1.5	
15	64QAM	36	39	22.08	21.90	21.87			
15	64QAM	75	0	22.06	21.99	21.81			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	23.45	23.59	23.44			
10	QPSK	1	25	23.39	23.43	23.39	24	0	
10	QPSK	1	49	23.41	23.26	23.37			
10	QPSK	25	0	23.34	23.48	23.43			
10	QPSK	25	12	23.23	23.33	23.26	24	0	
10	QPSK	25	25	23.29	23.30	23.30			
10	QPSK	50	0	23.45	23.47	23.31			
10	16QAM	1	0	23.13	23.24	23.16			
10	16QAM	1	25	23.22	23.20	23.09	24	0	
10	16QAM	1	49	23.15	23.25	23.16			
10	16QAM	25	0	22.94	23.09	22.92			
10	16QAM	25	12	23.03	23.06	22.82	23.5	0.5	
10	16QAM	25	25	23.20	23.16	22.93			
10	16QAM	50	0	23.08	22.91	22.86			
10	64QAM	1	0	22.82	23.16	22.99			
10	64QAM	1	25	23.05	23.37	23.23	23.5	0.5	
10	64QAM	1	49	22.91	23.26	23.09			
10	64QAM	25	0	21.91	22.06	21.84			
10	64QAM	25	12	22.01	21.92	21.79	22.5	1.5	
10	64QAM	25	25	22.08	21.96	21.88			
10	64QAM	50	0	22.05	21.99	21.89			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	23.36	23.55	23.41			
5	QPSK	1	12	23.34	23.42	23.41	24	0	
5	QPSK	1	24	23.38	23.30	23.39			
5	QPSK	12	0	23.36	23.53	23.44			
5	QPSK	12	7	23.28	23.35	23.32	24	0	
5	QPSK	12	13	23.23	23.31	23.40			
5	QPSK	25	0	23.47	23.49	23.30			
5	16QAM	1	0	23.20	23.23	23.24			
5	16QAM	1	12	23.12	23.15	23.11	24	0	
5	16QAM	1	24	23.19	23.21	23.15			
5	16QAM	12	0	22.97	23.10	22.86			
5	16QAM	12	7	23.05	23.09	22.84			
5	16QAM	12	13	23.18	23.16	22.85	23.5	0.5	
5	16QAM	25	0	23.14	22.86	22.85			
5	64QAM	1	0	22.88	23.12	22.99			
5	64QAM	1	12	23.08	23.38	23.21	23.5	0.5	
5	64QAM	1	24	22.91	23.24	23.00			
5	64QAM	12	0	21.89	22.10	21.91			
5	64QAM	12	7	22.03	21.87	21.74	22.5	1.5	
5	64QAM	12	13	22.16	21.97	21.89			
5	64QAM	25	0	22.05	21.98	21.90			

Band 7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.53	21.39	21.45			
20	QPSK	1	49	21.48	21.57	21.41	22.2	0	
20	QPSK	1	99	21.42	21.50	21.37			
20	QPSK	50	0	21.50	21.55	21.43			
20	QPSK	50	24	21.46	21.51	21.41	22.2	0	
20	QPSK	50	50	21.43	21.52	21.30			
20	QPSK	100	0	21.48	21.54	21.39			
20	16QAM	1	0	21.52	21.58	21.43			
20	16QAM	1	49	21.54	21.58	21.37	22.2	0	
20	16QAM	1	99	21.50	21.53	21.34			
20	16QAM	50	0	21.43	21.54	21.41			
20	16QAM	50	24	21.43	21.53	21.31	22.2	0	
20	16QAM	50	50	21.54	21.57	21.44			
20	16QAM	100	0	20.91	21.03	20.83			
20	64QAM	1	0	21.41	21.46	21.25			
20	64QAM	1	49	21.45	21.56	21.36	22.2	0	
20	64QAM	1	99	21.45	21.49	21.37			
20	64QAM	50	0	20.92	21.01	20.81			
20	64QAM	50	24	20.97	21.00	20.83	21.7	0.5	
20	64QAM	50	50	20.91	21.03	20.83			
20	64QAM	100	0	20.88	20.96	20.80			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	21.43	21.50	21.36			
15	QPSK	1	37	21.39	21.53	21.33	22.2	0	
15	QPSK	1	74	21.38	21.38	21.32			
15	QPSK	36	0	21.42	21.49	21.39			
15	QPSK	36	20	21.43	21.47	21.38	22.2	0	
15	QPSK	36	39	21.35	21.47	21.24			
15	QPSK	75	0	21.43	21.50	21.33			
15	16QAM	1	0	21.46	21.55	21.32			
15	16QAM	1	37	21.48	21.46	21.28	22.2	0	
15	16QAM	1	74	21.44	21.45	21.27			
15	16QAM	36	0	21.39	21.43	21.35			
15	16QAM	36	20	21.35	21.49	21.24	22.2	0	
15	16QAM	36	39	21.44	21.51	21.34			
15	16QAM	75	0	21.32	21.38	21.17			
15	64QAM	1	0	21.35	21.38	21.22			
15	64QAM	1	37	21.42	21.47	21.29	22.2	0	
15	64QAM	1	74	21.36	21.42	21.33			
15	64QAM	36	0	20.81	20.89	20.73			
15	64QAM	36	20	20.92	20.94	20.71	21.7	0.5	
15	64QAM	36							



Band 7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	24.92	24.88	24.83	25.6	0	
20	QPSK	1	49	24.51	24.59	24.53			
20	QPSK	1	99	24.51	24.64	24.52			
20	QPSK	50	0	23.63	23.73	23.68			
20	QPSK	50	24	23.51	23.65	23.56			
20	QPSK	50	50	23.61	23.69	23.56	24.6	1	
20	QPSK	100	0	23.51	23.64	23.50			
20	16QAM	1	0	23.51	23.68	23.57			
20	16QAM	1	49	23.42	23.44	23.47	24.6	1	
20	16QAM	1	99	23.51	23.55	23.51			
20	16QAM	50	0	22.52	22.69	22.68			
20	16QAM	50	24	22.51	22.48	22.54	23.6	2	
20	16QAM	50	50	22.49	22.47	22.52			
20	16QAM	100	0	22.50	22.56	22.45			
20	64QAM	1	0	22.59	22.65	22.52			
20	64QAM	1	49	22.58	22.51	22.55	23.6	2	
20	64QAM	1	99	22.40	22.44	22.52			
20	64QAM	50	0	21.57	21.71	21.72			
20	64QAM	50	24	21.64	21.86	21.57	22.6	3	
20	64QAM	50	50	21.58	21.55	21.55			
20	64QAM	100	0	21.41	21.59	21.55			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	24.46	24.64	24.58	25.6	0	
15	QPSK	1	37	24.38	24.52	24.42			
15	QPSK	1	74	24.38	24.60	24.42			
15	QPSK	36	0	23.54	23.59	23.60			
15	QPSK	36	20	23.38	23.57	23.41	24.6	1	
15	QPSK	36	39	23.58	23.64	23.48			
15	QPSK	75	0	23.40	23.50	23.46			
15	16QAM	1	0	23.48	23.65	23.43			
15	16QAM	1	37	23.33	23.36	23.41	24.6	1	
15	16QAM	1	74	23.47	23.50	23.38			
15	16QAM	36	0	22.46	22.46	22.62			
15	16QAM	36	20	22.45	22.35	22.40	23.6	2	
15	16QAM	36	39	22.46	22.34	22.42			
15	16QAM	75	0	22.38	22.50	22.38			
15	64QAM	1	0	22.51	22.56	22.38			
15	64QAM	1	37	22.51	22.47	22.41	23.6	2	
15	64QAM	1	74	22.28	22.29	22.39			
15	64QAM	36	0	21.50	21.67	21.61			
15	64QAM	36	20	21.50	21.58	21.47	22.6	3	
15	64QAM	36	39	21.43	21.44	21.51			
15	64QAM	75	0	21.30	21.47	21.41			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	24.48	24.57	24.51	25.6	0	
10	QPSK	1	25	24.43	24.46	24.44			
10	QPSK	1	49	24.38	24.53	24.45			
10	QPSK	25	0	23.56	23.62	23.62			
10	QPSK	25	12	23.40	23.62	23.51	24.6	1	
10	QPSK	25	25	23.57	23.64	23.49			
10	QPSK	50	0	23.43	23.55	23.35			
10	16QAM	1	0	23.55	23.55	23.48	24.6	1	
10	16QAM	1	25	23.30	23.35	23.41			
10	16QAM	1	49	23.37	23.49	23.43			
10	16QAM	25	0	22.37	22.56	22.55			
10	16QAM	25	12	22.47	22.45	22.39	23.6	2	
10	16QAM	25	25	22.34	22.36	22.48			
10	16QAM	50	0	22.36	22.49	22.40			
10	64QAM	1	0	22.45	22.59	22.39			
10	64QAM	1	25	22.48	22.37	22.42	23.6	2	
10	64QAM	1	49	22.36	22.39	22.46			
10	64QAM	25	0	21.53	21.61	21.62			
10	64QAM	25	12	21.59	21.55	21.43	22.6	3	
10	64QAM	25	25	21.50	21.41	21.47			
10	64QAM	50	0	21.30	21.54	21.45			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	24.42	24.57	24.60	25.6	0	
5	QPSK	1	12	24.45	24.49	24.40			
5	QPSK	1	24	24.38	24.55	24.40			
5	QPSK	12	0	23.52	23.69	23.57			
5	QPSK	12	7	23.42	23.61	23.48	24.6	1	
5	QPSK	12	13	23.60	23.65	23.44			
5	QPSK	25	0	23.43	23.52	23.43			
5	16QAM	1	0	23.56	23.58	23.43	24.6	1	
5	16QAM	1	12	23.37	23.35	23.33			
5	16QAM	1	24	23.45	23.50	23.39			
5	16QAM	12	0	22.44	22.57	22.60			
5	16QAM	12	7	22.41	22.38	22.40	23.6	2	
5	16QAM	12	13	22.38	22.43	22.40			
5	16QAM	25	0	22.45	22.49	22.31			
5	64QAM	1	0	22.55	22.55	22.38			
5	64QAM	1	12	22.48	22.39	22.47	23.6	2	
5	64QAM	1	24	22.26	22.38	22.40			
5	64QAM	12	0	21.42	21.66	21.58			
5	64QAM	12	7	21.57	21.61	21.45	22.6	3	
5	64QAM	12	13	21.46	21.51	21.49			
5	64QAM	25	0	21.30	21.51	21.50			

Band 7_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.00	21.25	21.08	22.1	0	
20	QPSK	1	49	20.97	21.23	21.05			
20	QPSK	1	99	20.98	21.15	20.98			
20	QPSK	50	0	21.03	21.23	21.01			
20	QPSK	50	24	21.00	21.21	20.99	22.1	0	
20	QPSK	50	50	20.95	21.20	20.99			
20	QPSK	100	0	20.99	21.21	20.97			
20	16QAM	1	0	21.00	21.17	21.05			
20	16QAM	1	49	20.98	21.23	21.06	22.1	0	
20	16QAM	1	99	20.99	21.22	20.97			
20	16QAM	50	0	20.97	21.19	20.92			
20	16QAM	50	24	20.94	21.11	20.87	22.1	0	
20	16QAM	50	50	20.98	21.19	21.03			
20	16QAM	100	0	20.90	21.12	20.92			
20	64QAM	1	0	20.79	21.02	20.80			
20	64QAM	1	49	20.92	21.22	20.88	22.1	0	
20	64QAM	1	99	20.88	21.14	20.89			
20	64QAM	50	0	20.51	20.65	20.51			
20	64QAM	50	24	20.34	20.57	20.33	21.1	1	
20	64QAM	50	50	20.42	20.64	20.50			
20	64QAM	100	0	20.48	20.62	20.47			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.89	21.19	21.01	22.1	0	
15	QPSK	1	37	20.88	21.14	20.96			
15	QPSK	1	74	20.87	21.04	20.93			
15	QPSK	36	0	20.94	21.16	20.89			
15	QPSK	36	20	20.92	21.10	20.96	22.1	0	
15	QPSK	36	39	20.90	21.10	20.91			
15	QPSK	75	0	20.89	21.11	20.92			
15	16QAM	1	0	20.91	21.06	20.98			
15	16QAM	1	37	20.88	21.20	21.00	22.1	0	
15	16QAM	1	74	20.88	21.16	20.88			
15	16QAM	36	0	20.98	21.15	20.97			
15	16QAM	36	20	20.91	21.04	20.94	22.1	0	
15	16QAM	36	39	20.92	21.15	20.95			
15	16QAM	75	0	20.78	21.09	20.87			
15	64QAM	1	0	20.74	20.94	20.70			
15	64QAM	1	37	20.85	21.10	20.78	22.1	0	
15	64QAM	1	74	20.79	21.05	20.86			
15	64QAM	36	0	20.46	20.55	20.45			
15	64QAM	36	20	20.28	20.46	20.30	21.1	1	
15	64QAM	36							



Band 12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.26	24.25	24.26	25.5	0	
10	QPSK	1	25	24.46	24.50	24.49			
10	QPSK	1	49	24.52	24.57	24.47			
10	QPSK	25	0	23.55	23.70	23.62	24.5	1	
10	QPSK	25	12	23.41	23.56	23.43			
10	QPSK	25	25	23.51	23.63	23.55			
10	QPSK	50	0	23.56	23.66	23.56			
10	16QAM	1	0	23.58	23.49	23.64	24.5	1	
10	16QAM	1	25	23.49	23.47	23.46			
10	16QAM	1	49	23.50	23.54	23.57			
10	16QAM	25	0	22.49	22.63	22.57	23.5	2	
10	16QAM	25	12	22.50	22.48	22.50			
10	16QAM	25	25	22.47	22.47	22.50			
10	16QAM	50	0	22.55	22.63	22.51			
10	64QAM	1	0	22.63	22.67	22.73	23.5	2	
10	64QAM	1	25	22.55	22.57	22.55			
10	64QAM	1	49	22.47	22.49	22.40			
10	64QAM	25	0	21.51	21.64	21.56	22.5	3	
10	64QAM	25	12	21.39	21.45	21.50			
10	64QAM	25	25	21.46	21.49	21.49			
10	64QAM	50	0	21.53	21.57	21.49			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.49	24.48	24.43	25.5	0	
5	QPSK	1	12	24.34	24.52	24.41			
5	QPSK	1	24	24.47	24.46	24.44			
5	QPSK	12	0	23.50	23.65	23.55	24.5	1	
5	QPSK	12	7	23.37	23.46	23.29			
5	QPSK	12	13	23.44	23.60	23.41			
5	QPSK	25	0	23.53	23.59	23.50	24.5	1	
5	16QAM	1	0	23.49	23.54	23.55			
5	16QAM	1	12	23.44	23.38	23.43			
5	16QAM	1	24	23.36	23.48	23.43	23.5	2	
5	16QAM	12	0	22.39	22.52	22.40			
5	16QAM	12	7	22.38	22.35	22.35			
5	16QAM	12	13	22.39	22.39	22.45	23.5	2	
5	16QAM	25	0	22.50	22.54	22.44			
5	64QAM	1	0	22.51	22.59	22.59	23.5	2	
5	64QAM	1	12	22.41	22.43	22.40			
5	64QAM	1	24	22.37	22.39	22.27			
5	64QAM	12	0	21.43	21.80	21.43	22.5	3	
5	64QAM	12	7	21.30	21.40	21.36			
5	64QAM	12	13	21.33	21.39	21.39			
5	64QAM	25	0	21.48	21.45	21.34			
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.51	24.57	24.54	25.5	0	
3	QPSK	1	8	24.42	24.55	24.40			
3	QPSK	1	14	24.38	24.46	24.39			
3	QPSK	8	0	23.48	23.57	23.49	24.5	1	
3	QPSK	8	4	23.36	23.46	23.36			
3	QPSK	8	7	23.41	23.57	23.49			
3	QPSK	15	0	23.51	23.62	23.51	24.5	1	
3	16QAM	1	0	23.53	23.57	23.60			
3	16QAM	1	8	23.41	23.36	23.40			
3	16QAM	1	14	23.47	23.51	23.42	23.5	2	
3	16QAM	8	0	22.39	22.53	22.45			
3	16QAM	8	4	22.38	22.44	22.41			
3	16QAM	8	7	22.34	22.43	22.41	23.5	2	
3	16QAM	8	14	22.34	22.43	22.41			
3	16QAM	15	0	22.44	22.54	22.39			
3	64QAM	1	0	22.55	22.59	22.70	23.5	2	
3	64QAM	1	8	22.46	22.51	22.51			
3	64QAM	1	14	22.33	22.37	22.32			
3	64QAM	8	0	21.44	21.56	21.45	22.5	3	
3	64QAM	8	4	21.34	21.36	21.43			
3	64QAM	8	7	21.36	21.43	21.36			
3	64QAM	15	0	21.41	21.52	21.42			
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.44	24.53	24.46	25.5	0	
1.4	QPSK	1	3	24.42	24.50	24.40			
1.4	QPSK	1	5	24.49	24.53	24.39			
1.4	QPSK	3	0	24.41	24.57	24.43	24.5	1	
1.4	QPSK	3	1	24.27	24.38	24.25			
1.4	QPSK	3	3	24.29	24.55	24.37			
1.4	QPSK	6	0	23.47	23.55	23.49	24.5	1	
1.4	16QAM	1	0	23.45	23.64	23.56			
1.4	16QAM	1	3	23.36	23.33	23.41			
1.4	16QAM	1	5	23.40	23.50	23.45	24.5	1	
1.4	16QAM	3	0	23.38	23.55	23.38			
1.4	16QAM	3	1	23.33	23.34	23.37			
1.4	16QAM	3	3	23.28	23.36	23.33	23.5	2	
1.4	16QAM	6	0	22.45	22.48	22.42			
1.4	64QAM	1	0	22.49	22.52	22.66	23.5	2	
1.4	64QAM	1	3	22.47	22.48	22.46			
1.4	64QAM	1	5	22.41	22.44	22.36	23.5	2	
1.4	64QAM	3	0	22.43	22.53	22.45			
1.4	64QAM	3	1	22.31	22.34	22.34			
1.4	64QAM	3	3	22.32	22.37	22.39	22.5	3	
1.4	64QAM	6	0	21.46	21.47	21.40			

Band 12_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.52	23.63	23.54	24.8	0	
10	QPSK	1	25	23.50	23.58	23.52			
10	QPSK	1	49	23.37	23.47	23.36			
10	QPSK	25	0	22.64	22.77	22.71	23.8	1	
10	QPSK	25	12	22.52	22.58	22.52			
10	QPSK	25	25	22.52	22.66	22.56			
10	QPSK	50	0	22.66	22.75	22.67	23.8	1	
10	16QAM	1	0	22.53	22.72	22.68			
10	16QAM	1	25	22.50	22.54	22.52			
10	16QAM	1	49	22.59	22.54	22.52	22.8	2	
10	16QAM	25	0	21.59	21.82	21.73			
10	16QAM	25	12	21.74	21.77	21.76			
10	16QAM	25	25	21.61	21.61	21.66	22.8	2	
10	16QAM	50	0	21.65	21.74	21.76			
10	64QAM	1	0	21.48	21.61	21.54	22.8	2	
10	64QAM	1	25	21.35	21.44	21.36			
10	64QAM	1	49	21.53	21.47	21.53			
10	64QAM	25	0	20.66	20.79	20.74	21.8	3	
10	64QAM	25	12	20.72	20.84	20.63			
10	64QAM	25	25	20.71	20.65	20.67			
10	64QAM	50	0	20.60	20.72	20.57			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.41	23.52	23.39	24.8	0	
5	QPSK	1	12	23.47	23.46	23.44			
5	QPSK	1	24	23.24	23.37	23.31			
5	QPSK	12	0	22.53	22.69	22.59	23.8	1	
5	QPSK	12	7	22.37	22.46	22.47			
5	QPSK	12	13	22.41	22.55	22.51			
5	QPSK	25	0	22.58	22.69	22.53	23.8	1	
5	16QAM	1	0	22.46	22.61	22.60			
5	16QAM	1	12	22.38	22.51	22.48			
5	16QAM	1	24	22.46	22.47	22.37	22.8	2	
5	16QAM	12	0	21.53	21.70	21.61			
5	16QAM	12	7	21.62	21.71	21.64			
5	16QAM	12	13	21.46	21.54	21.52	22.8	2	
5	16QAM	25	0	21.51	21.69	21.66			
5	64QAM	1	0	21.35	21.47	21.42	22.8	2	
5	64QAM	1	12	21.23	21.35	21.23			
5	64QAM	1	24	21.50	21.34	21.39			
5	64QAM	12	0	20.58	20.65	20.70	21.8	3	
5	64QAM	12	7	20.62	20.57	20.49			
5	64QAM	12	13	20.63	20.62	20.58			
5	64QAM	25	0	20.51	20.68	20.46			
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0						



Band 13_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				782					
10	QPSK	1	0	24.46			25.5	0	
10	QPSK	1	25	24.37					
10	QPSK	1	49	24.40					
10	QPSK	25	0	23.38			24.5	1	
10	QPSK	25	12	23.30					
10	QPSK	25	25	23.33					
10	QPSK	50	0	23.39			24.5	1	
10	16QAM	1	0	23.45					
10	16QAM	1	25	23.42					
10	16QAM	1	49	23.45			23.5	2	
10	16QAM	25	0	22.42					
10	16QAM	25	12	22.32					
10	16QAM	25	25	22.33			23.5	2	
10	16QAM	50	0	22.40					
10	64QAM	1	0	22.48					
10	64QAM	1	25	22.35			23.5	2	
10	64QAM	1	49	22.39					
10	64QAM	25	0	21.43					
10	64QAM	25	12	21.35			22.5	3	
10	64QAM	25	25	21.37					
10	64QAM	50	0	21.38					
Channel				23205 23230 23255					
Frequency (MHz)				779.5 782 784.5					
5	QPSK	1	0	24.32	24.41	24.26	25.5	0	
5	QPSK	1	12	24.20	24.31	24.20			
5	QPSK	1	24	24.15	24.33	24.25			
5	QPSK	12	0	23.12	23.34	23.19	24.5	1	
5	QPSK	12	7	23.20	23.21	23.02			
5	QPSK	12	13	23.13	23.27	23.10			
5	QPSK	25	0	23.20	23.29	23.18	24.5	1	
5	16QAM	1	0	23.40	23.50	23.47			
5	16QAM	1	12	23.18	23.27	23.29			
5	16QAM	1	24	23.28	23.35	23.29	23.5	2	
5	16QAM	12	0	22.20	22.29	22.22			
5	16QAM	12	7	22.22	22.19	22.16			
5	16QAM	12	13	22.11	22.26	22.12	23.5	2	
5	16QAM	25	0	22.24	22.29	22.20			
5	64QAM	1	0	22.27	22.41	22.32			
5	64QAM	1	12	22.12	22.21	22.19	23.5	2	
5	64QAM	1	24	22.26	22.30	22.16			
5	64QAM	12	0	21.24	21.29	21.25			
5	64QAM	12	7	21.23	21.24	21.19	22.5	3	
5	64QAM	12	13	21.10	21.28	21.16			
5	64QAM	25	0	21.19	21.23	21.17			

Band 13_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				782					
10	QPSK	1	0	23.80			24.9	0	
10	QPSK	1	25	23.80					
10	QPSK	1	49	23.83					
10	QPSK	25	0	22.79			23.9	1	
10	QPSK	25	12	22.75					
10	QPSK	25	25	22.72					
10	QPSK	50	0	22.74			23.9	1	
10	16QAM	1	0	22.81					
10	16QAM	1	25	22.72					
10	16QAM	1	49	22.73			22.9	2	
10	16QAM	25	0	21.52					
10	16QAM	25	12	21.50					
10	16QAM	25	25	21.48			22.9	2	
10	16QAM	50	0	21.74					
10	64QAM	1	0	21.77					
10	64QAM	1	25	21.73			22.9	2	
10	64QAM	1	49	21.67					
10	64QAM	25	0	20.46					
10	64QAM	25	12	20.40			21.9	3	
10	64QAM	25	25	20.33					
10	64QAM	50	0	20.57					
Channel				23205 23230 23255					
Frequency (MHz)				779.5 782 784.5					
5	QPSK	1	0	23.67	23.66	23.72	24.9	0	
5	QPSK	1	12	23.57	23.61	23.50			
5	QPSK	1	24	23.61	23.70	23.57			
5	QPSK	12	0	22.63	22.62	22.53	23.9	1	
5	QPSK	12	7	22.46	22.60	22.50			
5	QPSK	12	13	22.43	22.53	22.54			
5	QPSK	25	0	22.42	22.61	22.45	23.9	1	
5	16QAM	1	0	22.47	22.69	22.51			
5	16QAM	1	12	22.55	22.56	22.51			
5	16QAM	1	24	22.58	22.55	22.46	22.9	2	
5	16QAM	12	0	21.31	21.40	21.15			
5	16QAM	12	7	21.18	21.30	21.21			
5	16QAM	12	13	21.26	21.29	21.23	22.9	2	
5	16QAM	25	0	21.42	21.60	21.55			
5	64QAM	1	0	21.47	21.58	21.51			
5	64QAM	1	12	21.41	21.63	21.40	22.9	2	
5	64QAM	1	24	21.36	21.50	21.43			
5	64QAM	12	0	20.19	20.35	20.25			
5	64QAM	12	7	20.34	20.44	20.27	21.9	3	
5	64QAM	12	13	20.35	20.35	20.22			
5	64QAM	25	0	20.47	20.60	20.47			



Band 17_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23780	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.27	24.62	24.90			
10	QPSK	1	25	24.45	24.52	24.44	25.5	0	
10	QPSK	1	49	24.50	24.61	24.56			
10	QPSK	25	0	23.57	23.62	23.54			
10	QPSK	25	12	23.48	23.52	23.37	24.5	1	
10	QPSK	25	25	23.56	23.60	23.51			
10	QPSK	50	0	23.45	23.58	23.51			
10	16QAM	1	0	23.64	23.77	23.75			
10	16QAM	1	25	23.58	23.51	23.60	24.5	1	
10	16QAM	1	49	23.60	23.64	23.57			
10	16QAM	25	0	22.51	22.65	22.59			
10	16QAM	25	12	22.51	22.45	22.41	23.5	2	
10	16QAM	25	25	22.39	22.41	22.43			
10	16QAM	50	0	22.50	22.57	22.49			
10	64QAM	1	0	22.61	22.70	22.67			
10	64QAM	1	25	22.51	22.54	22.52	23.5	2	
10	64QAM	1	49	22.49	22.55	22.55			
10	64QAM	25	0	21.67	21.58	21.60			
10	64QAM	25	12	21.44	21.44	21.37	22.5	3	
10	64QAM	25	25	21.43	21.38	21.44			
10	64QAM	50	0	21.62	21.58	21.53			
Channel				23785	23790	23825			
Frequency (MHz)				705.5	710	713.5			
5	QPSK	1	0	24.54	24.57	24.49			
5	QPSK	1	12	24.37	24.39	24.35	25.5	0	
5	QPSK	1	24	24.40	24.56	24.41			
5	QPSK	12	0	23.51	23.49	23.50			
5	QPSK	12	7	23.43	23.42	23.30	24.5	1	
5	QPSK	12	13	23.46	23.46	23.39			
5	QPSK	25	0	23.34	23.44	23.37			
5	16QAM	1	0	23.56	23.70	23.64			
5	16QAM	1	12	23.54	23.47	23.48	24.5	1	
5	16QAM	1	24	23.56	23.61	23.51			
5	16QAM	12	0	22.41	22.36	22.50			
5	16QAM	12	7	22.47	22.41	22.28	23.5	2	
5	16QAM	12	13	22.31	22.32	22.29			
5	16QAM	25	0	22.37	22.42	22.37			
5	64QAM	1	0	22.50	22.66	22.62			
5	64QAM	1	12	22.38	22.42	22.38	23.5	2	
5	64QAM	1	24	22.42	22.48	22.49			
5	64QAM	12	0	21.52	21.47	21.48			
5	64QAM	12	7	21.37	21.34	21.33	22.5	3	
5	64QAM	12	13	21.34	21.30	21.34			
5	64QAM	25	0	21.57	21.48	21.41			

Band 17_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	23.46	23.59	23.53			
10	QPSK	1	25	23.42	23.48	23.38	24.8	0	
10	QPSK	1	49	23.40	23.52	23.38			
10	QPSK	25	0	22.67	22.78	22.62			
10	QPSK	25	12	22.51	22.56	22.43	23.8	1	
10	QPSK	25	25	22.62	22.73	22.56			
10	QPSK	50	0	22.73	22.76	22.70			
10	16QAM	1	0	22.68	22.74	22.57			
10	16QAM	1	25	22.58	22.63	22.57	23.8	1	
10	16QAM	1	49	22.57	22.60	22.62			
10	16QAM	25	0	21.55	21.64	21.49			
10	16QAM	25	12	21.54	21.51	21.54	22.8	2	
10	16QAM	25	25	21.54	21.44	21.48			
10	16QAM	50	0	21.58	21.73	21.69			
10	64QAM	1	0	21.64	21.69	21.62			
10	64QAM	1	25	21.46	21.48	21.46	22.8	2	
10	64QAM	1	49	21.62	21.56	21.54			
10	64QAM	25	0	20.57	20.65	20.48			
10	64QAM	25	12	20.46	20.42	20.46	21.8	3	
10	64QAM	25	25	20.47	20.45	20.38			
10	64QAM	50	0	20.65	20.68	20.54			
Channel				23785	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	23.37	23.51	23.46			
5	QPSK	1	12	23.38	23.36	23.33	24.8	0	
5	QPSK	1	24	23.36	23.42	23.30			
5	QPSK	12	0	22.64	22.68	22.48			
5	QPSK	12	7	22.43	22.51	22.30	23.8	1	
5	QPSK	12	13	22.50	22.66	22.51			
5	QPSK	25	0	22.60	22.68	22.67			
5	16QAM	1	0	22.54	22.70	22.42			
5	16QAM	1	12	22.53	22.54	22.47	23.8	1	
5	16QAM	1	24	22.53	22.54	22.48			
5	16QAM	12	0	21.49	21.57	21.35			
5	16QAM	12	7	21.48	21.47	21.39	22.8	2	
5	16QAM	12	13	21.43	21.35	21.44			
5	16QAM	25	0	21.43	21.64	21.65			
5	64QAM	1	0	21.58	21.58	21.52			
5	64QAM	1	12	21.32	21.44	21.38	22.8	2	
5	64QAM	1	24	21.57	21.46	21.49			
5	64QAM	12	0	20.48	20.50	20.41			
5	64QAM	12	7	20.31	20.33	20.32	21.8	3	
5	64QAM	12	13	20.40	20.38	20.26			
5	64QAM	25	0	20.58	20.65	20.42			



Band 26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	23.29	23.45	23.30	25.5	0	
15	QPSK	1	37	24.31	24.36	24.24			
15	QPSK	1	74	24.34	24.41	24.31			
15	QPSK	36	0	23.30	23.41	23.34	24.5	1	
15	QPSK	36	20	23.28	23.37	23.30			
15	QPSK	36	39	23.29	23.33	23.25			
15	QPSK	75	0	23.44	23.46	23.43	24.5	1	
15	16QAM	1	0	23.48	23.46	23.51			
15	16QAM	1	37	23.37	23.46	23.36			
15	16QAM	1	74	23.44	23.36	23.41	23.5	2	
15	16QAM	36	0	22.44	22.47	22.46			
15	16QAM	36	20	22.37	22.31	22.39			
15	16QAM	36	39	22.34	22.33	22.29	23.5	2	
15	16QAM	75	0	22.36	22.43	22.31			
15	16QAM	75	0	22.41	22.45	22.37			
15	64QAM	1	0	22.32	22.23	22.32	23.5	2	
15	64QAM	1	37	22.32	22.23	22.32			
15	64QAM	1	74	22.31	22.30	22.24			
15	64QAM	36	0	21.39	21.44	21.43	22.5	3	
15	64QAM	36	20	21.28	21.24	21.24			
15	64QAM	36	39	21.23	21.23	21.19			
15	64QAM	75	0	21.30	21.43	21.35			
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.26	24.36	24.29	25.5	0	
10	QPSK	1	25	24.26	24.24	24.09			
10	QPSK	1	49	24.23	24.34	24.20			
10	QPSK	25	0	23.25	23.27	23.29	24.5	1	
10	QPSK	25	12	23.17	23.25	23.22			
10	QPSK	25	25	23.15	23.19	23.21			
10	QPSK	50	0	23.38	23.36	23.29	24.5	1	
10	16QAM	1	0	23.40	23.43	23.41			
10	16QAM	1	25	23.33	23.36	23.30			
10	16QAM	1	49	23.32	23.32	23.27	23.5	2	
10	16QAM	25	0	22.29	22.28	22.42			
10	16QAM	25	12	22.29	22.25	22.36			
10	16QAM	25	25	22.21	22.24	22.17	23.5	2	
10	16QAM	50	0	22.32	22.34	22.20			
10	64QAM	1	0	22.28	22.31	22.27			
10	64QAM	1	25	22.17	22.16	22.28	23.5	2	
10	64QAM	1	49	22.17	22.21	22.10			
10	64QAM	25	0	21.30	21.41	21.29			
10	64QAM	25	12	21.22	21.17	21.12	22.5	3	
10	64QAM	25	25	21.18	21.16	21.04			
10	64QAM	50	0	21.18	21.35	21.29			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.32	24.42	24.30	25.5	0	
5	QPSK	1	12	24.27	24.28	24.14			
5	QPSK	1	24	24.29	24.37	24.17			
5	QPSK	12	0	23.22	23.28	23.27	24.5	1	
5	QPSK	12	7	23.17	23.26	23.22			
5	QPSK	12	13	23.23	23.22	23.17			
5	QPSK	25	0	23.37	23.43	23.32	24.5	1	
5	16QAM	1	0	23.44	23.49	23.36			
5	16QAM	1	12	23.34	23.41	23.30			
5	16QAM	1	24	23.33	23.25	23.37	23.5	2	
5	16QAM	12	0	22.34	22.33	22.40			
5	16QAM	12	7	22.25	22.28	22.27			
5	16QAM	12	13	22.31	22.30	22.18	23.5	2	
5	16QAM	25	0	22.31	22.29	22.18			
5	16QAM	25	12	22.35	22.37	22.33			
5	64QAM	1	12	22.20	22.11	22.24	23.5	2	
5	64QAM	1	24	22.19	22.22	22.21			
5	64QAM	12	0	21.25	21.36	21.30			
5	64QAM	12	7	21.16	21.14	21.14	22.5	3	
5	64QAM	12	13	21.14	21.16	21.08			
5	64QAM	25	0	21.27	21.28	21.26			
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.30	24.40	24.33	25.5	0	
3	QPSK	1	8	24.26	24.26	24.15			
3	QPSK	1	14	24.28	24.31	24.24			
3	QPSK	8	0	23.24	23.34	23.20	24.5	1	
3	QPSK	8	4	23.20	23.30	23.19			
3	QPSK	8	7	23.26	23.27	23.11			
3	QPSK	15	0	23.41	23.33	23.36	24.5	1	
3	16QAM	1	0	23.42	23.49	23.47			
3	16QAM	1	8	23.24	23.31	23.23			
3	16QAM	1	14	23.36	23.31	23.31	23.5	2	
3	16QAM	8	0	22.38	22.32	22.40			
3	16QAM	8	4	22.25	22.20	22.25			
3	16QAM	8	7	22.24	22.25	22.21	23.5	2	
3	16QAM	15	0	22.31	22.31	22.21			
3	64QAM	1	0	22.33	22.36	22.31			
3	64QAM	1	8	22.26	22.16	22.24	23.5	2	
3	64QAM	1	14	22.21	22.26	22.10			
3	64QAM	8	0	21.35	21.34	21.38			
3	64QAM	8	4	21.21	21.17	21.12	22.5	3	
3	64QAM	8	7	21.20	21.15	21.13			
3	64QAM	15	0	21.22	21.31	21.27			
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	24.32	24.36	24.32	25.5	0	
1.4	QPSK	1	3	24.22	24.31	24.13			
1.4	QPSK	1	5	24.24	24.33	24.26			
1.4	QPSK	3	0	24.21	24.29	24.22	24.5	1	
1.4	QPSK	3	1	24.18	24.26	24.24			
1.4	QPSK	3	3	24.24	24.27	24.20			
1.4	QPSK	6	0	23.40	23.39	23.40	24.5	1	
1.4	16QAM	1	0	23.44	23.49	23.44			
1.4	16QAM	1	3	23.29	23.32	23.23			
1.4	16QAM	1	5	23.33	23.29	23.32	23.5	2	
1.4	16QAM	3	0	23.30	23.38	23.37			
1.4	16QAM	3	1	23.25	23.16	23.24			
1.4	16QAM	3	3	23.27	23.22	23.15	23.5	2	
1.4	16QAM	6	0	22.25	22.33	22.21			
1.4	64QAM	1	0	22.30	22.38	22.26			
1.4	64QAM	1	3	22.28	22.15	22.23	23.5	2	
1.4	64QAM	1	5	22.19	22.22	22.09			
1.4	64QAM	3	0	22.29	22.32	22.32			
1.4	64QAM	3	1	22.24	22.15	22.18	22.5	3	
1.4	64QAM	3	3	22.12	22.16	22.05			
1.4	64QAM	6	0	21.25	21.29	21.32			

Band 26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	24.00	24.17	24.07	25.4	0	
15	QPSK	1	37	23.97	24.03	23.94			
15	QPSK	1	74	23.99	24.08	23.94			
15	QPSK	36	0	23.03	23.13	23.04	24.4	1	
15	QPSK	36	20	22.91	23.05	22.94			
15	QPSK	36	39	23.01	23.08	23.03			
15	QPSK	75	0	23.02	23.09	22.98	24.4	1	
15	16QAM	1	0	23.05	23.17	23.13			
15	16QAM	1	37	22.94	22.86	22.93			
15	16QAM	1	74	22.95	22.98	23.02	23.4	2	
15	16QAM	36	0	21.93	22.09	22.00			
15	16QAM	36	20	21.94	22.01	21.99			
15	16QAM	36	39	22.01	21.94	22.02	23.4	2	
15	16QAM	75	0	20.85	20.81	20.85			
15	64QAM	1	0	21.98	22.07	22.03			
15	64QAM	1	37	21.83	21.84	21.87	23.4	2	
15	64QAM	1	74	21.92	21.97	21.98			
15	64QAM	36	0	20.94	21.05	20.88			
15	64QAM	36	20	21.02	21.02	20.93	22.4	3	
15	64QAM	36	39	20.85	20.81	20.81			
15	64QAM	75	0	20.96	21.07	20.99			
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	23.94	24.13	24.01	25.4	0	
10	QPSK	1	25	23.88	23.92	23.82			
10	QPSK	1	49	23.93	24.04	23.89			
10	QPSK	25	0	22.86	23.09	22.99	24.4	1	
10	QPSK	25	12	22.77	22.85	22.82			
10	QPSK	25	25	22.82	22.96	23.01			
10	QPSK	50	0	22.92	22.95	22.93	24.4	1	
10	16QAM	1	0	22.92	23.09	22.99			
10	16QAM	1	25	22.86	22.83	22.80			
10	16QAM	1	49	22.81	22.91	22.95	23.4	2	
10	16QAM	25	0	21.80	21.83	21.86			
10	16QAM	25	12	21.85	21.88	21.85			
10	16QAM	25	25	21.87	21.84	21.97	23.4	2	
10	16QAM	50	0	21.94	22.03	21.85			
10	64QAM	1	0	21.90	21.97	22.00			
10	64QAM	1	25	21.74	21.71	21.78	22.4	3	
10	64QAM	1	49	21.80	21.83	21.86			
10	64QAM	25	0	20.91	21.01	20.74			
10	64QAM	25	12	20.94	20.96	20.85	22.4	3	
10	64QAM	25	25	20.74	20.76	20.71			
10	64QAM	50	0	20.92	20.97	20.93			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	23.90	24.03	23.92	25.4	0	
5	QPSK								



Band 66_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)									
20	QPSK	1	0	24.40	24.36	24.32	25.5	0	
20	QPSK	1	49	24.27	24.41	24.27			
20	QPSK	1	99	24.36	24.44	24.31			
20	QPSK	50	0	23.51	23.65	23.57	24.5	1	
20	QPSK	50	24	23.47	23.60	23.46			
20	QPSK	50	50	23.50	23.57	23.50			
20	QPSK	100	0	23.50	23.55	23.48	24.5	1	
20	16QAM	1	0	23.50	23.55	23.46			
20	16QAM	1	49	23.36	23.36	23.39			
20	16QAM	1	99	23.34	23.31	23.35	23.5	2	
20	16QAM	50	0	22.40	22.51	22.46			
20	16QAM	50	24	22.37	22.34	22.35			
20	16QAM	50	50	22.37	22.35	22.32	23.5	2	
20	16QAM	100	0	22.41	22.45	22.37			
20	64QAM	1	0	22.42	22.54	22.46			
20	64QAM	1	49	22.32	22.29	22.29	23.5	2	
20	64QAM	1	99	22.45	22.39	22.39			
20	64QAM	50	0	21.34	21.45	21.43			
20	64QAM	50	24	21.26	21.27	21.33	22.5	3	
20	64QAM	50	50	21.24	21.26	21.23			
20	64QAM	100	0	21.37	21.42	21.40			
Channel				132047	132322	132597			
Frequency (MHz)									
15	QPSK	1	0	24.24	24.41	24.26	25.5	0	
15	QPSK	1	37	24.15	24.29	24.23			
15	QPSK	1	74	24.31	24.39	24.16			
15	QPSK	36	0	23.45	23.51	23.45	24.5	1	
15	QPSK	36	39	23.42	23.50	23.37			
15	QPSK	36	39	23.37	23.46	23.35			
15	QPSK	75	0	23.46	23.46	23.37	24.5	1	
15	16QAM	1	0	23.47	23.50	23.37			
15	16QAM	1	37	23.36	23.24	23.32			
15	16QAM	1	74	23.29	23.18	23.21	23.5	2	
15	16QAM	36	0	22.27	22.39	22.35			
15	16QAM	36	20	22.24	22.29	22.20			
15	16QAM	36	39	22.28	22.25	22.28	23.5	2	
15	16QAM	75	0	22.37	22.31	22.23			
15	64QAM	1	0	22.37	22.42	22.33			
15	64QAM	1	37	22.19	22.19	22.21	23.5	2	
15	64QAM	1	74	22.35	22.33	22.30			
15	64QAM	36	0	21.26	21.36	21.30			
15	64QAM	36	20	21.15	21.17	21.20	22.5	3	
15	64QAM	36	39	21.17	21.14	21.10			
15	64QAM	75	0	21.32	21.33	21.28			
Channel				132022	132322	132622			
Frequency (MHz)									
10	QPSK	1	0	24.25	24.42	24.24	25.5	0	
10	QPSK	1	25	24.19	24.37	24.13			
10	QPSK	1	49	24.37	24.34	24.24			
10	QPSK	25	0	23.40	23.54	23.52	24.5	1	
10	QPSK	25	12	23.38	23.56	23.41			
10	QPSK	25	25	23.46	23.46	23.36			
10	QPSK	50	0	23.40	23.49	23.44	24.5	1	
10	16QAM	1	25	23.29	23.31	23.29			
10	16QAM	1	49	23.28	23.23	23.27			
10	16QAM	25	0	22.34	22.47	22.33	23.5	2	
10	16QAM	25	12	22.24	22.23	22.26			
10	16QAM	25	25	22.32	22.27	22.23			
10	16QAM	50	0	22.30	22.39	22.30	23.5	2	
10	64QAM	1	0	22.36	22.45	22.32			
10	64QAM	1	25	22.25	22.24	22.21			
10	64QAM	1	49	22.40	22.33	22.29	22.5	3	
10	64QAM	25	0	21.26	21.35	21.32			
10	64QAM	25	12	21.12	21.18	21.25			
10	64QAM	25	25	21.13	21.12	21.17	22.5	3	
10	64QAM	50	0	21.32	21.38	21.29			
Channel				131997	132322	132647			
Frequency (MHz)									
5	QPSK	1	0	24.30	24.51	24.21	25.5	0	
5	QPSK	1	12	24.13	24.36	24.23			
5	QPSK	1	24	24.30	24.30	24.28			
5	QPSK	12	0	23.47	23.50	23.48	24.5	1	
5	QPSK	12	7	23.40	23.50	23.39			
5	QPSK	12	13	23.36	23.44	23.37			
5	QPSK	25	0	23.39	23.44	23.40	24.5	1	
5	16QAM	1	0	23.38	23.45	23.31			
5	16QAM	1	12	23.34	23.24	23.35			
5	16QAM	1	24	23.24	23.19	23.23	23.5	2	
5	16QAM	12	0	22.34	22.47	22.39			
5	16QAM	12	7	22.28	22.19	22.23			
5	16QAM	12	13	22.30	22.29	22.28	23.5	2	
5	16QAM	25	0	22.31	22.38	22.32			
5	64QAM	1	0	22.34	22.50	22.39			
5	64QAM	1	12	22.19	22.22	22.23	23.5	2	
5	64QAM	1	24	22.41	22.33	22.31			
5	64QAM	12	0	21.31	21.38	21.39			
5	64QAM	12	7	21.19	21.16	21.24	22.5	3	
5	64QAM	12	13	21.10	21.15	21.17			
5	64QAM	25	0	21.24	21.33	21.33			
Channel				131987	132322	132657			
Frequency (MHz)									
3	QPSK	1	0	24.30	24.47	24.25	25.5	0	
3	QPSK	1	8	24.15	24.29	24.15			
3	QPSK	1	14	24.29	24.28	24.24			
3	QPSK	8	0	23.38	23.53	23.53	24.5	1	
3	QPSK	8	4	23.39	23.48	23.41			
3	QPSK	8	7	23.42	23.42	23.37			
3	QPSK	15	0	23.43	23.52	23.42	24.5	1	
3	16QAM	1	0	23.38	23.42	23.41			
3	16QAM	1	8	23.34	23.31	23.34			
3	16QAM	1	14	23.30	23.26	23.31	23.5	2	
3	16QAM	8	0	22.29	22.42	22.33			
3	16QAM	8	4	22.29	22.30	22.32			
3	16QAM	8	7	22.29	22.26	22.24	23.5	2	
3	16QAM	15	0	22.37	22.31	22.31			
3	64QAM	1	0	22.34	22.39	22.36			
3	64QAM	1	8	22.21	22.18	22.21	23.5	2	
3	64QAM	1	14	22.37	22.33	22.28			
3	64QAM	8	0	21.20	21.37	21.33			
3	64QAM	8	4	21.21	21.20	21.24	22.5	3	
3	64QAM	8	7	21.17	21.08	21.12			
3	64QAM	15	0	21.33	21.34	21.26			
Channel				131970	132322	132685			
Frequency (MHz)									
1.4	QPSK	1	0	24.21	24.51	24.22	25.5	0	
1.4	QPSK	1	3	24.24	24.28	24.17			
1.4	QPSK	1	5	24.33	24.30	24.19			
1.4	QPSK	3	0	24.41	24.49	24.40	24.5	1	
1.4	QPSK	3	1	24.33	24.43	24.31			
1.4	QPSK	3	3	24.37	24.38	24.35			
1.4	QPSK	6	0	23.43	23.48	23.38	24.5	1	
1.4	16QAM	1	0	23.39	23.42	23.31			
1.4	16QAM	1	3	23.24	23.22	23.35			
1.4	16QAM	1	5	23.27	23.18	23.28	24.5	1	
1.4	16QAM	3	0	23.30	23.34	23.33			
1.4	16QAM	3	1	23.24	23.15	23.15			
1.4	16QAM	3	3	23.28	23.19	23.13	23.5	2	
1.4	16QAM	6	0	22.29	22.38	22.27			
1.4	64QAM	1	0	22.32	22.40	22.39			
1.4	64QAM	1	3	22.27	22.24	22.15	23.5	2	
1.4	64QAM	1	5	22.34	22.26	22.31			
1.4	64QAM	3	0	22.21	22.28	22.26			
1.4	64QAM	3	1	22.10	22.09	22.25	22.5	3	
1.4	64QAM	3	3	22.05	22.02	22.07			
1.4	64QAM	6	0	21.25	21.28	21.33			

Band 66_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)									
20	QPSK	1	0	22.42	22.47	22.36	23.5	0	
20	QPSK	1	49	22.16	22.25	22.23			
20	QPSK	1	99	22.11	22.01	22.28			
20	QPSK	50	0	22.27	22.43	22.24	23.5	0	
20	QPSK	50	24	22.21	22.32	22.17			
20	QPSK	50	50	22.11	22.37	22.09			
20	QPSK	100	0	22.22	22.36	22.17	23.5	0	
20	16QAM	1	0	22.36	22.25	22.17			
20	16QAM	1	49	22.17	22.28	22.37			
20	16QAM	1	99	22.35	22.25	22.46	23	0.5	
20	16QAM	50	0	21.77	21.75	21.84			
20	16QAM	50	24	21.78	21.78	21.89			
20	16QAM	50	50	21.60	21.85	21.81	23	0.5	
20	16QAM	100	0	21.73	21.73	21.86			



Band 38_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37650	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.69	24.78	24.86	25.5	0	
20	QPSK	1	49	24.68	24.75	24.84			
20	QPSK	1	99	24.55	24.66	24.57			
20	QPSK	50	0	23.77	23.81	23.74	24.5	1	
20	QPSK	50	24	23.66	23.70	23.62			
20	QPSK	50	50	23.52	23.64	23.54			
20	QPSK	100	0	23.65	23.69	23.60	24.5	1	
20	16QAM	1	0	23.76	23.77	23.73			
20	16QAM	1	49	23.58	23.57	23.56			
20	16QAM	1	99	23.62	23.64	23.60	23.5	2	
20	16QAM	50	0	22.79	22.75	22.85			
20	16QAM	50	24	22.63	22.63	22.64			
20	16QAM	50	50	22.59	22.59	22.60	23.5	2	
20	16QAM	100	0	22.73	22.71	22.78			
20	64QAM	1	0	22.47	22.51	22.42			
20	64QAM	1	49	22.27	22.22	22.30	22.5	2	
20	64QAM	1	99	22.43	22.40	22.40			
20	64QAM	50	0	21.76	21.73	21.79			
20	64QAM	50	24	21.58	21.63	21.68	22.5	3	
20	64QAM	50	50	21.54	21.49	21.47			
20	64QAM	100	0	21.69	21.69	21.74			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.53	24.74	24.63	25.5	0	
15	QPSK	1	37	24.62	24.62	24.53			
15	QPSK	1	74	24.41	24.56	24.47			
15	QPSK	36	0	23.74	23.77	23.61	24.5	1	
15	QPSK	36	20	23.57	23.66	23.56			
15	QPSK	36	39	23.47	23.52	23.43			
15	QPSK	75	0	23.58	23.65	23.49	24.5	1	
15	16QAM	1	0	23.68	23.64	23.67			
15	16QAM	1	37	23.54	23.45	23.47			
15	16QAM	1	74	23.48	23.57	23.46	23.5	2	
15	16QAM	36	0	22.73	22.71	22.77			
15	16QAM	36	20	22.53	22.56	22.49			
15	16QAM	36	39	22.48	22.66	22.52	23.5	2	
15	16QAM	75	0	22.66	22.62	22.65			
15	64QAM	1	0	22.35	22.40	22.31			
15	64QAM	1	37	22.22	22.19	22.17	22.5	2	
15	64QAM	1	74	22.35	22.28	22.28			
15	64QAM	36	0	21.65	21.69	21.69			
15	64QAM	36	20	21.52	21.59	21.54	22.5	3	
15	64QAM	36	39	21.47	21.44	21.39			
15	64QAM	75	0	21.58	21.58	21.63			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.58	24.71	24.63	25.5	0	
10	QPSK	1	25	24.59	24.67	24.50			
10	QPSK	1	49	24.42	24.56	24.43			
10	QPSK	25	0	23.89	23.76	23.99	24.5	1	
10	QPSK	25	12	23.59	23.66	23.55			
10	QPSK	25	25	23.38	23.58	23.44			
10	QPSK	50	0	23.55	23.66	23.47	24.5	1	
10	16QAM	1	0	23.62	23.65	23.65			
10	16QAM	1	25	23.51	23.52	23.46			
10	16QAM	1	49	23.54	23.54	23.54	23.5	2	
10	16QAM	25	0	22.73	22.66	22.81			
10	16QAM	25	12	22.52	22.53	22.59			
10	16QAM	25	25	22.53	22.60	22.50	23.5	2	
10	16QAM	50	0	22.60	22.62	22.74			
10	64QAM	1	0	22.42	22.37	22.31			
10	64QAM	1	25	22.14	22.11	22.23	22.5	2	
10	64QAM	1	49	22.38	22.31	22.36			
10	64QAM	25	0	21.62	21.58	21.73			
10	64QAM	25	12	21.55	21.59	21.60	22.5	3	
10	64QAM	25	25	21.42	21.37	21.40			
10	64QAM	50	0	21.59	21.61	21.62			
Channel				3777.5	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.55	24.75	24.52	25.5	0	
5	QPSK	1	12	24.68	24.64	24.59			
5	QPSK	1	24	24.47	24.62	24.46			
5	QPSK	12	0	23.68	23.69	23.65	24.5	1	
5	QPSK	12	7	23.61	23.65	23.50			
5	QPSK	12	13	23.40	23.55	23.42			
5	QPSK	25	0	23.62	23.64	23.45	24.5	1	
5	16QAM	1	0	23.71	23.74	23.64			
5	16QAM	1	12	23.45	23.43	23.42			
5	16QAM	1	24	23.59	23.56	23.48	23.5	2	
5	16QAM	12	0	22.70	22.69	22.77			
5	16QAM	12	7	22.59	22.56	22.57			
5	16QAM	12	13	22.49	22.66	22.50	23.5	2	
5	16QAM	25	0	22.63	22.64	22.69			
5	64QAM	1	0	22.33	22.38	22.38			
5	64QAM	1	12	22.23	22.09	22.24	23.5	2	
5	64QAM	1	24	22.32	22.29	22.27			
5	64QAM	12	0	21.65	21.63	21.73			
5	64QAM	12	7	21.44	21.49	21.56	22.5	3	
5	64QAM	12	13	21.50	21.36	21.39			
5	64QAM	25	0	21.55	21.62	21.56			

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37650	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.86	23.92	23.84	25	0	
20	QPSK	1	49	23.59	23.67	23.58			
20	QPSK	1	99	23.84	23.86	23.82			
20	QPSK	50	0	22.73	22.85	22.79	24	1	
20	QPSK	50	24	22.69	22.82	22.78			
20	QPSK	50	50	22.57	22.72	22.61			
20	QPSK	100	0	22.74	22.78	22.68	24	1	
20	16QAM	1	0	22.80	22.88	22.61			
20	16QAM	1	49	22.66	22.66	22.58			
20	16QAM	1	99	22.76	22.68	22.73	23	2	
20	16QAM	50	0	21.75	21.85	21.71			
20	16QAM	50	24	21.62	21.73	21.71			
20	16QAM	50	50	21.68	21.71	21.77	23	2	
20	16QAM	100	0	21.74	21.79	21.63			
20	64QAM	1	0	21.46	21.60	21.39			
20	64QAM	1	49	21.44	21.37	21.43	23	2	
20	64QAM	1	99	21.47	21.44	21.45			
20	64QAM	50	0	20.73	20.82	20.67			
20	64QAM	50	24	20.71	20.84	20.71	22	3	
20	64QAM	50	50	20.68	20.71	20.64			
20	64QAM	100	0	20.65	20.74	20.57			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.74	23.84	23.75	25	0	
15	QPSK	1	37	23.55	23.55	23.52			
15	QPSK	1	74	23.80	23.78	23.80			
15	QPSK	36	0	22.63	22.80	22.68	24	1	
15	QPSK	36	20	22.56	22.71	22.65			
15	QPSK	36	39	22.47	22.68	22.47			
15	QPSK	75	0	22.64	22.66	22.62	24	1	
15	16QAM	1	0	22.65	22.74	22.56			
15	16QAM	1	37	22.54	22.55	22.50			
15	16QAM	1	74	22.61	22.55	22.66	23	2	
15	16QAM	36	0	21.71	21.77	21.62			
15	16QAM	36	20	21.47	21.58	21.60			
15	16QAM	36	39	21.55	21.67	21.63	23	2	
15	16QAM	75	0	21.65	21.68	21.52			
15	64QAM	1	0	21.36	21.52	21.35			
15	64QAM	1	37	21.40	21.33	21.30	22	3	
15	64QAM	1	74	21.39	21.40	21.35			
15	64QAM	36	0	20.65	20.74	20.57			
15	64QAM	36	20	20.57	20.53	20.67	22	3	
15	64QAM	36	39	20.58	20.57	20.61			
15	64QAM	75	0	20.58	20.61	20.44			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.72	23.84	23.74	25	0	
10	QPSK	1	25	23.49	23.52	23.46			
10	QPSK	1	49	23.70	23.83	23.77			
10	QPSK	25	0	22.70	22.79	22.75	24	1	
10	QPSK	25	12	22.62	22.67	22.71			
10	QPSK	25	25	22.51	22.58	22.49			
10	QPSK	50	0	22.69	22.67	22.55	24	1	
10	16QAM	1	0	22.75	22.76	22.57			
10	16QAM	1	25	22.57					



Band 38_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.52	24.54	24.46	25.7	0	
20	QPSK	1	49	24.40	24.47	24.41			
20	QPSK	1	99	24.38	24.51	24.42			
20	QPSK	50	0	23.53	23.60	23.56	24.7	1	
20	QPSK	50	24	23.38	23.42	23.34			
20	QPSK	50	50	23.44	23.55	23.46			
20	QPSK	100	0	23.54	23.57	23.50			
20	16QAM	1	0	23.60	23.63	23.51	24.7	1	
20	16QAM	1	49	23.46	23.45	23.50			
20	16QAM	1	99	23.51	23.52	23.54			
20	16QAM	50	0	22.54	22.61	22.58			
20	16QAM	50	24	22.47	22.45	22.44	23.7	2	
20	16QAM	50	50	22.53	22.48	22.46			
20	16QAM	100	0	22.53	22.55	22.49			
20	64QAM	1	0	22.22	22.28	22.17	23.7	2	
20	64QAM	1	49	22.07	22.03	22.09			
20	64QAM	1	99	22.19	22.20	22.25			
20	64QAM	50	0	21.61	21.52	21.53			
20	64QAM	50	24	21.30	21.37	21.36	22.7	3	
20	64QAM	50	50	21.34	21.33	21.34			
20	64QAM	100	0	21.50	21.47	21.50			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.38	24.45	24.39	25.7	0	
15	QPSK	1	37	24.26	24.34	24.32			
15	QPSK	1	74	24.28	24.41	24.28			
15	QPSK	36	0	23.44	23.52	23.49	24.7	1	
15	QPSK	36	20	23.33	23.35	23.29			
15	QPSK	36	39	23.30	23.49	23.42			
15	QPSK	75	0	23.47	23.45	23.41			
15	16QAM	1	0	23.57	23.57	23.43	24.7	1	
15	16QAM	1	37	23.41	23.41	23.38			
15	16QAM	1	74	23.43	23.46	23.49			
15	16QAM	36	0	22.41	22.37	22.45	23.7	2	
15	16QAM	36	20	22.42	22.34	22.35			
15	16QAM	36	39	22.38	22.43	22.34			
15	16QAM	75	0	22.45	22.48	22.44			
15	64QAM	1	0	22.13	22.23	22.10	23.7	2	
15	64QAM	1	37	21.99	21.96	22.01			
15	64QAM	1	74	22.15	22.14	22.13			
15	64QAM	36	0	21.54	21.48	21.40	22.7	3	
15	64QAM	36	20	21.20	21.34	21.27			
15	64QAM	36	39	21.31	21.22	21.22			
15	64QAM	75	0	21.44	21.33	21.43			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.43	24.41	24.38	25.7	0	
10	QPSK	1	25	24.25	24.37	24.29			
10	QPSK	1	49	24.24	24.47	24.29			
10	QPSK	25	0	23.44	23.54	23.42	24.7	1	
10	QPSK	25	12	23.34	23.38	23.21			
10	QPSK	25	25	23.38	23.43	23.41			
10	QPSK	50	0	23.46	23.51	23.42	24.7	1	
10	16QAM	1	0	23.52	23.54	23.37	24.7	1	
10	16QAM	1	25	23.43	23.31	23.38			
10	16QAM	1	49	23.46	23.39	23.40			
10	16QAM	25	0	22.46	22.56	22.54	23.7	2	
10	16QAM	25	12	22.36	22.37	22.35			
10	16QAM	25	25	22.46	22.35	22.38			
10	16QAM	50	0	22.45	22.49	22.41			
10	64QAM	1	0	22.18	22.23	22.10	23.7	2	
10	64QAM	1	25	21.98	21.98	22.04			
10	64QAM	1	49	22.05	22.05	22.13			
10	64QAM	25	0	21.49	21.48	21.47	22.7	3	
10	64QAM	25	12	21.26	21.33	21.21			
10	64QAM	25	25	21.27	21.29	21.24			
10	64QAM	50	0	21.46	21.42	21.43			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.38	24.48	24.39	25.7	0	
5	QPSK	1	12	24.33	24.32	24.36			
5	QPSK	1	24	24.27	24.46	24.33			
5	QPSK	12	0	23.45	23.56	23.44	24.7	1	
5	QPSK	12	7	23.29	23.33	23.25			
5	QPSK	12	13	23.31	23.46	23.43			
5	QPSK	25	0	23.42	23.53	23.39			
5	16QAM	1	0	23.56	23.56	23.39	24.7	1	
5	16QAM	1	12	23.36	23.40	23.37			
5	16QAM	1	24	23.37	23.44	23.43			
5	16QAM	12	0	22.49	22.47	22.43	23.7	2	
5	16QAM	12	7	22.38	22.32	22.40			
5	16QAM	12	13	22.43	22.33	22.38			
5	16QAM	25	0	22.47	22.52	22.36			
5	64QAM	1	0	22.10	22.17	22.09	23.7	2	
5	64QAM	1	12	22.04	21.92	22.01			
5	64QAM	1	24	22.16	22.15	22.20			
5	64QAM	12	0	21.51	21.38	21.43	22.7	3	
5	64QAM	12	7	21.26	21.23	21.28			
5	64QAM	12	13	21.22	21.21	21.26			
5	64QAM	25	0	21.45	21.33	21.41			

Band 38_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.45	23.48	23.40	24.5	0	
20	QPSK	1	49	23.28	23.41	23.34			
20	QPSK	1	99	23.29	23.37	23.33			
20	QPSK	50	0	22.51	22.55	22.49	23.5	1	
20	QPSK	50	24	22.31	22.39	22.34			
20	QPSK	50	50	22.30	22.43	22.34			
20	QPSK	100	0	22.42	22.50	22.44			
20	16QAM	1	0	22.52	22.51	22.47	23.5	1	
20	16QAM	1	49	22.36	22.33	22.42			
20	16QAM	1	99	22.37	22.42	22.41			
20	16QAM	50	0	21.57	21.52	21.52			
20	16QAM	50	24	21.34	21.33	21.38	22.5	2	
20	16QAM	50	50	21.45	21.35	21.41			
20	16QAM	100	0	21.51	21.48	21.45			
20	64QAM	1	0	21.23	21.26	21.17	22.5	2	
20	64QAM	1	49	21.07	21.09	21.05			
20	64QAM	1	99	21.19	21.20	21.20			
20	64QAM	50	0	20.52	20.51	20.49			
20	64QAM	50	24	20.40	20.37	20.39	21.5	3	
20	64QAM	50	50	20.31	20.28	20.27			
20	64QAM	100	0	20.48	20.44	20.41			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.33	23.45	23.37	24.5	0	
15	QPSK	1	37	23.19	23.32	23.22			
15	QPSK	1	74	23.20	23.25	23.21			
15	QPSK	36	0	22.37	22.43	22.41	23.5	1	
15	QPSK	36	20	22.22	22.25	22.20			
15	QPSK	36	39	22.23	22.34	22.23			
15	QPSK	75	0	22.29	22.41	22.32			
15	16QAM	1	0	22.47	22.44	22.33	23.5	1	
15	16QAM	1	37	22.32	22.28	22.37			
15	16QAM	1	74	22.24	22.36	22.31			
15	16QAM	36	0	21.43	21.47	21.38	22.5	2	
15	16QAM	36	20	21.30	21.24	21.30			
15	16QAM	36	39	21.36	21.25	21.29			
15	16QAM	75	0	21.48	21.44	21.37			
15	64QAM	1	0	21.10	21.17	21.14	22.5	2	
15	64QAM	1	37	20.99	21.02	20.95			
15	64QAM	1	74	21.10	21.08	21.06			
15	64QAM	36	0	20.45	20.46	20.38	21.5	3	
15	64QAM	36	20	20.27	20.30	20.33			
15	64QAM								



Band 41_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.78	24.78	24.81	24.82	24.78	25.5	0
20	QPSK	1	49	24.68	24.74	24.79	24.84	24.67		
20	QPSK	1	99	24.63	24.61	24.67	24.62	24.58		
20	QPSK	50	0	23.76	23.70	23.89	23.85	23.80	24.5	1
20	QPSK	50	24	23.61	23.67	23.71	23.63	23.61		
20	QPSK	50	50	23.59	23.64	23.63	23.54	23.57		
20	QPSK	100	0	23.79	23.76	23.88	23.81	23.83		
20	16QAM	1	0	23.78	23.61	23.77	23.62	23.86	24.5	1
20	16QAM	1	49	23.56	23.59	23.56	23.52	23.57		
20	16QAM	1	99	23.55	23.67	23.65	23.59	23.63		
20	16QAM	50	0	22.77	22.63	22.79	22.87	22.84	23.5	2
20	16QAM	50	24	22.61	22.59	22.57	22.62	22.60		
20	16QAM	50	50	22.59	22.65	22.61	22.65	22.62		
20	16QAM	100	0	22.78	22.69	22.73	22.86	22.89	23.5	2
20	64QAM	1	0	22.41	22.31	22.59	22.42	22.53	23.5	2
20	64QAM	1	49	22.39	22.41	22.47	22.45	22.50		
20	64QAM	1	99	22.46	22.49	22.48	22.50	22.49		
20	64QAM	50	0	21.72	21.64	21.86	21.83	21.89	22.5	3
20	64QAM	50	24	21.76	21.80	21.78	21.75	21.75		
20	64QAM	50	50	21.69	21.73	21.70	21.71	21.75		
20	64QAM	100	0	21.71	21.68	21.85	21.75	21.82		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.71	24.74	24.78	24.70	24.68	25.5	0
15	QPSK	1	37	24.54	24.67	24.68	24.58	24.53		
15	QPSK	1	74	24.57	24.51	24.63	24.50	24.51		
15	QPSK	36	0	23.67	23.66	23.84	23.73	23.72	24.5	1
15	QPSK	36	20	23.48	23.56	23.56	23.58	23.51		
15	QPSK	36	39	23.45	23.61	23.55	23.45	23.47		
15	QPSK	75	0	23.64	23.72	23.84	23.76	23.75	24.5	1
15	16QAM	1	0	23.65	23.52	23.71	23.74	23.82		
15	16QAM	1	37	23.48	23.53	23.44	23.47	23.52	24.5	1
15	16QAM	1	74	23.44	23.60	23.60	23.49	23.58		
15	16QAM	36	0	22.89	22.95	22.75	22.80	22.71	23.5	2
15	16QAM	36	20	22.53	22.55	22.44	22.57	22.54		
15	16QAM	36	39	22.45	22.62	22.47	22.56	22.54		
15	16QAM	75	0	22.66	22.60	22.66	22.81	22.77	23.5	2
15	64QAM	1	0	22.30	22.25	22.53	22.30	22.40		
15	64QAM	1	37	22.27	22.27	22.40	22.38	22.40	22.5	2
15	64QAM	1	74	22.36	22.35	22.35	22.46	22.34		
15	64QAM	36	0	21.63	21.58	21.76	21.69	21.68	22.5	3
15	64QAM	36	20	21.63	21.65	21.66	21.71	21.68		
15	64QAM	36	39	21.60	21.69	21.67	21.60	21.71		
15	64QAM	75	0	21.57	21.56	21.79	21.71	21.71		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.65	24.66	24.86	24.67	24.70	25.5	0
10	QPSK	1	25	24.65	24.71	24.65	24.58	24.53		
10	QPSK	1	49	24.50	24.54	24.60	24.53	24.51		
10	QPSK	25	0	23.68	23.57	23.78	23.71	23.69	24.5	1
10	QPSK	25	12	23.48	23.55	23.66	23.51	23.54		
10	QPSK	25	25	23.55	23.52	23.53	23.50	23.52		
10	QPSK	50	0	23.70	23.71	23.82	23.75	23.76	24.5	1
10	16QAM	1	0	23.68	23.56	23.66	23.77	23.79	24.5	1
10	16QAM	1	25	23.48	23.47	23.48	23.45	23.49		
10	16QAM	1	49	23.42	23.62	23.60	23.46	23.60	23.5	2
10	16QAM	25	0	22.70	22.56	22.75	22.78	22.78		
10	16QAM	25	12	22.53	22.57	22.51	22.54	22.56		
10	16QAM	50	0	22.84	22.65	22.59	22.77	22.74	23.5	2
10	64QAM	1	0	22.32	22.21	22.53	22.34	22.44		
10	64QAM	1	25	22.25	22.28	22.33	22.38	22.40	23.5	2
10	64QAM	1	49	22.37	22.37	22.40	22.42	22.42		
10	64QAM	25	0	21.65	21.55	21.80	21.77	21.80	22.5	3
10	64QAM	25	12	21.64	21.76	21.63	21.69	21.65		
10	64QAM	25	25	21.63	21.67	21.62	21.61	21.67		
10	64QAM	50	0	21.64	21.59	21.71	21.67	21.72		
Channel				39675	40148	40620	41063	41525		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	24.66	24.74	24.81	24.78	24.71	25.5	0
5	QPSK	1	12	24.56	24.71	24.72	24.55	24.54		
5	QPSK	1	24	24.56	24.49	24.58	24.49	24.52		
5	QPSK	12	0	23.64	23.63	23.80	23.77	23.72	24.5	1
5	QPSK	12	7	23.47	23.57	23.62	23.54	23.48		
5	QPSK	12	13	23.50	23.53	23.55	23.47	23.51		
5	QPSK	25	0	23.75	23.67	23.73	23.77	23.77	24.5	1
5	16QAM	1	0	23.67	23.55	23.72	23.76	23.81	24.5	1
5	16QAM	1	12	23.43	23.48	23.44	23.45	23.53		
5	16QAM	1	24	23.51	23.58	23.58	23.49	23.58		
5	16QAM	12	0	22.73	22.50	22.70	22.74	22.73	23.5	2
5	16QAM	12	7	22.54	22.55	22.53	22.52	22.48		
5	16QAM	12	13	22.54	22.51	22.51	22.52	22.49	23.5	2
5	16QAM	25	0	22.73	22.59	22.60	22.63	22.84		
5	64QAM	1	0	22.28	22.18	22.45	22.34	22.49	23.5	2
5	64QAM	1	12	22.35	22.32	22.44	22.35	22.42		
5	64QAM	1	24	22.42	22.45	22.43	22.40	22.43	22.5	3
5	64QAM	12	0	21.63	21.53	21.77	21.69	21.81		
5	64QAM	12	7	21.64	21.66	21.72	21.60	21.71		
5	64QAM	12	13	21.64	21.65	21.65	21.57	21.70		
5	64QAM	25	0	21.67	21.57	21.73	21.61	21.75		

Band 41_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.01	23.96	24.03	23.91	23.86	25	0
20	QPSK	1	49	23.97	23.78	24.01	23.81	23.93		
20	QPSK	1	99	23.80	23.77	23.83	23.79	23.68		
20	QPSK	50	0	22.91	22.79	22.94	22.74	22.84	24	1
20	QPSK	50	24	22.85	22.75	22.92	22.71	22.83		
20	QPSK	50	50	22.78	22.69	22.83	22.73	22.75		
20	QPSK	100	0	22.84	22.78	22.90	22.85	22.81	24	1
20	16QAM	1	0	22.87	22.66	22.83	22.61	22.80	24	1
20	16QAM	1	49	22.70	22.68	22.72	22.65	22.70		
20	16QAM	1	99	22.78	22.81	22.77	22.81	22.83		
20	16QAM	50	0	21.92	21.69	21.94	21.64	21.86	23	2
20	16QAM	50	24	21.84	21.84	21.75	21.84	21.78		
20	16QAM	50	50	21.79	21.70	21.68	21.78	21.72		
20	16QAM	100	0	20.68	20.74	20.76	20.76	20.72	23	2
20	64QAM	1	0	21.66	21.40	21.64	21.34	21.41	23	2
20	64QAM	1	49	21.42	21.37	21.40	21.36	21.42		
20	64QAM	1	99	21.52	21.53	21.51	21.47	21.43		
20	64QAM	50	0	20.88	20.57	20.90	20.61	20.81	22	3
20	64QAM	50	24	20.74	20.78	20.77	20.67	20.73		
20	64QAM	50	50	20.68	20.74	20.76	20.76	20.72		
20	64QAM	100	0	20.82	20.58	20.80	20.			



Band 41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.58	24.60	24.62	24.64	24.66	25.7	0
20	QPSK	1	49	24.39	24.36	24.45	24.35	24.40		
20	QPSK	1	99	24.52	24.44	24.56	24.45	24.50		
20	QPSK	50	0	23.80	23.61	23.69	23.63	23.67		
20	QPSK	50	24	23.52	23.59	23.64	23.52	23.53	24.7	1
20	QPSK	50	50	23.43	23.45	23.58	23.44	23.47		
20	QPSK	100	0	23.52	23.55	23.65	23.61	23.52		
20	16QAM	1	0	23.61	23.63	23.61	23.62	23.64		
20	16QAM	1	49	23.46	23.51	23.50	23.48	23.41	24.7	1
20	16QAM	1	99	23.47	23.44	23.41	23.42	23.39		
20	16QAM	50	0	22.80	22.61	22.62	22.72	22.68		
20	16QAM	50	24	22.49	22.51	22.53	22.48	22.46	23.7	2
20	16QAM	50	50	22.49	22.44	22.46	22.50	22.44		
20	16QAM	100	0	22.59	22.61	22.57	22.65	22.73		
20	64QAM	1	0	22.22	22.24	22.35	22.24	22.30		
20	64QAM	1	49	22.20	22.19	22.23	22.22	22.21	23.7	2
20	64QAM	1	99	22.20	22.20	22.17	22.16	22.19		
20	64QAM	50	0	21.56	21.57	21.60	21.63	21.65		
20	64QAM	50	24	21.42	21.44	21.45	21.46	21.52	22.7	3
20	64QAM	50	50	21.43	21.44	21.43	21.41	21.35		
20	64QAM	100	0	21.54	21.57	21.55	21.63	21.71		
Channel				39725	40173	40620	41088	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.51	24.48	24.48	24.42	24.51	25.7	0
15	QPSK	1	37	24.28	24.27	24.39	24.24	24.35		
15	QPSK	1	74	24.46	24.30	24.49	24.35	24.39		
15	QPSK	36	0	23.51	23.47	23.57	23.48	23.59	24.7	1
15	QPSK	36	20	23.45	23.53	23.58	23.48	23.40		
15	QPSK	36	39	23.36	23.34	23.44	23.36	23.39		
15	QPSK	75	0	23.48	23.43	23.58	23.51	23.40		
15	16QAM	1	0	23.53	23.52	23.56	23.47	23.54		
15	16QAM	1	37	23.42	23.45	23.46	23.35	23.37	24.7	1
15	16QAM	1	74	23.42	23.40	23.35	23.33	23.28		
15	16QAM	36	0	22.49	22.49	22.58	22.67	22.58		
15	16QAM	36	20	22.45	22.46	22.50	22.38	22.40	23.7	2
15	16QAM	36	39	22.37	22.37	22.37	22.47	22.34		
15	16QAM	75	0	22.44	22.48	22.42	22.60	22.66		
15	64QAM	1	0	22.12	22.18	22.27	22.10	22.16		
15	64QAM	1	37	22.14	22.11	22.13	22.13	22.08	23.7	2
15	64QAM	1	74	22.15	22.15	22.11	22.03	22.05		
15	64QAM	36	0	21.51	21.53	21.51	21.54	21.62		
15	64QAM	36	20	21.38	21.37	21.30	21.40	21.42	22.7	3
15	64QAM	36	39	21.36	21.36	21.33	21.30	21.24		
15	64QAM	75	0	21.40	21.47	21.42	21.51	21.62		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.52	24.55	24.58	24.52	24.45	25.7	0
10	QPSK	1	25	24.26	24.23	24.34	24.28	24.32		
10	QPSK	1	49	24.42	24.30	24.45	24.34	24.35		
10	QPSK	25	0	23.47	23.52	23.60	23.50	23.59	24.7	1
10	QPSK	25	12	23.41	23.48	23.52	23.38	23.39		
10	QPSK	25	25	23.33	23.33	23.54	23.37	23.40		
10	QPSK	50	0	23.41	23.45	23.55	23.58	23.47	24.7	1
10	16QAM	1	0	23.50	23.50	23.51	23.52	23.60		
10	16QAM	1	25	23.33	23.40	23.44	23.44	23.35		
10	16QAM	1	49	23.40	23.31	23.36	23.27	23.30		
10	16QAM	25	0	22.55	22.56	22.54	22.59	22.60	23.7	2
10	16QAM	25	12	22.43	22.40	22.49	22.39	22.40		
10	16QAM	25	25	22.41	22.40	22.33	22.38	22.40		
10	16QAM	50	0	22.45	22.57	22.45	22.58	22.59		
10	64QAM	1	0	22.17	22.15	22.21	22.18	22.27	23.7	2
10	64QAM	1	25	22.10	22.14	22.18	22.18	22.18		
10	64QAM	1	49	22.06	22.10	22.07	22.12	22.10		
10	64QAM	25	0	21.41	21.43	21.48	21.53	21.53	22.7	3
10	64QAM	25	12	21.38	21.39	21.34	21.32	21.39		
10	64QAM	25	25	21.39	21.37	21.30	21.37	21.21		
10	64QAM	50	0	21.51	21.45	21.41	21.49	21.64		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.5	2593	2640.30	2687.5		
5	QPSK	1	0	24.48	24.49	24.59	24.41	24.51	25.7	0
5	QPSK	1	12	24.30	24.26	24.37	24.22	24.34		
5	QPSK	1	24	24.48	24.34	24.53	24.39	24.46		
5	QPSK	12	0	23.54	23.47	23.64	23.54	23.59	24.7	1
5	QPSK	12	7	23.48	23.56	23.53	23.41	23.43		
5	QPSK	12	13	23.35	23.38	23.44	23.31	23.40		
5	QPSK	25	0	23.47	23.46	23.58	23.47	23.46	24.7	1
5	16QAM	1	0	23.49	23.53	23.47	23.50	23.55		
5	16QAM	1	12	23.42	23.43	23.43	23.40	23.38	24.7	1
5	16QAM	1	24	23.33	23.30	23.30	23.29	23.26		
5	16QAM	12	0	22.56	22.52	22.49	22.59	22.61		
5	16QAM	12	7	22.45	22.39	22.48	22.44	22.41	23.7	2
5	16QAM	12	13	22.44	22.31	22.43	22.39	22.30		
5	16QAM	25	0	22.49	22.52	22.43	22.54	22.67		
5	64QAM	1	0	22.14	22.18	22.26	22.14	22.26	23.7	2
5	64QAM	1	12	22.10	22.10	22.09	22.13	22.12		
5	64QAM	1	24	22.11	22.09	22.07	22.06	22.09	22.7	3
5	64QAM	12	0	21.42	21.53	21.47	21.50	21.56		
5	64QAM	12	7	21.37	21.37	21.34	21.37	21.39		
5	64QAM	12	13	21.31	21.38	21.37	21.31	21.24		
5	64QAM	25	0	21.42	21.48	21.49	21.48	21.63		

Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.69	23.33	23.33	23.36	23.50	24.5	0
20	QPSK	1	49	23.30	23.31	23.41	23.37	23.28		
20	QPSK	1	99	23.31	23.31	23.31	23.21	23.24		
20	QPSK	50	0	22.42	22.35	22.53	22.45	22.49		
20	QPSK	50	24	22.38	22.34	22.46	22.42	22.32	23.5	1
20	QPSK	50	50	22.32	22.27	22.39	22.32	22.33		
20	QPSK	100	0	22.36	22.36	22.49	22.40	22.42		
20	16QAM	1	0	22.53	22.30	22.55	22.39	22.51		
20	16QAM	1	49	22.38	22.42	22.37	22.42	22.35	23.5	1
20	16QAM	1	99	22.45	22.42	22.46	22.45	22.43		
20	16QAM	50	0	21.48	21.35	21.54	21.47	21.48		
20	16QAM	50	24	21.43	21.38	21.36	21.43	21.42	22.5	2
20	16QAM	50	50	21.35	21.37	21.39	21.30	21.32		
20	16QAM	100	0	21.46	21.30	21.52	21.40	21.54		
20	64QAM	1	0	21.22	21.07	21.29	21.14	21.32		
20	64QAM	1	49	21.16	21.12	21.10	21.08	21.11	22.5	2
20	64QAM	1	99	21.21	21.22	21.20	21.21	21.23		
20	64QAM	50	0	20.41	20.30	20.52	20.46	20.46		
20	64QAM	50	24	20.44	20.43	20.37	20.41	20.38	21.5	3
20	64QAM	50	50	20.29	20.30	20.34	20.34	20.27		
20</										



DS14

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	861	810		824.2	836.4	848.8	
TX Channel	512	861	810	512	861	810	512	861
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slot	32.70	32.74	32.72	33.50	23.70	23.74	23.72	24.50
GPRS 1 Tx slot	32.66	32.68	32.69	33.50	23.66	23.68	23.69	24.50
GPRS 2 Tx slots	30.19	30.14	30.22	30.50	24.19	24.14	24.22	24.50
GPRS 3 Tx slots	28.35	28.33	28.36	28.70	24.09	24.07	24.10	24.44
GPRS 4 Tx slots	26.59	26.96	26.92	27.50	23.53	23.96	23.92	24.50
EDGE 1 Tx slot	26.61	26.66	26.61	27.50	17.61	17.66	17.61	18.50
EDGE 2 Tx slots	23.65	23.67	23.64	24.50	17.65	17.67	17.64	18.50
EDGE 3 Tx slots	21.73	21.78	21.71	22.70	17.47	17.52	17.45	18.44
EDGE 4 Tx slots	20.94	20.97	20.88	21.50	17.94	17.97	17.86	18.50

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	861	810		824.2	836.4	848.8	
TX Channel	512	861	810	512	861	810	512	861
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slot	32.58	32.43	32.37	33.50	23.58	23.43	23.37	24.50
GPRS 1 Tx slot	32.56	32.41	32.34	33.50	23.56	23.41	23.34	24.50
GPRS 2 Tx slots	29.92	29.77	29.76	30.50	23.92	23.77	23.76	24.50
GPRS 3 Tx slots	28.07	27.96	27.93	28.70	23.81	23.70	23.67	24.44
GPRS 4 Tx slots	26.71	26.73	26.58	27.50	23.71	23.73	23.58	24.50
EDGE 1 Tx slot	26.23	26.31	26.27	27.50	17.23	17.31	17.27	18.00
EDGE 2 Tx slots	23.30	23.36	23.32	24.00	17.30	17.36	17.32	18.00
EDGE 3 Tx slots	21.44	21.42	21.38	22.20	17.18	17.16	17.12	17.84
EDGE 4 Tx slots	20.47	20.56	20.43	21.00	17.47	17.56	17.43	18.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	861	810		850.2	1880	1909.8	
TX Channel	512 <td>861 <td>810 <td>512 <td>861 <td>810 <td>512 <td>861 </td></td></td></td></td></td></td>	861 <td>810 <td>512 <td>861 <td>810 <td>512 <td>861 </td></td></td></td></td></td>	810 <td>512 <td>861 <td>810 <td>512 <td>861 </td></td></td></td></td>	512 <td>861 <td>810 <td>512 <td>861 </td></td></td></td>	861 <td>810 <td>512 <td>861 </td></td></td>	810 <td>512 <td>861 </td></td>	512 <td>861 </td>	861
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
GSM 1 Tx slot	29.38	29.48	29.46	30.50	20.38	20.48	20.46	21.50
GPRS 1 Tx slot	29.35	29.44	29.42	30.50	20.35	20.44	20.42	21.50
GPRS 2 Tx slots	26.93	27.01	26.99	27.50	20.93	21.01	20.99	21.50
GPRS 3 Tx slots	25.14	25.26	25.22	25.70	20.88	21.00	20.86	21.44
GPRS 4 Tx slots	23.84	23.93	23.89	24.50	20.84	20.93	20.89	21.50
EDGE 1 Tx slot	26.61	26.66	26.61	27.50	16.75	16.86	16.81	17.50
EDGE 2 Tx slots	22.31	22.26	22.28	23.50	16.31	16.26	16.28	17.50
EDGE 3 Tx slots	20.02	19.97	19.97	21.70	15.76	15.65	15.71	17.44
EDGE 4 Tx slots	19.11	19.04	19.06	20.50	16.11	16.04	16.06	17.50

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	861	810		850.2	1880	1909.8	
TX Channel	512 <td>861 <td>810 <td>512 <td>861 <td>810 <td>512 <td>861</td> </td></td></td></td></td></td>	861 <td>810 <td>512 <td>861 <td>810 <td>512 <td>861</td> </td></td></td></td></td>	810 <td>512 <td>861 <td>810 <td>512 <td>861</td> </td></td></td></td>	512 <td>861 <td>810 <td>512 <td>861</td> </td></td></td>	861 <td>810 <td>512 <td>861</td> </td></td>	810 <td>512 <td>861</td> </td>	512 <td>861</td>	861
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1880
GSM 1 Tx slot	29.40	29.56	29.51	30.50	20.40	20.56	20.51	21.50
GPRS 1 Tx slot	29.39	29.52	29.50	30.50	20.39	20.52	20.50	21.50
GPRS 2 Tx slots	26.95	27.05	27.02	27.50	20.95	21.05	21.02	21.50
GPRS 3 Tx slots	25.18	25.30	25.28	25.70	20.92	21.04	21.02	21.44
GPRS 4 Tx slots	23.86	23.97	23.95	24.50	20.86	20.97	20.95	21.50
EDGE 1 Tx slot	26.03	26.91	26.97	27.50	17.03	16.91	16.97	17.50
EDGE 2 Tx slots	22.86	22.36	22.53	23.50	16.66	16.38	16.53	17.50
EDGE 3 Tx slots	20.17	19.95	20.12	21.70	15.91	15.69	15.86	17.44
EDGE 4 Tx slots	19.32	19.24	19.31	20.50	16.32	16.24	16.31	17.50

Band	TX Channel	Rx Channel	WCDMA U_Ant 0			Tune-up Limit (dBm)	WCDMA U_Ant 2			Tune-up Limit (dBm)
			9202	9500	9538		9202	9400	9538	
3GPP Rel 99	AMR 12.2Kbps	21.41	21.48	21.47	22.00	20.50	20.55	20.49	21.50	
3GPP Rel 99	RMC 12.2Kbps	21.43	21.51	21.50	22.00	20.54	20.57	20.53	21.50	
3GPP Rel 6	HSDPA Subtest-1	20.30	20.63	20.51	21.00	19.37	19.75	19.68	20.50	
3GPP Rel 6	HSDPA Subtest-2	20.63	20.60	20.59	21.00	19.73	19.48	19.64	20.50	
3GPP Rel 6	HSDPA Subtest-3	19.89	20.04	19.86	20.50	18.92	18.90	18.86	20.00	
3GPP Rel 6	HSDPA Subtest-4	20.01	20.21	19.85	20.50	19.05	19.36	19.14	20.00	
3GPP Rel 6	DC-HSDPA Subtest-1	20.80	20.61	20.71	21.00	19.61	19.73	19.82	20.50	
3GPP Rel 6	DC-HSDPA Subtest-2	20.43	20.52	20.61	21.00	19.53	19.77	19.47	20.50	
3GPP Rel 6	DC-HSDPA Subtest-3	20.05	20.02	19.90	20.50	19.28	19.29	19.12	20.00	
3GPP Rel 6	DC-HSDPA Subtest-4	19.99	20.09	20.03	20.50	19.19	19.35	18.90	20.00	
3GPP Rel 6	HSUPA Subtest-1	20.48	20.57	20.63	21.00	19.81	19.59	19.63	20.50	
3GPP Rel 6	HSUPA Subtest-2	18.42	18.73	18.58	19.00	17.54	17.50	17.69	18.50	
3GPP Rel 6	HSUPA Subtest-3	19.72	19.82	19.58	20.00	18.68	18.82	18.58	19.50	
3GPP Rel 6	HSUPA Subtest-4	18.44	18.50	18.48	19.00	17.57	17.70	17.50	18.50	
3GPP Rel 6	HSUPA Subtest-5	20.70	20.65	20.62	21.00	19.87	19.95	19.95	20.50	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.80	18.29	17.89	18.50	17.03	17.29	17.31	18.00	

Band	TX Channel	Rx Channel	WCDMA U_Ant 0			Tune-up Limit (dBm)	WCDMA U_Ant 2			Tune-up Limit (dBm)
			1312	1413	1513		1312	1413	1513	
3GPP Rel 99	AMR 12.2Kbps	20.12	20.17	20.14	21.00	21.09	21.19	21.14	22.50	
3GPP Rel 99	RMC 12.2Kbps	20.18	20.20	20.19	21.00	21.11	21.38	21.37	22.50	
3GPP Rel 6	HSDPA Subtest-1	19.10	19.15	19.18	20.00	20.43	20.49	20.55	21.50	
3GPP Rel 6	HSDPA Subtest-2	19.11	19.13	19.17	20.00	20.51	20.52	20.59	21.50	
3GPP Rel 6	HSDPA Subtest-3	18.67	18.71	18.70	19.50	19.97	19.82	19.91	21.00	
3GPP Rel 6	HSDPA Subtest-4	18.57	18.64	18.63	19.50	19.94	20.14	19.75	21.00	
3GPP Rel 6	DC-HSDPA Subtest-1	18.82	18.66	18.64	20.00	20.55	20.54	20.72	21.50	
3GPP Rel 6	DC-HSDPA Subtest-2	18.83	18.67	18.62	20.00	20.28	20.51	20.34	21.50	
3GPP Rel 6	DC-HSDPA Subtest-3	18.07	18.11	18.12	19.50	20.19	19.98	19.84	21.00	
3GPP Rel 6	DC-HSDPA Subtest-4	18.05	18.13	18.11	19.50	19.71	20.02	19.98	21.00	
3GPP Rel 6	HSUPA Subtest-1	19.25	19.30	19.33	20.00	20.42	20.47	20.49	21.50	
3GPP Rel 6	HSUPA Subtest-2	17.26	17.31	17.34	18.00	18.43	18.66	18.52	19.50	
3GPP Rel 6	HSUPA Subtest-3	18.12	18.17	18.18	19.00	19.47	19.62	19.52	20.50	
3GPP Rel 6	HSUPA Subtest-4	16.77	16.86	16.84	18.00	18.29	18.46	18.54	19.50	
3GPP Rel 6	HSUPA Subtest-5	19.30	19.30	19.30	20.00	20.43	20.55	20.52	21.50	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.26	16.34	16.31	17.50	17.90	18.02	17.84	18.00	

Band	TX Channel	Rx Channel	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)
			4132	4182	4233		4132	4182	4233	
3GPP Rel 99	AMR 12.2Kbps	24.17	24.23	24.11	25.00	23.34	23.40	23.27	24.50	
3GPP Rel 99	RMC 12.2Kbps	24.28	24.31	24.25	25.00	23.40	23.42	23.31	24.50	
3GPP Rel 6	HSDPA Subtest-1	23.22	23.36	23.39	24.00	22.29	22.38	22.58	23.50	
3GPP Rel 6	HSDPA Subtest-2	23.38	23.29	23.28	24.00	22.42	22.38	22.46	23.50	
3GPP Rel 6	HSDPA Subtest-3	22.73	22.68	22.74	23.50	21.85	21.88	21.74	23.00	
3GPP Rel 6	HSDPA Subtest-4	22.63	22.81	22.59	23.50	21.92	22.10	21.81	23.00	
3GPP Rel 6	DC-HSDPA Subtest-1	23.38	23.37	23.30	24.00	22.29	22.46	22.56	23.50	
3GPP Rel 6	DC-HSDPA Subtest-2	23.13	23.40	23.25	24.00	22.33	22.52	22.30	23.50	
3GPP Rel 6	DC-HSDPA Subtest-3	22.84	22.92	22.74	23.50	21.93	22.06	21.88	23.00	
3GPP Rel 6	DC-HSDPA Subtest-4	22.70	22.88	22.61	23.50	21.75	21.97	21.80	23.00	
3GPP Rel 6	HSUPA Subtest-1	23.26	23.30	23.24	24.00	22.31	22.50	22.43	23.50	
3GPP Rel 6	HSUPA Subtest-2	21.06	21.37	21.41	22.00	20.34	20.50	20.55	21.50	
3GPP Rel 6	HSUPA Subtest-3	22.42	22.37	22.17	23.00	21.45	21.48	21.29	22.50	
3GPP Rel 6	HSUPA Subtest-4	21.16	21.27	21.24	22.00	20.29	20.44	20.54	21.50	
3GPP Rel 6	HSUPA Subtest-5	23.42	23.38	23.32	24.00	22.45	22.46	22.33	23.50	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.76	20.90	20.70	21.50	19.88	20.02	19.99	21.00	



Band 2_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				18700	18900	19100				
Frequency (MHz)				18600	18800	19000				
20	QPSK	1	0	21.91	22.01	21.74	22.5	0		
20	QPSK	1	49	21.78	21.85	21.63				
20	QPSK	1	99	21.86	21.65	21.58				
20	QPSK	50	0	21.86	21.96	21.70	22.5	0		
20	QPSK	50	24	21.85	21.92	21.64				
20	QPSK	50	50	21.82	21.84	21.60				
20	QPSK	100	0	21.74	21.88	21.68	22.5	0		
20	16QAM	1	0	21.82	21.76	21.57				
20	16QAM	1	49	21.86	21.80	21.70				
20	16QAM	1	99	21.71	21.64	21.46	22	0.5		
20	16QAM	50	0	21.30	21.39	21.09				
20	16QAM	50	24	21.34	21.33	21.06				
20	16QAM	50	50	21.36	21.32	21.05	22	0.5		
20	16QAM	100	0	21.34	21.20	21.17				
20	16QAM	1	0	21.35	21.37	21.26				
20	16QAM	1	49	21.42	21.45	21.37	21	1.5		
20	16QAM	1	99	21.20	21.15	21.21				
20	16QAM	50	0	20.27	20.39	20.15				
20	16QAM	50	24	20.35	20.34	20.09	21	1.5		
20	16QAM	50	50	20.33	20.26	19.98				
20	16QAM	100	0	20.35	20.27	20.09				
Channel				18975	18900	19125	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1897.5	1880	1902.5				
15	QPSK	1	0	21.75	21.95	21.62	22.5	0		
15	QPSK	1	37	21.71	21.75	21.58				
15	QPSK	1	74	21.57	21.60	21.50				
15	QPSK	36	0	21.90	21.89	21.54	22.5	0		
15	QPSK	36	39	21.82	21.83	21.55				
15	QPSK	36	39	21.72	21.80	21.54				
15	QPSK	75	0	21.64	21.78	21.63	22.5	0		
15	16QAM	1	0	21.78	21.70	21.56				
15	16QAM	1	37	21.75	21.73	21.65				
15	16QAM	1	74	21.89	21.54	21.46	22	0.5		
15	16QAM	1	0	21.16	21.31	21.05				
15	16QAM	36	20	21.32	21.29	20.95				
15	16QAM	36	39	21.25	21.28	20.98	22	0.5		
15	16QAM	75	0	21.22	21.08	21.07				
15	16QAM	1	0	21.23	21.31	21.21				
15	16QAM	1	37	21.40	21.37	21.34	22	0.5		
15	16QAM	1	74	21.15	21.08	21.20				
15	16QAM	36	0	20.21	20.29	20.13				
15	16QAM	36	20	20.33	20.27	20.00	21	1.5		
15	16QAM	36	39	20.25	20.24	19.92				
15	16QAM	75	0	20.24	20.22	20.06				
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1865	1880	1905				
10	QPSK	1	0	21.79	21.94	21.71	22.5	0		
10	QPSK	1	25	21.75	21.77	21.54				
10	QPSK	1	49	21.63	21.58	21.50				
10	QPSK	25	0	21.81	21.92	21.63	22.5	0		
10	QPSK	25	12	21.74	21.82	21.63				
10	QPSK	25	25	21.71	21.77	21.58				
10	QPSK	50	0	21.71	21.85	21.62	22.5	0		
10	16QAM	1	0	21.71	21.96	21.48				
10	16QAM	1	25	21.84	21.70	21.67				
10	16QAM	1	49	21.64	21.55	21.43	22	0.5		
10	16QAM	25	0	21.18	21.37	21.04				
10	16QAM	25	12	21.23	21.29	21.02				
10	16QAM	25	25	21.34	21.20	21.04	22	0.5		
10	16QAM	50	0	21.32	21.17	21.08				
10	16QAM	1	0	21.30	21.51	21.24				
10	16QAM	1	25	21.30	21.39	21.33	22	0.5		
10	16QAM	1	49	21.13	21.08	21.10				
10	16QAM	25	0	20.22	20.34	20.12				
10	16QAM	25	12	20.33	20.23	20.08	21	1.5		
10	16QAM	25	25	20.28	20.16	19.95				
10	16QAM	50	0	20.33	20.15	20.08				
Channel				18925	18900	19175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1892.5	1880	1907.5				
5	QPSK	1	0	21.74	21.89	21.69	22.5	0		
5	QPSK	1	12	21.69	21.77	21.56				
5	QPSK	1	24	21.56	21.56	21.55				
5	QPSK	12	0	21.90	21.84	21.63	22.5	0		
5	QPSK	12	7	21.78	21.81	21.55				
5	QPSK	12	13	21.77	21.73	21.54				
5	QPSK	25	0	21.72	21.78	21.60	22.5	0		
5	16QAM	1	0	21.74	21.66	21.55				
5	16QAM	1	12	21.83	21.77	21.66				
5	16QAM	1	24	21.64	21.54	21.44	22	0.5		
5	16QAM	12	0	21.28	21.28	21.05				
5	16QAM	12	7	21.27	21.31	21.03				
5	16QAM	12	13	21.33	21.27	20.97	22	0.5		
5	16QAM	25	0	21.24	21.17	21.11				
5	16QAM	1	0	21.25	21.27	21.22				
5	16QAM	1	12	21.30	21.36	21.33	22	0.5		
5	16QAM	1	24	21.10	21.05	21.12				
5	16QAM	12	0	20.19	20.33	20.10				
5	16QAM	12	7	20.32	20.27	19.97	21	1.5		
5	16QAM	12	13	20.26	20.18	19.92				
5	16QAM	25	0	20.24	20.20	20.09				
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1861.5	1880	1906.5				
3	QPSK	1	0	21.71	21.96	21.72	22.5	0		
3	QPSK	1	8	21.87	21.80	21.52				
3	QPSK	1	14	21.54	21.55	21.47				
3	QPSK	8	0	21.80	21.89	21.59	22.5	0		
3	QPSK	8	4	21.80	21.91	21.55				
3	QPSK	8	7	21.76	21.83	21.51				
3	QPSK	15	0	21.63	21.78	21.60	22.5	0		
3	16QAM	1	0	21.71	21.89	21.56				
3	16QAM	1	8	21.83	21.76	21.63				
3	16QAM	1	14	21.64	21.55	21.38	22	0.5		
3	16QAM	8	0	21.18	21.33	21.02				
3	16QAM	8	4	21.27	21.25	20.98				
3	16QAM	8	7	21.24	21.22	21.04	22	0.5		
3	16QAM	15	0	21.22	21.15	21.16				
3	16QAM	1	0	21.32	21.36	21.21				
3	16QAM	1	8	21.33	21.34	21.29	22	0.5		
3	16QAM	8	0	21.16	21.12	21.18				
3	16QAM	8	0	20.16	20.30	20.14				
3	16QAM	8	4	20.23	20.31	20.02	21	1.5		
3	16QAM	8	7	20.25	20.21	19.89				
3	16QAM	15	0	20.33	20.20	20.02				
Channel				18907	18900	19163	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1890.7	1880	1909.3				
1.4	QPSK	1	0	21.74	22.00	21.64	22.5	0		
1.4	QPSK	1	3	21.71	21.80	21.56				
1.4	QPSK	1	5	21.60	21.63	21.57				
1.4	QPSK	3	0	21.86	21.96	21.58	22.5	0		
1.4	QPSK	3	1	21.66	21.79	21.53				
1.4	QPSK	3	1	21.59	21.53	21.52				
1.4	QPSK	6	0	21.63	21.77	21.57	22.5	0		
1.4	16QAM	1	0	21.77	21.64	21.47				
1.4	16QAM	1	3	21.76	21.78	21.61				
1.4	16QAM	1	5	21.84	21.62	21.37	22.5	0		
1.4	16QAM	3	0	21.66	21.55	21.35				
1.4	16QAM	3	1	21.72	21.72	21.57				
1.4	16QAM	3	1	21.63	21.57	21.33	22	0.5		
1.4	16QAM	6	0	21.32	21.13	21.14				
1.4	16QAM	1	0	21.24	21.34	21.18				
1.4	16QAM	1	3	21.31	21.37	21.35	22	0.5		
1.4	16QAM	1	5	21.16	21.11	21.14				
1.4	16QAM	3	0	21.16	21.24	21.13				
1.4	16QAM	1	1	21.25	21.35	21.27	21	1.5		
1.4	16QAM	3	3	21.07	20.99	21.04				
1.4	16QAM	6	0	20.23	20.19	19.98				

Band 2_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				18700	18900	19100				
Frequency (MHz)				18600	18800	19000				
20	QPSK	1	0	13.50	13.60	13.35	14.7	0		
20	QPSK	1	49	13.49	13.59	13.48				
20	QPSK	1	99	13.41	13.50	13.45				
20	QPSK	50	0	13.53	13.59	13.54	14.7	0		
20	QPSK	50	24	13.52	13.56	13.52				
20	QPSK	50	50	13.48	13.54	13.45				
20	QPSK	100	0	13.46	13.54	13.45	14.7	0		
20	16QAM	1	0	13.50	13.57	13.53				
20	16QAM	1	49	13.51	13.58	13.54				
20	16QAM	1	99	13.46	13.57	13.47	14.7	0		
20	16QAM	50	0	13.45	13.56	13.44				
20	16QAM	50	24	13.54	13.58	13.47				
20	16QAM	50	50	13.45	13.57	13.50	14.7	0		
20	16QAM	100	0	13.49	13.55	13.52				
20	16QAM	1	0	13.50	13.54	13.45				
20	16QAM	1	49	13.50	13.56	13.46	14.7	0		
20	16QAM	1	99	13.46	13.53	13.49				
20	16QAM	50	0	13.44	13.50	13.40				
20	16QAM	50	24	13.43	13.51	13.45	14.7	0		
20	16QAM	50	50	13.50	13.55	13.43				
20	16QAM	100	0	13.45	13.57	13.50				
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1867.5	1880	1902.5				
15	QPSK	1	0	13.41	13.57	13.50	14.7	0		
15	QPSK	1	37	13.43	13.51	13.44				
15	QPSK	1	74	13.31	13.41	13.37				
15	QPSK	36	0	13.43	13.55	13.46	14.7	0		
15	QPSK	36	39	13.45	13.45	13.35				
15	QPSK	36	39	13.44	13.42	13.33				
15	QPSK	75	0	13.37	13.43	13.38	14.7	0		
15	16QAM	1	0							



Band 4_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20050	20175	20300				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	18.07	18.19	18.15				
20	QPSK	1	49	18.00	18.12	18.08	19	0		
20	QPSK	1	99	17.82	17.91	17.81				
20	QPSK	50	0	18.05	18.12	18.04				
20	QPSK	50	24	18.01	18.11	18.03	19	0		
20	QPSK	50	50	17.98	18.10	18.00				
20	QPSK	100	0	17.99	18.08	18.01				
20	16QAM	1	0	18.12	18.15	18.04				
20	16QAM	1	49	18.04	18.16	18.12	19	0		
20	16QAM	1	99	18.08	18.11	18.05				
20	16QAM	50	0	18.04	18.10	18.00				
20	16QAM	50	24	18.05	18.08	18.05	19	0		
20	16QAM	50	50	17.99	18.10	18.04				
20	16QAM	100	0	17.93	18.05	17.94				
20	64QAM	1	0	18.01	18.10	17.98				
20	64QAM	1	49	18.06	18.10	18.01	19	0		
20	64QAM	1	99	18.04	18.07	17.95				
20	64QAM	50	0	18.01	18.11	17.97				
20	64QAM	50	24	18.03	18.11	18.05	19	0		
20	64QAM	50	50	17.96	18.04	18.00				
20	64QAM	100	0	17.98	18.05	17.96				
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	17.99	18.10	18.03	19	0		
15	QPSK	1	37	17.89	18.08	18.04				
15	QPSK	1	74	17.72	17.84	17.73				
15	QPSK	36	0	17.94	18.00	17.94				
15	QPSK	36	39	17.95	17.99	17.98	19	0		
15	QPSK	36	39	17.89	18.00	17.98				
15	QPSK	75	0	17.89	18.03	17.92				
15	16QAM	1	0	18.05	18.06	17.93				
15	16QAM	1	37	18.00	18.10	18.00	19	0		
15	16QAM	1	74	17.98	18.10	18.02				
15	16QAM	36	0	17.92	18.01	17.95				
15	16QAM	36	20	18.01	18.02	17.94	19	0		
15	16QAM	36	39	17.93	18.05	17.92				
15	16QAM	75	0	17.85	17.99	17.89				
15	64QAM	1	0	17.98	18.05	17.93				
15	64QAM	1	37	17.94	17.98	17.89	19	0		
15	64QAM	1	74	17.99	17.96	17.97				
15	64QAM	36	0	17.90	17.92	17.87				
15	64QAM	36	20	17.93	18.01	18.00	19	0		
15	64QAM	36	39	17.90	17.92	17.93				
15	64QAM	75	0	17.89	17.93	17.90				
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	17.98	18.15	18.05	19	0		
10	QPSK	1	25	17.92	18.06	18.00				
10	QPSK	1	49	17.70	17.79	17.70				
10	QPSK	25	0	17.99	18.01	17.93				
10	QPSK	25	12	17.96	18.08	17.97	19	0		
10	QPSK	25	25	17.91	18.00	17.92				
10	QPSK	50	0	17.96	17.97	17.96				
10	16QAM	1	0	18.02	18.11	17.92				
10	16QAM	1	25	17.93	18.12	18.00	19	0		
10	16QAM	1	49	18.05	18.05	17.97				
10	16QAM	25	0	17.96	18.05	17.95				
10	16QAM	25	12	17.98	17.96	17.97	19	0		
10	16QAM	25	25	17.96	18.06	17.95				
10	16QAM	50	0	17.82	17.94	17.90				
10	64QAM	1	0	17.97	18.02	17.93				
10	64QAM	1	25	18.02	18.01	17.97	19	0		
10	64QAM	1	49	17.93	17.95	17.83				
10	64QAM	25	0	17.96	18.03	17.94				
10	64QAM	25	12	17.92	18.06	18.03	19	0		
10	64QAM	25	25	17.91	17.93	17.95				
10	64QAM	50	0	17.90	18.00	17.84				
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	17.96	18.09	18.09	19	0		
5	QPSK	1	12	17.95	18.08	18.00				
5	QPSK	1	24	17.70	17.80	17.75				
5	QPSK	12	0	17.97	18.03	17.97				
5	QPSK	12	7	17.97	18.04	17.97	19	0		
5	QPSK	12	13	17.90	18.04	17.92				
5	QPSK	25	0	17.93	17.98	17.98				
5	16QAM	1	0	18.08	18.10	17.95				
5	16QAM	1	12	17.99	18.09	18.06	19	0		
5	16QAM	1	24	18.02	18.05	17.95				
5	16QAM	12	0	17.99	18.03	17.91				
5	16QAM	12	7	17.99	18.00	17.95	19	0		
5	16QAM	12	13	17.92	18.02	17.93				
5	16QAM	25	0	17.86	17.96	17.84				
5	64QAM	1	0	17.93	18.07	17.94				
5	64QAM	1	12	17.97	17.99	17.91	19	0		
5	64QAM	1	24	17.93	17.97	17.90				
5	64QAM	12	0	17.96	17.96	17.88				
5	64QAM	12	7	17.96	18.00	17.98	19	0		
5	64QAM	12	13	17.84	17.95	17.92				
5	64QAM	25	0	17.95	17.97	17.84				
Channel				19955	20175	20385	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1711.5	1732.5	1753.5				
3	QPSK	1	0	17.99	18.12	18.05	19	0		
3	QPSK	1	8	17.88	18.00	17.97				
3	QPSK	1	14	17.73	17.88	17.78				
3	QPSK	8	0	17.97	18.00	17.90				
3	QPSK	8	4	17.98	18.08	17.97	19	0		
3	QPSK	8	7	17.89	18.01	17.94				
3	QPSK	15	0	17.95	17.96	17.92				
3	16QAM	1	0	18.06	18.03	17.92				
3	16QAM	1	8	17.96	18.05	18.02	19	0		
3	16QAM	1	14	18.00	18.01	18.02				
3	16QAM	8	0	17.94	18.07	17.92				
3	16QAM	8	4	17.97	18.02	17.93	19	0		
3	16QAM	8	7	17.89	18.02	17.97				
3	16QAM	15	0	17.90	18.01	17.89				
3	64QAM	1	0	17.91	18.06	17.95				
3	64QAM	1	8	17.99	18.07	17.93	19	0		
3	64QAM	1	14	17.92	18.04	17.92				
3	64QAM	8	0	17.93	17.98	17.87				
3	64QAM	8	4	17.99	18.01	17.98	19	0		
3	64QAM	8	7	17.87	18.00	17.88				
3	64QAM	15	0	17.95	17.99	17.89				
Channel				19957	20175	20395	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	18.02	18.09	18.05	19	0		
1.4	QPSK	1	3	17.95	18.01	18.00				
1.4	QPSK	1	5	17.79	17.87	17.74				
1.4	QPSK	3	0	17.95	18.06	17.93				
1.4	QPSK	3	1	17.90	18.02	17.98	19	0		
1.4	QPSK	3	3	17.92	18.01	17.95				
1.4	QPSK	6	0	17.90	18.01	17.95	19	0		
1.4	16QAM	1	0	18.09	18.08	17.92				
1.4	16QAM	1	3	17.92	18.11	18.09				
1.4	16QAM	1	5	18.03	18.03	17.97	19	0		
1.4	16QAM	3	0	18.00	18.00	17.89				
1.4	16QAM	3	1	17.98	17.97	17.95				
1.4	16QAM	3	3	17.98	17.99	18.00	19	0		
1.4	16QAM	6	0	17.87	17.93	17.90				
1.4	64QAM	1	0	17.98	18.06	17.88				
1.4	64QAM	1	3	18.00	18.01	17.89				
1.4	64QAM	1	5	17.92	18.01	17.90	19	0		
1.4	64QAM	3	0	17.95	17.98	17.94				
1.4	64QAM	3	1	17.93	17.99	18.00				
1.4	64QAM	3	3	17.93	17.99	17.90	19	0		
1.4	64QAM	6	0	17.94	17.93	17.89				

Band 4_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20050	20175	20300				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	18.29	18.01	18.39				
20	QPSK	1	49	18.72	18.64	18.81	18.1	0		
20	QPSK	1	99	18.55	18.64	18.60				
20	QPSK	50	0	18.79	18.90	18.83				
20	QPSK	50	24	18.77	18.85	18.82	18.1	0		
20	QPSK	50	50	18.74	18.83	18.72				
20	QPSK	100	0	18.67	18.76	18.70				
20	16QAM	1	0	18.85	18.85	18.83				
20	16QAM	1	49	18.95	18.99	18.90	18.1	0		
20	16QAM	1	99							



Band 5_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	24.32	24.44	24.41	25.5	0		
10	QPSK	1	25	24.37	24.42	24.34				
10	QPSK	1	49	24.24	24.36	24.32	24.5	1		
10	QPSK	25	0	23.30	23.39	23.35				
10	QPSK	25	12	23.27	23.32	23.21	24.5	1		
10	QPSK	25	25	23.18	23.30	23.20				
10	QPSK	50	0	23.22	23.32	23.22	24.5	1		
10	16QAM	1	0	23.43	23.52	23.48				
10	16QAM	1	25	23.31	23.38	23.34	23.5	2		
10	16QAM	1	49	23.33	23.38	23.37				
10	16QAM	25	0	22.33	22.36	22.31	23.5	2		
10	16QAM	25	12	22.19	22.25	22.20				
10	16QAM	25	25	22.24	22.29	22.19	23.5	2		
10	16QAM	50	0	22.23	22.35	22.28				
10	64QAM	1	0	22.34	22.47	22.41	22.5	3		
10	64QAM	1	25	22.17	22.32	22.30				
10	64QAM	1	49	22.20	22.38	22.35	22.5	3		
10	64QAM	25	0	21.28	21.37	21.34				
10	64QAM	25	12	21.15	21.24	21.22	22.5	3		
10	64QAM	25	25	21.17	21.26	21.29				
10	64QAM	50	0	21.35	21.30	21.28				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	24.26	24.32	24.29	25.5	0		
5	QPSK	1	12	24.23	24.37	24.20				
5	QPSK	1	24	24.17	24.25	24.20	24.5	1		
5	QPSK	12	0	23.16	23.32	23.25				
5	QPSK	12	7	23.17	23.23	23.13	24.5	1		
5	QPSK	12	13	23.03	23.22	23.13				
5	QPSK	25	0	23.17	23.28	23.09	24.5	1		
5	16QAM	1	0	23.34	23.38	23.41				
5	16QAM	1	12	23.28	23.29	23.22	23.5	2		
5	16QAM	1	24	23.20	23.27	23.29				
5	16QAM	12	0	22.22	22.25	22.26	23.5	2		
5	16QAM	12	7	22.10	22.22	22.14				
5	16QAM	12	13	22.20	22.14	22.11	22.5	3		
5	16QAM	25	0	22.16	22.26	22.16				
5	64QAM	1	0	22.30	22.36	22.37	23.5	2		
5	64QAM	1	12	22.12	22.22	22.19				
5	64QAM	1	24	22.11	22.26	22.29	22.5	3		
5	64QAM	12	0	21.22	21.32	21.25				
5	64QAM	12	7	21.04	21.19	21.17	22.5	3		
5	64QAM	12	13	21.02	21.22	21.25				
5	64QAM	25	0	21.28	21.17	21.18				
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	24.32	24.30	24.32	25.5	0		
3	QPSK	1	8	24.30	24.37	24.21				
3	QPSK	1	14	24.12	24.29	24.22	24.5	1		
3	QPSK	8	0	23.22	23.32	23.25				
3	QPSK	8	4	23.15	23.18	23.14	24.5	1		
3	QPSK	8	7	23.14	23.23	23.05				
3	QPSK	15	0	23.18	23.24	23.11	24.5	1		
3	16QAM	1	0	23.35	23.49	23.38				
3	16QAM	1	8	23.24	23.29	23.20	23.5	2		
3	16QAM	1	14	23.24	23.25	23.33				
3	16QAM	8	0	22.21	22.21	22.20	23.5	2		
3	16QAM	8	4	22.10	22.21	22.07				
3	16QAM	8	7	22.13	22.15	22.13	23.5	2		
3	16QAM	15	0	22.11	22.30	22.15				
3	64QAM	1	0	22.29	22.32	22.30	23.5	2		
3	64QAM	1	8	22.12	22.24	22.20				
3	64QAM	1	14	22.12	22.31	22.24	22.5	3		
3	64QAM	8	0	21.17	21.33	21.25				
3	64QAM	8	4	21.02	21.10	21.13	22.5	3		
3	64QAM	8	7	21.05	21.13	21.16				
3	64QAM	15	0	21.30	21.23	21.15				
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	24.25	24.31	24.38	25.5	0		
1.4	QPSK	1	3	24.32	24.27	24.25				
1.4	QPSK	1	5	24.11	24.30	24.22	24.5	1		
1.4	QPSK	3	0	24.21	24.24	24.22				
1.4	QPSK	3	1	24.12	24.13	24.12	24.5	1		
1.4	QPSK	3	3	24.08	24.18	24.04				
1.4	QPSK	6	0	23.10	23.17	23.18	23.5	2		
1.4	16QAM	1	0	23.33	23.44	23.43				
1.4	16QAM	1	3	23.27	23.34	23.30	23.5	2		
1.4	16QAM	1	5	23.27	23.31	23.22				
1.4	16QAM	3	0	23.16	23.25	23.15	23.5	2		
1.4	16QAM	3	1	23.01	23.17	23.09				
1.4	16QAM	3	3	23.06	23.17	23.08	23.5	2		
1.4	16QAM	6	0	22.08	22.24	22.18				
1.4	64QAM	1	0	22.27	22.33	22.34	23.5	2		
1.4	64QAM	1	3	22.11	22.28	22.21				
1.4	64QAM	1	5	22.12	22.32	22.21	22.5	3		
1.4	64QAM	3	0	22.11	22.23	22.25				
1.4	64QAM	3	1	21.98	22.07	22.04	22.5	3		
1.4	64QAM	3	3	22.03	22.18	22.15				
1.4	64QAM	6	0	21.31	21.16	21.21				

Band 5_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	23.99	23.92	23.95	24.9	0		
10	QPSK	1	25	23.92	23.89	23.47				
10	QPSK	1	49	23.54	23.59	23.45	24.4	0.5		
10	QPSK	25	0	23.09	23.11	23.02				
10	QPSK	25	12	23.08	23.07	22.91	24.4	0.5		
10	QPSK	25	25	23.08	23.08	22.88				
10	QPSK	50	0	22.87	23.04	22.91	24.4	0.5		
10	16QAM	1	0	23.25	23.35	23.19				
10	16QAM	1	25	23.37	23.33	23.18	23.4	1.5		
10	16QAM	1	49	23.35	23.24	23.14				
10	16QAM	25	0	22.15	22.02	22.12	23.4	1.5		
10	16QAM	25	12	22.07	22.09	21.99				
10	16QAM	25	25	22.10	22.10	21.89	23.4	1.5		
10	16QAM	50	0	22.10	22.04	22.05				
10	64QAM	1	0	22.14	22.25	22.10	22.4	2.5		
10	64QAM	1	25	22.24	22.23	22.09				
10	64QAM	1	49	22.22	22.18	22.03	22.4	2.5		
10	64QAM	25	0	21.11	21.00	21.09				
10	64QAM	25	12	21.09	21.08	20.99	22.4	2.5		
10	64QAM	25	25	21.08	21.09	20.99				
10	64QAM	50	0	21.10	21.04	21.02				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	23.56	23.51	23.40	24.9	0		
5	QPSK	1	12	23.45	23.48	23.41				
5	QPSK	1	24	23.51	23.52	23.43	24.4	0.5		
5	QPSK	12	0	23.01	23.08	23.01				
5	QPSK	12	7	23.07	23.13	23.05	24.4	0.5		
5	QPSK	12	13	23.00	23.07	22.78				
5	QPSK	25	0	22.84	23.03	22.86	24.4	0.5		
5	16QAM	1	0	23.22	23.29	23.18				
5	16QAM	1	12	23.27	23.23	23.15	23.4	1.5		
5	16QAM	1	24	23.26	23.21	23.09				
5	16QAM	12	0	22.15	22.13	21.91	23.4	1.5		
5	16QAM	12	7	21.98	22.02	21.98				
5	16QAM	12	13	22.09	22.08	21.78	22.4	2.5		
5	16QAM	25	0	21.99	22.01	21.94				
5	64QAM	1	0	22.04	22.24	22.06	22.4	2.5		
5	64QAM	1	12	22.16	22.12	22.06				



Band 12_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit [dBm]	MPR [dB]
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.36	24.65	24.95	25.5	0
10	QPSK	1	25	24.46	24.60	24.49		
10	QPSK	1	49	24.52	24.57	24.47		
10	QPSK	25	0	23.55	23.70	23.62		
10	QPSK	25	12	23.41	23.56	23.43	24.5	1
10	QPSK	25	25	23.51	23.63	23.55		
10	QPSK	50	0	23.56	23.66	23.56		
10	16QAM	1	0	23.38	23.69	23.64		
10	16QAM	1	25	23.49	23.47	23.46	24.5	1
10	16QAM	1	49	23.50	23.54	23.57		
10	16QAM	25	0	22.49	22.63	22.57		
10	16QAM	25	12	22.50	22.48	22.50	23.5	2
10	16QAM	25	25	22.47	22.47	22.50		
10	16QAM	50	0	22.55	22.63	22.51		
10	64QAM	1	0	22.63	22.67	22.73		
10	64QAM	1	25	22.55	22.57	22.55	23.5	2
10	64QAM	1	49	22.47	22.49	22.40		
10	64QAM	25	0	21.51	21.64	21.56		
10	64QAM	25	12	21.39	21.45	21.50	22.5	3
10	64QAM	25	25	21.46	21.49	21.49		
10	64QAM	50	0	21.53	21.57	21.49		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	24.49	24.48	24.43	25.5	0
5	QPSK	1	12	24.34	24.52	24.41		
5	QPSK	1	24	24.47	24.46	24.44		
5	QPSK	12	0	23.50	23.65	23.55		
5	QPSK	12	7	23.37	23.46	23.29	24.5	1
5	QPSK	12	13	23.44	23.60	23.41		
5	QPSK	25	0	23.63	23.59	23.50		
5	16QAM	1	0	23.49	23.54	23.55		
5	16QAM	1	12	23.44	23.38	23.43	24.5	1
5	16QAM	1	24	23.36	23.48	23.43		
5	16QAM	12	0	22.39	22.35	22.50		
5	16QAM	12	7	22.38	22.35	22.35	23.5	2
5	16QAM	12	13	22.39	22.39	22.45		
5	16QAM	25	0	22.50	22.54	22.44		
5	64QAM	1	0	22.51	22.59	22.59		
5	64QAM	1	12	22.41	22.43	22.40	23.5	2
5	64QAM	1	24	22.37	22.39	22.27		
5	64QAM	12	0	21.43	21.60	21.43		
5	64QAM	12	7	21.30	21.40	21.36	22.5	3
5	64QAM	12	13	21.33	21.39	21.39		
5	64QAM	25	0	21.48	21.45	21.34		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.51	24.57	24.54	25.5	0
3	QPSK	1	8	24.42	24.55	24.40		
3	QPSK	1	14	24.36	24.46	24.39		
3	QPSK	8	0	23.48	23.57	23.49		
3	QPSK	8	4	23.36	23.46	23.36	24.5	1
3	QPSK	8	7	23.41	23.57	23.49		
3	QPSK	15	0	23.51	23.62	23.51		
3	16QAM	1	0	23.33	23.57	23.60	24.5	1
3	16QAM	1	8	23.41	23.36	23.40		
3	16QAM	1	14	23.47	23.51	23.42		
3	16QAM	8	0	22.39	22.53	22.45		
3	16QAM	8	4	22.38	22.44	22.41	23.5	2
3	16QAM	8	7	22.34	22.43	22.41		
3	16QAM	15	0	22.44	22.54	22.39		
3	64QAM	1	0	22.58	22.59	22.70		
3	64QAM	1	8	22.46	22.51	22.51	23.5	2
3	64QAM	1	14	22.33	22.37	22.32		
3	64QAM	8	0	21.44	21.56	21.45		
3	64QAM	8	4	21.34	21.36	21.43	22.5	3
3	64QAM	8	7	21.36	21.43	21.36		
3	64QAM	15	0	21.41	21.52	21.42		
Channel				23017	23095	23173		
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.44	24.53	24.46	25.5	0
1.4	QPSK	1	3	24.42	24.50	24.40		
1.4	QPSK	1	5	24.49	24.53	24.39		
1.4	QPSK	3	0	24.41	24.57	24.43		
1.4	QPSK	3	1	24.27	24.38	24.25		
1.4	QPSK	3	3	24.39	24.55	24.37	24.5	1
1.4	QPSK	6	0	23.47	23.55	23.49		
1.4	16QAM	1	0	23.45	23.64	23.56		
1.4	16QAM	1	3	23.36	23.33	23.41	24.5	1
1.4	16QAM	1	5	23.40	23.50	23.45		
1.4	16QAM	3	0	23.38	23.55	23.38		
1.4	16QAM	3	1	23.33	23.34	23.37		
1.4	16QAM	3	3	23.28	23.36	23.33	23.5	2
1.4	16QAM	6	0	22.45	22.48	22.42		
1.4	64QAM	1	0	22.49	22.52	22.66		
1.4	64QAM	1	3	22.47	22.48	22.46	23.5	2
1.4	64QAM	1	5	22.41	22.44	22.36		
1.4	64QAM	3	0	22.43	22.53	22.45		
1.4	64QAM	3	1	22.31	22.34	22.34	22.5	3
1.4	64QAM	3	3	22.32	22.37	22.39		
1.4	64QAM	6	0	21.46	21.47	21.40		

Band 12_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit [dBm]	MPR [dB]
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.92	23.63	23.94	24.8	0
10	QPSK	1	25	23.50	23.58	23.52		
10	QPSK	1	49	23.37	23.47	23.38		
10	QPSK	25	0	22.64	22.77	22.71		
10	QPSK	25	12	22.52	22.58	22.52	23.8	1
10	QPSK	25	25	22.52	22.66	22.58		
10	QPSK	50	0	22.66	22.75	22.67		
10	16QAM	1	0	22.53	22.72	22.68		
10	16QAM	1	25	22.50	22.54	22.52	23.8	1
10	16QAM	1	49	22.59	22.54	22.52		
10	16QAM	25	0	21.59	21.82	21.73		
10	16QAM	25	12	21.74	21.77	21.76	22.8	2
10	16QAM	25	25	21.61	21.61	21.66		
10	16QAM	50	0	20.71	20.85	20.67		
10	64QAM	1	0	21.48	21.61	21.54		
10	64QAM	1	25	21.35	21.44	21.36	22.8	2
10	64QAM	1	49	21.53	21.47	21.53		
10	64QAM	25	0	20.66	20.79	20.74		
10	64QAM	25	12	20.72	20.64	20.63	21.8	3
10	64QAM	25	25	20.71	20.85	20.67		
10	64QAM	50	0	20.60	20.72	20.57		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.41	23.52	23.39	24.8	0
5	QPSK	1	12	23.47	23.46	23.44		
5	QPSK	1	24	23.24	23.37	23.31		
5	QPSK	12	0	22.53	22.69	22.59		
5	QPSK	12	7	22.37	22.46	22.47	23.8	1
5	QPSK	12	13	22.41	22.55	22.51		
5	QPSK	25	0	22.58	22.69	22.53		
5	16QAM	1	0	22.48	22.61	22.60		
5	16QAM	1	12	22.38	22.51	22.48	23.8	1
5	16QAM	1	24	22.46	22.47	22.37		
5	16QAM	12	0	21.53	21.70	21.61		
5	16QAM	12	7	21.62	21.71	21.64	22.8	2
5	16QAM	12	13	21.46	21.54	21.52		
5	16QAM	25	0	21.51	21.69	21.66		
5	64QAM	1	0	21.35	21.47	21.42		
5	64QAM	1	12	21.23	21.35	21.23	22.8	2
5	64QAM	1	24	21.50	21.34	21.39		
5	64QAM	12	0	20.58	20.66	20.70		
5	64QAM	12	7	20.62	20.57	20.49	21.8	3
5	64QAM	12	13	20.63	20.62	20.58		
5	64QAM	25	0	20.51	20.68	20.48		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.41	23.54	23.42	24.8	0
3	QPSK	1	8	23.41	23.48	23.42		
3	QPSK	1	14	23.29	23.32	23.26		
3	QPSK	8	0	22.58	22.63	22.62		
3	QPSK	8	4	22.46	22.45	22.38	23.8	1
3	QPSK	8	7	22.42	22.55	22.50		
3	QPSK	15	0	22.61	22.69			



Band 13_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				762					
10	QPSK	1	0	24.45			25.5	0	
10	QPSK	1	25	24.37					
10	QPSK	1	49	24.40					
10	QPSK	25	0	23.38					
10	QPSK	25	12	23.30			24.5	1	
10	QPSK	25	25	23.33					
10	QPSK	50	0	23.39					
10	16QAM	1	0	23.55			24.5	1	
10	16QAM	1	25	23.42					
10	16QAM	1	49	23.45					
10	16QAM	25	0	22.42					
10	16QAM	25	12	22.32			23.5	2	
10	16QAM	25	25	22.33					
10	16QAM	50	0	22.40					
10	64QAM	1	0	22.48			23.5	2	
10	64QAM	1	25	22.35					
10	64QAM	1	49	22.39					
10	64QAM	25	0	21.43					
10	64QAM	25	12	21.35			22.5	3	
10	64QAM	25	25	21.37					
10	64QAM	50	0	21.38					
Channel				23205 23230 23255					
Frequency (MHz)				779.5 762 764.5					
5	QPSK	1	0	24.32	24.41	24.26	25.5	0	
5	QPSK	1	12	24.20	24.31	24.20			
5	QPSK	1	24	24.15	24.33	24.25			
5	QPSK	12	0	23.12	23.34	23.19	24.5	1	
5	QPSK	12	7	23.20	23.21	23.02			
5	QPSK	12	13	23.13	23.27	23.10			
5	QPSK	25	0	23.20	23.29	23.18			
5	16QAM	1	0	23.40	23.50	23.47	24.5	1	
5	16QAM	1	12	23.18	23.27	23.29			
5	16QAM	1	24	23.28	23.35	23.29			
5	16QAM	12	0	22.20	22.29	22.22	23.5	2	
5	16QAM	12	7	22.22	22.18	22.16			
5	16QAM	12	13	22.11	22.26	22.12			
5	16QAM	25	0	22.24	22.29	22.20			
5	64QAM	1	0	22.27	22.41	22.32	23.5	2	
5	64QAM	1	12	22.12	22.21	22.19			
5	64QAM	1	24	22.26	22.30	22.16			
5	64QAM	12	0	21.24	21.29	21.25	22.5	3	
5	64QAM	12	7	21.23	21.24	21.19			
5	64QAM	12	13	21.10	21.28	21.16			
5	64QAM	25	0	21.19	21.23	21.17			

Band 13_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				762					
10	QPSK	1	0	23.86			24.9	0	
10	QPSK	1	25	23.80					
10	QPSK	1	49	23.83					
10	QPSK	25	0	22.79			23.9	1	
10	QPSK	25	12	22.75					
10	QPSK	25	25	22.72					
10	QPSK	50	0	22.74			23.9	1	
10	16QAM	1	0	22.81					
10	16QAM	1	25	22.72					
10	16QAM	1	49	22.73					
10	16QAM	25	0	21.52			22.9	2	
10	16QAM	25	12	21.50					
10	16QAM	25	25	21.48					
10	16QAM	50	0	21.74					
10	64QAM	1	0	21.77			22.9	2	
10	64QAM	1	25	21.73					
10	64QAM	1	49	21.67					
10	64QAM	25	0	20.46			21.9	3	
10	64QAM	25	12	20.40					
10	64QAM	25	25	20.33					
10	64QAM	50	0	20.57					
Channel				23205 23230 23255					
Frequency (MHz)				779.5 762 764.5					
5	QPSK	1	0	23.67	23.66	23.72	24.9	0	
5	QPSK	1	12	23.57	23.61	23.50			
5	QPSK	1	24	23.61	23.70	23.57			
5	QPSK	12	0	22.63	22.62	22.53	23.9	1	
5	QPSK	12	7	22.46	22.60	22.50			
5	QPSK	12	13	22.43	22.53	22.54			
5	QPSK	25	0	22.42	22.61	22.45			
5	16QAM	1	0	22.47	22.69	22.51	23.9	1	
5	16QAM	1	12	22.55	22.56	22.51			
5	16QAM	1	24	22.58	22.55	22.46			
5	16QAM	12	0	21.31	21.40	21.15	22.9	2	
5	16QAM	12	7	21.18	21.30	21.21			
5	16QAM	12	13	21.26	21.29	21.23			
5	16QAM	25	0	21.42	21.60	21.55			
5	64QAM	1	0	21.47	21.58	21.51	21.9	3	
5	64QAM	1	12	21.41	21.63	21.40			
5	64QAM	1	24	21.36	21.50	21.43			
5	64QAM	12	0	20.19	20.35	20.25			
5	64QAM	12	7	20.34	20.44	20.27			
5	64QAM	12	13	20.35	20.35	20.22			
5	64QAM	25	0	20.47	20.60	20.47			



Band 17_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.37	24.62	24.93	25.5	0	
10	QPSK	1	25	24.45	24.52	24.44			
10	QPSK	1	49	24.90	24.61	24.58			
10	QPSK	25	0	23.57	23.62	23.54			
10	QPSK	25	12	23.48	23.52	23.37	24.5	1	
10	QPSK	25	25	23.56	23.60	23.51			
10	QPSK	50	0	23.45	23.58	23.51			
10	16QAM	1	0	23.54	23.77	23.75			
10	16QAM	1	25	23.58	23.51	23.50	24.5	1	
10	16QAM	1	49	23.60	23.64	23.57			
10	16QAM	25	0	22.51	22.65	22.59			
10	16QAM	25	12	22.51	22.45	22.41	23.5	2	
10	16QAM	25	25	22.39	22.41	22.43			
10	16QAM	50	0	22.50	22.57	22.49			
10	64QAM	1	0	22.61	22.70	22.67			
10	64QAM	1	25	22.51	22.54	22.52	23.5	2	
10	64QAM	1	49	22.49	22.55	22.55			
10	64QAM	25	0	21.67	21.58	21.60			
10	64QAM	25	12	21.44	21.44	21.37	22.5	3	
10	64QAM	25	25	21.43	21.38	21.44			
10	64QAM	50	0	21.62	21.56	21.53			
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.54	24.57	24.49	25.5	0	
5	QPSK	1	12	24.37	24.39	24.35			
5	QPSK	1	24	24.40	24.56	24.41			
5	QPSK	12	0	23.51	23.49	23.50			
5	QPSK	12	7	23.43	23.42	23.30	24.5	1	
5	QPSK	12	13	23.46	23.46	23.39			
5	QPSK	25	0	23.34	23.44	23.37			
5	16QAM	1	0	23.56	23.70	23.64			
5	16QAM	1	12	23.54	23.47	23.48	24.5	1	
5	16QAM	1	24	23.56	23.61	23.51			
5	16QAM	12	0	22.41	22.36	22.50			
5	16QAM	12	7	22.47	22.41	22.29	23.5	2	
5	16QAM	12	13	22.31	22.32	22.29			
5	16QAM	25	0	22.37	22.42	22.37			
5	64QAM	1	0	22.50	22.66	22.62			
5	64QAM	1	12	22.38	22.42	22.38	23.5	2	
5	64QAM	1	24	22.42	22.46	22.49			
5	64QAM	12	0	21.52	21.47	21.48			
5	64QAM	12	7	21.37	21.34	21.33	22.5	3	
5	64QAM	12	13	21.34	21.30	21.34			
5	64QAM	25	0	21.57	21.48	21.41			

Band 17_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	23.46	23.59	23.53	24.8	0	
10	QPSK	1	25	23.42	23.48	23.38			
10	QPSK	1	49	23.40	23.52	23.38			
10	QPSK	25	0	22.67	22.78	22.62			
10	QPSK	25	12	22.51	22.56	22.43	23.8	1	
10	QPSK	25	25	22.62	22.73	22.58			
10	QPSK	50	0	22.73	22.76	22.70			
10	16QAM	1	0	22.68	22.74	22.67			
10	16QAM	1	25	22.58	22.63	22.57	23.8	1	
10	16QAM	1	49	22.57	22.60	22.62			
10	16QAM	25	0	21.55	21.64	21.49			
10	16QAM	25	12	21.54	21.51	21.54	22.8	2	
10	16QAM	25	25	21.54	21.44	21.48			
10	16QAM	50	0	21.56	21.73	21.69			
10	64QAM	1	0	21.64	21.69	21.62			
10	64QAM	1	25	21.46	21.48	21.46	22.8	2	
10	64QAM	1	49	21.62	21.56	21.54			
10	64QAM	25	0	20.57	20.65	20.48			
10	64QAM	25	12	20.46	20.42	20.46	21.8	3	
10	64QAM	25	25	20.47	20.45	20.38			
10	64QAM	50	0	20.65	20.68	20.54			
Channel				23755	23790	23825			
Frequency (MHz)				705.5	710	713.5			
5	QPSK	1	0	23.37	23.51	23.46	24.8	0	
5	QPSK	1	12	23.38	23.36	23.33			
5	QPSK	1	24	23.36	23.42	23.30			
5	QPSK	12	0	22.64	22.68	22.48			
5	QPSK	12	7	22.43	22.51	22.30	23.8	1	
5	QPSK	12	13	22.50	22.66	22.51			
5	QPSK	25	0	22.60	22.68	22.67			
5	16QAM	1	0	22.54	22.70	22.42			
5	16QAM	1	12	22.53	22.54	22.47	23.8	1	
5	16QAM	1	24	22.53	22.54	22.48			
5	16QAM	12	0	21.49	21.57	21.35			
5	16QAM	12	7	21.46	21.47	21.39	22.8	2	
5	16QAM	12	13	21.43	21.35	21.44			
5	16QAM	25	0	21.43	21.64	21.65			
5	64QAM	1	0	21.58	21.58	21.52			
5	64QAM	1	12	21.32	21.44	21.38	22.8	2	
5	64QAM	1	24	21.57	21.48	21.49			
5	64QAM	12	0	20.48	20.50	20.41			
5	64QAM	12	7	20.31	20.33	20.32	21.8	3	
5	64QAM	12	13	20.40	20.38	20.26			
5	64QAM	25	0	20.58	20.65	20.42			



Band 66_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							132072	132322	132572	
Frequency (MHz)							1720	1745	1770	
20	QPSK	1	0	20.09	20.15	20.11	21	0		
20	QPSK	1	49	20.06	19.95	20.07				
20	QPSK	1	99	19.82	19.79	19.86				
20	QPSK	50	0	19.97	20.10	19.99				
20	QPSK	50	24	19.89	20.01	19.95	21	0		
20	QPSK	50	50	19.84	20.03	19.94				
20	QPSK	100	0	19.81	19.89	19.95				
20	16QAM	1	0	19.95	20.09	20.07				
20	16QAM	1	49	19.94	20.11	20.13	21	0		
20	16QAM	1	99	19.95	20.12	20.11				
20	16QAM	50	0	19.91	20.10	20.04				
20	16QAM	50	24	19.92	20.02	20.05	21	0		
20	16QAM	50	50	19.90	20.01	19.94				
20	16QAM	100	0	19.95	20.00	19.94				
20	64QAM	1	0	20.12	20.06	20.13				
20	64QAM	1	49	19.89	20.07	19.92	21	0		
20	64QAM	1	99	20.11	19.82	20.08				
20	64QAM	50	0	19.88	19.98	19.94				
20	64QAM	50	24	19.89	20.04	20.04	21	0		
20	64QAM	50	50	19.89	20.01	19.95				
20	64QAM	100	0	19.90	19.94	19.96				
Channel							132047	132322	132597	
Frequency (MHz)							1717.5	1745	1772.5	
15	QPSK	1	0	20.03	20.09	20.06	21	0		
15	QPSK	1	37	20.00	19.87	20.02				
15	QPSK	1	74	19.78	19.74	19.75				
15	QPSK	36	0	19.87	20.01	19.93	21	0		
15	QPSK	36	20	19.85	19.90	19.87				
15	QPSK	36	39	19.79	19.99	19.83				
15	QPSK	75	0	19.83	19.96	19.89				
15	16QAM	1	0	19.87	19.98	20.02	21	0		
15	16QAM	1	37	19.90	20.05	20.05				
15	16QAM	1	74	19.90	20.02	20.04				
15	16QAM	36	0	19.84	20.02	19.98	21	0		
15	16QAM	36	20	19.84	19.92	19.96				
15	16QAM	36	39	19.84	19.98	19.82				
15	16QAM	75	0	19.89	19.94	19.82				
15	64QAM	1	0	20.00	20.00	20.05	21	0		
15	64QAM	1	37	19.77	19.96	19.87				
15	64QAM	1	74	20.01	19.72	19.98				
15	64QAM	36	0	19.85	19.92	19.87	21	0		
15	64QAM	36	20	19.81	19.92	19.98				
15	64QAM	36	39	19.77	19.93	19.92				
15	64QAM	75	0	19.83	19.85	19.84				
Channel							132022	132322	132622	
Frequency (MHz)							1715	1745	1775	
10	QPSK	1	0	20.04	20.08	20.03	21	0		
10	QPSK	1	25	19.97	19.91	20.01				
10	QPSK	1	49	19.72	19.70	19.82				
10	QPSK	25	0	19.86	20.01	19.94	21	0		
10	QPSK	25	12	19.84	19.98	19.86				
10	QPSK	25	25	19.79	19.93	19.89				
10	QPSK	50	0	19.88	19.90	19.87	21	0		
10	16QAM	1	0	19.89	20.02	19.98				
10	16QAM	1	25	19.88	20.02	20.08				
10	16QAM	1	49	19.86	20.01	20.06	21	0		
10	16QAM	25	0	19.83	20.02	19.93				
10	16QAM	25	12	19.83	19.92	19.93				
10	16QAM	25	25	19.81	19.98	19.90	21	0		
10	16QAM	50	0	19.92	19.89	19.91				
10	64QAM	1	0	20.00	20.00	20.01	21	0		
10	64QAM	1	25	19.83	20.02	19.88				
10	64QAM	1	49	20.04	19.70	20.05				
10	64QAM	25	0	19.78	19.94	19.87	21	0		
10	64QAM	25	12	19.79	19.93	19.94				
10	64QAM	25	25	19.79	19.83	19.83				
10	64QAM	50	0	19.84	19.86	19.89				
Channel							131987	132322	132647	
Frequency (MHz)							1712.5	1745	1777.5	
5	QPSK	1	0	19.97	20.10	20.04	21	0		
5	QPSK	1	12	20.03	19.88	20.03				
5	QPSK	1	24	19.71	19.73	19.76				
5	QPSK	12	0	19.87	20.00	19.90	21	0		
5	QPSK	12	7	19.77	19.90	19.92				
5	QPSK	12	13	19.80	19.89	19.85				
5	QPSK	25	0	19.83	19.87	19.86	21	0		
5	16QAM	1	0	19.86	19.97	20.02				
5	16QAM	1	12	19.86	20.04	20.05				
5	16QAM	1	24	19.87	20.06	20.06	21	0		
5	16QAM	12	0	19.84	20.00	19.99				
5	16QAM	12	7	19.89	19.98	19.98				
5	16QAM	12	13	19.81	19.91	19.91	21	0		
5	16QAM	25	0	19.88	19.92	19.83				
5	64QAM	1	0	20.08	20.01	20.04	21	0		
5	64QAM	1	12	19.86	20.04	19.84				
5	64QAM	1	24	20.04	19.70	19.98				
5	64QAM	12	0	19.79	19.90	19.84	21	0		
5	64QAM	12	7	19.78	19.99	20.01				
5	64QAM	12	13	19.85	19.95	19.84				
5	64QAM	25	0	19.80	19.89	19.90				
Channel							131987	132322	132657	
Frequency (MHz)							1711.5	1745	1778.5	
3	QPSK	1	0	20.05	20.12	20.08	21	0		
3	QPSK	1	8	20.00	19.84	20.04				
3	QPSK	1	14	19.79	19.75	19.74				
3	QPSK	8	0	19.91	20.06	19.91	21	0		
3	QPSK	8	4	19.85	19.98	19.86				
3	QPSK	8	7	19.80	19.93	19.89				
3	QPSK	15	0	19.80	19.94	19.89	21	0		
3	16QAM	1	0	19.84	20.06	19.95				
3	16QAM	1	8	19.90	20.05	20.07				
3	16QAM	1	14	19.84	20.09	20.06	21	0		
3	16QAM	8	0	19.79	20.07	19.98				
3	16QAM	8	4	19.88	19.91	19.98				
3	16QAM	8	7	19.79	19.98	19.84	21	0		
3	16QAM	15	0	19.88	19.88	19.82				
3	64QAM	1	0	20.04	19.96	20.10	21	0		
3	64QAM	1	8	19.80	19.99	19.82				
3	64QAM	1	14	20.08	19.72	19.99				
3	64QAM	8	0	19.76	19.91	19.84	21	0		
3	64QAM	8	4	19.84	19.95	19.93				
3	64QAM	8	7	19.77	19.98	19.89				
3	64QAM	15	0	19.82	19.91	19.85				
Channel							131979	132322	132665	
Frequency (MHz)							1710.7	1745	1779.3	
1.4	QPSK	1	0	19.96	20.06	19.99	21	0		
1.4	QPSK	1	3	20.02	19.86	19.98				
1.4	QPSK	1	5	19.76	19.70	19.74				
1.4	QPSK	3	0	19.85	20.03	19.93	21	0		
1.4	QPSK	3	1	19.83	19.97	19.88				
1.4	QPSK	3	3	19.85	19.98	19.90				
1.4	QPSK	6	0	19.82	19.89	19.84	21	0		
1.4	16QAM	1	0	19.84	19.98	20.04				
1.4	16QAM	1	3	19.85	20.02	20.08				
1.4	16QAM	1	5	19.83	20.01	20.05	21	0		
1.4	16QAM	3	0	19.84	20.07	19.93				
1.4	16QAM	3	1	19.83	19.84	20.01				
1.4	16QAM	3	3	19.80	19.94	19.86	21	0		
1.4	16QAM	6	0	19.89	19.93	19.84				
1.4	64QAM	1	0	20.04	19.98	20.10	21	0		
1.4	64QAM	1	3	19.77	19.95	19.82				
1.4	64QAM	1	5	20.04	19.76	20.05				
1.4	64QAM	3	0	19.85	19.89	19.80	21	0		
1.4	64QAM	3	1	19.84	19.98	20.01				
1.4	64QAM	3	3	19.83	19.96	19.90				
1.4	64QAM	6	0	19.87	19.85	19.87				

Band 66_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							132072	132322	132572	
Frequency (MHz)							1720	1745	1770	
20	QPSK	1	0	16.75	16.89	16.80	18	0		
20	QPSK	1	49	16.47	16.63	16.62				
20	QPSK	1	99	16.48	16.46	16.52				
20	QPSK	50	0	16.72	16.84	16.69	18	0		



Band 38_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37650	2595	2610			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.29	24.33	24.26	25	0	
20	QPSK	1	49	24.09	24.24	24.24			
20	QPSK	1	99	23.97	24.07	24.02			
20	QPSK	50	0	23.77	23.86	23.67			
20	QPSK	50	24	23.62	23.81	23.58	24.5	0.5	
20	QPSK	50	50	23.49	23.72	23.55			
20	QPSK	100	0	23.60	23.71	23.64			
20	16QAM	1	0	23.86	23.78	23.64			
20	16QAM	1	49	23.64	23.51	23.66	24.5	0.5	
20	16QAM	1	99	23.71	23.62	23.56			
20	16QAM	50	0	22.83	22.81	22.84			
20	16QAM	50	24	22.63	22.55	22.64	23.5	1.5	
20	16QAM	50	50	22.55	22.75	22.67			
20	16QAM	100	0	22.73	22.61	22.85			
20	64QAM	1	0	22.39	22.58	22.41			
20	64QAM	1	49	22.29	22.28	22.23	23.5	1.5	
20	64QAM	1	99	22.37	22.42	22.30			
20	64QAM	50	0	21.72	21.75	21.78			
20	64QAM	50	24	21.53	21.60	21.61			
20	64QAM	50	50	21.51	21.54	21.42	22.5	2.5	
20	64QAM	100	0	21.66	21.74	21.76			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.12	24.32	24.09	25	0	
15	QPSK	1	37	24.10	24.22	24.00			
15	QPSK	1	74	24.03	24.17	24.08			
15	QPSK	36	0	23.66	23.79	23.73	24.5	0.5	
15	QPSK	36	20	23.68	23.60	23.59			
15	QPSK	36	39	23.54	23.51	23.47			
15	QPSK	75	0	23.60	23.64	23.51			
15	16QAM	1	0	23.74	23.64	23.66	24.5	0.5	
15	16QAM	1	37	23.60	23.50	23.50			
15	16QAM	1	74	23.51	23.55	23.52			
15	16QAM	36	0	22.89	22.84	22.87	23.5	1.5	
15	16QAM	36	20	22.61	22.57	22.60			
15	16QAM	36	39	22.57	22.60	22.61			
15	16QAM	75	0	22.72	22.72	22.66			
15	64QAM	1	0	22.52	22.43	22.32	23.5	1.5	
15	64QAM	1	37	22.15	22.13	22.15			
15	64QAM	1	74	22.40	22.44	22.37			
15	64QAM	36	0	21.70	21.66	21.70			
15	64QAM	36	20	21.54	21.51	21.62	22.5	2.5	
15	64QAM	36	39	21.45	21.47	21.49			
15	64QAM	75	0	21.73	21.73	21.70			
Channel				37600	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.21	24.17	24.16	25	0	
10	QPSK	1	25	24.11	24.27	24.10			
10	QPSK	1	49	24.10	24.19	24.00			
10	QPSK	25	0	23.79	23.67	23.69	24.5	0.5	
10	QPSK	25	12	23.51	23.63	23.62			
10	QPSK	25	25	23.41	23.69	23.51			
10	QPSK	50	0	23.54	23.70	23.57	24.5	0.5	
10	16QAM	1	0	23.69	23.69	23.70			
10	16QAM	1	25	23.47	23.42	23.56	24.5	0.5	
10	16QAM	1	49	23.60	23.52	23.60			
10	16QAM	25	0	22.75	22.72	22.72	23.5	1.5	
10	16QAM	25	12	22.61	22.50	22.49			
10	16QAM	25	25	22.64	22.74	22.63			
10	16QAM	50	0	22.64	22.58	22.77			
10	64QAM	1	0	22.41	22.41	22.41	23.5	1.5	
10	64QAM	1	25	22.18	22.11	22.24			
10	64QAM	1	49	22.33	22.37	22.33			
10	64QAM	25	0	21.65	21.68	21.78	22.5	2.5	
10	64QAM	25	12	21.46	21.58	21.67			
10	64QAM	25	25	21.49	21.54	21.38			
10	64QAM	50	0	21.64	21.58	21.58			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.21	24.28	24.15	25	0	
5	QPSK	1	12	24.10	24.15	24.03			
5	QPSK	1	24	23.97	24.19	24.02			
5	QPSK	12	0	23.67	23.79	23.79	24.5	0.5	
5	QPSK	12	7	23.55	23.61	23.63			
5	QPSK	12	13	23.56	23.52	23.50			
5	QPSK	25	0	23.56	23.55	23.45			
5	16QAM	1	0	23.63	23.66	23.72	24.5	0.5	
5	16QAM	1	12	23.56	23.50	23.41			
5	16QAM	1	24	23.66	23.57	23.61			
5	16QAM	12	0	22.64	22.77	22.87	23.5	1.5	
5	16QAM	12	7	22.55	22.53	22.50			
5	16QAM	12	13	22.47	22.72	22.49			
5	16QAM	25	0	22.63	22.58	22.77			
5	64QAM	1	0	22.47	22.40	22.31	23.5	1.5	
5	64QAM	1	12	22.15	22.11	22.21			
5	64QAM	1	24	22.39	22.35	22.33			
5	64QAM	12	0	21.74	21.62	21.76	22.5	2.5	
5	64QAM	12	7	21.45	21.46	21.64			
5	64QAM	12	13	21.47	21.43	21.46			
5	64QAM	25	0	21.70	21.72	21.72			

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37650	2595	2610			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.76	20.89	20.81	22	0	
20	QPSK	1	49	20.73	20.81	20.46			
20	QPSK	1	99	20.62	20.68	20.44			
20	QPSK	50	0	20.79	20.86	20.63			
20	QPSK	50	24	20.74	20.81	20.49	22	0	
20	QPSK	50	50	20.75	20.85	20.46			
20	QPSK	100	0	20.80	20.83	20.56			
20	16QAM	1	0	20.65	20.74	20.46			
20	16QAM	1	49	20.81	20.85	20.50	22	0	
20	16QAM	1	99	20.80	20.83	20.45			
20	16QAM	50	0	20.80	20.87	20.62			
20	16QAM	50	24	20.82	20.85	20.57	22	0	
20	16QAM	50	50	20.74	20.82	20.56			
20	16QAM	100	0	20.80	20.86	20.61			
20	64QAM	1	0	20.38	20.48	20.15			
20	64QAM	1	49	20.64	20.67	20.34	22	0	
20	64QAM	1	99	20.51	20.57	20.31			
20	64QAM	50	0	20.76	20.86	20.50			
20	64QAM	50	24	20.81	20.84	20.50	22	0	
20	64QAM	50	50	20.75	20.81	20.46			
20	64QAM	100	0	20.82	20.86	20.47			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.74	20.77	20.54	22	0	
15	QPSK	1	37	20.65	20.69	20.41			
15	QPSK	1	74	20.53	20.58	20.37			
15	QPSK	36	0	20.76	20.82	20.53	22	0	
15	QPSK	36	20	20.71	20.59	20.42			
15	QPSK	36	39	20.63	20.81	20.38			
15	QPSK	75	0	20.74	20.72	20.44			
15	16QAM	1	0	20.53	20.65	20.39	22	0	
15	16QAM	1	37	20.73	20.74	20.40			
15	16QAM	1	74	20.69	20.73	20.37			
15	16QAM	36	0	20.70	20.62	20.59	22	0	
15	16QAM	36	20	20.74	20.79	20.52			
15	16QAM	36	39	20.65	20.74	20.47			
15	16QAM	75	0	20.73	20.78	20.52			
15	64QAM	1	0	20.27	20.39	20.03	22	0	
15	64QAM	1	37	20.58	20.57	20.29			
15	64QAM	1	74	20.40	20.49	20.28			
15	64QAM	36	0	20.68	20.62	20.44	22	0	
15	64QAM	36	20	20.70	20.81	20.46			
15	6								



UL CA

CA_7C_Ant0											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Default Power	24.74	25.50
21100	20902	QPSK	1	0	0	0	1	0	Default Power	24.81	25.50
21350	21152	QPSK	1	0	0	0	1	0	Default Power	24.77	25.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 0	24.74	25.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 0	24.81	25.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 0	24.77	25.50
20850	21048	QPSK	50	0	0	0	50	0	DSI 4	21.86	22.50
21100	20902	QPSK	50	0	0	0	50	0	DSI 4	21.89	22.50
21350	21152	QPSK	50	0	0	0	50	0	DSI 4	21.81	22.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 1	21.93	22.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 1	22.01	22.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 1	21.95	22.50
20850	21048	QPSK	50	0	0	0	50	0	DSI 3	23.49	24.00
21100	20902	QPSK	50	0	0	0	50	0	DSI 3	23.52	24.00
21350	21152	QPSK	50	0	0	0	50	0	DSI 3	23.51	24.00

CA_7C_Ant1											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Default Power	23.91	24.70
21100	20902	QPSK	1	0	0	0	1	0	Default Power	23.96	24.70
21350	21152	QPSK	1	0	0	0	1	0	Default Power	23.88	24.70
20850	21048	QPSK	50	0	0	0	50	0	DSI 0	16.95	17.70
21100	20902	QPSK	50	0	0	0	50	0	DSI 0	16.98	17.70
21350	21152	QPSK	50	0	0	0	50	0	DSI 0	16.93	17.70
20850	21048	QPSK	50	0	0	0	50	0	DSI 4	16.95	17.70
21100	20902	QPSK	50	0	0	0	50	0	DSI 4	16.98	17.70
21350	21152	QPSK	50	0	0	0	50	0	DSI 4	16.93	17.70
20850	21048	QPSK	1	0	0	0	1	0	DSI 1	17.46	18.20
21100	20902	QPSK	1	0	0	0	1	0	DSI 1	17.53	18.20
21350	21152	QPSK	1	0	0	0	1	0	DSI 1	17.41	18.20
20850	21048	QPSK	50	0	0	0	50	0	DSI 3	21.49	22.20
21100	20902	QPSK	50	0	0	0	50	0	DSI 3	21.53	22.20
21350	21152	QPSK	50	0	0	0	50	0	DSI 3	21.51	22.20

CA_7C_Ant2											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Default Power	24.51	25.60
21100	20902	QPSK	1	0	0	0	1	0	Default Power	24.62	25.60
21350	21152	QPSK	1	0	0	0	1	0	Default Power	24.59	25.60
20850	21048	QPSK	50	0	0	0	50	0	DSI 0	18.95	20.10
21100	20902	QPSK	50	0	0	0	50	0	DSI 0	18.98	20.10
21350	21152	QPSK	50	0	0	0	50	0	DSI 0	18.91	20.10
20850	21048	QPSK	50	0	0	0	50	0	DSI 4	18.95	20.10
21100	20902	QPSK	50	0	0	0	50	0	DSI 4	18.98	20.10
21350	21152	QPSK	50	0	0	0	50	0	DSI 4	18.91	20.10
20850	21048	QPSK	50	0	0	0	50	0	DSI 1	19.35	20.60
21100	20902	QPSK	50	0	0	0	50	0	DSI 1	19.41	20.60
21350	21152	QPSK	50	0	0	0	50	0	DSI 1	19.37	20.60
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	24.51	25.60
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	24.62	25.60
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	24.59	25.60

CA_7C_Ant3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Default Power	23.18	24.10
21100	20902	QPSK	1	0	0	0	1	0	Default Power	23.21	24.10
21350	21152	QPSK	1	0	0	0	1	0	Default Power	23.16	24.10
20850	21048	QPSK	1	0	0	0	1	0	DSI 0	23.18	24.10
21100	20902	QPSK	1	0	0	0	1	0	DSI 0	23.21	24.10
21350	21152	QPSK	1	0	0	0	1	0	DSI 0	23.16	24.10
20850	21048	QPSK	50	0	0	0	50	0	DSI 4	21.11	22.10
21100	20902	QPSK	50	0	0	0	50	0	DSI 4	21.19	22.10
21350	21152	QPSK	50	0	0	0	50	0	DSI 4	21.17	22.10
20850	21048	QPSK	50	0	0	0	50	0	DSI 1	21.11	22.10
21100	20902	QPSK	50	0	0	0	50	0	DSI 1	21.19	22.10
21350	21152	QPSK	50	0	0	0	50	0	DSI 1	21.17	22.10
20850	21048	QPSK	50	0	0	0	50	0	DSI 3	21.11	22.10
21100	20902	QPSK	50	0	0	0	50	0	DSI 3	21.19	22.10
21350	21152	QPSK	50	0	0	0	50	0	DSI 3	21.17	22.10



CA_38C_Ant0											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Default Power	24.69	25.50
37901	38099	QPSK	1	0	0	0	1	0	Default Power	24.65	25.50
38150	37952	QPSK	1	0	0	0	1	0	Default Power	24.74	25.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 0	24.69	25.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 0	24.65	25.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 0	24.74	25.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	24.17	25.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	24.23	25.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	24.29	25.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 1	24.17	25.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 1	24.23	25.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 1	24.29	25.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 3	24.69	25.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 3	24.65	25.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 3	24.74	25.50

CA_38C_Ant1											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Default Power	23.81	25.00
37901	38099	QPSK	1	0	0	0	1	0	Default Power	23.83	25.00
38150	37952	QPSK	1	0	0	0	1	0	Default Power	23.88	25.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 0	20.81	22.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 0	20.77	22.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 0	20.83	22.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	20.81	22.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	20.77	22.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	20.83	22.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 1	21.78	23.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 1	21.82	23.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 1	21.85	23.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 3	23.81	25.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 3	23.83	25.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 3	23.88	25.00

CA_38C_Ant2											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Default Power	24.35	25.70
37901	38099	QPSK	1	0	0	0	1	0	Default Power	24.31	25.70
38150	37952	QPSK	1	0	0	0	1	0	Default Power	24.38	25.70
37850	38048	QPSK	1	0	0	0	1	0	DSI 0	20.70	22.20
37901	38099	QPSK	1	0	0	0	1	0	DSI 0	20.65	22.20
38150	37952	QPSK	1	0	0	0	1	0	DSI 0	20.72	22.20
37850	38048	QPSK	50	0	0	0	50	0	DSI 4	20.79	22.20
37901	38099	QPSK	50	0	0	0	50	0	DSI 4	20.77	22.20
38150	37952	QPSK	50	0	0	0	50	0	DSI 4	20.81	22.20
37850	38048	QPSK	50	0	0	0	50	0	DSI 1	21.35	22.70
37901	38099	QPSK	50	0	0	0	50	0	DSI 1	21.37	22.70
38150	37952	QPSK	50	0	0	0	50	0	DSI 1	21.43	22.70
37850	38048	QPSK	1	0	0	0	1	0	DSI 3	24.35	25.70
37901	38099	QPSK	1	0	0	0	1	0	DSI 3	24.31	25.70
38150	37952	QPSK	1	0	0	0	1	0	DSI 3	24.38	25.70

CA_38C_Ant3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	DSI	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Default Power	23.35	24.50
37901	38099	QPSK	1	0	0	0	1	0	Default Power	23.37	24.50
38150	37952	QPSK	1	0	0	0	1	0	Default Power	23.41	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 0	23.35	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 0	23.37	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 0	23.41	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	23.35	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	23.37	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	23.41	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 1	23.35	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 1	23.37	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 1	23.41	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 3	23.35	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 3	23.37	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 3	23.41	24.50

CA_41C_Ant 0											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Default Power	24.81	25.50
40185	40383	QPSK	1	0	0	0	1	0	Default Power	24.83	25.50
40620	40818	QPSK	1	0	0	0	1	0	Default Power	24.86	25.50
41055	41253	QPSK	1	0	0	0	1	0	Default Power	24.76	25.50
41490	41292	QPSK	1	0	0	0	1	0	Default Power	24.74	25.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 0	24.81	25.50
40185	40383	QPSK	1	0	0	0	1	0	DSI 0	24.83	25.50
40620	40818	QPSK	1	0	0	0	1	0	DSI 0	24.86	25.50
41055	41253	QPSK	1	0	0	0	1	0	DSI 0	24.76	25.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 0	24.74	25.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	24.23	25.00
40185	40383	QPSK	1	0	0	0	1	0	DSI 4	24.27	25.00
40620	40818	QPSK	1	0	0	0	1	0	DSI 4	24.31	25.00
41055	41253	QPSK	1	0	0	0	1	0	DSI 4	24.25	25.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	24.24	25.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 1	24.23	25.00
40185	40383	QPSK	1	0	0	0	1	0	DSI 1	24.27	25.00
40620	40818	QPSK	1	0	0	0	1	0	DSI 1	24.31	25.00
41055	41253	QPSK	1	0	0	0	1	0	DSI 1	24.25	25.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 1	24.24	25.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 3	24.81	25.50
40185	40383	QPSK	1	0	0	0	1	0	DSI 3	24.83	25.50
40620	40818	QPSK	1	0	0	0	1	0	DSI 3	24.86	25.50
41055	41253	QPSK	1	0	0	0	1	0	DSI 3	24.76	25.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 3	24.74	25.50

CA_41C_Ant 1											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Default Power	23.92	25.00
40185	40383	QPSK	1	0	0	0	1	0	Default Power	23.95	25.00
40620	40818	QPSK	1	0	0	0	1	0	Default Power	23.97	25.00
41055	41253	QPSK	1	0	0	0	1	0	Default Power	23.89	25.00
41490	41292	QPSK	1	0	0	0	1	0	Default Power	23.91	25.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 0	20.81	22.00
40185	40383	QPSK	1	0	0	0	1	0	DSI 0	20.84	22.00
40620	40818	QPSK	1	0	0	0	1	0	DSI 0	20.90	22.00
41055	41253	QPSK	1	0	0	0	1	0	DSI 0	20.78	22.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 0	20.88	22.00
39750	39948	QPSK	50	0	0	0	50	0	DSI 4	20.79	22.00
40185	40383	QPSK	50	0	0	0	50	0	DSI 4	20.83	22.00
40620	40818	QPSK	50	0	0	0	50	0	DSI 4	20.88	22.00
41055	41253	QPSK	50	0	0	0	50	0	DSI 4	20.76	22.00
41490	41292	QPSK	50	0	0	0	50	0	DSI 4	20.85	22.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 1	22.93	24.00
40185	40383	QPSK	1	0	0	0	1	0	DSI 1	22.97	24.00
40620	40818	QPSK	1	0	0	0	1	0	DSI 1	23.01	24.00
41055	41253	QPSK	1	0	0	0	1	0	DSI 1	22.94	24.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 1	22.98	24.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 3	23.92	25.00
40185	40383	QPSK	1	0	0	0	1	0	DSI 3	23.95	25.00
40620	40818	QPSK	1	0	0	0	1	0	DSI 3	23.97	25.00
41055	41253	QPSK	1	0	0	0	1	0	DSI 3	23.89	25.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 3	23.91	25.00

CA_41C_Ant 2											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Default Power	24.53	25.70
40185	40383	QPSK	1	0	0	0	1	0	Default Power	24.48	25.70
40620	40818	QPSK	1	0	0	0	1	0	Default Power	24.58	25.70
41055	41253	QPSK	1	0	0	0	1	0	Default Power	23.54	25.70
41490	41292	QPSK	1	0	0	0	1	0	Default Power	24.51	25.70
39750	39948	QPSK	1	0	0	0	1	0	DSI 0	20.71	22.20
40185	40383	QPSK	1	0	0	0	1	0	DSI 0	20.68	22.20
40620	40818	QPSK	1	0	0	0	1	0	DSI 0	20.74	22.20
41055	41253	QPSK	1	0	0	0	1	0	DSI 0	20.72	22.20
41490	41292	QPSK	1	0	0	0	1	0	DSI 0	20.65	22.20
39750	39948	QPSK	50	0	0	0	50	0	DSI 4	19.44	20.70
40185	40383	QPSK	50	0	0	0	50	0	DSI 4	19.47	20.70
40620	40818	QPSK	50	0	0	0	50	0	DSI 4	19.50	20.70
41055	41253	QPSK	50	0	0	0	50	0	DSI 4	19.48	20.70
41490	41292	QPSK	50	0	0	0	50	0	DSI 4	19.43	20.70
39750	39948	QPSK	50	0	0	0	50	0	DSI 1	19.44	20.70
40185	40383	QPSK	50	0	0	0	50	0	DSI 1	19.47	20.70
40620	40818	QPSK	50	0	0	0	50	0	DSI 1	19.50	20.70
41055	41253	QPSK	50	0	0	0	50	0	DSI 1	19.48	20.70
41490	41292	QPSK	50	0	0	0	50	0	DSI 1	19.43	20.70
39750	39948	QPSK	1	0	0	0	1	0	DSI 3	24.53	25.70
40185	40383	QPSK	1	0	0	0	1	0	DSI 3	24.48	25.70
40620	40818	QPSK	1	0	0	0	1	0	DSI 3	24.58	25.70
41055	41253	QPSK	1	0	0	0	1	0	DSI 3	23.54	25.70
41490	41292	QPSK	1	0	0	0	1	0	DSI 3	24.51	25.70



CA_41C_Ant 3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	0	0	0	1	0	Default Power	23.42	24.50
40185	40383	QPSK	1	0	0	0	1	0	Default Power	23.39	24.50
40620	40818	QPSK	1	0	0	0	1	0	Default Power	23.48	24.50
41055	41253	QPSK	1	0	0	0	1	0	Default Power	23.40	24.50
41490	41292	QPSK	1	0	0	0	1	0	Default Power	23.45	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 0	23.42	24.50
40185	40383	QPSK	1	0	0	0	1	0	DSI 0	23.39	24.50
40620	40818	QPSK	1	0	0	0	1	0	DSI 0	23.48	24.50
41055	41253	QPSK	1	0	0	0	1	0	DSI 0	23.40	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 0	23.45	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	23.42	24.50
40185	40383	QPSK	1	0	0	0	1	0	DSI 4	23.39	24.50
40620	40818	QPSK	1	0	0	0	1	0	DSI 4	23.48	24.50
41055	41253	QPSK	1	0	0	0	1	0	DSI 4	23.40	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	23.45	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 1	23.42	24.50
40185	40383	QPSK	1	0	0	0	1	0	DSI 1	23.39	24.50
40620	40818	QPSK	1	0	0	0	1	0	DSI 1	23.48	24.50
41055	41253	QPSK	1	0	0	0	1	0	DSI 1	23.40	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 1	23.45	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 3	23.42	24.50
40185	40383	QPSK	1	0	0	0	1	0	DSI 3	23.39	24.50
40620	40818	QPSK	1	0	0	0	1	0	DSI 3	23.48	24.50
41055	41253	QPSK	1	0	0	0	1	0	DSI 3	23.40	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 3	23.45	24.50



DL CA

Full Power																							
2CC																							
Configure		CA Configuration (BCS)	PCC						SCC				Power										
			LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)								
Inter-Band		CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	23.04	23.16								
		CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	24.31	24.44								
		CA_38A-66A	Band 38	20M	2595	38000	QPSK	1	0	Band 66	5M	2164.3	66979	24.53	24.78								
		CA_66B	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	24.32	24.56								
Intra-Band	Non-Contiguous	CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	22.91	23.16								
		CA_2C	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	22.86	23.16								
	Contiguous	CA_38C	Band 38	20M	2595	38000	QPSK	1	0	Band 38	20M	2590.8	38048	24.44	24.78								
		CA_41C	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	24.71	24.91								
		CA_66C	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	24.22	24.56								
3CC																							
Configure		CA Configuration (BCS)	PCC						SCC1				SCC2				Power						
			LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)				
Inter-Band		CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	10M	2132.5	2175	Band 5	10M	881.5	2525	23.01	23.16				
		CA_2A-7A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2680	3350	23.05	23.16				
		CA_7A-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	24.55	24.87				
		CA_12A-66A-66A	Band 12	10M	707.5	23095	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	24.43	24.65				
		CA_5A-7A-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	5M	2197.5	67311	24.29	24.44				
		CA_5A-7A-7A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.36	24.44				
		CA_2A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	22.98	23.16				
		CA_4A-7C	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.27	24.46				
		CA_5A-7C	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.30	24.44				
		Intra-Band	Non-Contiguous	CA_41A-41A-41A	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2506	39750	Band 41	20M	2680	41490	24.70	24.91		
CA_41D	Band 41			20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 41	20M	2632.6	41016	24.72	24.91				
4CC																							
Configure		CA Configuration (BCS)	PCC						SCC1			SCC2			SCC3			Power					
			LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Intra-Band	Contiguous	CA_41E	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2569.3	40383	Band 41	20M	2589.1	40581	Band 41	20M	2608.9	40779	24.67	24.91



Default Power for LTE Inter UL CA SAR

Band 2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Time-up limit (dBm)	MPR (dB)	
Channel									
				18700	18800	19100			
				1880	1880	1900			
20	QPSK	1	0	23.61	23.68	23.62	24.5	0	
20	QPSK	1	49	23.50	23.58	23.56	24.5	0	
20	QPSK	1	99	23.58	23.55	23.45	24.5	0	
20	QPSK	50	0	22.55	22.68	22.59	23.5	1	
20	QPSK	50	24	22.39	22.54	22.49	23.5	1	
20	QPSK	50	99	22.52	22.53	22.49	23.5	1	
20	QPSK	100	0	22.38	22.52	22.42	23.5	1	
20	16QAM	1	0	22.59	22.62	22.62	23.5	1	
20	16QAM	1	49	22.56	22.61	22.60	23.5	1	
20	16QAM	1	99	22.60	22.60	22.54	23.5	1	
20	16QAM	50	0	21.46	21.55	21.45	22.5	2	
20	16QAM	50	24	21.55	21.64	21.61	22.5	2	
20	16QAM	50	99	21.44	21.46	21.33	22.5	2	
20	16QAM	100	0	21.43	21.52	21.52	22.5	2	
20	64QAM	1	0	21.45	21.57	21.48	22.5	2	
20	64QAM	1	49	21.61	21.62	21.50	22.5	2	
20	64QAM	1	99	21.39	21.53	21.46	22.5	2	
20	64QAM	50	0	20.49	20.55	20.52	21.5	3	
20	64QAM	50	24	20.61	20.71	20.66	21.5	3	
20	64QAM	50	99	20.54	20.55	20.46	21.5	3	
20	64QAM	100	0	20.52	20.51	20.42	21.5	3	
Channel									
				18675	18800	19125			
				18800	18800	19025			
15	QPSK	1	0	23.58	23.66	23.66	24.5	0	
15	QPSK	1	37	23.37	23.53	23.38	24.5	0	
15	QPSK	1	74	23.42	23.63	23.46	24.5	0	
15	QPSK	36	0	22.39	22.63	22.33	23.5	1	
15	QPSK	36	20	22.13	22.32	22.34	23.5	1	
15	QPSK	36	39	22.28	22.41	22.40	23.5	1	
15	16QAM	1	0	22.37	22.59	22.46	23.5	1	
15	16QAM	1	37	22.62	22.58	22.43	23.5	1	
15	16QAM	1	74	22.83	22.44	22.57	23.5	1	
15	16QAM	36	0	21.46	21.48	21.41	22.5	2	
15	16QAM	36	20	21.50	21.63	21.47	22.5	2	
15	16QAM	36	39	21.27	21.47	21.41	22.5	2	
15	16QAM	75	0	21.41	21.32	21.58	22.5	2	
15	64QAM	1	0	21.25	21.53	21.35	22.5	2	
15	64QAM	1	37	21.56	21.69	21.26	22.5	2	
15	64QAM	1	74	21.31	21.43	21.30	22.5	2	
15	64QAM	36	0	20.44	20.39	20.31	21.5	3	
15	64QAM	36	20	20.50	20.54	20.65	21.5	3	
15	64QAM	36	39	20.45	20.62	20.19	21.5	3	
15	64QAM	75	0	20.32	20.49	20.46	21.5	3	
Channel									
				18650	18800	19150			
				18650	18800	19050			
10	QPSK	1	0	23.34	23.66	23.48	24.5	0	
10	QPSK	1	24	23.24	23.48	23.44	24.5	0	
10	QPSK	1	49	23.30	23.38	23.16	24.5	0	
10	QPSK	25	0	22.44	22.39	22.53	23.5	1	
10	QPSK	25	12	22.28	22.28	22.55	23.5	1	
10	QPSK	25	23	22.30	22.60	22.34	23.5	1	
10	QPSK	50	0	22.31	22.24	22.41	23.5	1	
10	QPSK	50	0	22.37	22.46	22.43	23.5	1	
10	16QAM	1	25	22.62	22.69	22.58	23.5	1	
10	16QAM	1	49	22.53	22.47	22.51	23.5	1	
10	16QAM	25	0	21.31	21.59	21.17	22.5	2	
10	16QAM	25	12	21.29	21.41	21.38	22.5	2	
10	16QAM	25	25	21.17	21.43	21.30	22.5	2	
10	16QAM	50	0	20.18	21.34	21.28	21.5	3	
10	64QAM	1	0	21.24	21.53	21.36	22.5	2	
10	64QAM	1	25	21.65	21.40	21.42	22.5	2	
10	64QAM	1	49	21.29	21.48	21.47	22.5	2	
10	64QAM	25	0	20.27	20.63	20.59	21.5	3	
10	64QAM	25	12	20.61	20.67	20.50	21.5	3	
10	64QAM	25	25	20.59	20.63	20.45	21.5	3	
10	64QAM	50	0	20.46	20.43	20.36	21.5	3	
Channel									
				18625	18800	19175			
				18625	18800	19075			
5	QPSK	1	0	23.61	23.61	23.53	24.5	0	
5	QPSK	1	12	23.45	23.41	23.46	24.5	0	
5	QPSK	1	24	23.50	23.51	23.50	24.5	0	
5	QPSK	12	0	22.58	22.49	22.46	23.5	1	
5	QPSK	12	7	22.42	22.48	22.22	23.5	1	
5	QPSK	12	13	22.39	22.44	22.26	23.5	1	
5	QPSK	25	0	22.10	22.55	22.16	23.5	1	
5	16QAM	1	0	22.48	22.40	22.61	23.5	1	
5	16QAM	1	12	22.60	22.45	22.38	23.5	1	
5	16QAM	1	24	22.61	22.64	22.50	23.5	1	
5	16QAM	12	0	21.50	21.38	21.41	22.5	2	
5	16QAM	12	7	21.63	21.51	21.33	22.5	2	
5	16QAM	12	13	21.36	21.40	21.38	22.5	2	
5	16QAM	25	0	21.34	21.54	21.40	22.5	2	
5	64QAM	1	0	21.35	21.54	21.23	22.5	2	
5	64QAM	1	12	21.66	21.36	21.49	22.5	2	
5	64QAM	1	24	21.38	21.30	21.47	22.5	2	
5	64QAM	12	0	20.56	20.45	20.48	21.5	3	
5	64QAM	12	7	20.34	20.53	20.30	21.5	3	
5	64QAM	12	13	20.50	20.53	20.20	21.5	3	
5	64QAM	25	0	20.28	20.32	20.24	21.5	3	
Channel									
				18615	18800	19085			
				18615	18800	19005			
3	QPSK	1	0	23.60	23.63	23.46	24.5	0	
3	QPSK	1	8	23.55	23.58	23.31	24.5	0	
3	QPSK	1	14	23.50	23.40	23.30	24.5	0	
3	QPSK	8	0	22.63	22.67	22.64	23.5	1	
3	QPSK	8	4	22.25	22.46	22.49	23.5	1	
3	QPSK	8	7	22.38	22.35	22.46	23.5	1	
3	QPSK	15	0	22.18	22.58	22.24	23.5	1	
3	16QAM	1	0	22.49	22.69	22.44	23.5	1	
3	16QAM	1	8	22.51	22.35	22.45	23.5	1	
3	16QAM	1	14	22.60	22.64	22.57	23.5	1	
3	16QAM	8	0	21.36	21.48	21.53	22.5	2	
3	16QAM	8	4	21.36	21.67	21.56	22.5	2	
3	16QAM	8	7	21.30	21.34	21.41	22.5	2	
3	16QAM	15	0	21.28	21.38	21.29	22.5	2	
3	64QAM	1	0	21.35	21.44	21.39	22.5	2	
3	64QAM	1	8	21.58	21.58	21.46	22.5	2	
3	64QAM	1	14	21.39	21.42	21.51	22.5	2	
3	64QAM	8	0	20.54	20.44	20.54	21.5	3	
3	64QAM	8	4	20.57	20.45	20.65	21.5	3	
3	64QAM	8	7	20.33	20.55	20.29	21.5	3	
3	64QAM	15	0	20.55	20.26	20.16	21.5	3	
Channel									
				18607	18800	19193			
				18607	18800	19093			
1.4	QPSK	1	0	23.47	23.54	23.61	24.5	0	
1.4	QPSK	1	3	23.50	23.44	23.43	24.5	0	
1.4	QPSK	1	5	23.34	23.40	23.43	24.5	0	
1.4	QPSK	3	0	23.35	23.31	23.30	24.5	0	
1.4	QPSK	3	1	23.14	23.51	23.29	24.5	0	
1.4	QPSK	3	3	23.42	23.40	23.15	24.5	0	
1.4	QPSK	6	0	22.22	22.31	22.20	23.5	1	
1.4	16QAM	1	0	22.32	22.45	22.42	23.5	1	
1.4	16QAM	1	3	22.35	22.46	22.59	23.5	1	
1.4	16QAM	1	5	22.39	22.40	22.45	23.5	1	
1.4	16QAM	3	0	22.28	22.44	22.11	23.5	1	
1.4	16QAM	3	1	22.17	22.35	22.33	23.5	1	
1.4	16QAM	3	3	22.18	22.23	22.11	23.5	1	
1.4	16QAM	6	0	21.19	21.50	21.36	22.5	2	
1.4	64QAM	1	0	21.46	21.41	21.32	22.5	2	
1.4	64QAM	1	3	21.60	21.				



Band 4_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20080	20176	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	24.54	24.60	24.58			
20	QPSK	1	49	24.53	24.62	24.53	25.6	0	
20	QPSK	1	99	24.45	24.54	24.49			
20	QPSK	50	0	23.54	23.66	23.61			
20	QPSK	50	24	23.51	23.61	23.53	24.6	1	
20	QPSK	50	50	23.45	23.55	23.42			
20	QPSK	100	0	23.53	23.60	23.55			
20	16QAM	1	0	23.57	23.65	23.61			
20	16QAM	1	49	23.43	23.47	23.43	24.6	1	
20	16QAM	1	99	23.42	23.48	23.54			
20	16QAM	50	0	22.50	22.52	22.43			
20	16QAM	50	24	22.35	22.32	22.33			
20	16QAM	50	50	22.35	22.32	22.33	23.6	2	
20	16QAM	100	0	22.52	22.57	22.55			
20	64QAM	1	0	22.48	22.56	22.51			
20	64QAM	1	49	22.37	22.34	22.38	23.6	2	
20	64QAM	1	99	22.31	22.48	22.52			
20	64QAM	50	0	21.41	21.48	21.54			
20	64QAM	50	24	21.30	21.31	21.23			
20	64QAM	50	50	21.32	21.23	21.28	22.6	3	
20	64QAM	100	0	21.52	21.55	21.47			
Channel									
				20025	20175	20325			
Frequency (MHz)				1712.5	1732.5	1752.5			
15	QPSK	1	0	24.46	24.54	24.43			
15	QPSK	1	37	24.47	24.59	24.39	25.6	0	
15	QPSK	1	74	24.37	24.50	24.42			
15	QPSK	36	0	23.39	23.61	23.53			
15	QPSK	36	20	23.45	23.48	23.48	24.6	1	
15	QPSK	36	39	23.30	23.47	23.37			
15	16QAM	1	0	23.52	23.53	23.48			
15	16QAM	1	37	23.29	23.34	23.39	24.6	1	
15	16QAM	1	74	23.33	23.42	23.40			
15	16QAM	36	0	22.45	22.44	22.39			
15	16QAM	36	20	22.28	22.37	22.19			
15	16QAM	36	39	22.30	22.24	22.25	23.6	2	
15	16QAM	75	0	22.48	22.48	22.41			
15	64QAM	1	0	22.41	22.41	22.40			
15	64QAM	1	37	22.30	22.25	22.24	23.6	2	
15	64QAM	1	74	22.42	22.38	22.43			
15	64QAM	36	0	21.28	21.34	21.45			
15	64QAM	36	20	21.21	21.21	21.16			
15	64QAM	36	39	21.21	21.16	21.20	22.6	3	
15	64QAM	75	0	21.46	21.47	21.42			
Channel									
				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	24.49	24.59	24.49			
10	QPSK	1	49	24.39	24.46	24.44	25.6	0	
10	QPSK	25	0	23.45	23.61	23.54			
10	QPSK	25	12	23.43	23.53	23.41	24.6	1	
10	QPSK	25	25	23.37	23.52	23.37			
10	QPSK	50	0	23.49	23.54	23.51			
10	16QAM	1	0	23.45	23.61	23.56			
10	16QAM	1	25	23.36	23.34	23.36	24.6	1	
10	16QAM	1	49	23.28	23.37	23.41			
10	16QAM	25	0	22.42	22.49	22.30			
10	16QAM	25	12	22.25	22.22	22.25	23.6	2	
10	16QAM	25	25	22.20	22.19	22.20			
10	16QAM	50	0	22.40	22.45	22.43			
10	64QAM	1	0	22.41	22.49	22.47			
10	64QAM	1	25	22.31	22.29	22.26	23.6	2	
10	64QAM	1	49	22.42	22.35	22.44			
10	64QAM	25	0	21.28	21.35	21.47			
10	64QAM	25	12	21.25	21.23	21.10			
10	64QAM	25	25	21.18	21.17	21.25	22.6	3	
10	64QAM	50	0	21.46	21.49	21.35			
Channel									
				19975	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	24.40	24.65	24.52			
5	QPSK	1	12	24.47	24.48	24.41	25.6	0	
5	QPSK	1	24	24.38	24.43	24.38			
5	QPSK	12	0	23.40	23.54	23.54			
5	QPSK	12	7	23.48	23.47	23.46	24.6	1	
5	QPSK	12	13	23.35	23.45	23.34			
5	QPSK	25	0	23.38	23.52	23.40			
5	16QAM	1	0	23.52	23.59	23.54			
5	16QAM	1	12	23.34	23.36	23.38	24.6	1	
5	16QAM	1	24	23.36	23.34	23.50			
5	16QAM	12	0	22.36	22.48	22.37			
5	16QAM	12	7	22.26	22.24	22.21	23.6	2	
5	16QAM	12	13	22.29	22.19	22.21			
5	16QAM	25	0	22.40	22.45	22.41			
5	64QAM	1	0	22.40	22.48	22.36			
5	64QAM	1	12	22.28	22.20	22.28	23.6	2	
5	64QAM	1	24	22.43	22.44	22.45			
5	64QAM	12	0	21.27	21.39	21.44			
5	64QAM	12	7	21.27	21.18	21.19	22.6	3	
5	64QAM	12	13	21.24	21.10	21.13			
5	64QAM	25	0	21.45	21.45	21.40			
Channel									
				19985	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	24.48	24.65	24.54			
3	QPSK	1	8	24.43	24.51	24.48	25.6	0	
3	QPSK	1	14	24.34	24.43	24.46			
3	QPSK	8	0	23.38	23.61	23.53			
3	QPSK	8	4	23.43	23.49	23.49	24.6	1	
3	QPSK	8	7	23.30	23.42	23.32			
3	QPSK	15	0	23.43	23.53	23.50			
3	16QAM	1	0	23.49	23.54	23.51			
3	16QAM	1	8	23.32	23.36	23.39	24.6	1	
3	16QAM	1	14	23.34	23.44	23.42			
3	16QAM	8	0	22.42	22.44	22.34			
3	16QAM	8	4	22.21	22.23	22.24	23.6	2	
3	16QAM	8	7	22.23	22.19	22.18			
3	16QAM	15	0	22.41	22.52	22.50			
3	64QAM	1	0	22.44	22.52	22.38			
3	64QAM	1	8	22.29	22.29	22.31	23.6	2	
3	64QAM	1	14	22.41	22.37	22.40			
3	64QAM	8	0	21.35	21.39	21.41			
3	64QAM	8	4	21.27	21.20	21.10	22.6	3	
3	64QAM	8	7	21.25	21.15	21.18			
3	64QAM	15	0	21.39	21.42	21.44			
Channel									
				19987	20175	20393			
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	24.48	24.64	24.53			
1.4	QPSK	1	3	24.40	24.56	24.38	25.6	0	
1.4	QPSK	1	5	24.34	24.40	24.42			
1.4	QPSK	3	0	24.37	24.51	24.57			
1.4	QPSK	3	3	24.48	24.55	24.35			
1.4	QPSK	3	6	23.45	23.55	23.44	24.6	1	
1.4	16QAM	1	0	23.53	23.53	23.54			
1.4	16QAM	1	3	23.33	23.34	23.32			
1.4	16QAM	1	5	23.32	23.40	23.50	24.6	1	
1.4	16QAM	3	0	23.42	23.48	23.40			
1.4	16QAM	3	1	23.21	23.17	23.19			
1.4	16QAM	3	3	23.20	23.18	23.25			
1.4	16QAM	8	0	22.41	22.48	22.52	23.6	2	
1.4	64QAM	1	0	22.39	22.45	22.41			
1.4	64QAM	1	3	22.24	22.20	22.27			
1.4	64QAM	1	5	22.43	22.33	22.38			
1.4	64QAM	3	0	22.33	22.35	22.41	23.6	2	
1.4	64QAM	3	1	22.20	22.24	22.10			
1.4	64QAM	3	3	22.28	22.14	22.15			
1.4	64QAM	6	0	21.38	21.51	21.37	22.6	3	

Band 7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up limit (dBm)	MPR (dB)	
Channel									
				20850	21100	21350			
Frequency (MHz)									



DS10

Table for Band 2_Ant 1. Columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include QPSK, 16QAM, 64QAM, and 64QAM variants across various channel frequencies.

Table for Band 2_Ant 3. Columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include QPSK, 16QAM, 64QAM, and 64QAM variants across various channel frequencies.

Table for Band 4_Ant 0. Columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include QPSK, 16QAM, 64QAM, and 64QAM variants across various channel frequencies.



Band 4_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	18.66	18.76	18.67	19.6	0
20	QPSK	1	49	18.63	18.70	18.60		
20	QPSK	1	99	18.44	18.50	18.44		
20	QPSK	50	0	18.61	18.71	18.61		
20	QPSK	50	24	18.63	18.73	18.65		
20	QPSK	50	50	18.59	18.69	18.62		
20	QPSK	100	0	18.60	18.69	18.60		
20	16QAM	1	0	18.57	18.67	18.59		
20	16QAM	1	49	18.60	18.64	18.57		
20	16QAM	1	99	18.51	18.75	18.56		
20	16QAM	50	0	18.58	18.70	18.58		
20	16QAM	50	24	18.63	18.75	18.64		
20	16QAM	50	50	18.60	18.68	18.64		
20	16QAM	100	0	18.59	18.67	18.56		
20	84QAM	1	0	18.66	18.71	18.65		
20	84QAM	1	49	18.71	18.74	18.65		
20	84QAM	1	99	18.54	18.83	18.56		
20	84QAM	50	0	18.57	18.67	18.58		
20	84QAM	50	24	18.66	18.71	18.68		
20	84QAM	50	50	18.57	18.66	18.57		
20	84QAM	100	0	18.65	18.68	18.64		
Channel								
Frequency (MHz)								
15	QPSK	1	0	18.57	18.67	18.64	19.6	0
15	QPSK	1	37	18.55	18.63	18.50		
15	QPSK	1	74	18.36	18.46	18.36		
15	QPSK	36	0	18.56	18.67	18.58		
15	QPSK	36	20	18.54	18.67	18.58		
15	QPSK	36	39	18.49	18.63	18.59		
15	QPSK	75	0	18.56	18.58	18.48		
15	16QAM	1	0	18.49	18.63	18.49		
15	16QAM	1	37	18.52	18.56	18.51		
15	16QAM	1	74	18.35	18.71	18.36		
15	16QAM	36	0	18.50	18.67	18.50		
15	16QAM	36	20	18.54	18.65	18.52		
15	16QAM	36	39	18.54	18.58	18.58		
15	16QAM	75	0	18.55	18.64	18.51		
15	84QAM	1	0	18.54	18.61	18.57		
15	84QAM	1	37	18.67	18.62	18.54		
15	84QAM	1	74	18.51	18.57	18.45		
15	84QAM	36	0	18.52	18.59	18.54		
15	84QAM	36	20	18.63	18.59	18.65		
15	84QAM	36	39	18.52	18.62	18.45		
15	84QAM	75	0	18.62	18.61	18.53		
Channel								
Frequency (MHz)								
10	QPSK	1	0	18.61	18.68	18.61	19.6	0
10	QPSK	1	25	18.60	18.58	18.50		
10	QPSK	1	49	18.40	18.38	18.32		
10	QPSK	25	0	18.56	18.66	18.58		
10	QPSK	25	12	18.54	18.66	18.62		
10	QPSK	25	25	18.50	18.58	18.55		
10	QPSK	50	0	18.51	18.57	18.54		
10	16QAM	1	0	18.49	18.63	18.55		
10	16QAM	1	25	18.55	18.61	18.50		
10	16QAM	1	49	18.36	18.62	18.32		
10	16QAM	25	0	18.53	18.54	18.51		
10	16QAM	25	12	18.51	18.67	18.56		
10	16QAM	25	25	18.55	18.57	18.53		
10	16QAM	50	0	18.48	18.59	18.52		
10	84QAM	1	0	18.58	18.66	18.61		
10	84QAM	1	25	18.65	18.69	18.57		
10	84QAM	1	49	18.46	18.54	18.47		
10	84QAM	25	0	18.47	18.61	18.48		
10	84QAM	25	12	18.61	18.60	18.57		
10	84QAM	25	25	18.52	18.61	18.52		
10	84QAM	50	0	18.53	18.56	18.57		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.56	18.69	18.62	19.6	0
5	QPSK	1	12	18.51	18.62	18.51		
5	QPSK	1	24	18.33	18.38	18.31		
5	QPSK	12	0	18.54	18.61	18.57		
5	QPSK	12	7	18.55	18.61	18.56		
5	QPSK	12	13	18.47	18.64	18.58		
5	QPSK	25	0	18.53	18.63	18.53		
5	16QAM	1	0	18.52	18.55	18.54		
5	16QAM	1	12	18.48	18.58	18.51		
5	16QAM	1	24	18.61	18.66	18.64		
5	16QAM	12	0	18.47	18.59	18.55		
5	16QAM	12	7	18.53	18.71	18.52		
5	16QAM	12	13	18.48	18.59	18.60		
5	16QAM	25	0	18.56	18.63	18.48		
5	84QAM	1	0	18.60	18.68	18.61		
5	84QAM	1	12	18.62	18.69	18.57		
5	84QAM	1	24	18.55	18.52	18.53		
5	84QAM	12	0	18.53	18.59	18.51		
5	84QAM	12	7	18.59	18.61	18.63		
5	84QAM	12	13	18.51	18.60	18.59		
5	84QAM	25	0	18.58	18.61	18.54		
Channel								
Frequency (MHz)								
3	QPSK	1	0	18.59	18.65	18.57	19.6	0
3	QPSK	1	8	18.55	18.59	18.49		
3	QPSK	1	14	18.32	18.38	18.36		
3	QPSK	8	0	18.58	18.66	18.56		
3	QPSK	8	4	18.53	18.61	18.56		
3	QPSK	8	7	18.56	18.66	18.58		
3	QPSK	15	0	18.50	18.61	18.53		
3	16QAM	1	0	18.53	18.55	18.48		
3	16QAM	1	8	18.54	18.60	18.45		
3	16QAM	1	14	18.66	18.66	18.64		
3	16QAM	8	0	18.55	18.63	18.50		
3	16QAM	8	4	18.59	18.63	18.59		
3	16QAM	8	7	18.55	18.60	18.61		
3	16QAM	15	0	18.52	18.63	18.44		
3	84QAM	1	0	18.60	18.63	18.61		
3	84QAM	1	8	18.66	18.71	18.57		
3	84QAM	1	14	18.53	18.56	18.50		
3	84QAM	8	0	18.50	18.57	18.52		
3	84QAM	8	4	18.61	18.62	18.65		
3	84QAM	8	7	18.52	18.60	18.50		
3	84QAM	15	0	18.61	18.58	18.55		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	18.55	18.73	18.58	19.6	0
1.4	QPSK	1	3	18.59	18.58	18.50		
1.4	QPSK	1	5	18.35	18.41	18.34		
1.4	QPSK	3	0	18.56	18.67	18.52		
1.4	QPSK	3	1	18.55	18.65	18.56		
1.4	QPSK	3	3	18.49	18.58	18.50		
1.4	QPSK	6	0	18.53	18.64	18.48		
1.4	16QAM	1	0	18.48	18.61	18.55		
1.4	16QAM	1	3	18.52	18.56	18.48		
1.4	16QAM	1	5	18.65	18.72	18.64		
1.4	16QAM	3	0	18.56	18.59	18.46		
1.4	16QAM	3	1	18.56	18.60	18.56		
1.4	16QAM	3	3	18.49	18.63	18.57		
1.4	16QAM	6	0	18.52	18.63	18.48		
1.4	84QAM	1	0	18.57	18.66	18.54		
1.4	84QAM	1	3	18.61	18.63	18.60		
1.4	84QAM	1	5	18.53	18.60	18.47		
1.4	84QAM	3	0	18.47	18.56	18.52		
1.4	84QAM	3	1	18.56	18.68	18.57		
1.4	84QAM	3	3	18.53	18.56	18.52		
1.4	84QAM	6	0	18.54	18.56	18.61		

Band 7_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	17.52	17.65	17.59	18.5	0
20	QPSK	1	49	17.50	17.58	17.51		
20	QPSK	1	99	17.46	17.67	17.54		
20	QPSK	50	0	17.59	17.64	17.50		
20	QPSK	50	24	17.58	17.61	17.59		
20	QPSK	50	50	17.47	17.63	17.55		
20	QPSK	100	0	17.42	17.55	17.39		
20	16QAM	1	0	17.63	17.63	17.52		
20	16QAM	1	49	17.49	17.61	17.51		
20	16QAM	1	99	17.44	17.61	17.54		
20	16QAM	50	0	17.58	17.62	17.55		
20	16QAM	50	24	17.49	17.64	17.59		
20	16QAM	50	50	17.59	17.63	17.57		
20	16QAM	100	0	17.59	17.61	17.59		
20	84QAM	1	0	17.62	17.62	17.59		
20	84QAM							



DSH1

Band 2_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.				
20	QPSK	1	0	15.70	15.86	15.89	16.5	0		
20	QPSK	1	49	15.69	15.80	15.87				
20	QPSK	1	99	15.65	15.80	15.85				
20	QPSK	50	0	15.69	15.70	15.73	16.5	0		
20	QPSK	50	24	15.67	15.76	15.71				
20	QPSK	50	50	15.63	15.73	15.63				
20	QPSK	100	0	15.62	15.67	15.57	16.5	0		
20	16QAM	1	0	15.63	15.76	15.68				
20	16QAM	1	49	15.78	15.85	15.76				
20	16QAM	1	99	15.74	15.85	15.80	16.5	0		
20	16QAM	50	0	15.63	15.68	15.66				
20	16QAM	50	24	15.77	15.78	15.65				
20	16QAM	50	50	15.65	15.72	15.70	16.5	0		
20	16QAM	100	0	15.55	15.68	15.66				
20	16QAM	100	0	15.80	15.82	15.75				
20	64QAM	1	49	15.73	15.85	15.82	16.5	0		
20	64QAM	1	99	15.74	15.81	15.89				
20	64QAM	50	0	15.60	15.65	15.56				
20	64QAM	50	24	15.59	15.78	15.58	16.5	0		
20	64QAM	50	50	15.66	15.77	15.58				
20	64QAM	100	0	15.53	15.67	15.69				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.				
15	QPSK	1	0	15.44	15.73	15.52	16.5	0		
15	QPSK	1	37	15.60	15.71	15.57				
15	QPSK	1	74	15.73	15.78	15.72				
15	QPSK	36	0	15.65	15.76	15.66	16.5	0		
15	QPSK	36	20	15.55	15.66	15.68				
15	QPSK	36	39	15.57	15.62	15.57				
15	QPSK	75	0	15.58	15.66	15.44	16.5	0		
15	16QAM	1	0	15.55	15.67	15.65				
15	16QAM	1	37	15.67	15.85	15.65				
15	16QAM	1	74	15.73	15.78	15.72	16.5	0		
15	16QAM	36	0	15.56	15.63	15.64				
15	16QAM	36	20	15.65	15.77	15.59				
15	16QAM	36	39	15.52	15.61	15.59	16.5	0		
15	16QAM	75	0	15.53	15.61	15.56				
15	64QAM	1	0	15.81	15.83	15.80				
15	64QAM	1	37	15.77	15.87	15.67	16.5	0		
15	64QAM	1	74	15.83	15.89	15.82				
15	64QAM	36	0	15.50	15.40	15.61				
15	64QAM	36	20	15.53	15.50	15.44	16.5	0		
15	64QAM	36	39	15.68	15.72	15.52				
15	64QAM	75	0	15.58	15.53	15.61				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.				
10	QPSK	1	0	15.68	15.72	15.67	16.5	0		
10	QPSK	1	25	15.68	15.76	15.55				
10	QPSK	1	49	15.61	15.56	15.53				
10	QPSK	25	0	15.64	15.67	15.67	16.5	0		
10	QPSK	25	12	15.61	15.65	15.63				
10	QPSK	25	25	15.61	15.66	15.53				
10	QPSK	50	0	15.59	15.60	15.53	16.5	0		
10	16QAM	1	0	15.59	15.76	15.65				
10	16QAM	1	25	15.72	15.81	15.73				
10	16QAM	1	49	15.72	15.75	15.78	16.5	0		
10	16QAM	25	0	15.54	15.68	15.66				
10	16QAM	25	12	15.67	15.68	15.61				
10	16QAM	25	25	15.55	15.70	15.67	16.5	0		
10	16QAM	50	0	15.55	15.63	15.57				
10	64QAM	1	0	15.76	15.82	15.65				
10	64QAM	1	25	15.71	15.63	15.75	16.5	0		
10	64QAM	1	49	15.81	15.84	15.40				
10	64QAM	25	0	15.63	15.67	15.67				
10	64QAM	25	12	15.63	15.72	15.41	16.5	0		
10	64QAM	25	25	15.61	15.58	15.54				
10	64QAM	50	0	15.55	15.45	15.60				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.				
5	QPSK	1	0	15.55	15.68	15.75	16.5	0		
5	QPSK	1	12	15.56	15.71	15.61				
5	QPSK	1	24	15.63	15.60	15.53				
5	QPSK	12	0	15.64	15.64	15.64	16.5	0		
5	QPSK	12	7	15.64	15.64	15.69				
5	QPSK	12	13	15.63	15.68	15.61				
5	QPSK	25	0	15.49	15.65	15.50	16.5	0		
5	16QAM	1	0	15.57	15.63	15.57				
5	16QAM	1	12	15.70	15.72	15.76				
5	16QAM	1	24	15.68	15.72	15.76	16.5	0		
5	16QAM	12	0	15.62	15.80	15.59				
5	16QAM	12	7	15.73	15.73	15.63				
5	16QAM	12	13	15.52	15.70	15.64	16.5	0		
5	16QAM	25	0	15.50	15.60	15.63				
5	64QAM	1	0	15.70	15.67	15.66				
5	64QAM	1	12	15.72	15.85	15.56	16.5	0		
5	64QAM	1	24	15.68	15.85	15.52				
5	64QAM	12	0	15.45	15.80	15.47				
5	64QAM	12	7	15.64	15.72	15.50	16.5	0		
5	64QAM	12	13	15.44	15.68	15.59				
5	64QAM	25	0	15.52	15.47	15.44				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.				
3	QPSK	1	0	15.60	15.76	15.64	16.5	0		
3	QPSK	1	8	15.68	15.70	15.62				
3	QPSK	1	14	15.52	15.69	15.61				
3	QPSK	8	0	15.61	15.70	15.70	16.5	0		
3	QPSK	8	4	15.61	15.66	15.62				
3	QPSK	8	7	15.59	15.70	15.50				
3	QPSK	15	0	15.50	15.59	15.47	16.5	0		
3	16QAM	1	0	15.58	15.74	15.63				
3	16QAM	1	8	15.72	15.73	15.65				
3	16QAM	1	14	15.69	15.80	15.76	16.5	0		
3	16QAM	8	0	15.62	15.57	15.62				
3	16QAM	8	4	15.71	15.70	15.54				
3	16QAM	8	7	15.61	15.68	15.70	16.5	0		
3	16QAM	15	0	15.46	15.62	15.63				
3	64QAM	1	0	15.62	15.81	15.54				
3	64QAM	1	8	15.70	15.70	15.73	16.5	0		
3	64QAM	1	14	15.48	15.71	15.40				
3	64QAM	8	0	15.55	15.66	15.66				
3	64QAM	8	4	15.44	15.70	15.41	16.5	0		
3	64QAM	8	7	15.46	15.68	15.43				
3	64QAM	15	0	15.56	15.48	15.68				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.				
1.4	QPSK	1	0	15.49	15.77	15.58	16.5	0		
1.4	QPSK	1	3	15.60	15.69	15.54				
1.4	QPSK	1	5	15.59	15.62	15.51				
1.4	QPSK	3	0	15.56	15.69	15.71	16.5	0		
1.4	QPSK	3	1	15.62	15.66	15.66				
1.4	QPSK	3	3	15.63	15.71	15.60				
1.4	QPSK	6	0	15.59	15.64	15.57	16.5	0		
1.4	16QAM	1	0	15.61	15.71	15.60				
1.4	16QAM	1	3	15.71	15.79	15.73				
1.4	16QAM	1	5	15.67	15.72	15.68	16.5	0		
1.4	16QAM	3	0	15.60	15.65	15.53				
1.4	16QAM	3	1	15.74	15.73	15.54				
1.4	16QAM	3	3	15.62	15.67	15.60	16.5	0		
1.4	16QAM	6	0	15.49	15.65	15.54				
1.4	64QAM	1	0	15.74	15.84	15.64				
1.4	64QAM	1	3	15.54	15.81	15.83	16.5	0		
1.4	64QAM	1	5	15.53	15.58	15.50				
1.4	64QAM	3	0	15.44	15.52	15.53				
1.4	64QAM	3	1	15.43	15.73	15.54	16.5	0		
1.4	64QAM	3	3	15.49	15.73	15.32				
1.4	64QAM	6	0	15.50	15.47	15.64				

Band 2_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							Tune-up limit (dBm)</			



Band 4_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2050	20175	2030				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	21.14	21.34	21.19				
20	QPSK	1	49	21.04	21.20	20.97	22.1	0		
20	QPSK	1	99	21.07	21.21	21.06				
20	QPSK	50	0	21.13	21.24	21.11				
20	QPSK	50	24	21.03	21.23	21.09				
20	QPSK	50	50	21.04	21.19	21.05	22.1	0		
20	QPSK	100	0	21.10	21.20	21.12				
20	16QAM	1	0	21.11	21.28	21.16				
20	16QAM	1	49	21.17	21.31	21.19	22.1	0		
20	16QAM	1	99	21.17	21.31	21.15				
20	16QAM	50	0	21.12	21.20	21.07				
20	16QAM	50	24	21.11	21.24	21.07				
20	16QAM	50	50	21.09	21.20	21.03	22.1	0		
20	16QAM	100	0	21.02	21.16	20.99				
20	84QAM	1	0	21.18	21.26	21.14				
20	84QAM	1	49	21.17	21.31	21.17	22.1	0		
20	84QAM	1	99	20.99	21.18	20.96				
20	84QAM	50	0	21.09	21.22	21.07				
20	84QAM	50	24	21.03	21.25	21.09	22.1	0		
20	84QAM	50	50	21.08	21.19	21.09				
20	84QAM	100	0	21.05	21.17	20.99				
Channel										
Frequency (MHz)				20225	20175	20325				
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	21.10	21.24	21.14				
15	QPSK	1	37	20.96	21.17	20.86	22.1	0		
15	QPSK	1	74	20.93	20.93	20.73				
15	QPSK	36	0	21.07	21.21	20.99				
15	QPSK	36	20	20.97	21.16	21.05				
15	QPSK	36	39	20.98	21.13	20.97	22.1	0		
15	QPSK	75	0	20.99	21.12	21.04				
15	16QAM	1	0	21.03	21.23	21.04				
15	16QAM	1	37	21.00	21.21	21.12	22.1	0		
15	16QAM	1	74	21.06	21.21	21.07				
15	16QAM	36	0	21.04	21.09	21.00				
15	16QAM	36	20	21.06	21.21	20.96				
15	16QAM	36	39	20.97	21.13	21.01	22.1	0		
15	16QAM	75	0	20.90	21.13	20.96				
15	84QAM	1	0	21.15	21.22	21.10				
15	84QAM	1	37	21.06	21.27	21.14	22.1	0		
15	84QAM	1	74	20.93	21.0	20.94				
15	84QAM	36	0	21.06	21.14	21.03				
15	84QAM	36	20	21.00	21.14	21.03				
15	84QAM	36	39	20.96	21.16	20.88	22.1	0		
15	84QAM	75	0	20.96	21.08	20.98				
Channel										
Frequency (MHz)				20000	20175	20350				
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	21.07	21.25	21.09				
10	QPSK	1	25	21.00	21.15	20.86	22.1	0		
10	QPSK	1	50	20.75	20.92	20.74				
10	QPSK	25	0	21.07	21.18	21.02				
10	QPSK	25	12	20.81	21.15	20.99				
10	QPSK	25	25	21.01	21.14	20.94	22.1	0		
10	QPSK	50	0	21.02	21.14	21.04				
10	16QAM	1	0	21.05	21.17	21.10				
10	16QAM	1	25	20.99	21.30	21.07	22.1	0		
10	16QAM	1	50	21.13	21.26	21.06				
10	16QAM	25	0	21.03	21.09	21.00				
10	16QAM	25	12	21.00	21.21	20.98				
10	16QAM	25	25	21.00	21.16	20.96	22.1	0		
10	16QAM	50	0	20.96	21.13	20.90				
10	84QAM	1	0	21.10	21.19	21.06				
10	84QAM	1	25	21.14	21.28	21.13	22.1	0		
10	84QAM	1	50	20.92	21.15	20.95				
10	84QAM	25	0	21.05	21.14	21.02				
10	84QAM	25	12	20.83	21.13	21.04				
10	84QAM	25	25	20.96	21.15	21.03	22.1	0		
10	84QAM	50	0	21.02	21.13	20.90				
Channel										
Frequency (MHz)				19975	20175	20375				
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	21.11	21.23	21.11				
5	QPSK	1	12	20.98	21.08	20.91	22.1	0		
5	QPSK	1	24	20.80	20.96	20.77				
5	QPSK	12	0	21.01	21.21	21.03				
5	QPSK	12	7	20.99	21.11	21.01	22.1	0		
5	QPSK	12	13	20.94	21.14	21.01				
5	QPSK	25	0	21.00	21.09	21.01				
5	16QAM	1	0	20.99	21.22	21.04				
5	16QAM	1	12	21.03	21.23	21.13	22.1	0		
5	16QAM	1	24	21.08	21.25	21.05				
5	16QAM	12	0	21.00	21.08	20.99				
5	16QAM	12	7	21.00	21.18	20.97	22.1	0		
5	16QAM	12	13	20.97	21.15	20.92				
5	16QAM	25	0	20.90	21.13	20.96				
5	84QAM	1	0	21.06	21.22	21.08				
5	84QAM	1	12	21.12	21.27	21.08	22.1	0		
5	84QAM	1	24	20.88	21.11	20.89				
5	84QAM	12	0	20.99	21.13	20.98				
5	84QAM	12	7	20.94	21.14	21.04	22.1	0		
5	84QAM	12	13	21.01	21.14	20.97				
5	84QAM	25	0	20.99	21.12	20.87				
Channel										
Frequency (MHz)				19957	20175	20393				
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	21.08	21.28	21.16				
1.4	QPSK	1	3	20.98	21.08	20.92	22.1	0		
1.4	QPSK	1	5	20.81	20.94	20.79				
1.4	QPSK	3	0	21.04	21.17	21.04				
1.4	QPSK	3	1	20.99	21.12	21.04				
1.4	QPSK	3	3	20.89	21.07	21.02	22.1	0		
1.4	QPSK	6	0	21.05	21.08	21.02				
1.4	16QAM	1	0	21.08	21.24	21.05				
1.4	16QAM	1	3	21.05	21.22	21.14	22.1	0		
1.4	16QAM	1	5	21.08	21.21	21.05				
1.4	16QAM	3	0	21.05	21.14	20.99				
1.4	16QAM	3	1	21.00	21.12	20.96				
1.4	16QAM	3	3	20.88	21.10	20.88	22.1	0		
1.4	16QAM	6	0	20.98	21.09	20.95				
1.4	84QAM	1	0	21.09	21.17	21.11				
1.4	84QAM	1	3	21.07	21.26	21.08	22.1	0		
1.4	84QAM	1	5	20.89	21.15	20.90				
1.4	84QAM	3	0	21.01	21.17	21.02				
1.4	84QAM	3	1	21.00	21.16	21.01	22.1	0		
1.4	84QAM	3	3	21.01	21.16	21.03				
1.4	84QAM	6	0	20.99	21.08	20.94	22.1	0		

Band 7_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	18.55	18.68	18.55				
20	QPSK	1	49	18.50	18.61	18.53	19	0		
20	QPSK	1	99	18.52	18.55	18.52				
20	QPSK	50	0	18.52	18.63	18.57				
20	QPSK	50	24	18.50	18.57	18.45				
20	QPSK	50	50	18.49	18.56	18.43	19	0		
20	QPSK	100	0	18.43	18.54	18.44				
20	16QAM	1	0	18.53	18.62	18.60				
20	16QAM	1	49	18.54	18.62	18.54	19	0		
20	16QAM	1	99	18.48	18.60	18.50				
20	16QAM	50	0	18.82	18.62	18.54				
20	16QAM	50	24	18.5						



DS13

Band 2_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				18700	18900	19100				
20	QPSK	1	0	18.01	18.11	18.03	19	0		
20	QPSK	1	49	17.90	17.98	17.96				
15	QPSK	1	99	17.89	17.95	17.98				
20	QPSK	50	0	17.99	18.08	18.03				
20	QPSK	50	24	17.89	17.95	17.91				
20	QPSK	50	50	17.98	18.05	17.95	19	0		
20	QPSK	100	0	17.97	17.98	17.95				
20	16QAM	1	0	17.98	17.97	17.94				
20	16QAM	1	49	17.84	18.05	17.92	19	0		
20	16QAM	1	99	17.89	17.95	17.90				
20	16QAM	50	0	17.91	18.05	18.02				
20	16QAM	50	24	17.91	18.02	18.03				
20	16QAM	50	50	17.84	18.08	17.94	19	0		
20	16QAM	100	0	17.96	18.01	18.01				
20	64QAM	1	0	17.97	18.02	17.93				
20	64QAM	1	49	17.97	18.00	17.92	19	0		
20	64QAM	1	99	17.98	17.95	17.90				
20	64QAM	50	0	17.87	18.03	17.93				
20	64QAM	50	24	17.86	17.95	17.90	19	0		
20	64QAM	50	50	17.92	17.99	17.98				
20	64QAM	100	0	17.96	18.01	17.95				
Channel										
Frequency (MHz)				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	17.92	17.96	18.00	19	0		
15	QPSK	1	37	17.82	17.87	17.87				
15	QPSK	1	74	17.76	17.90	17.84				
15	QPSK	36	0	17.82	17.94	17.99	19	0		
15	QPSK	36	20	17.96	18.05	17.94				
15	QPSK	36	39	17.98	17.93	17.83				
15	QPSK	75	0	17.94	17.91	17.93				
15	16QAM	1	0	17.97	17.91	17.86				
15	16QAM	1	37	17.80	18.01	17.89	19	0		
15	16QAM	1	74	17.76	17.90	17.84				
15	16QAM	36	0	17.79	18.00	17.99				
15	16QAM	36	20	17.87	18.00	17.97				
15	16QAM	36	39	17.71	18.04	17.81	19	0		
15	16QAM	75	0	17.70	17.85	17.73				
15	64QAM	1	0	18.04	18.01	17.78				
15	64QAM	1	37	17.70	17.82	17.75	19	0		
15	64QAM	1	74	17.68	17.79	17.74				
15	64QAM	36	0	17.87	17.84	17.81				
15	64QAM	36	20	17.80	17.78	17.89	19	0		
15	64QAM	36	39	17.77	17.98	17.89				
15	64QAM	75	0	17.99	18.08	17.87				
Channel										
Frequency (MHz)				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	17.85	17.96	18.01	19	0		
10	QPSK	1	25	17.87	17.89	17.86				
10	QPSK	1	49	17.84	17.85	17.74				
10	QPSK	25	0	17.87	17.92	17.94	19	0		
10	QPSK	25	12	17.88	18.01	17.93				
10	QPSK	25	25	17.98	17.97	17.87				
10	QPSK	50	0	17.84	17.98	17.83				
10	16QAM	1	0	17.97	17.88	17.81				
10	16QAM	1	25	17.83	18.05	17.99	19	0		
10	16QAM	1	49	17.85	18.06	17.84				
10	16QAM	25	0	17.87	17.95	17.94				
10	16QAM	25	12	17.86	17.93	17.93				
10	16QAM	25	25	17.73	18.07	17.84	19	0		
10	16QAM	50	0	17.95	17.98	18.05				
10	64QAM	1	0	17.70	17.74	17.83				
10	64QAM	1	25	17.85	18.03	17.66	19	0		
10	64QAM	1	49	17.86	17.96	17.73				
10	64QAM	25	0	17.86	17.81	17.81				
10	64QAM	25	12	17.86	17.94	17.73				
10	64QAM	25	25	17.77	18.04	17.99	19	0		
10	64QAM	50	0	17.70	18.02	17.99				
Channel										
Frequency (MHz)				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	17.89	17.98	17.92	19	0		
5	QPSK	1	12	17.89	17.89	17.93				
5	QPSK	1	24	17.93	17.90	17.75				
5	QPSK	12	0	17.86	17.87	17.86	19	0		
5	QPSK	12	7	17.86	18.01	17.94				
5	QPSK	12	13	17.98	18.00	17.91				
5	QPSK	25	0	17.91	17.93	17.82				
5	16QAM	1	0	17.87	17.86	17.88				
5	16QAM	1	12	17.73	17.99	17.95	19	0		
5	16QAM	1	24	17.80	18.06	17.84				
5	16QAM	12	0	17.82	17.94	17.93				
5	16QAM	12	7	17.80	17.97	18.01				
5	16QAM	12	13	17.74	18.02	17.91	19	0		
5	16QAM	25	0	17.96	17.82	18.03				
5	64QAM	1	0	17.90	18.10	17.97				
5	64QAM	1	12	17.74	17.91	17.83	19	0		
5	64QAM	1	24	17.99	17.80	17.78				
5	64QAM	12	0	17.82	17.82	17.86				
5	64QAM	12	7	17.66	17.80	17.72				
5	64QAM	12	13	17.72	18.02	17.96	19	0		
5	64QAM	25	0	17.70	17.96	18.03				
Channel										
Frequency (MHz)				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	18.01	18.01	17.84	19	0		
3	QPSK	1	8	17.82	17.89	17.86				
3	QPSK	1	14	17.96	17.88	17.81				
3	QPSK	8	0	17.85	17.87	17.86	19	0		
3	QPSK	8	4	17.86	18.01	17.86				
3	QPSK	8	7	17.96	17.94	17.91				
3	QPSK	15	0	17.88	17.89	17.92				
3	16QAM	1	0	17.85	17.89	17.93				
3	16QAM	1	8	17.77	17.96	17.89	19	0		
3	16QAM	1	14	17.87	18.05	17.94				
3	16QAM	8	0	17.79	17.96	17.94				
3	16QAM	8	4	17.83	17.96	18.03				
3	16QAM	8	7	17.78	18.06	17.83	19	0		
3	16QAM	15	0	17.70	17.77	18.01				
3	64QAM	1	0	17.94	17.76	17.85				
3	64QAM	1	8	17.71	17.88	17.99	19	0		
3	64QAM	1	14	17.86	17.85	17.78				
3	64QAM	8	0	17.85	17.87	17.86				
3	64QAM	8	4	17.82	18.02	17.84				
3	64QAM	8	7	17.89	17.81	17.78	19	0		
3	64QAM	15	0	17.84	18.07	17.83				
Channel										
Frequency (MHz)				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	17.97	17.95	17.90	19	0		
1.4	QPSK	1	3	17.85	17.89	17.94				
1.4	QPSK	1	5	17.94	17.95	17.77				
1.4	QPSK	3	0	17.81	17.90	18.01	19	0		
1.4	QPSK	3	1	17.81	17.90	17.96				
1.4	QPSK	3	3	17.98	17.93	17.82				
1.4	QPSK	6	0	17.87	17.95	17.86	19	0		
1.4	16QAM	1	0	17.98	17.92	17.81				
1.4	16QAM	1	3	17.81	18.01	17.98				
1.4	16QAM	1	5	17.82	18.07	17.87	19	0		
1.4	16QAM	3	0	17.88	17.97	17.83				
1.4	16QAM	3	1	17.81	18.00	18.01				
1.4	16QAM	3	3	17.80	18.01	17.85				
1.4	16QAM	6	0	17.78	17.99	17.77	19	0		
1.4	64QAM	1	0	17.74	17.80	17.75				
1.4	64QAM	1	3	17.92	17.73	17.97				
1.4	64QAM	1	5	17.92	17.75	17.96	19	0		
1.4	64QAM	3	0	17.84	17.89	17.89				
1.4	64QAM									



Band 4_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.54	24.69	24.56	25.6	0		
20	QPSK	1	49	24.53	24.62	24.53				
20	QPSK	1	99	24.53	24.54	24.53				
20	QPSK	50	0	23.54	23.66	23.61	24.6	1		
20	QPSK	50	24	23.51	23.61	23.53				
20	QPSK	50	50	23.45	23.57	23.42				
20	QPSK	100	0	23.53	23.60	23.55	24.6	1		
20	16QAM	1	0	23.57	23.65	23.61				
20	16QAM	1	49	23.43	23.47	23.38				
20	16QAM	1	99	23.42	23.48	23.54	23.6	2		
20	16QAM	50	0	22.50	22.52	22.43				
20	16QAM	50	24	22.35	22.32	22.33				
20	16QAM	50	50	22.35	22.32	22.33	23.6	2		
20	16QAM	100	0	22.52	22.57	22.55				
20	16QAM	100	0	22.48	22.56	22.51				
20	64QAM	1	49	22.37	22.34	22.38	23.6	2		
20	64QAM	1	99	22.45	22.48	22.52				
20	64QAM	50	0	21.41	21.48	21.54				
20	64QAM	50	24	21.30	21.31	21.23	22.6	3		
20	64QAM	50	50	21.32	21.23	21.28				
20	64QAM	100	0	21.52	21.55	21.47				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.45	24.54	24.43	25.6	0		
15	QPSK	1	37	24.47	24.59	24.39				
15	QPSK	1	74	24.37	24.50	24.42				
15	QPSK	36	0	23.39	23.61	23.53	24.6	1		
15	QPSK	36	20	23.45	23.48	23.48				
15	QPSK	36	39	23.30	23.47	23.37				
15	QPSK	75	0	23.50	23.52	23.43	24.6	1		
15	16QAM	1	0	23.52	23.53	23.48				
15	16QAM	1	37	23.29	23.34	23.39				
15	16QAM	1	74	23.33	23.43	23.40	23.6	2		
15	16QAM	36	0	22.45	22.44	22.39				
15	16QAM	36	20	22.29	22.17	22.19				
15	16QAM	36	39	22.30	22.24	22.25	23.6	2		
15	16QAM	75	0	22.48	22.48	22.41				
15	16QAM	1	0	22.41	22.41	22.40				
15	64QAM	1	37	22.30	22.25	22.24	23.6	2		
15	64QAM	1	74	22.42	22.39	22.43				
15	64QAM	36	0	21.28	21.34	21.45				
15	64QAM	36	20	21.21	21.21	21.16	22.6	3		
15	64QAM	36	39	21.21	21.16	21.20				
15	64QAM	75	0	21.46	21.47	21.42				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.49	24.59	24.49	25.6	0		
10	QPSK	1	25	24.42	24.54	24.43				
10	QPSK	1	49	24.39	24.46	24.43				
10	QPSK	25	0	23.45	23.51	23.54	24.6	1		
10	QPSK	25	12	23.43	23.53	23.41				
10	QPSK	25	25	23.37	23.52	23.37				
10	QPSK	50	0	23.49	23.54	23.51	24.6	1		
10	16QAM	1	0	23.45	23.61	23.56				
10	16QAM	1	25	23.38	23.34	23.36				
10	16QAM	1	49	23.28	23.37	23.41	23.6	2		
10	16QAM	25	0	22.42	22.49	22.30				
10	16QAM	25	12	22.25	22.22	22.25				
10	16QAM	25	25	22.30	22.19	22.20	23.6	2		
10	16QAM	50	0	22.40	22.45	22.43				
10	64QAM	1	0	22.41	22.49	22.47				
10	64QAM	1	25	22.31	22.29	22.26	23.6	2		
10	64QAM	1	49	22.42	22.35	22.44				
10	64QAM	25	0	21.26	21.35	21.47				
10	64QAM	25	12	21.25	21.23	21.10	22.6	3		
10	64QAM	25	25	21.18	21.17	21.25				
10	64QAM	50	0	21.46	21.49	21.35				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.40	24.65	24.52	25.6	0		
5	QPSK	1	12	24.47	24.48	24.41				
5	QPSK	1	24	24.36	24.49	24.38				
5	QPSK	12	0	23.40	23.54	23.54	24.6	1		
5	QPSK	12	7	23.48	23.47	23.46				
5	QPSK	12	13	23.35	23.45	23.34				
5	QPSK	25	0	23.38	23.52	23.34	24.6	1		
5	16QAM	1	0	23.52	23.59	23.54				
5	16QAM	1	12	23.34	23.36	23.38				
5	16QAM	1	24	23.36	23.34	23.30	23.6	2		
5	16QAM	12	0	22.36	22.48	22.37				
5	16QAM	12	7	22.26	22.24	22.21				
5	16QAM	12	13	22.29	22.19	22.21	23.6	2		
5	16QAM	25	0	22.40	22.45	22.41				
5	64QAM	1	0	22.40	22.46	22.38				
5	64QAM	1	12	22.26	22.20	22.26	23.6	2		
5	64QAM	1	24	22.43	22.44	22.45				
5	64QAM	12	0	21.27	21.39	21.44				
5	64QAM	12	7	21.27	21.18	21.19	22.6	3		
5	64QAM	12	13	21.24	21.10	21.13				
5	64QAM	25	0	21.45	21.45	21.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.48	24.65	24.54	25.6	0		
3	QPSK	1	8	24.43	24.51	24.48				
3	QPSK	1	14	24.34	24.43	24.46				
3	QPSK	8	0	23.38	23.51	23.53	24.6	1		
3	QPSK	8	4	23.43	23.49	23.49				
3	QPSK	8	7	23.30	23.42	23.32				
3	QPSK	15	0	23.43	23.53	23.50	24.6	1		
3	16QAM	1	0	23.49	23.54	23.51				
3	16QAM	1	8	23.32	23.36	23.39				
3	16QAM	1	14	23.34	23.44	23.42	23.6	2		
3	16QAM	8	0	22.42	22.44	22.34				
3	16QAM	8	4	22.21	22.21	22.24				
3	16QAM	8	7	22.23	22.19	22.18	23.6	2		
3	16QAM	15	0	22.41	22.52	22.50				
3	64QAM	1	0	22.44	22.52	22.38				
3	64QAM	1	8	22.29	22.29	22.31	23.6	2		
3	64QAM	1	14	22.41	22.37	22.40				
3	64QAM	8	0	21.35	21.39	21.41				
3	64QAM	8	4	21.27	21.20	21.10	22.6	3		
3	64QAM	8	7	21.25	21.15	21.18				
3	64QAM	15	0	21.39	21.42	21.44				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.48	24.64	24.53	25.6	0		
1.4	QPSK	1	3	24.40	24.56	24.38				
1.4	QPSK	1	5	24.34	24.40	24.42				
1.4	QPSK	3	0	24.37	24.51	24.57	24.6	1		
1.4	QPSK	3	1	24.48	24.56	24.39				
1.4	QPSK	3	3	24.41	24.46	24.35				
1.4	QPSK	6	0	23.45	23.55	23.44	24.6	1		
1.4	16QAM	1	0	23.53	23.53	23.54				
1.4	16QAM	1	3	23.33	23.34	23.32				
1.4	16QAM	1	5	23.32	23.40	23.50	24.6	1		
1.4	16QAM	3	0	23.42	23.48	23.40				
1.4	16QAM	3	1	23.21	23.17	23.19				
1.4	16QAM	3	3	23.20	23.18	23.25	23.6	2		
1.4	16QAM	6	0	22.41	22.48	22.52				
1.4	64QAM	1	0	22.39	22.45	22.41				
1.4	64QAM	1	3	22.24	22.20	22.27	23.6	2		
1.4	64QAM	1	5	22.43	22.33	22.38				
1.4	64QAM	3	0	22.33	22.30	22.41				
1.4	64QAM	3	1	22.20	22.24	22.10	22.6	3		
1.4	64QAM	3	3	22.26	22.14	22.15				
1.4	64QAM	6	0	21.38	21.51	21.37				

Band 7_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.31	22.44	22.29	23	0		
20	QPSK	1	49	22.29	22.35	22.25				
20	QPSK	1	99	22.28	22.42	22.27				
20	QPSK	50	0	22.34	22.38	22.29	23	0		
20	QPSK	50	24	22.33	22.37	22.28				
20	QPSK	50	50	22.32	22.37	22.26				
20	QPSK	100	0	22.38	22.40	22.27	23	0		



Band 2_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				1870	1890	1910				
20	QPSK	1	0	12.55	12.85	12.55	13.5	0		
20	QPSK	1	49	12.54	12.64	12.42				
20	QPSK	1	99	12.45	12.55	12.63				
20	QPSK	50	0	12.57	12.83	12.51				
20	QPSK	50	24	12.53	12.59	12.46				
20	QPSK	50	50	12.52	12.56	12.41	13.5	0		
20	QPSK	100	0	12.41	12.50	12.38				
20	16QAM	1	0	12.62	12.57	12.44				
20	16QAM	1	49	12.47	12.58	12.43	13.5	0		
20	16QAM	1	99	12.45	12.52	12.59				
20	16QAM	50	0	12.44	12.59	12.62				
20	16QAM	50	24	12.53	12.48	12.50				
20	16QAM	50	50	12.58	12.54	12.39	13.5	0		
20	16QAM	100	0	12.53	12.55	12.49				
20	16QAM	100	49	12.45	12.57	12.54				
20	16QAM	100	99	12.47	12.52	12.52	13.5	0		
20	84QAM	1	0	12.39	12.49	12.37				
20	84QAM	50	24	12.53	12.58	12.63				
20	84QAM	50	50	12.58	12.54	12.56	13.5	0		
20	84QAM	100	0	12.40	12.51	12.52				
Channel										
Frequency (MHz)				1867.5	1890	1912.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	12.54	12.55	12.51	13.5	0		
15	QPSK	1	37	12.52	12.61	12.42				
15	QPSK	1	74	12.39	12.48	12.48				
15	QPSK	36	0	12.55	12.57	12.51				
15	QPSK	36	20	12.49	12.50	12.42	13.5	0		
15	QPSK	36	39	12.43	12.51	12.34				
15	QPSK	75	0	12.29	12.46	12.28				
15	16QAM	1	0	12.52	12.47	12.34				
15	16QAM	1	37	12.44	12.55	12.37	13.5	0		
15	16QAM	1	74	12.39	12.44	12.39				
15	16QAM	36	0	12.38	12.53	12.60				
15	16QAM	36	20	12.47	12.40	12.44	13.5	0		
15	16QAM	36	39	12.49	12.46	12.27				
15	16QAM	75	0	12.49	12.47	12.45				
15	84QAM	1	0	12.35	12.53	12.45				
15	84QAM	1	37	12.32	12.50	12.46	13.5	0		
15	84QAM	1	74	12.36	12.42	12.42				
15	84QAM	36	0	12.36	12.45	12.25				
15	84QAM	36	20	12.46	12.55	12.56				
15	84QAM	36	39	12.54	12.46	12.48	13.5	0		
15	84QAM	75	0	12.33	12.39	12.49				
Channel										
Frequency (MHz)				1865	1880	1905	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	12.56	12.58	12.43	13.5	0		
10	QPSK	1	25	12.49	12.59	12.42				
10	QPSK	1	49	12.44	12.46	12.45				
10	QPSK	25	0	12.48	12.53	12.53	13.5	0		
10	QPSK	25	12	12.50	12.47	12.39				
10	QPSK	25	25	12.48	12.53	12.33				
10	QPSK	50	0	12.29	12.48	12.28				
10	16QAM	1	0	12.53	12.49	12.35				
10	16QAM	1	25	12.41	12.56	12.31	13.5	0		
10	16QAM	1	49	12.39	12.44	12.39				
10	16QAM	25	0	12.34	12.50	12.57				
10	16QAM	25	12	12.43	12.45	12.47	13.5	0		
10	16QAM	25	25	12.49	12.43	12.30				
10	16QAM	50	0	12.47	12.43	12.37				
10	84QAM	1	0	12.40	12.52	12.47				
10	84QAM	1	25	12.39	12.43	12.40	13.5	0		
10	84QAM	1	49	12.35	12.44	12.47				
10	84QAM	25	0	12.34	12.38	12.29				
10	84QAM	25	12	12.43	12.46	12.61				
10	84QAM	25	25	12.55	12.48	12.47	13.5	0		
10	84QAM	50	0	12.34	12.49	12.41				
Channel										
Frequency (MHz)				1862.5	1880	1917.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	12.42	12.61	12.47	13.5	0		
5	QPSK	1	12	12.45	12.58	12.42				
5	QPSK	1	24	12.45	12.44	12.42				
5	QPSK	12	0	12.50	12.47	12.38	13.5	0		
5	QPSK	12	7	12.44	12.48	12.38				
5	QPSK	12	13	12.41	12.45	12.39				
5	QPSK	25	0	12.30	12.48	12.33				
5	16QAM	1	0	12.59	12.52	12.36				
5	16QAM	1	12	12.41	12.46	12.36	13.5	0		
5	16QAM	1	24	12.40	12.45	12.28				
5	16QAM	12	0	12.40	12.47	12.35				
5	16QAM	12	7	12.42	12.36	12.38	13.5	0		
5	16QAM	12	13	12.52	12.52	12.27				
5	16QAM	25	0	12.43	12.48	12.40				
5	84QAM	1	0	12.41	12.51	12.51				
5	84QAM	1	12	12.40	12.46	12.46	13.5	0		
5	84QAM	1	24	12.35	12.51	12.48				
5	84QAM	12	0	12.36	12.47	12.35				
5	84QAM	12	7	12.45	12.56	12.54				
5	84QAM	12	13	12.52	12.42	12.53	13.5	0		
5	84QAM	25	0	12.37	12.40	12.50				
Channel										
Frequency (MHz)				1861.5	1880	1918.5	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	12.46	12.57	12.45	13.5	0		
3	QPSK	1	8	12.45	12.56	12.49				
3	QPSK	1	14	12.41	12.49	12.43				
3	QPSK	8	0	12.45	12.55	12.54	13.5	0		
3	QPSK	8	4	12.51	12.50	12.43				
3	QPSK	8	7	12.50	12.48	12.34				
3	QPSK	15	0	12.30	12.44	12.34				
3	16QAM	1	0	12.54	12.45	12.37				
3	16QAM	1	8	12.44	12.56	12.33	13.5	0		
3	16QAM	1	14	12.41	12.41	12.35				
3	16QAM	8	0	12.32	12.56	12.60				
3	16QAM	8	4	12.51	12.46	12.45	13.5	0		
3	16QAM	8	7	12.53	12.50	12.37				
3	16QAM	15	0	12.41	12.51	12.38				
3	84QAM	1	0	12.39	12.46	12.51				
3	84QAM	1	8	12.35	12.43	12.45	13.5	0		
3	84QAM	1	14	12.36	12.54	12.44				
3	84QAM	8	0	12.35	12.39	12.25				
3	84QAM	8	4	12.48	12.52	12.53				
3	84QAM	8	7	12.50	12.45	12.52	13.5	0		
3	84QAM	15	0	12.33	12.42	12.48				
Channel										
Frequency (MHz)				1860.7	1880	1919.3	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	12.49	12.61	12.46	13.5	0		
1.4	QPSK	1	3	12.44	12.59	12.41				
1.4	QPSK	1	5	12.43	12.53	12.47				
1.4	QPSK	3	0	12.49	12.55	12.39	13.5	0		
1.4	QPSK	3	1	12.43	12.47	12.40				
1.4	QPSK	3	3	12.46	12.50	12.36				
1.4	QPSK	6	0	12.29	12.46	12.34	13.5	0		
1.4	16QAM	1	0	12.51	12.48	12.37				
1.4	16QAM	1	3	12.37	12.53	12.40				
1.4	16QAM	1	5	12.43	12.45	12.30	13.5	0		
1.4	16QAM	3	0	12.32	12.57	12.35				
1.4	16QAM	3	1	12.42	12.48	12.40				
1.4	16QAM	3	3	12.49	12.47	12.28	13.5	0		
1.4	16QAM	6	0	12.35	12.45	12.39				
1.4	84QAM	1	0	12.36	12.53	12.48				
1.4	84QAM	1	3	12.38	12.43	12.47	13.5	0		
1.4	84QAM	1	5	12.41	12.53	12.43				
1.4	84QAM	3	0	12.37	12.40	12.35				
1.4	84QAM	3								



Band 4_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	18.66	18.76	18.87	19.6	0	
20	QPSK	1	49	18.63	18.70	18.80			
20	QPSK	1	99	18.44	18.75	18.81			
20	QPSK	50	0	18.61	18.71	18.81			
20	QPSK	50	24	18.63	18.73	18.85			
20	QPSK	50	50	18.59	18.69	18.82	19.6	0	
20	QPSK	100	0	18.60	18.69	18.80			
20	16QAM	1	0	18.67	18.67	18.59			
20	16QAM	1	49	18.60	18.64	18.57	19.6	0	
20	16QAM	1	99	18.71	18.75	18.67			
20	16QAM	50	0	18.58	18.70	18.58			
20	16QAM	50	24	18.63	18.75	18.64			
20	16QAM	50	50	18.60	18.68	18.64	19.6	0	
20	16QAM	100	0	18.59	18.67	18.56			
20	64QAM	1	0	18.66	18.71	18.65			
20	64QAM	1	49	18.71	18.74	18.65	19.6	0	
20	64QAM	1	99	18.64	18.63	18.56			
20	64QAM	50	0	18.57	18.67	18.58			
20	64QAM	50	24	18.66	18.71	18.68	19.6	0	
20	64QAM	50	50	18.57	18.66	18.57			
20	64QAM	100	0	18.65	18.68	18.64			
Channel									
Frequency (MHz)				20025	20175	20325			
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	18.57	18.67	18.64	19.6	0	
15	QPSK	1	37	18.52	18.63	18.50			
15	QPSK	1	74	18.36	18.38	18.43			
15	QPSK	36	0	18.56	18.67	18.58	19.6	0	
15	QPSK	36	20	18.54	18.67	18.58			
15	QPSK	36	39	18.49	18.63	18.59			
15	QPSK	75	0	18.56	18.58	18.48	19.6	0	
15	16QAM	1	0	18.49	18.53	18.49			
15	16QAM	1	37	18.52	18.56	18.51	19.6	0	
15	16QAM	1	74	18.51	18.57	18.56			
15	16QAM	36	0	18.50	18.67	18.50	19.6	0	
15	16QAM	36	20	18.54	18.65	18.52			
15	16QAM	36	39	18.54	18.58	18.58			
15	16QAM	75	0	18.55	18.64	18.51	19.6	0	
15	64QAM	1	0	18.54	18.61	18.57			
15	64QAM	1	37	18.67	18.62	18.54	19.6	0	
15	64QAM	1	74	18.51	18.57	18.56			
15	64QAM	36	0	18.52	18.59	18.54	19.6	0	
15	64QAM	36	20	18.63	18.59	18.65			
15	64QAM	36	39	18.52	18.62	18.45	19.6	0	
15	64QAM	75	0	18.62	18.61	18.53			
Channel									
Frequency (MHz)				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	18.61	18.68	18.61	19.6	0	
10	QPSK	1	25	18.60	18.58	18.50			
10	QPSK	1	49	18.40	18.38	18.32			
10	QPSK	25	0	18.56	18.66	18.53	19.6	0	
10	QPSK	25	12	18.54	18.68	18.62			
10	QPSK	25	25	18.50	18.58	18.55			
10	QPSK	50	0	18.51	18.57	18.54	19.6	0	
10	16QAM	1	0	18.49	18.63	18.55			
10	16QAM	1	25	18.55	18.61	18.50	19.6	0	
10	16QAM	1	49	18.62	18.38	18.62			
10	16QAM	25	0	18.53	18.64	18.51	19.6	0	
10	16QAM	25	12	18.51	18.67	18.56			
10	16QAM	25	25	18.55	18.57	18.53			
10	16QAM	50	0	18.48	18.59	18.48	19.6	0	
10	64QAM	1	0	18.58	18.66	18.61			
10	64QAM	1	25	18.65	18.69	18.57	19.6	0	
10	64QAM	1	49	18.48	18.54	18.47			
10	64QAM	25	0	18.47	18.57	18.44	19.6	0	
10	64QAM	25	12	18.61	18.60	18.57			
10	64QAM	25	25	18.52	18.61	18.52			
10	64QAM	50	0	18.53	18.56	18.57	19.6	0	
Channel									
Frequency (MHz)				19975	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	18.56	18.69	18.62	19.6	0	
5	QPSK	1	12	18.51	18.62	18.51			
5	QPSK	1	24	18.33	18.38	18.31			
5	QPSK	12	0	18.54	18.61	18.56	19.6	0	
5	QPSK	12	7	18.55	18.61	18.56			
5	QPSK	12	13	18.47	18.64	18.58			
5	QPSK	25	0	18.53	18.63	18.53	19.6	0	
5	16QAM	1	0	18.52	18.55	18.54			
5	16QAM	1	12	18.48	18.58	18.51	19.6	0	
5	16QAM	1	24	18.61	18.66	18.64			
5	16QAM	12	0	18.47	18.59	18.55	19.6	0	
5	16QAM	12	7	18.53	18.71	18.52			
5	16QAM	12	13	18.48	18.59	18.48	19.6	0	
5	16QAM	25	0	18.56	18.63	18.60			
5	64QAM	1	0	18.60	18.68	18.61	19.6	0	
5	64QAM	1	12	18.62	18.69	18.61			
5	64QAM	1	24	18.55	18.52	18.53			
5	64QAM	12	0	18.53	18.59	18.51	19.6	0	
5	64QAM	12	7	18.59	18.61	18.63			
5	64QAM	12	13	18.51	18.60	18.49	19.6	0	
5	64QAM	25	0	18.58	18.61	18.54			
Channel									
Frequency (MHz)				19965	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	18.59	18.65	18.57	19.6	0	
3	QPSK	1	8	18.55	18.59	18.49			
3	QPSK	1	14	18.32	18.38	18.36			
3	QPSK	8	0	18.58	18.68	18.56	19.6	0	
3	QPSK	8	4	18.53	18.61	18.56			
3	QPSK	8	7	18.56	18.66	18.58			
3	QPSK	15	0	18.50	18.61	18.53	19.6	0	
3	16QAM	1	0	18.53	18.56	18.48			
3	16QAM	1	8	18.54	18.80	18.45	19.6	0	
3	16QAM	1	14	18.66	18.66	18.64			
3	16QAM	8	0	18.55	18.63	18.56	19.6	0	
3	16QAM	8	4	18.59	18.63	18.59			
3	16QAM	8	7	18.55	18.60	18.61			
3	16QAM	15	0	18.52	18.63	18.44	19.6	0	
3	64QAM	1	0	18.60	18.63	18.61			
3	64QAM	1	8	18.66	18.71	18.57	19.6	0	
3	64QAM	1	14	18.53	18.56	18.50			
3	64QAM	8	0	18.57	18.67	18.52	19.6	0	
3	64QAM	8	4	18.61	18.62	18.65			
3	64QAM	8	7	18.52	18.60	18.50	19.6	0	
3	64QAM	15	0	18.61	18.58	18.55			
Channel									
Frequency (MHz)				19957	20175	20393			
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	18.55	18.73	18.58	19.6	0	
1.4	QPSK	1	3	18.59	18.58	18.50			
1.4	QPSK	1	5	18.35	18.41	18.34			
1.4	QPSK	3	0	18.58	18.67	18.52	19.6	0	
1.4	QPSK	3	1	18.65	18.65	18.56			
1.4	QPSK	3	3	18.49	18.58	18.50			
1.4	QPSK	6	0	18.53	18.64	18.48	19.6	0	
1.4	16QAM	1	0	18.48	18.61	18.55			
1.4	16QAM	1	3	18.52	18.56	18.48	19.6	0	
1.4	16QAM	1	5	18.65	18.72	18.64			
1.4	16QAM	3	0	18.54	18.59	18.46	19.6	0	
1.4	16QAM	3	1	18.56	18.68	18.56			
1.4	16QAM	3	3	18.49	18.63	18.57			
1.4	16QAM	6	0	18.52	18.63	18.48	19.6	0	
1.4	64QAM	1	0	18.57	18.65	18.54			
1.4	64QAM	1	3	18.61	18.63	18.60	19.6	0	
1.4	64QAM	1	5	18.53	18.60	18.47			
1.4	64QAM	3	0	18.47	18.56	18.52	19.6	0	
1.4	64QAM	3	1	18.56	18.68	18.57			
1.4	64QAM	3	3	18.53	18.56	18.52			



Default Power for EN-DC LTE

Band 2_Ant 1													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	23.61	23.88	23.63	24.5	0					
20	QPSK	1	49	23.50	23.58	23.36							
20	QPSK	1	99	23.58	23.66	23.44							
20	QPSK	50	0	22.55	22.86	22.59							
20	QPSK	50	24	22.39	22.54	22.49	23.5	1					
20	QPSK	50	50	22.52	22.53	22.38							
20	QPSK	100	0	22.38	22.52	22.42							
20	16QAM	1	0	22.59	22.62	22.62							
20	16QAM	1	49	22.56	22.61	22.60	23.5	1					
20	16QAM	1	99	22.50	22.60	22.54							
20	16QAM	50	0	21.46	21.55	21.45							
20	16QAM	50	24	21.55	21.64	21.61							
20	16QAM	50	50	21.44	21.46	21.33	22.5	2					
20	16QAM	100	0	21.43	21.52	21.52							
20	64QAM	1	0	21.45	21.57	21.48							
20	64QAM	1	49	21.61	21.62	21.50							
20	64QAM	1	99	21.39	21.53	21.48	22.5	2					
20	64QAM	50	0	20.49	20.55	20.52							
20	64QAM	50	24	20.61	20.71	20.66							
20	64QAM	50	50	20.54	20.55	20.46							
20	64QAM	100	0	20.52	20.51	20.42	21.5	3					
Channel													
Frequency (MHz)													
15	QPSK	1	0	23.58	23.65	23.68			24.5	0			
15	QPSK	1	37	23.37	23.53	23.36							
15	QPSK	1	74	23.42	23.46	23.46							
15	QPSK	36	0	22.39	22.53	22.33							
15	QPSK	36	20	22.13	22.32	22.34	23.5	1					
15	QPSK	36	39	22.40	22.39	22.35							
15	QPSK	75	0	22.19	22.41	22.49							
15	16QAM	1	0	22.37	22.59	22.46							
15	16QAM	1	37	22.62	22.58	22.43	23.5	1					
15	16QAM	1	74	22.63	22.42	22.37							
15	16QAM	36	0	21.46	21.48	21.41							
15	16QAM	36	20	21.50	21.63	21.47							
15	16QAM	36	39	21.27	21.47	21.41	22.5	2					
15	16QAM	75	0	21.41	21.32	21.58							
15	64QAM	1	0	21.25	21.53	21.30							
15	64QAM	1	37	21.56	21.69	21.25							
15	64QAM	1	74	21.31	21.31	21.30	22.5	2					
15	64QAM	36	0	20.44	20.39	20.31							
15	64QAM	36	20	20.50	20.54	20.65							
15	64QAM	36	39	20.45	20.62	20.19							
15	64QAM	75	0	20.32	20.49	20.46	21.5	3					
Channel													
Frequency (MHz)													
10	QPSK	1	0	23.34	23.66	23.48			24.5	0			
10	QPSK	1	25	23.24	23.59	23.38							
10	QPSK	1	49	23.30	23.36	23.18							
10	QPSK	25	0	22.44	22.39	22.53							
10	QPSK	25	12	22.28	22.28	22.55	23.5	1					
10	QPSK	25	25	22.30	22.60	22.34							
10	QPSK	50	0	22.31	22.24	22.41							
10	16QAM	1	0	22.37	22.46	22.43							
10	16QAM	1	25	22.62	22.89	22.58	23.5	1					
10	16QAM	1	49	22.62	22.75	22.51							
10	16QAM	25	0	21.31	21.59	21.17							
10	16QAM	25	12	21.29	21.41	21.58							
10	16QAM	25	25	21.17	21.43	21.26	22.5	2					
10	16QAM	50	0	21.18	21.34	21.28							
10	64QAM	1	0	21.24	21.53	21.36							
10	64QAM	1	25	21.65	21.40	21.52							
10	64QAM	1	49	21.29	21.48	21.47	22.5	2					
10	64QAM	12	0	20.27	20.59	20.31							
10	64QAM	25	12	20.61	20.67	20.59							
10	64QAM	25	25	20.59	20.63	20.45							
10	64QAM	50	0	20.48	20.43	20.36	21.5	3					
Channel													
Frequency (MHz)													
5	QPSK	1	0	23.61	23.61	23.53			24.5	0			
5	QPSK	1	12	23.45	23.41	23.48							
5	QPSK	1	24	23.30	23.51	23.43							
5	QPSK	12	0	22.58	22.49	22.46							
5	QPSK	12	7	22.42	22.48	22.22	23.5	1					
5	QPSK	12	13	22.39	22.44	22.26							
5	QPSK	25	0	22.10	22.55	22.16							
5	16QAM	1	0	22.48	22.40	22.61							
5	16QAM	1	12	22.60	22.45	22.36	23.5	1					
5	16QAM	1	24	22.61	22.54	22.50							
5	16QAM	12	0	21.50	21.38	21.41							
5	16QAM	12	7	21.63	21.51	21.33							
5	16QAM	12	13	21.36	21.40	21.14	22.5	2					
5	16QAM	25	0	21.34	21.54	21.40							
5	64QAM	1	0	21.35	21.54	21.23							
5	64QAM	1	12	21.66	21.36	21.49							
5	64QAM	1	24	21.38	21.30	21.47	22.5	2					
5	64QAM	12	0	20.56	20.46	20.48							
5	64QAM	12	7	20.34	20.53	20.63							
5	64QAM	12	13	20.50	20.53	20.20							
5	64QAM	25	0	20.28	20.32	20.24	21.5	3					
Channel													
Frequency (MHz)													
1867.5	QPSK	1	0	23.60	23.63	23.46			24.5	0			
1867.5	QPSK	1	8	23.55	23.56	23.31							
1867.5	QPSK	1	14	23.32	23.40	23.21							
1867.5	QPSK	8	0	22.83	22.67	22.84							
1867.5	QPSK	8	4	22.25	22.46	22.49	23.5	1					
1867.5	QPSK	8	7	22.38	22.35	22.46							
1867.5	QPSK	15	0	22.18	22.56	22.24							
1867.5	16QAM	1	0	22.49	22.69	22.44							
1867.5	16QAM	1	8	22.51	22.35	22.45	23.5	1					
1867.5	16QAM	1	14	22.60	22.64	22.57							
1867.5	16QAM	8	0	21.36	21.46	21.53							
1867.5	16QAM	8	21	21.36	21.67	21.56							
1867.5	16QAM	8	7	21.30	21.34	21.41	22.5	2					
1867.5	16QAM	15	0	21.28	21.38	21.29							
1867.5	64QAM	1	0	21.35	21.44	21.39							
1867.5	64QAM	1	8	21.58	21.58	21.46							
1867.5	64QAM	1	14	21.39	21.42	21.51	22.5	2					
1867.5	64QAM	8	0	20.54	20.44	20.54							
1867.5	64QAM	8	4	20.57	20.45	20.63							
1867.5	64QAM	8	7	20.33	20.55	20.28							
1867.5	64QAM	15	0	20.55	20.26	20.16	21.5	3					
Channel													
Frequency (MHz)													
1867.5	QPSK	1	0	23.47	23.54	23.61			24.5	0			
1867.5	QPSK	1	3	23.50	23.44	23.43							
1867.5	QPSK	1	5	23.34	23.40	23.43							
1867.5	QPSK	3	0	23.35	23.31	23.30							
1867.5	QPSK	3	1	23.14	23.35	23.29	23.5	1					
1867.5	QPSK	3	3	23.42	23.40	23.15							
1867.5	QPSK	6	0	22.22	22.31	22.50							
1867.5	16QAM	1	0	22.32	22.45	22.42							
1867.5	16QAM	1	3	22.35	22.46	22.59	23.5	1					
1867.5	16QAM	1	5	22.39	22.40	22.48							
1867.5	16QAM	3	0	22.28	22.44	22.11							
1867.5	16QAM	3	1	22.17	22.35	22.33							
1867.5	16QAM	3	3	22.18	22.23	22.11	22.5	2					
1867.5	16QAM	6	0	21.19	21.50	21.36							
1867.5	64QAM	1	0	21.46	21.34	21.30							
1867.5	64QAM	1	3	21.80	21.45	21.32							
1867.5	64QAM	1	5	21.36	21.43	21.50	22.5	2					
1867.5	64QAM	3	0	21.46	21.46	21.24							
1867.5	64QAM	3	1	21.31	21.36	21.43							
1867.5	64QAM	3	3	21.46	21.29	21.38							
1867.5	64QAM	6	0	20.26	20.47	20.41	21.5	3					

Band 2_Ant 3													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	23.15	23.20	23.03	24.5	0					
20	QPSK	1	49	23.12	23.12	22.99							
20	QPSK	1	99	23.10	23.10	22.95							
20	QPSK	50	0	22.18	22.21	22.15							
20	QPSK	50	24	22.03	22.16	22.12	23.5	1					
20	QPSK	50	50	21.98	22.12	22.01							
20	QPSK	100	0	21.97	22.10	22.07							
20	16QAM	1	0	22.03	22.16	22.04							
20	16QAM	1	49	22.20	22.26	22.18	23.5	1					
20	16QAM	1	99	21.88	22.03	21.98							
20	16QAM	50	0	21.04	21.09	20.99							
20	16QAM	50	24	21.08	21.19	21.16							
20	16QAM	50	50	21.16	21.16	21.05	22.5	2					
20	16QAM	100	0	21.01	21.07	21.02							
20	64QAM	1	0	21.02	21.04	21.03							
20	64QAM	1	49	21.20	21.23	21.08							
20	64QAM	1	99	21.00	21.00	20.99	22.5	2					
20	64QAM	50	0	20.01	20.16	20.15							
20	64QAM	50	24	20.14	20.16	20.04							
20	64QAM	50	50	19.93	20.08	20.00							
20	64QAM	100	0	19.99	20.07	20.04	21.5	3					
Channel													
Frequency (MHz)													
15	QPSK	1	0	23.12	23.17	22.93			24.5	0			
15	QPSK	1	37	23.17	23.12	23.04							
15	QPSK	1	74	23.08	23.02	22.84							
15	QPSK	36	0	22.11	22.15	22.07							
15	QPSK	36	20	21.77	22.16	21.98	23.5	1					
15	QPSK	36	39	21.79	22.16	21.93							
15	QPSK	75	0	21.72	22.12	21.99							



Band 5_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	24.64	24.67	24.68				
10	QPSK	1	25	24.55	24.61	24.62	25.5	0		
10	QPSK	1	49	24.62	24.63	24.60				
10	QPSK	25	0	23.25	23.63	23.60				
10	QPSK	25	12	23.41	23.52	23.42	24.5	1		
10	QPSK	25	25	23.62	23.62	23.59				
10	QPSK	50	0	23.52	23.60	23.53				
10	16QAM	1	0	23.72	23.75	23.60				
10	16QAM	1	25	23.61	23.72	23.59	24.5	1		
10	16QAM	1	49	23.62	23.71	23.63				
10	16QAM	25	0	22.43	22.53	22.45				
10	16QAM	25	12	22.47	22.62	22.50	23.5	2		
10	16QAM	25	25	22.50	22.63	22.63				
10	16QAM	50	0	22.52	22.57	22.47				
10	64QAM	1	0	22.59	22.67	22.64				
10	64QAM	1	25	22.65	22.65	22.63	23.5	2		
10	64QAM	1	49	22.66	22.58	22.44				
10	64QAM	25	0	21.42	21.54	21.45				
10	64QAM	25	12	21.62	21.63	21.48	22.5	3		
10	64QAM	25	25	21.59	21.66	21.59				
10	64QAM	50	0	21.49	21.58	21.54				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	24.59	24.64	24.53				
5	QPSK	1	12	24.53	24.65	24.67	25.5	0		
5	QPSK	1	24	24.63	24.53	24.37				
5	QPSK	12	0	23.29	23.58	23.54				
5	QPSK	12	7	23.29	23.43	23.34	24.5	1		
5	QPSK	12	13	23.57	23.68	23.34				
5	QPSK	25	0	23.44	23.53	23.58				
5	16QAM	1	0	23.80	23.75	23.53				
5	16QAM	1	12	23.65	23.59	23.36	24.5	1		
5	16QAM	1	24	23.62	23.56	23.51				
5	16QAM	12	0	22.39	22.60	22.30				
5	16QAM	12	7	22.46	22.67	22.47	23.5	2		
5	16QAM	12	13	22.24	22.43	22.38				
5	16QAM	25	0	22.37	22.64	22.44				
5	64QAM	1	0	22.63	22.51	22.56				
5	64QAM	1	12	22.61	22.62	22.47	23.5	2		
5	64QAM	1	24	22.63	22.55	22.50				
5	64QAM	12	0	21.50	21.30	21.32				
5	64QAM	12	7	21.36	21.71	21.36	22.5	3		
5	64QAM	12	13	21.35	21.40	21.36				
5	64QAM	25	0	21.41	21.51	21.37				
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	24.40	24.62	24.38				
3	QPSK	1	8	24.38	24.55	24.40	25.5	0		
3	QPSK	1	14	24.47	24.46	24.33				
3	QPSK	8	0	23.47	23.65	23.50				
3	QPSK	8	4	23.39	23.29	23.24	24.5	1		
3	QPSK	8	7	23.54	23.46	23.61				
3	QPSK	15	0	23.30	23.59	23.35				
3	16QAM	1	0	23.55	23.49	23.68				
3	16QAM	1	8	23.62	23.48	23.56	24.5	1		
3	16QAM	1	14	23.47	23.75	23.65				
3	16QAM	8	0	22.50	22.43	22.26				
3	16QAM	8	4	22.49	22.69	22.33	23.5	2		
3	16QAM	8	7	22.52	22.35	22.51				
3	16QAM	15	0	22.28	22.39	22.26				
3	64QAM	1	0	22.34	22.46	22.44				
3	64QAM	1	8	22.65	22.62	22.71	23.5	2		
3	64QAM	1	14	22.36	22.63	22.30				
3	64QAM	8	0	21.45	21.47	21.49				
3	64QAM	8	4	21.46	21.63	21.22	22.5	3		
3	64QAM	8	7	21.35	21.43	21.53				
3	64QAM	15	0	21.44	21.53	21.34				
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	24.59	24.50	24.60				
1.4	QPSK	1	3	24.57	24.59	24.67	25.5	0		
1.4	QPSK	1	5	24.42	24.47	24.65				
1.4	QPSK	3	1	24.29	24.58	24.22				
1.4	QPSK	3	1	24.18	24.50	24.37				
1.4	QPSK	3	3	24.31	24.27	24.21				
1.4	QPSK	6	0	23.60	23.37	23.31	24.5	1		
1.4	16QAM	1	0	23.68	23.74	23.38				
1.4	16QAM	1	3	23.63	23.70	23.52				
1.4	16QAM	1	5	23.68	23.58	23.39	24.5	1		
1.4	16QAM	3	1	23.22	23.49	23.39				
1.4	16QAM	3	1	23.49	23.51	23.25				
1.4	16QAM	3	3	23.39	23.46	23.64				
1.4	16QAM	6	0	22.43	22.51	22.22	23.5	2		
1.4	64QAM	1	0	22.49	22.53	22.58				
1.4	64QAM	1	3	22.42	22.62	22.56				
1.4	64QAM	1	5	22.29	22.38	22.44	23.5	2		
1.4	64QAM	3	1	22.19	22.45	22.49				
1.4	64QAM	3	1	22.64	22.53	22.45				
1.4	64QAM	3	3	22.35	22.46	22.62				
1.4	64QAM	6	0	21.33	21.39	21.48	22.5	3		

Band 7_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	23.50	23.54	23.45			25	0
20	QPSK	1	49	23.40	23.42	23.30				
20	QPSK	1	99	23.42	23.42	23.00				
20	QPSK	50	0	22.62	22.63	22.57				
20	QPSK	50	24	22.21	22.31	22.26	24	1		
20	QPSK	50	50	22.34	22.46	22.43				
20	QPSK	100	0	22.45	22.54	22.41				
20	16QAM	1	0	22.40	22.40	22.27				
20	16QAM	1	49	22.40	22.48	22.39	24	1		
20	16QAM	1	99	22.19	22.33	22.25				
20	16QAM	50	0	21.44	21.45	21.41				
20	16QAM	50	24	21.38	21.50	21.41	23	2		
20	16QAM	50	50	21.36	21.46	21.37				
20	16QAM	100	0	21.50	21.55	21.40				
20	64QAM	1	0	21.26	21.37	21.29				
20	64QAM	1	49	21.48	21.48	21.33	23	2		
20	64QAM	1	99	21.35	21.43	21.31				
20	64QAM	50	0	20.49	20.63	20.53				
20	64QAM	50	24	20.38	20.47	20.34	22	3		
20	64QAM	50	50	20.38	20.49	20.48				
20	64QAM	100	0	20.35	20.44	20.44				
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	23.39	23.51	23.50			25	0
15	QPSK	1	37	23.44	23.43	23.25				
15	QPSK	1	74	23.36	23.17	23.02				
15	QPSK	36	0	22.45	22.49	22.29				
15	QPSK	36	20	22.29	22.22	22.30	24	1		
15	QPSK	36	39	22.21	22.18	22.25				
15	QPSK	75	0	22.17	22.40	22.21				
15	16QAM	1	0	22.27	22.17	22.29				
15	16QAM	1	37	22.26	22.44	22.17	24	1		
15	16QAM	1	74	22.03	22.41	22.02				
15	16QAM	36	0	21.22	21.36	21.36				
15	16QAM	36	20	21.18	21.50	21.26	23	2		
15	16QAM	36	39	21.32	21.46	21.30				
15	16QAM	75	0	21.25	21.63	21.44				
15	64QAM	1	0	21.29	21.17	21.11				
15	64QAM	1	37	21.55	21.40	21.40	23	2		
15	64QAM	1	74	21.40	21.49	21.22				
15	64QAM	36	0	20.22	20.48	20.34				
15	64QAM	36	20	20.12	20.48	20.09	22	3		
15	64QAM	36	39	20.26	20.30	20.35				
15	64QAM	75	0	20.10	20.25	20.38				
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	23.42	23.29	23.21				
10	QPSK	1	25	23.44	23.44	23.24	25	0		
10	QPSK	1	49	23.36	23.29	23.01				
10	QPSK	25	0	22.37	22.64	22.49				
10	QPSK	25	12	22.04	22.26	22.02	24	1		
10	QPSK	25	25	22.29	22.52	22.48				
10	QPSK	50	0	22.51	22.41	22.36				
10	16QAM	1	0	22.16	22.23	22.27				
10	16QAM	1	25	22.36	22.35	22.32	24	1		
10	16QAM</									



Band 7_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	24.68	24.71	24.66				
20	QPSK	1	49	24.62	24.70	24.65	25.5	0		
20	QPSK	1	99	24.60	24.68	24.62				
20	QPSK	50	0	23.85	23.90	23.82				
20	QPSK	50	24	23.66	23.81	23.81				
20	QPSK	50	50	23.80	23.84	23.81	24.5	1		
20	QPSK	100	0	23.73	23.86	23.76				
20	16QAM	1	0	23.76	23.80	23.75				
20	16QAM	1	49	23.93	23.95	23.89	24.5	1		
20	16QAM	1	99	23.84	23.85	23.84				
20	16QAM	50	0	22.77	22.87	22.80				
20	16QAM	50	24	22.69	22.84	22.76				
20	16QAM	50	50	22.80	22.86	22.82	23.5	2		
20	16QAM	100	0	22.75	22.81	22.66				
20	16QAM	1	0	22.65	22.77	22.65				
20	64QAM	1	49	22.85	22.90	22.83	23.5	2		
20	64QAM	1	99	22.84	22.76	22.88				
20	64QAM	50	0	21.88	21.90	21.76				
20	64QAM	50	24	21.71	21.79	21.78	22.5	3		
20	64QAM	50	50	21.73	21.82	21.73				
20	64QAM	100	0	21.75	21.81	21.79				
Channel										
Frequency (MHz)				20825	21100	21375				
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	24.61	24.68	24.48				
15	QPSK	1	37	24.38	24.67	24.66	25.5	0		
15	QPSK	1	74	24.41	24.65	24.43				
15	QPSK	36	0	23.71	23.83	23.81				
15	QPSK	36	20	23.59	23.70	23.89	24.5	1		
15	QPSK	36	39	23.54	23.83	23.84				
15	QPSK	75	0	23.48	23.73	23.83				
15	16QAM	1	0	23.63	23.59	23.71				
15	16QAM	1	37	23.80	23.99	23.88	24.5	1		
15	16QAM	1	74	24.41	24.65	24.43				
15	16QAM	36	0	22.55	22.65	22.60				
15	16QAM	36	20	22.72	22.78	22.52				
15	16QAM	36	39	22.64	22.94	22.62	23.5	2		
15	16QAM	75	0	22.53	22.55	22.57				
15	64QAM	1	0	22.38	22.80	22.50				
15	64QAM	1	37	22.84	22.72	22.76	23.5	2		
15	64QAM	1	74	22.63	22.55	22.43				
15	64QAM	36	0	21.86	21.71	21.59				
15	64QAM	36	20	21.47	21.80	21.84	22.5	3		
15	64QAM	36	39	21.78	21.86	21.53				
15	64QAM	75	0	21.81	21.84	21.59				
Channel										
Frequency (MHz)				20800	21100	21400				
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	24.49	24.54	24.40				
10	QPSK	1	25	24.57	24.65	24.40	25.5	0		
10	QPSK	1	49	24.59	24.63	24.56				
10	QPSK	25	0	23.68	23.78	23.79				
10	QPSK	25	12	23.48	23.66	23.61	24.5	1		
10	QPSK	25	25	23.72	23.75	23.73				
10	QPSK	50	0	23.62	23.93	23.56				
10	16QAM	1	0	23.50	23.73	23.78				
10	16QAM	1	25	23.71	23.91	23.73	24.5	1		
10	16QAM	1	49	23.75	23.86	23.76				
10	16QAM	25	0	22.51	22.84	22.55				
10	16QAM	25	12	22.67	22.84	22.59				
10	16QAM	25	25	22.87	22.79	22.62	23.5	2		
10	16QAM	50	0	22.77	22.71	22.70				
10	64QAM	1	0	22.68	22.79	22.55				
10	64QAM	1	25	22.89	22.78	22.83	23.5	2		
10	64QAM	1	49	22.73	22.55	22.72				
10	64QAM	25	0	21.93	21.91	21.59				
10	64QAM	25	12	21.54	21.78	21.74	22.5	3		
10	64QAM	25	25	21.80	21.60	21.51				
10	64QAM	50	0	21.78	21.88	21.79				
Channel										
Frequency (MHz)				20775	21100	21425				
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	24.40	24.66	24.38				
5	QPSK	1	12	24.38	24.66	24.63	25.5	0		
5	QPSK	1	24	24.39	24.48	24.70				
5	QPSK	12	0	23.69	23.84	23.62				
5	QPSK	12	7	23.53	23.63	23.71	24.5	1		
5	QPSK	12	13	23.77	23.65	23.69				
5	QPSK	25	0	23.75	23.70	23.64				
5	16QAM	1	0	23.49	23.83	23.75				
5	16QAM	1	12	23.77	23.83	23.75	24.5	1		
5	16QAM	1	24	23.70	23.58	23.91				
5	16QAM	12	0	22.60	22.95	22.76				
5	16QAM	12	7	22.68	22.60	22.77				
5	16QAM	12	13	22.53	22.87	22.69	23.5	2		
5	16QAM	25	0	22.67	22.61	22.61				
5	64QAM	1	0	22.42	22.74	22.68				
5	64QAM	1	12	22.74	22.64	22.55	23.5	2		
5	64QAM	1	24	22.70	22.69	22.73				
5	64QAM	12	0	21.74	21.70	21.53				
5	64QAM	12	7	21.68	21.84	21.71	22.5	3		
5	64QAM	12	13	21.50	21.84	21.68				
5	64QAM	25	0	21.52	21.75	21.66				

Band 7_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	23.70	23.75	23.65				
20	QPSK	1	49	23.58	23.69	23.58	25.5	0		
20	QPSK	1	99	23.61	23.62	23.50				
20	QPSK	50	0	22.58	22.73	22.54				
20	QPSK	50	24	22.56	22.66	22.63				
20	QPSK	50	50	22.55	22.62	22.61	24.5	1		
20	QPSK	100	0	22.54	22.61	22.56				
20	16QAM	1	0	22.70	22.70	22.55				
20	16QAM	1	49	22.65	22.65	22.59	24.5	1		
20	16QAM	1	99	22.80	22.65	22.59				
20	16QAM	50	0	21.82	21.82	21.57				
20	16QAM	50	24	21.51	21.66	21.62	23.5	2		
20	16QAM	50	50	21.56	21.61	21.60				
20	16QAM	100	0	21.72	21.77	21.63				
20	64QAM	1	0	21.58	21.73	21.63				
20	64QAM	1	49	21.61	21.71	21.58	23.5	2		
20	64QAM	1	99	21.66	21.84	21.61				
20	64QAM	50	0	20.85	20.70	20.56				
20	64QAM	50	24	20.62	20.67	20.58	22.5	3		
20	64QAM	50	50	20.55	20.70	20.61				
20	64QAM	100	0	20.52	20.63	20.59				
Channel										
Frequency (MHz)				20825	21100	21375				
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	23.72	23.60	23.52				
15	QPSK	1	37	23.52	23.53	23.60	25.5	0		
15	QPSK	1	74	23.70	23.67	23.55				
15	QPSK	36	0	22.80	22.86	22.64				
15	QPSK	36	20	22.53	22.96	22.61	24.5	1		
15	QPSK	36	39	22.81	22.67	22.77				
15	QPSK	75	0	22.68	22.67	22.77				
15	16QAM	1	0	22.84	22.97	22.62				
15	16QAM	1	37	22.76	22.68	22.59	24.5	1		
15	16QAM	1	74	22.96	22.86	22.58				
15	16QAM	36	0	21.73	21.72	21.51				
15	16QAM	36	20	21.5						



Band 12_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.46	24.51	24.45	25.5	0		
10	QPSK	1	25	24.40	24.41	24.43				
10	QPSK	1	49	24.33	24.35	24.35				
10	QPSK	25	0	23.43	23.53	23.40				
10	QPSK	25	12	23.33	23.37	23.33	24.5	1		
10	QPSK	25	25	23.31	23.42	23.37				
10	QPSK	50	0	23.42	23.50	23.37				
10	16QAM	1	0	23.52	23.60	23.54	24.5	1		
10	16QAM	1	25	23.37	23.59	23.46				
10	16QAM	1	49	23.62	23.61	23.41				
10	16QAM	25	0	22.46	22.55	22.44				
10	16QAM	25	12	22.41	22.41	22.28	23.5	2		
10	16QAM	25	25	22.41	22.43	22.31				
10	16QAM	50	0	22.40	22.49	22.42				
10	64QAM	1	0	22.35	22.48	22.34				
10	64QAM	1	25	22.52	22.58	22.55	23.5	2		
10	64QAM	1	49	22.40	22.41	22.41				
10	64QAM	25	0	21.51	21.56	21.43				
10	64QAM	25	12	21.29	21.42	21.29	22.5	3		
10	64QAM	25	25	21.30	21.40	21.40				
10	64QAM	50	0	21.31	21.46	21.34				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	24.28	24.47	24.29	25.5	0		
5	QPSK	1	12	24.14	24.27	24.46				
5	QPSK	1	24	24.05	24.34	24.34				
5	QPSK	12	0	23.18	23.25	23.38				
5	QPSK	12	7	23.10	23.20	23.38	24.5	1		
5	QPSK	12	13	23.22	23.28	23.43				
5	QPSK	25	0	23.35	23.24	23.34				
5	16QAM	1	0	23.26	23.43	23.35	24.5	1		
5	16QAM	1	12	23.09	23.35	23.23				
5	16QAM	1	24	23.05	23.34	23.34				
5	16QAM	12	0	22.44	22.28	22.20				
5	16QAM	12	7	22.19	22.45	22.38	23.5	2		
5	16QAM	12	13	22.40	22.50	22.18				
5	16QAM	25	0	22.36	22.27	22.17				
5	64QAM	1	0	22.28	22.23	22.33	23.5	2		
5	64QAM	1	12	22.25	22.45	22.62				
5	64QAM	1	24	22.35	22.31	22.41				
5	64QAM	12	0	21.38	21.43	21.20				
5	64QAM	12	7	21.37	21.35	21.08	22.5	3		
5	64QAM	12	13	21.30	21.25	21.39				
5	64QAM	25	0	21.39	21.41	21.33				
Channel				23025	23095	23165				
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	24.48	24.48	24.40	25.5	0		
3	QPSK	1	8	24.38	24.42	24.49				
3	QPSK	1	14	24.36	24.19	24.17				
3	QPSK	8	0	23.21	23.30	23.28				
3	QPSK	8	4	23.11	23.28	23.07	24.5	1		
3	QPSK	8	7	23.09	23.15	23.41				
3	QPSK	15	0	23.35	23.24	23.24				
3	16QAM	1	0	23.42	23.50	23.51	24.5	1		
3	16QAM	1	8	23.25	23.56	23.54				
3	16QAM	1	14	23.50	23.53	23.42				
3	16QAM	8	0	22.23	22.33	22.38				
3	16QAM	8	4	22.19	22.30	22.19	23.5	2		
3	16QAM	8	7	22.28	22.46	22.28				
3	16QAM	15	0	22.41	22.24	22.40				
3	64QAM	1	0	22.15	22.34	22.09	23.5	2		
3	64QAM	1	8	22.35	22.58	22.48				
3	64QAM	1	14	22.31	22.15	22.47				
3	64QAM	8	0	21.51	21.41	21.22				
3	64QAM	8	4	21.27	21.35	21.30	22.5	3		
3	64QAM	8	7	21.31	21.44	21.23				
3	64QAM	15	0	21.04	21.50	21.28				
Channel				23017	23095	23173				
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	24.45	24.47	24.45	25.5	0		
1.4	QPSK	1	3	24.34	24.44	24.32				
1.4	QPSK	1	5	24.30	24.22	24.30				
1.4	QPSK	3	0	24.32	24.32	24.10				
1.4	QPSK	3	3	24.04	24.13	24.30	24.5	1		
1.4	QPSK	6	0	23.26	23.43	23.23				
1.4	16QAM	1	0	23.38	23.51	23.36				
1.4	16QAM	1	3	23.44	23.54	23.41	24.5	1		
1.4	16QAM	1	5	23.58	23.55	23.19				
1.4	16QAM	3	0	23.29	23.37	23.09				
1.4	16QAM	3	1	23.32	23.35	23.22	23.5	2		
1.4	16QAM	3	3	23.11	23.41	23.18				
1.4	16QAM	6	0	22.19	22.49	22.39	23.5	2		
1.4	64QAM	1	0	22.19	22.50	22.40				
1.4	64QAM	1	3	22.47	22.43	22.30	23.5	2		
1.4	64QAM	1	5	22.21	22.19	22.24				
1.4	64QAM	3	0	22.46	22.46	22.08				
1.4	64QAM	3	1	22.05	22.30	22.25	22.5	3		
1.4	64QAM	3	3	22.24	22.29	22.19				
1.4	64QAM	6	0	21.05	21.20	21.08	22.5	3		

Band 12_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	23.67	23.70	23.65	25	0		
10	QPSK	1	25	23.60	23.67	23.62				
10	QPSK	1	49	23.63	23.65	23.64				
10	QPSK	25	0	22.71	22.80	22.65				
10	QPSK	25	12	22.48	22.63	22.48	24	1		
10	QPSK	25	25	22.62	22.67	22.55				
10	QPSK	50	0	22.66	22.76	22.72				
10	16QAM	1	0	22.55	22.62	22.59	24	1		
10	16QAM	1	25	22.64	22.73	22.69				
10	16QAM	1	49	21.57	21.61	21.48				
10	16QAM	25	0	21.67	21.80	21.79				
10	16QAM	25	12	21.54	21.56	21.42	23	2		
10	16QAM	25	25	21.49	21.51	21.41				
10	16QAM	50	0	21.63	21.68	21.65				
10	64QAM	1	0	21.50	21.65	21.50				
10	64QAM	1	25	21.58	21.71	21.57	23	2		
10	64QAM	1	49	21.57	21.61	21.48				
10	64QAM	25	0	20.72	20.86	20.76				
10	64QAM	25	12	20.40	20.54	20.39	22	3		
10	64QAM	25	25	20.58	20.60	20.52				
10	64QAM	50	0	20.48	20.61	20.46				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	23.58	23.63	23.51	25	0		
5	QPSK	1	12	23.61	23.55	23.42				
5	QPSK	1	24	23.65	23.67	23.54				
5	QPSK	12	0	22.74	22.70	22.49				
5	QPSK	12	7	22.25	22.53	22.45	24	1		
5	QPSK	12	13	22.49	22.71	22.39				
5	QPSK	25	0	22.54	22.51	22.57				
5	16QAM	1	0	22.61	22.43	22.63	24	1		
5	16QAM	1	12	22.53	22.48	22.45				
5	16QAM	1	24	23.65	23.67	23.54				
5	16QAM	12	0	21.75	21.56	21.86				
5	16QAM	12	7	21.43	21.39	21.38	23	2		
5	16QAM	12	13	21.45	21.54	21.37				
5	16QAM	25	0	21.37	21.43	21.43				
5	64QAM	1	0	2						



Band 66_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	Channel	Frequency (MHz)
				132072	132322	132572				
				1720	1745	1770				
20	QPSK	1	0	24.01	24.07	24.12	25	0		
20	QPSK	1	49	24.01	24.07	24.08				
20	QPSK	1	99	23.94	23.92	24.00				
20	QPSK	50	0	23.01	23.04	23.23				
20	QPSK	50	24	22.88	22.95	22.90				
20	QPSK	50	50	22.89	22.92	22.77				
20	QPSK	100	0	22.96	22.97	22.84				
20	16QAM	1	0	23.11	23.17	23.14				
20	16QAM	1	49	23.05	23.10	23.06				
20	16QAM	1	99	22.91	22.92	22.92				
20	16QAM	50	0	21.90	22.01	21.93				
20	16QAM	50	24	21.88	21.97	21.94				
20	16QAM	50	50	21.79	21.94	21.79				
20	16QAM	100	0	21.79	21.94	21.91				
20	64QAM	1	0	21.77	21.92	21.78				
20	64QAM	1	49	22.04	22.06	22.01				
20	64QAM	1	99	21.87	21.84	21.77				
20	64QAM	50	0	20.98	21.02	20.90				
20	64QAM	50	24	20.86	20.96	20.94				
20	64QAM	50	50	20.78	20.92	20.81				
20	64QAM	100	0	20.85	20.96	20.96				
				132047	132322	132597				
				1717.5	1745	1772.5				
15	QPSK	1	0	23.96	24.16	24.14	24	1		
15	QPSK	1	37	23.94	24.04	24.12				
15	QPSK	1	74	23.88	23.98	23.98				
15	QPSK	36	0	22.80	22.77	22.75				
15	QPSK	36	20	22.89	23.03	22.83				
15	QPSK	36	39	22.88	22.75	22.80				
15	QPSK	75	0	23.00	22.96	22.57				
15	16QAM	1	0	22.89	23.13	22.99				
15	16QAM	1	37	23.03	23.17	22.83				
15	16QAM	1	74	22.98	22.97	22.93				
15	16QAM	36	0	21.89	21.97	21.97				
15	16QAM	36	20	21.85	21.80	21.92				
15	16QAM	36	39	21.52	21.96	21.53				
15	16QAM	75	0	21.78	21.66	21.88				
15	64QAM	1	0	21.62	21.74	21.62				
15	64QAM	1	37	21.87	21.90	21.87				
15	64QAM	1	74	21.56	21.86	21.56				
15	64QAM	36	0	20.70	20.95	20.74				
15	64QAM	36	20	20.77	20.69	20.96				
15	64QAM	36	39	20.82	20.79	20.81				
15	64QAM	75	0	20.69	20.92	20.94				
				132022	132322	132622				
				1715	1745	1775				
10	QPSK	1	0	23.96	24.12	23.86	25	0		
10	QPSK	1	25	23.78	24.08	24.14				
10	QPSK	1	49	23.88	23.75	23.83				
10	QPSK	25	0	22.86	22.72	22.85				
10	QPSK	25	12	22.88	22.72	22.86				
10	QPSK	25	25	22.81	22.65	22.74				
10	QPSK	50	0	23.04	23.00	22.88				
10	16QAM	1	0	22.89	23.03	23.03				
10	16QAM	1	25	23.01	23.14	22.96				
10	16QAM	1	49	22.79	22.99	22.95				
10	16QAM	25	0	21.74	21.96	21.83				
10	16QAM	25	12	21.86	21.95	21.73				
10	16QAM	25	25	21.86	21.69	21.87				
10	16QAM	50	0	21.85	21.67	21.86				
10	64QAM	1	0	21.84	21.64	21.84				
10	64QAM	1	25	21.84	21.90	22.02				
10	64QAM	1	49	21.68	21.74	21.52				
10	64QAM	25	0	20.86	20.93	20.81				
10	64QAM	25	12	20.90	20.73	20.92				
10	64QAM	25	25	20.51	20.95	20.88				
10	64QAM	50	0	20.70	20.72	20.72				
				131997	132322	132647				
				1712.5	1745	1777.5				
5	QPSK	1	0	23.92	24.15	23.96	25	0		
5	QPSK	1	12	23.74	24.09	23.94				
5	QPSK	1	24	23.87	23.78	23.88				
5	QPSK	12	0	23.07	22.94	23.00				
5	QPSK	12	7	22.80	22.74	22.89				
5	QPSK	12	13	22.75	22.68	22.77				
5	QPSK	25	0	22.83	23.01	22.70				
5	16QAM	1	0	22.96	23.02	22.95				
5	16QAM	1	12	23.03	23.17	22.99				
5	16QAM	1	24	22.88	22.88	22.74				
5	16QAM	12	0	21.62	21.89	21.65				
5	16QAM	12	7	21.79	21.70	21.72				
5	16QAM	12	13	21.65	21.98	21.78				
5	16QAM	25	0	21.54	21.75	21.66				
5	64QAM	1	0	21.73	21.94	21.83				
5	64QAM	1	12	22.07	21.88	21.94				
5	64QAM	1	24	21.71	21.92	21.63				
5	64QAM	12	0	21.02	20.91	20.96				
5	64QAM	12	7	20.85	20.90	20.73				
5	64QAM	12	13	20.57	20.94	20.86				
5	64QAM	25	0	20.83	21.03	20.86				
				131987	132322	132657				
				1711.5	1745	1778.5				
3	QPSK	1	0	24.06	24.05	23.98	25	0		
3	QPSK	1	8	23.83	23.85	23.94				
3	QPSK	1	14	23.91	23.65	23.98				
3	QPSK	8	0	23.03	22.94	23.07				
3	QPSK	8	4	22.91	22.94	22.98				
3	QPSK	8	7	22.84	22.98	22.81				
3	QPSK	15	0	22.81	22.83	22.75				
3	16QAM	1	0	23.04	23.16	22.94				
3	16QAM	1	8	22.78	22.87	22.79				
3	16QAM	1	14	22.66	22.85	22.66				
3	16QAM	8	0	21.62	21.96	21.65				
3	16QAM	8	4	21.81	21.76	21.73				
3	16QAM	8	7	21.62	21.98	21.71				
3	16QAM	15	0	21.58	22.01	21.68				
3	64QAM	1	0	21.81	21.68	21.51				
3	64QAM	1	8	21.88	21.82	21.77				
3	64QAM	1	14	21.60	21.61	21.54				
3	64QAM	8	0	21.02	20.85	20.96				
3	64QAM	8	4	20.77	20.83	20.87				
3	64QAM	8	7	20.72	20.70	20.55				
3	64QAM	15	0	20.70	20.80	20.74				
				131979	132322	132665				
				1710.7	1745	1779.3				
1.4	QPSK	1	0	23.91	24.10	24.12	25	0		
1.4	QPSK	1	3	24.06	23.89	24.05				
1.4	QPSK	1	5	23.76	23.97	23.87				
1.4	QPSK	3	0	23.69	24.00	23.74				
1.4	QPSK	3	1	23.67	23.87	23.85				
1.4	QPSK	3	3	23.73	23.71	23.69				
1.4	QPSK	6	0	22.87	22.78	22.88				
1.4	16QAM	1	0	22.97	23.03	23.13				
1.4	16QAM	1	3	23.13	23.14	23.05				
1.4	16QAM	1	5	22.70	22.70	22.92				
1.4	16QAM	3	0	22.72	22.78	22.76				
1.4	16QAM	3	1	22.70	22.89	22.78				
1.4	16QAM	3	3	22.61	22.63	22.70				
1.4	16QAM	6	0	21.58	21.80	21.65				
1.4	64QAM	1	0	21.68	21.65	21.63				
1.4	64QAM	1	3	21.79	22.01	21.84				
1.4	64QAM	1	5	21.68	21.90	21.74				
1.4	64QAM	3	0	21.91	21.78	21.77				
1.4	64QAM	3	1	21.62	21.87	21.87				
1.4	64QAM	3	3	21.61	21.62	21.71				
1.4	64QAM	6	0	20.93	20.98	20.84				

Band 66_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	Channel	Frequency (MHz)
				132072	132322	132572				
				1720	1745	1770				
20	QPSK	1	0	23.09	23.21	23.07	24.2	0		
20	QPSK	1	49	22.98	23.12	23.05				
20	QPSK	1	99	23.00	23.03	23.04				
20	QPSK	50	0	22.05	22.15	22.15				
20	QPSK	50	24	22.01	22.16	22.10				
20	QPSK	50	50	22.00	22.12	22.05				
20	QPSK	100	0	22.05	22.14	22.09				
20	16QAM	1	0	21.91	22.18	21.95				
20	16QAM	1	49	22.25	22.20	21.96				
20	16QAM	1	99	22.14	22.10	22.00				
20	16QAM	50	0	21.26	21.18	21.17				
20	16QAM	50	24	20.93	21.21	21.28				
20	16QAM	50	50	20.91	21.15	21.13				
20	16QAM	100	0	21.13	21.14	20.91				
20	64QAM	1	0	20.94	21.13	20.92				



Band 38_Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				37850	38000	38150						
				2580	2595	2610						
20	QPSK	1	0	22.39	22.62	22.53						
20	QPSK	1	49	22.48	22.51	22.44			23.7	0		
20	QPSK	1	99	22.47	22.35	22.30						
20	QPSK	50	0	21.72	21.74	21.68						
20	QPSK	50	24	21.66	21.70	21.68						
20	QPSK	50	50	21.69	21.71	21.65			22.7	1		
20	QPSK	100	0	21.67	21.72	21.70						
20	16QAM	1	0	21.53	21.66	21.63						
20	16QAM	1	49	21.70	21.70	21.63			22.7	1		
20	16QAM	1	99	21.53	21.63	21.50						
20	16QAM	50	0	20.69	20.77	20.72						
20	16QAM	50	24	20.76	20.82	20.78			21.7	2		
20	16QAM	50	50	20.69	20.77	20.66						
20	16QAM	100	0	20.76	20.82	20.81						
20	64QAM	1	0	20.56	20.67	20.66						
20	64QAM	1	49	20.70	20.74	20.66			21.7	2		
20	64QAM	1	99	20.64	20.66	20.54						
20	64QAM	50	0	20.06	20.10	20.06						
20	64QAM	50	24	20.16	20.18	20.14			20.7	3		
20	64QAM	50	50	20.14	20.21	20.20						
20	64QAM	100	0	20.08	20.20	20.16						
Channel												
Frequency (MHz)				37825	38000	38175						
				2577.5	2595	2612.5						
15	QPSK	1	0	22.32	22.48	22.54						
15	QPSK	1	37	22.24	22.29	22.44			23.7	0		
15	QPSK	1	74	22.30	22.18	22.16						
15	QPSK	36	0	21.77	21.69	21.66						
15	QPSK	36	20	21.51	21.61	21.61			22.7	1		
15	QPSK	36	39	21.72	21.64	21.43						
15	QPSK	75	0	21.52	21.63	21.77						
15	16QAM	1	0	21.52	21.69	21.73						
15	16QAM	1	37	21.69	21.64	21.55			22.7	1		
15	16QAM	1	74	21.61	21.61	21.57						
15	16QAM	36	0	20.70	20.50	20.53						
15	16QAM	36	20	20.65	20.74	20.67			21.7	2		
15	16QAM	36	39	20.54	20.75	20.39						
15	16QAM	75	0	20.49	20.59	20.73						
15	64QAM	1	0	20.62	20.67	20.63						
15	64QAM	1	37	20.51	20.77	20.65			21.7	2		
15	64QAM	1	74	20.50	20.58	20.40						
15	64QAM	36	0	20.13	20.13	20.01						
15	64QAM	36	20	20.16	19.95	20.16			20.7	3		
15	64QAM	36	39	20.19	20.29	20.11						
15	64QAM	75	0	20.01	20.25	20.08						
Channel												
Frequency (MHz)				37800	38000	38200						
				2575	2595	2615						
10	QPSK	1	0	22.59	22.59	22.47						
10	QPSK	1	25	22.34	22.31	22.26			23.7	0		
10	QPSK	1	49	22.49	22.32	22.19						
10	QPSK	25	0	21.72	21.84	21.85						
10	QPSK	25	12	21.60	21.77	21.58			22.7	1		
10	QPSK	25	25	21.70	21.83	21.59						
10	QPSK	50	0	21.74	21.75	21.48						
10	16QAM	1	0	21.28	21.42	21.74						
10	16QAM	1	25	21.67	21.57	21.63			22.7	1		
10	16QAM	1	49	21.34	21.36	21.53						
10	16QAM	25	0	20.76	20.66	20.51						
10	16QAM	25	12	20.50	20.80	20.78			21.7	2		
10	16QAM	25	25	20.43	20.60	20.69						
10	16QAM	50	0	20.68	20.79	20.59						
10	64QAM	1	0	20.39	20.54	20.52						
10	64QAM	1	25	20.57	20.50	20.44			21.7	2		
10	64QAM	1	49	20.44	20.74	20.33						
10	64QAM	25	0	20.13	20.13	20.02						
10	64QAM	25	12	19.88	20.21	20.05			20.7	3		
10	64QAM	25	25	19.98	20.06	20.21						
10	64QAM	50	0	20.15	20.18	20.01						
Channel												
Frequency (MHz)				37775	38000	38225						
				2572.5	2595	2617.5						
5	QPSK	1	0	22.47	22.50	22.58						
5	QPSK	1	12	22.41	22.31	22.35			23.7	0		
5	QPSK	1	24	22.21	22.10	22.15						
5	QPSK	12	0	21.73	21.83	21.47						
5	QPSK	12	7	21.69	21.48	21.50			22.7	1		
5	QPSK	12	13	21.49	21.72	21.44						
5	QPSK	25	0	21.40	21.71	21.74						
5	16QAM	1	0	21.55	21.48	21.62						
5	16QAM	1	12	21.75	21.43	21.44			22.7	1		
5	16QAM	1	24	21.44	21.49	21.45						
5	16QAM	12	0	20.56	20.67	20.75						
5	16QAM	12	7	20.72	20.67	20.74			21.7	2		
5	16QAM	12	13	20.73	20.70	20.44						
5	16QAM	25	0	20.62	20.76	20.80						
5	64QAM	1	0	20.37	20.70	20.73						
5	64QAM	1	12	20.66	20.53	20.53			21.7	2		
5	64QAM	1	24	20.61	20.52	20.52						
5	64QAM	12	0	19.96	20.16	20.00						
5	64QAM	12	7	20.03	20.08	20.06			20.7	3		
5	64QAM	12	13	20.13	20.22	20.13						
5	64QAM	25	0	19.96	20.16	20.04						

Band 38_Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				37850	38000	38150						
				2580	2595	2610						
20	QPSK	1	0	24.47	24.53	24.52						
20	QPSK	1	49	24.39	24.41	24.50			25.5	0		
20	QPSK	1	99	24.48	24.47	24.35						
20	QPSK	50	0	23.10	23.45	23.42						
20	QPSK	50	24	23.32	23.40	23.35			24.5	1		
20	QPSK	50	50	23.28	23.43	23.29						
20	QPSK	100	0	23.18	23.32	23.27						
20	16QAM	1	0	23.35	23.39	23.37						
20	16QAM	1	49	23.29	23.41	23.40			24.5	1		
20	16QAM	1	99	23.35	23.45	23.31						
20	16QAM	50	0	22.47	22.51	22.38						
20	16QAM	50	24	22.51	22.54	22.39			23.5	2		
20	16QAM	50	50	22.43	22.50	22.46						
20	16QAM	100	0	22.47	22.52	22.39						
20	64QAM	1	0	22.36	22.49	22.47						
20	64QAM	1	49	22.49	22.52	22.52			23.5	2		
20	64QAM	1	99	22.27	22.42	22.27						
20	64QAM	50	0	21.53	21.54	21.48						
20	64QAM	50	24	21.53	21.59	21.50			22.5	3		
20	64QAM	50	50	21.38	21.50	21.44						
20	64QAM	100	0	21.42	21.47	21.46						
Channel												
Frequency (MHz)				37825	38000	38175						
				2577.5	2595	2612.5						
15	QPSK	1	0	24.28	24.32	24.45						
15	QPSK	1	37	24.18	24.35	24.47			25.5	0		
15	QPSK	1	74	24.37	24.25	24.23						
15	QPSK	36	0	23.20	23.46	23.23						
15	QPSK	36	20	23.12	23.39	23.14			24.5	1		
15	QPSK	36	39	23.33	23.28	23.27						
15	QPSK	75	0	23.02	23.34	23.18						
15	16QAM	1	0	23.38	23.44	23.34						
15	16QAM	1	37	23.23	23.28	23.30			24.5	1		
15	16QAM	1	74	23.40	23.42	23.22						
15	16QAM	36	0	22.52	22.49	22.32						
15	16QAM	36	20	22.37	22.62	22.17			23.5	2		
15	16QAM	36	39	22.19	22.37	22.19						
15	16QAM	75	0	22.30	22.37	22.31						
15	64QAM	1	0	22.23	22.37	22.45						
15	64QAM	1	37	22.50	22.59	22.38			23.5	2		
15	64QAM	1	74	22.14	22.29	22.22						
15	64QAM	36	0	21.62	21.66	21.25						
15	64QAM	36	20	21.33	21.36	21.51			22.5	3		
15	64QAM	36	39	21.29	21.54	21.34						
15	64QAM	75	0	21.48	21.25	21.43						
Channel												
Frequency (MHz)				37800	38000	38200						
				2575	2595	2615						
10	QPSK	1	0	24.51	24.43	24.47						
10	QPSK	1	25	24.30	24.43	24.46			25.5	0		
10	QPSK	1	49	24.44	24.50	24.21						
10	QPSK	25	0	23.32	23.28	23.40						
10	QPSK	25	12</									



Band 38_Ant 3									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3780	3800	3810			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.75	23.84	23.69	24.8	0	
20	QPSK	1	49	23.75	23.80	23.63			
20	QPSK	1	99	23.46	23.55	23.44			
20	QPSK	50	0	22.76	22.79	22.73			
20	QPSK	50	24	22.64	22.76	22.69			
20	QPSK	50	50	22.59	22.74	22.66			
20	QPSK	100	0	22.70	22.75	22.65	23.8	1	
20	16QAM	1	0	22.79	22.86	22.73			
20	16QAM	1	49	22.82	22.84	22.86			
20	16QAM	1	99	22.79	22.81	22.70			
20	16QAM	50	0	21.81	21.74	21.60			
20	16QAM	50	24	21.74	21.84	21.73			
20	16QAM	50	50	21.81	21.89	21.76			
20	16QAM	100	0	21.67	21.82	21.68			
20	64QAM	1	0	21.88	21.90	21.85			
20	64QAM	1	49	21.85	21.89	21.87			
20	64QAM	1	99	21.76	21.96	21.77			
20	64QAM	50	0	20.72	20.73	20.65			
20	64QAM	50	24	20.85	20.85	20.77			
20	64QAM	50	50	20.82	20.87	20.80			
20	64QAM	100	0	20.69	20.82	20.77			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.77	23.74	23.55	24.8	0	
15	QPSK	1	37	23.80	23.76	23.52			
15	QPSK	1	74	23.33	23.47	23.36			
15	QPSK	36	0	22.52	22.80	22.69			
15	QPSK	36	39	22.54	22.60	22.59			
15	QPSK	75	0	22.67	22.59	22.48			
15	16QAM	1	0	22.69	22.84	22.66			
15	16QAM	1	37	22.74	22.84	22.77			
15	16QAM	1	74	22.51	22.57	22.57			
15	16QAM	36	0	21.60	21.63	21.62			
15	16QAM	36	20	21.58	21.76	21.59			
15	16QAM	36	39	21.67	21.83	21.67			
15	16QAM	75	0	21.64	21.83	21.68			
15	64QAM	1	0	21.67	21.83	21.67			
15	64QAM	1	37	21.62	21.97	21.71			
15	64QAM	1	74	21.51	21.59	21.54			
15	64QAM	36	0	20.67	20.74	20.65			
15	64QAM	36	20	20.71	20.58	20.85			
15	64QAM	36	39	20.85	20.93	20.63			
15	64QAM	75	0	20.74	20.89	20.87			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.71	23.82	23.73	24.8	0	
10	QPSK	1	25	23.70	23.61	23.47			
10	QPSK	1	49	23.39	23.54	23.50			
10	QPSK	25	0	22.57	22.80	22.80			
10	QPSK	25	12	22.52	22.64	22.61			
10	QPSK	25	25	22.51	22.68	22.52			
10	QPSK	50	0	22.58	22.58	22.59			
10	16QAM	1	0	22.79	22.79	22.72			
10	16QAM	1	25	22.67	22.86	22.80			
10	16QAM	1	49	22.71	22.74	22.53			
10	16QAM	25	0	21.49	21.62	21.54			
10	16QAM	25	12	21.50	21.60	21.70			
10	16QAM	25	25	21.89	21.82	21.55			
10	16QAM	50	0	21.67	21.74	21.69			
10	64QAM	1	0	21.66	21.86	21.66			
10	64QAM	1	25	21.80	21.73	21.78			
10	64QAM	1	49	21.78	21.64	21.57			
10	64QAM	25	0	20.80	20.67	20.61			
10	64QAM	25	12	20.82	20.79	20.50			
10	64QAM	25	25	20.55	20.91	20.72			
10	64QAM	50	0	20.60	20.56	20.71			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.55	23.82	23.76	24.8	0	
5	QPSK	1	12	23.66	23.54	23.71			
5	QPSK	1	24	23.32	23.43	23.32			
5	QPSK	12	0	22.76	22.78	22.65			
5	QPSK	12	7	22.48	22.59	22.61			
5	QPSK	12	13	22.52	22.55	22.54			
5	QPSK	25	0	22.75	22.60	22.65			
5	16QAM	1	0	22.71	22.93	22.65			
5	16QAM	1	12	22.64	22.71	22.89			
5	16QAM	1	24	22.72	22.81	22.74			
5	16QAM	12	0	21.47	21.61	21.44			
5	16QAM	12	7	21.58	21.61	21.62			
5	16QAM	12	13	21.75	21.88	21.72			
5	16QAM	25	0	21.61	21.55	21.69			
5	64QAM	1	0	21.90	21.77	21.75			
5	64QAM	1	12	21.89	21.77	21.75			
5	64QAM	1	24	21.69	21.83	21.82			
5	64QAM	12	0	20.87	20.49	20.68			
5	64QAM	12	7	20.91	20.64	20.56			
5	64QAM	12	13	20.79	20.74	20.77			
5	64QAM	25	0	20.62	20.75	20.71			

Band 41_Ant 0										
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch./ Freq.	Power Low Middle Ch./ Freq.	Power Middle Ch./ Freq.	Power High Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.63	22.54	22.67	22.30	22.48		
20	QPSK	1	49	22.60	22.42	22.56	22.19	22.42	23.3	0
20	QPSK	1	99	22.56	22.47	22.48	22.16	22.42		
20	QPSK	50	0	21.71	21.87	21.73	21.12	21.71		
20	QPSK	50	24	21.62	21.58	21.69	21.63	21.56		
20	QPSK	50	50	21.67	21.61	21.72	21.63	21.63	22.3	1
20	QPSK	100	0	21.62	21.53	21.67	21.58	21.58		
20	16QAM	1	0	21.62	21.68	21.72	21.65	21.61		
20	16QAM	1	49	21.78	21.78	21.82	21.72	21.78	22.3	1
20	16QAM	1	99	21.50	21.61	21.64	21.63	21.60		
20	16QAM	50	0	20.59	20.55	20.59	20.44	20.45		
20	16QAM	50	24	20.65	20.65	20.70	20.57	20.57		
20	16QAM	50	50	20.57	20.70	20.71	20.69	20.71	21.3	2
20	16QAM	100	0	20.61	20.56	20.64	20.61	20.58		
20	64QAM	1	0	20.68	20.53	20.68	20.55	20.55		
20	64QAM	1	49	20.76	20.80	20.82	20.74	20.82	21.3	2
20	64QAM	1	99	20.68	20.65	20.72	20.66	20.66		
20	64QAM	50	0	19.45	19.42	19.57	19.56	19.42		
20	64QAM	50	24	19.51	19.58	19.65	19.61	19.58		
20	64QAM	50	50	19.58	19.52	19.67	19.56	19.58	20.3	3
20	64QAM	100	0	19.55	19.62	19.65	19.58	19.58		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.67	22.35	22.51	22.27	22.54		
15	QPSK	1	37	22.54	22.23	22.51	22.14	22.44	23.3	0
15	QPSK	1	74	22.60	22.42	22.44	22.11	22.13		
15	QPSK	36	0	21.67	21.45	21.70	21.62	21.65		
15	QPSK	36	20	21.53	21.42	21.58	21.57	21.38		
15	QPSK	36	39	21.46	21.64	21.60	21.40	21.55	22.3	1
15	QPSK	75	0	21.52	21.31	21.58	21.30	21.56		
15	16QAM	1	0	21.50	21.60	21.71	21.41	21.43		
15	16QAM	1	37	21.74	21.60	21.68	21.61	21.62	22.3	1
15	16QAM	1	74	21.43	21.59	21.48	21.43	21.44		
15	16QAM	36	0	20.67	20.43	20.63	20.21	20.43		
15	16QAM	36	20	20.58	20.49	20.56	20.41	20.64		
15	16QAM	36	39	20.65	20.71	20.78	20.64	20.60	21.3	2
15	16QAM	75	0	20.68	20.42	20.41	20.41	20.50		
15	64QAM	1	0	20.65	20.45	20.63	20			



Band 41_Ant 2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				39750	40185	40620	41055	41490					
Frequency (MHz)				2506	2549.5	2593	2636.5	2680					
20	QPSK	1	0	23.20	23.10	23.22	23.05	23.13	24.6	0			
20	QPSK	1	49	23.15	23.07	23.17	23.04	23.08					
20	QPSK	1	99	23.19	23.04	23.03	23.01	23.02					
20	QPSK	50	0	23.17	23.16	22.90		23.75					
20	QPSK	50	24	22.09	22.15	22.13	22.08	22.12					
20	QPSK	50	50	22.00	22.02	22.06	22.04	22.14					
20	QPSK	100	0	22.07	22.03	22.15	22.08	22.04					
20	16QAM	1	0	22.33	22.33	22.28	22.23	22.20					
20	16QAM	1	49	22.26	22.33	22.27	22.25	22.06					
20	16QAM	1	99	22.25	22.10	22.23	22.01	22.02					
20	16QAM	50	0	21.04	21.05	21.05	21.05	21.02					
20	16QAM	50	24	21.09	21.10	21.13	21.10	21.06					
20	16QAM	50	50	21.17	21.09	21.17	21.14	21.07					
20	16QAM	100	0	21.06	21.04	21.11	21.05	21.04					
20	64QAM	1	0	21.13	21.09	21.09	21.01	21.00					
20	64QAM	1	49	21.08	21.01	21.15	21.09	21.03					
20	64QAM	1	99	21.07	21.02	21.05	21.08	21.08					
20	64QAM	50	0	20.00	20.03	20.04	20.00	20.04					
20	64QAM	50	24	20.06	20.05	20.13	20.13	20.09					
20	64QAM	50	50	20.11	20.03	20.14	20.18	20.08					
20	64QAM	100	0	20.08	20.09	20.10	20.04	20.12					
Channel				39725	40173	40620	41068	41515					
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5					
15	QPSK	1	0	23.09	23.17	23.09	23.06	23.03	24.6	0			
15	QPSK	1	37	23.03	23.18	23.07	23.05	23.09					
15	QPSK	1	74	23.07	23.05	23.02	23.02	23.09					
15	QPSK	36	0	22.25	22.07	22.07	22.22	22.25					
15	QPSK	36	20	22.06	22.14	22.05	22.02	22.25					
15	QPSK	36	39	22.08	22.06	22.02	22.03	22.10					
15	QPSK	75	0	22.03	22.01	22.03	22.16	22.09					
15	16QAM	1	0	22.27	22.45	22.28	22.16	22.09					
15	16QAM	1	37	22.08	22.22	22.28	22.09	22.07					
15	16QAM	1	74	22.21	22.16	22.13	22.00	22.13					
15	16QAM	36	0	21.03	21.03	21.08	21.10	21.04					
15	16QAM	36	20	21.00	21.01	21.09	21.05	21.08					
15	16QAM	36	39	21.04	21.09	21.14	21.07	21.15					
15	16QAM	75	0	21.08	21.08	21.06	21.18	21.01					
15	64QAM	1	0	21.21	21.07	21.06	21.03	21.01					
15	64QAM	1	37	21.12	21.11	21.27	21.06	21.00					
15	64QAM	1	74	21.10	21.03	21.13	21.07	21.17					
15	64QAM	36	0	20.09	20.02	20.04	20.02	20.12					
15	64QAM	36	20	20.02	20.08	20.23	20.04	20.19					
15	64QAM	36	39	20.21	20.07	20.08	20.21	20.03					
15	64QAM	75	0	20.10	20.22	20.18	20.04	20.00					
Channel				39700	40160	40620	41080	41540					
Frequency (MHz)				2501	2547	2593	2639	2685					
10	QPSK	1	0	23.08	23.09	23.20	23.09	23.06	24.6	0			
10	QPSK	1	25	23.05	23.03	23.13	23.07	23.04					
10	QPSK	1	49	23.17	23.16	23.06	23.01	23.08					
10	QPSK	25	0	22.23	22.06	22.03	22.19	22.08					
10	QPSK	25	12	22.07	22.10	22.24	22.11	22.01					
10	QPSK	25	25	22.06	22.12	22.11	22.05	22.02					
10	QPSK	50	0	22.09	22.15	22.00	22.00	22.00					
10	16QAM	1	0	22.20	22.15	22.30	22.04	22.16					
10	16QAM	1	25	22.34	22.20	22.20	22.26	22.13					
10	16QAM	1	49	22.04	22.14	22.01	22.01	22.14					
10	16QAM	25	0	21.04	21.02	21.00	21.08	21.07					
10	16QAM	25	12	21.09	21.07	21.02	21.14	21.14					
10	16QAM	25	25	21.27	21.12	21.04	21.06	21.04					
10	16QAM	50	0	21.03	21.00	21.05	21.01	21.01					
10	64QAM	1	0	21.06	21.09	21.18	21.00	21.09					
10	64QAM	1	25	21.14	21.00	21.05	21.06	21.00					
10	64QAM	1	49	21.14	21.08	21.08	21.08	21.09					
10	64QAM	25	0	20.00	20.05	20.16	20.00	20.09					
10	64QAM	25	12	20.02	20.19	20.01	20.02	20.02					
10	64QAM	25	25	20.20	20.08	20.14	20.03	20.01					
10	64QAM	50	0	20.20	20.07	20.04	20.05	20.23					
Channel				39675	40148	40620	41093	41565					
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5					
5	QPSK	1	0	23.14	23.20	23.15	23.07	23.00	24.6	0			
5	QPSK	1	12	23.03	23.07	23.08	23.04	23.09					
5	QPSK	1	24	23.19	23.04	23.03	23.02	23.04					
5	QPSK	12	0	22.23	22.12	22.30	22.00	22.23					
5	QPSK	12	7	22.11	22.00	22.01	22.02	22.19					
5	QPSK	12	13	22.13	22.03	22.12	22.12	22.14					
5	QPSK	25	0	22.08	22.14	22.09	22.09	22.01					
5	16QAM	1	0	22.43	22.46	22.39	22.34	22.15					
5	16QAM	1	12	22.30	22.21	22.39	22.21	22.13					
5	16QAM	1	24	22.26	22.10	22.34	22.06	22.04					
5	16QAM	12	0	21.04	21.06	21.07	21.03	21.09					
5	16QAM	12	7	21.19	21.19	21.02	21.00	21.01					
5	16QAM	12	13	21.28	21.04	21.17	21.12	21.08					
5	16QAM	25	0	21.06	21.13	21.09	21.08	21.08					
5	64QAM	1	0	21.21	21.16	21.07	21.04	21.09					
5	64QAM	1	12	21.00	21.08	21.07	21.05	21.10					
5	64QAM	1	24	21.08	21.04	21.09	21.10	21.19					
5	64QAM	12	0	20.08	20.09	20.05	20.06	20.00					
5	64QAM	12	7	20.03	20.05	20.00	20.14	20.09					
5	64QAM	12	13	20.17	20.05	20.01	20.09	20.12					
5	64QAM	25	0	20.09	20.19	20.14	20.04	20.23					

Band 41_Ant 3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.82	23.73	23.86	23.52	23.82	24.3	0		
20	QPSK	1	49	23.80	23.67	23.83	23.48	23.59				
20	QPSK	1	99	23.81	23.70	23.69	23.32	23.13				
20	QPSK	50	0	23.73	23.65	23.62	23.80	23.75				
20	QPSK	50	24	22.86	22.53	22.66	22.54	22.54				
20	QPSK	50	50	22.63	22.62	22.71	22.62	22.58				
20	QPSK	100	0	22.78	22.81	22.82	22.80	22.67				
20	16QAM	1	0	22.66	22.78	22.79	22.74	22.70				
20	16QAM	1	49	22.70	22.71	22.84	22.73	22.73				
20	16QAM	1	99	22.75	22.65	22.80	22.68	22.76				
20	16QAM	50	0	21.63	21.58	21.64	21.50	21.57				
20	16QAM	50	24	21.63	21.62	21						



Band 2_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				18700	18900	19100					
Frequency (MHz)				1860	1880	1900					
20	QPSK	1	0	12.55	12.65	12.55	13.5	0			
20	QPSK	1	49	12.54	12.64	12.52					
20	QPSK	1	99	12.53	12.63	12.51					
20	QPSK	50	0	12.57	12.63	12.61					
20	QPSK	50	24	12.53	12.59	12.46					
20	QPSK	50	50	12.52	12.56	12.41					
20	QPSK	100	0	12.41	12.50	12.38					
20	16QAM	1	0	12.62	12.57	12.44					
20	16QAM	1	49	12.47	12.58	12.43					
20	16QAM	1	99	12.45	12.54	12.52					
20	16QAM	50	0	12.44	12.59	12.62					
20	16QAM	50	24	12.53	12.48	12.50					
20	16QAM	50	50	12.58	12.54	12.39					
20	16QAM	100	0	12.53	12.55	12.49					
20	64QAM	1	0	12.45	12.57	12.54					
20	64QAM	1	49	12.46	12.54	12.49					
20	64QAM	1	99	12.47	12.54	12.52					
20	64QAM	50	0	12.39	12.49	12.37					
20	64QAM	50	24	12.53	12.58	12.63					
20	64QAM	50	50	12.58	12.54	12.56					
20	64QAM	100	0	12.40	12.51	12.52					
Channel				18675	18900	19125					
Frequency (MHz)				1857.5	1880	1902.5					
15	QPSK	1	0	12.54	12.55	12.51	13.5	0			
15	QPSK	1	37	12.52	12.61	12.42					
15	QPSK	1	74	12.38	12.48	12.48					
15	QPSK	36	0	12.55	12.57	12.51					
15	QPSK	36	20	12.49	12.50	12.42					
15	QPSK	36	39	12.43	12.51	12.34					
15	QPSK	75	0	12.29	12.46	12.28					
15	16QAM	1	0	12.52	12.47	12.37					
15	16QAM	1	37	12.44	12.55	12.37					
15	16QAM	1	74	12.33	12.44	12.30					
15	16QAM	36	0	12.38	12.53	12.60					
15	16QAM	36	20	12.47	12.40	12.44					
15	16QAM	36	39	12.48	12.46	12.27					
15	16QAM	75	0	12.49	12.47	12.45					
15	64QAM	1	0	12.35	12.53	12.45					
15	64QAM	1	37	12.42	12.50	12.46					
15	64QAM	1	74	12.36	12.49	12.42					
15	64QAM	36	0	12.36	12.45	12.25					
15	64QAM	36	20	12.46	12.55	12.56					
15	64QAM	36	39	12.54	12.46	12.48					
15	64QAM	75	0	12.33	12.39	12.49					
Channel				18650	18900	19150					
Frequency (MHz)				1855	1880	1905					
10	QPSK	1	0	12.56	12.58	12.43	13.5	0			
10	QPSK	1	25	12.49	12.59	12.42					
10	QPSK	1	49	12.44	12.46	12.45					
10	QPSK	25	0	12.46	12.53	12.53					
10	QPSK	25	12	12.50	12.47	12.39					
10	QPSK	25	25	12.48	12.53	12.33					
10	QPSK	50	0	12.29	12.48	12.28					
10	16QAM	1	0	12.53	12.49	12.35					
10	16QAM	1	25	12.41	12.56	12.31					
10	16QAM	1	49	12.38	12.40	12.30					
10	16QAM	25	0	12.34	12.50	12.57					
10	16QAM	25	12	12.43	12.45	12.47					
10	16QAM	25	25	12.49	12.43	12.30					
10	16QAM	50	0	12.47	12.43	12.37					
10	64QAM	1	0	12.40	12.52	12.47					
10	64QAM	1	25	12.39	12.43	12.40					
10	64QAM	1	49	12.35	12.44	12.41					
10	64QAM	25	0	12.34	12.38	12.29					
10	64QAM	25	12	12.43	12.46	12.61					
10	64QAM	25	25	12.55	12.48	12.47					
10	64QAM	50	0	12.34	12.49	12.41					
Channel				18625	18900	19175					
Frequency (MHz)				1852.5	1880	1907.5					
5	QPSK	1	0	12.42	12.61	12.47	13.5	0			
5	QPSK	1	12	12.45	12.58	12.42					
5	QPSK	1	24	12.45	12.44	12.42					
5	QPSK	12	0	12.52	12.51	12.58					
5	QPSK	12	7	12.44	12.48	12.38					
5	QPSK	12	13	12.41	12.45	12.39					
5	QPSK	25	0	12.30	12.48	12.33					
5	16QAM	1	0	12.59	12.52	12.36					
5	16QAM	1	12	12.41	12.46	12.36					
5	16QAM	1	24	12.40	12.45	12.28					
5	16QAM	12	0	12.40	12.50	12.59					
5	16QAM	12	7	12.42	12.36	12.38					
5	16QAM	12	13	12.52	12.52	12.27					
5	16QAM	25	0	12.43	12.48	12.40					
5	64QAM	1	0	12.41	12.51	12.51					
5	64QAM	1	12	12.40	12.46	12.46					
5	64QAM	1	24	12.35	12.51	12.48					
5	64QAM	12	0	12.36	12.47	12.35					
5	64QAM	12	7	12.45	12.56	12.54					
5	64QAM	12	13	12.52	12.42	12.53					
5	64QAM	25	0	12.37	12.40	12.50					
Channel				18615	18900	19185					
Frequency (MHz)				1851.5	1880	1908.5					
3	QPSK	1	0	12.46	12.57	12.45	13.5	0			
3	QPSK	1	8	12.45	12.56	12.49					
3	QPSK	1	14	12.41	12.49	12.43					
3	QPSK	8	0	12.45	12.55	12.54					
3	QPSK	8	4	12.51	12.50	12.43					
3	QPSK	8	7	12.50	12.48	12.34					
3	QPSK	15	0	12.30	12.44	12.34					
3	16QAM	1	0	12.54	12.45	12.37					
3	16QAM	1	8	12.44	12.56	12.33					
3	16QAM	1	14	12.41	12.41	12.35					
3	16QAM	8	0	12.32	12.56	12.60					
3	16QAM	8	4	12.51	12.46	12.45					
3	16QAM	8	7	12.53	12.50	12.37					
3	16QAM	15	0	12.41	12.51	12.38					
3	64QAM	1	0	12.39	12.46	12.51					
3	64QAM	1	8	12.35	12.43	12.45					
3	64QAM	1	14	12.36	12.54	12.44					
3	64QAM	8	0	12.32	12.39	12.25					
3	64QAM	8	4	12.48	12.52	12.53					
3	64QAM	8	7	12.50	12.45	12.52					
3	64QAM	15	0	12.33	12.42	12.48					
Channel				18607	18900	19193					
Frequency (MHz)				1850.7	1880	1909.3					
1.4	QPSK	1	0	12.49	12.61	12.46	13.5	0			
1.4	QPSK	1	3	12.44	12.59	12.41					
1.4	QPSK	1	5	12.43	12.53	12.47					
1.4	QPSK	3	0	12.49	12.55	12.59					
1.4	QPSK	3	1	12.43	12.47	12.40					
1.4	QPSK	3	3	12.46	12.50	12.36					
1.4	QPSK	6	0	12.29	12.46	12.34					
1.4	16QAM	1	0	12.51	12.48	12.37					
1.4	16QAM	1	3	12.37	12.53	12.40					
1.4	16QAM	1	5	12.43	12.45	12.35					
1.4	16QAM	3	0	12.32	12.57	12.55					
1.4	16QAM	3	1	12.42	12.45	12.40					
1.4	16QAM	3	3	12.49	12.47	12.28					
1.4	16QAM	6	0	12.50	12.45	12.39					
1.4	64QAM	1	0	12.36	12.53	12.48					
1.4	64QAM	1	3	12.38	12.43	12.47					
1.4	64QAM	1	5	12.41	12.53	12.43					
1.4	64QAM	3	0	12.37	12.40	12.35					
1.4	64QAM	3	1	12.41	12.48	12.52					
1.4	64QAM	3	3	12.48	12.44	12.50					
1.4	64QAM	6	0	12.35	12.40	12.48					

Band 2_Ant 3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				18700	18900	19100					
Frequency (MHz)				1860	1880	1900					
20	QPSK	1	0	23.15	23.20	23.03	24.5	0			
20	QPSK	1	49	23.12	23.12	22.99					
20	QPSK	1	99	23.05	23.10	22.95					
20	QPSK	50	0	22.18	22.21	22.15					
20	QPSK	50	24	22.03	22.16	22.12					
20	QPSK	50	50	21.98	22.12	22.07					
20	QPSK	100	0	21.97	22.10	22.01					
20	16QAM	1	0	22.03	22.16	22.04					
20	16QAM	1	49	22.20	22.22	22.18					
20	16QAM	1	99	21.86	22.03	21.98					
20	16QAM	50	0	21.04	21.09	20.99					
20	16QAM	50	24	21.08	21.19	21.16					
20	16QAM	50	50	21.16	21.16	21.05					
20	16QAM	100	0	21.01	21.07	21.02					
20	64QAM	1	0	21.02	21.04	21.03					
20	64QAM	1	49	21.20	21.23	21.08					
20	64QAM	1	99	21.00	21.02	20.99					
20	64QAM	50	0	20.01	20.16	20.15					
20	64QAM	50	24	20.14	20.16	20.04					
20	64QAM	50	50	19.93	20.08	20.00					
20	64QAM	100	0	19.99	20.07	20.04					
Channel				18675	18900	19125					
Frequency (MHz)				1857.5	1880	1902.5					
15	QPSK	1	0	23.12	23.17	22.93	24.5	0			
15	QPSK	1	37	23.17	23.12	23.04					
15	QPSK	1	74	22.88	22.92	22.74					
15	QPSK	36	0	22.11	22.15	22.07					
15	QPSK	36	20	21.77	22.16	21.98					
15	QPSK	36	39	21.79	22.16	21.93					
15	QPSK	75	0	21.72	22.12	21.99					
15	16QAM	1	0	22.11	22.11	22.03					
15	16QAM	1	37	22.23	22.04	22.22					
15	16QAM	1	74	21.96	21.97	21.95					
15	16QAM	36	0	20.79	21.07	21.05					
15	16QAM	36	20	20.90	21.02	21.13					
15	16QAM	36	39	21.06	21.06	21.11					
15	16QAM	75	0	20.82	21.05	20.75					
15	64QAM	1	0	20.80	20.76	20.82					
15	64QAM	1	37	21.07	21.03	21.14					
15	64QAM	1	74	20.76	20.83	20.74					
15	64QAM	36	0	19.75	20.03	20.20					
15	64QAM	36	20	20.16	19.93	20.06					
15	64QAM	36	39	19.70	19.82	19.96					
15	64QAM	75	0	19.99	19.91	19.88					
Channel				18650	18900	19150					



Band 5_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	23.62	23.69	23.64	24.7	0		
10	QPSK	1	25	23.54	23.52	23.57				
10	QPSK	1	49	23.60	23.62	23.60				
10	QPSK	25	0	23.59	23.67	23.62	24.7	0		
10	QPSK	25	12	23.55	23.62	23.60				
10	QPSK	25	25	23.58	23.66	23.58				
10	QPSK	50	0	23.36	23.65	23.46	24.7	0		
10	16QAM	1	0	23.39	23.64	23.57				
10	16QAM	1	25	23.50	23.62	23.50				
10	16QAM	1	49	23.60	23.67	23.68	24.7	0		
10	16QAM	25	0	22.67	22.86	22.71				
10	16QAM	25	12	22.77	22.64	22.49				
10	16QAM	25	25	22.60	22.77	22.77	23.7	1		
10	16QAM	50	0	22.68	22.66	22.68				
10	16QAM	50	0	22.78	22.67	22.79				
10	64QAM	1	25	22.83	22.81	22.85	23.7	1		
10	64QAM	1	49	22.85	22.92	22.87				
10	64QAM	25	0	21.54	21.82	21.73				
10	64QAM	25	12	21.89	21.79	21.51	22.7	2		
10	64QAM	25	25	21.56	21.73	21.52				
10	64QAM	50	0	21.41	21.69	21.53				
Channel				20425	20525	20625				
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	23.65	23.63	23.43	24.7	0		
5	QPSK	1	12	23.36	23.60	23.44				
5	QPSK	1	24	23.48	23.43	23.45				
5	QPSK	12	0	23.42	23.68	23.59	24.7	0		
5	QPSK	12	7	23.55	23.45	23.64				
5	QPSK	12	13	23.66	23.43	23.35				
5	QPSK	25	0	23.39	23.63	23.53	24.7	0		
5	16QAM	1	0	23.41	23.42	23.32				
5	16QAM	1	12	23.25	23.62	23.29				
5	16QAM	1	24	23.40	23.66	23.44	24.7	0		
5	16QAM	12	0	22.75	22.74	22.43				
5	16QAM	12	7	22.63	22.56	22.39				
5	16QAM	12	13	22.68	22.69	22.52	23.7	1		
5	16QAM	25	0	22.70	22.57	22.58				
5	16QAM	25	0	22.65	22.51	22.85				
5	64QAM	1	12	22.57	22.84	22.41	23.7	1		
5	64QAM	1	24	22.75	22.64	22.76				
5	64QAM	12	0	21.57	21.77	21.72				
5	64QAM	12	7	21.80	21.71	21.57	22.7	2		
5	64QAM	12	13	21.43	21.50	21.30				
5	64QAM	25	0	21.34	21.42	21.38				
Channel				20415	20525	20635				
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	23.38	23.62	23.66	24.7	0		
3	QPSK	1	8	23.56	23.32	23.48				
3	QPSK	1	14	23.67	23.49	23.37				
3	QPSK	8	0	23.56	23.67	23.65	24.7	0		
3	QPSK	8	4	23.59	23.44	23.35				
3	QPSK	8	7	23.61	23.38	23.54				
3	QPSK	15	0	23.38	23.49	23.56	24.7	0		
3	16QAM	1	0	23.28	23.55	23.29				
3	16QAM	1	8	23.45	23.60	23.54				
3	16QAM	1	14	23.61	23.42	23.43	24.7	0		
3	16QAM	8	0	22.73	22.64	22.54				
3	16QAM	8	4	22.57	22.50	22.46				
3	16QAM	8	7	22.59	22.83	22.74	23.7	1		
3	16QAM	15	0	22.61	22.44	22.43				
3	64QAM	1	0	22.63	22.74	22.83				
3	64QAM	1	8	22.85	22.88	22.66	23.7	1		
3	64QAM	1	14	22.93	22.98	22.89				
3	64QAM	8	0	21.37	21.85	21.58				
3	64QAM	8	4	21.85	21.69	21.38	22.7	2		
3	64QAM	8	7	21.52	21.64	21.49				
3	64QAM	15	0	21.41	21.69	21.39				
Channel				20407	20525	20643				
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	23.59	23.47	23.37	24.7	0		
1.4	QPSK	1	3	23.35	23.41	23.19				
1.4	QPSK	1	5	23.42	23.25	23.36				
1.4	QPSK	3	0	23.56	23.63	23.51	24.7	0		
1.4	QPSK	3	1	23.40	23.32	23.41				
1.4	QPSK	3	3	23.32	23.42	23.44				
1.4	QPSK	6	0	23.16	23.61	23.48	24.7	0		
1.4	16QAM	1	0	23.14	23.47	23.21				
1.4	16QAM	1	3	23.36	23.27	23.39				
1.4	16QAM	1	5	23.39	23.50	23.45	24.7	0		
1.4	16QAM	3	0	23.35	23.51	23.45				
1.4	16QAM	3	1	23.61	23.46	23.24				
1.4	16QAM	3	3	23.43	23.50	23.54	23.7	1		
1.4	16QAM	6	0	22.65	22.59	22.46				
1.4	64QAM	1	0	22.59	22.61	22.83				
1.4	64QAM	1	3	22.78	22.54	22.59	23.7	1		
1.4	64QAM	1	5	22.75	22.65	22.87				
1.4	64QAM	3	0	22.54	22.68	22.46				
1.4	64QAM	3	1	22.52	22.50	22.42	23.7	1		
1.4	64QAM	3	3	22.45	22.53	22.46				
1.4	64QAM	6	0	21.15	21.60	21.40				

Band 5_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	20.22	20.27	20.19	21.5	0		
10	QPSK	1	25	20.18	20.26	20.18				
10	QPSK	1	49	20.15	20.16	20.14				
10	QPSK	25	0	20.15	20.20	20.15	21.5	0		
10	QPSK	25	12	20.08	20.15	20.14				
10	QPSK	25	25	20.14	20.17	20.15				
10	QPSK	50	0	19.97	20.14	20.04	21.5	0		
10	16QAM	1	0	20.19	20.22	20.23				
10	16QAM	1	25	20.09	20.25	20.14				
10	16QAM	1	49	20.08	20.23	20.16	21.5	0		
10	16QAM	25	0	20.06	20.10	20.03				
10	16QAM	25	12	20.20	20.18	20.18				
10	16QAM	25	25	20.10	20.17	20.07	21.5	0		
10	16QAM	50	0	20.02	20.13	20.01				
10	64QAM	1	0	20.21	20.25	20.16				
10	64QAM	1	25	20.11	20.23	20.06	21.5	0		
10	64QAM	1	49	20.13	20.21	20.06				
10	64QAM	25	0	20.10	20.13	20.04				
10	64QAM	25	12	20.23	20.24	20.20	21.5	0		
10	64QAM	25	25	20.08	20.20	20.15				
10	64QAM	50	0	19.98	20.13	19.98				
Channel				20425	20525	20625				
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	20.07	20.24	20.17	21.5	0		
5	QPSK	1	12	20.06	20.17	20.06				
5	QPSK	1	24	20.13	20.07	20.06				
5	QPSK	12	0	20.09	20.16	20.15	21.5	0		
5	QPSK	12	7	19.96	20.08	20.05				
5	QPSK	12	13	20.04	20.05	20.07				
5	QPSK	25	0	19.95	20.02	19.93	21.5	0		
5	16QAM	1	0	20.13	20.15	20.11				
5	16QAM	1	12	20.06	20.16	20.06				
5	16QAM	1	24	20.13	20.07	20.01	21.5	0		
5	16QAM	12	0	19.98	19.98	19.93				
5	16QAM	12	7	20.14	20.06	20.16				
5	16QAM	12	13	20.00	20.10	20.00	21.5	0		
5	16QAM	25	0	19.93	20.05	19.89				
5	64QAM	1	0	20.17	20.16	20.03				
5	64QAM	1	12	20.08	20.20	20.01	21.5	0		
5	64QAM	1	24	20.09	20.21	20.01				
5	64QAM	12	0	20.00	20.06	19.96				
5	64QAM	12	7	20.18	20.15	20.15	21.5	0		
5	64QAM	12	13	19.99	20.08	20.11				
5	64QAM	25	0	19.87	20.10	19.86				
Channel				20415	20525	20635				
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	20.13	20.24	20.13	21.5	0		
3	QPSK	1	8	20.09	20.18	20.15				
3	QPSK	1	14	20.06	20.11	20.04				
3	QPSK	8	0	20.09	20.13	20.09	21.5	0		
3	QPSK	8	4	20.01	20.08	20.11				
3	QPSK	8	7	20.08	20.09	20.07				
3	QPSK	15	0	19.89	20.05	19.92	21.5	0		
3	16QAM	1	0	20.13	20.18	20.11				
3	16QAM	1	8	20.01	20.22	20.11				
3	16QAM	1	14	20.05	20.15					



Band 7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				20850	21100	21350			
				2510	2535	2560			
20	QPSK	1	0	17.52	17.65	17.59			
20	QPSK	1	49	17.50	17.58	17.51	18.5	0	
20	QPSK	1	99	17.49	17.57	17.54			
20	QPSK	50	0	17.59	17.64	17.60			
20	QPSK	50	24	17.58	17.61	17.59			
20	QPSK	50	50	17.47	17.63	17.59	18.5	0	
20	QPSK	100	0	17.42	17.55	17.39			
20	16QAM	1	0	17.63	17.63	17.52			
20	16QAM	1	49	17.49	17.61	17.51	18.5	0	
20	16QAM	1	99	17.54	17.63	17.46			
20	16QAM	50	0	17.58	17.62	17.55			
20	16QAM	50	24	17.49	17.64	17.59			
20	16QAM	50	50	17.59	17.63	17.57	18.5	0	
20	16QAM	100	0	17.59	17.61	17.59			
20	64QAM	1	0	17.62	17.62	17.59			
20	64QAM	1	49	17.57	17.63	17.54	18.5	0	
20	64QAM	1	99	17.47	17.61	17.54			
20	64QAM	50	0	17.43	17.58	17.43			
20	64QAM	50	24	17.49	17.64	17.50			
20	64QAM	50	50	17.62	17.62	17.46	18.5	0	
20	64QAM	100	0	17.48	17.59	17.55			
Channel									
Frequency (MHz)				20825	21100	21375			
				2507.5	2535	2562.5			
15	QPSK	1	0	17.42	17.56	17.57			
15	QPSK	1	37	17.39	17.50	17.49	18.5	0	
15	QPSK	1	74	17.46	17.49	17.53			
15	QPSK	36	0	17.49	17.52	17.53			
15	QPSK	36	20	17.46	17.53	17.57			
15	QPSK	36	39	17.40	17.59	17.46	18.5	0	
15	QPSK	75	0	17.36	17.49	17.30			
15	16QAM	1	0	17.55	17.58	17.42			
15	16QAM	1	37	17.42	17.59	17.45	18.5	0	
15	16QAM	1	74	17.46	17.49	17.53			
15	16QAM	36	0	17.53	17.55	17.46			
15	16QAM	36	20	17.42	17.58	17.48			
15	16QAM	36	39	17.57	17.58	17.48	18.5	0	
15	16QAM	75	0	17.50	17.55	17.51			
15	64QAM	1	0	17.52	17.60	17.48			
15	64QAM	1	37	17.49	17.51	17.49	18.5	0	
15	64QAM	1	74	17.38	17.59	17.46			
15	64QAM	36	0	17.40	17.47	17.34			
15	64QAM	36	20	17.45	17.55	17.40			
15	64QAM	36	39	17.51	17.60	17.36	18.5	0	
15	64QAM	75	0	17.42	17.49	17.50			
Channel									
Frequency (MHz)				20800	21100	21400			
				2505	2535	2565			
10	QPSK	1	0	17.51	17.61	17.54			
10	QPSK	1	25	17.43	17.54	17.40	18.5	0	
10	QPSK	1	49	17.38	17.50	17.42			
10	QPSK	25	0	17.55	17.55	17.55			
10	QPSK	25	12	17.50	17.53	17.55			
10	QPSK	25	25	17.38	17.57	17.47	18.5	0	
10	QPSK	50	0	17.34	17.43	17.35			
10	16QAM	1	0	17.60	17.52	17.40			
10	16QAM	1	25	17.46	17.56	17.42	18.5	0	
10	16QAM	1	49	17.46	17.51	17.41			
10	16QAM	25	0	17.55	17.59	17.46			
10	16QAM	25	12	17.37	17.58	17.52			
10	16QAM	25	25	17.51	17.61	17.47	18.5	0	
10	16QAM	50	0	17.53	17.59	17.51			
10	64QAM	1	0	17.51	17.51	17.51			
10	64QAM	1	25	17.51	17.51	17.50	18.5	0	
10	64QAM	1	49	17.38	17.56	17.43			
10	64QAM	25	0	17.36	17.51	17.41			
10	64QAM	25	12	17.41	17.60	17.47			
10	64QAM	25	25	17.52	17.55	17.44	18.5	0	
10	64QAM	50	0	17.43	17.53	17.50			
Channel									
Frequency (MHz)				20775	21100	21425			
				2502.5	2535	2567.5			
5	QPSK	1	0	17.53	17.56	17.50			
5	QPSK	1	12	17.44	17.56	17.48	18.5	0	
5	QPSK	1	24	17.38	17.52	17.46			
5	QPSK	12	0	17.49	17.62	17.58			
5	QPSK	12	7	17.54	17.50	17.51			
5	QPSK	12	13	17.41	17.51	17.47	18.5	0	
5	QPSK	25	0	17.38	17.46	17.32			
5	16QAM	1	0	17.53	17.54	17.45			
5	16QAM	1	12	17.42	17.52	17.45	18.5	0	
5	16QAM	1	24	17.43	17.54	17.37			
5	16QAM	12	0	17.51	17.60	17.48			
5	16QAM	12	7	17.46	17.54	17.49	18.5	0	
5	16QAM	12	13	17.57	17.57	17.55			
5	16QAM	25	0	17.50	17.51	17.49			
5	64QAM	1	0	17.60	17.53	17.57			
5	64QAM	1	12	17.53	17.59	17.50	18.5	0	
5	64QAM	1	24	17.35	17.57	17.42			
5	64QAM	12	0	17.35	17.53	17.40			
5	64QAM	12	7	17.38	17.59	17.43			
5	64QAM	12	13	17.55	17.52	17.37	18.5	0	
5	64QAM	25	0	17.46	17.55	17.49			

Band 7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				20850	21100	21350			
				2510	2535	2560			
20	QPSK	1	0	16.96	17.11	16.93			
20	QPSK	1	49	16.92	17.06	16.92	18.5	0	
20	QPSK	1	99	16.93	16.97	16.90			
20	QPSK	50	0	17.00	17.05	17.01			
20	QPSK	50	24	16.94	17.02	16.94			
20	QPSK	50	50	16.98	17.04	16.89	18.5	0	
20	QPSK	100	0	16.96	17.10	16.95			
20	16QAM	1	0	16.98	17.08	17.05			
20	16QAM	1	49	17.04	17.07	17.05	18.5	0	
20	16QAM	1	99	17.06	17.05	17.04			
20	16QAM	50	0	17.07	17.08	16.93			
20	16QAM	50	24	16.97	17.02	16.90			
20	16QAM	50	50	16.91	17.00	17.04	18.5	0	
20	16QAM	100	0	16.94	17.04	16.95			
20	64QAM	1	0	17.05	17.08	16.94			
20	64QAM	1	49	17.09	17.10	17.02	18.5	0	
20	64QAM	1	99	17.10	17.09	16.95			
20	64QAM	50	0	17.07	17.05	17.03			
20	64QAM	50	24	17.09	17.06	17.00			
20	64QAM	50	50	17.02	17.04	16.96	18.5	0	
20	64QAM	100	0	17.09	17.05	17.05			
Channel									
Frequency (MHz)				20825	21100	21375			
				2507.5	2535	2562.5			
15	QPSK	1	0	16.82	16.99	16.82			
15	QPSK	1	37	16.80	16.95	16.85	18.5	0	
15	QPSK	1	74	16.99	16.91	16.94			
15	QPSK	36	0	16.98	17.02	16.89			
15	QPSK	36	20	16.85	16.99	16.87			
15	QPSK	36	39	16.93	16.96	16.83	18.5	0	
15	QPSK	75	0	16.91	16.98	16.87			
15	16QAM	1	0	16.96	17.04	16.96			
15	16QAM	1	37	16.92	17.02	17.02	18.5	0	
15	16QAM	1	74	16.97	16.93	16.97			
15	16QAM	36	0	17.03	16.96	16.90			
15	16QAM	36	20	16.94	16.90	16.81			
15	16QAM	36	39	16.80	16.96	16.89	18.5	0	
15	16QAM	75	0	16.91	17.02	16.89			
15	64QAM	1	0	16.95	17.02	16.92			
15	64QAM	1	37	17.03	17.01	16.93	18.5	0	
15	64QAM	1	74	17.04	16.99	16.90			
15	64QAM	36	0	16.96	17.03	16.95			
15	64QAM	36	20	16.99	16.95	16.95			
15	64QAM	36	39	16.99	17.00	16.92	18.5	0	
15	64QAM	75	0	17.01	16.95	16.96			
Channel									
Frequency (MHz)				20800	21100	21400			
				2505	2535	2565			
10	QPSK	1	0	16.92	17.03	16.87			
10	QPSK	1	25	16.81	16.97	16.83	18.5	0	
10	QPSK	1	49	16.92	16.91	16.79			
10	QPSK	25	0	16.95	16.98	16.93			
10	QPSK	25	12	16.86	16.97	16.86			
10	QPSK	25	25	16.96	17.01	16.79	18.5	0	
10	QPSK	50	0	16.94	17.05	16.88			
10	16QAM	1	0	16.95	17.02	17.01			
10	16QAM	1	25	16.96	17.00	17.00	18.5	0	
10	16QAM	1	49	16.95	17.03	16.99			
10	16QAM	25	0	17.00	17.02	16.81			
10	16QAM	25	12	16.85	16.96	16.83			
10	16QAM	25	25	16.86	16.93	16.95	18.5	0	
10	16QAM	50	0	16.91	16.96	16.88			
10	64QAM	1	0	17.03	17.05	16.89			
10	64QAM	1	25	17.06	17.02	16.94	18.5	0	
10	64QAM	1	49	17.00	17.00	16.87			



Band 12_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.46	24.51	24.45	25.5	0		
10	QPSK	1	25	24.40	24.41	24.43				
10	QPSK	1	49	24.33	24.35	24.35				
10	QPSK	25	0	23.43	23.33	23.39				
10	QPSK	25	12	23.33	23.37	23.33				
10	QPSK	25	25	23.31	23.42	23.37	24.5	1		
10	QPSK	50	0	23.42	23.50	23.37				
10	16QAM	1	0	23.52	23.60	23.54				
10	16QAM	1	25	23.37	23.50	23.46	24.5	1		
10	16QAM	1	49	23.52	23.61	23.47				
10	16QAM	25	0	22.46	22.55	22.44				
10	16QAM	25	12	22.41	22.41	22.28				
10	16QAM	25	25	22.41	22.43	22.31	23.5	2		
10	16QAM	50	0	22.40	22.49	22.42				
10	64QAM	1	0	22.35	22.48	22.34				
10	64QAM	1	25	22.52	22.56	22.55	23.5	2		
10	64QAM	1	49	22.40	22.41	22.41				
10	64QAM	25	0	21.51	21.56	21.43				
10	64QAM	25	12	21.29	21.42	21.29	22.5	3		
10	64QAM	25	25	21.30	21.40	21.40				
10	64QAM	50	0	21.31	21.46	21.34				
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	24.28	24.47	24.29	25.5	0		
5	QPSK	1	12	24.14	24.27	24.46				
5	QPSK	1	24	24.05	24.34	24.34				
5	QPSK	12	0	23.16	23.25	23.38				
5	QPSK	12	7	23.10	23.20	23.38	24.5	1		
5	QPSK	12	13	23.22	23.28	23.43				
5	QPSK	25	0	23.35	23.24	23.34				
5	16QAM	1	0	23.26	23.43	23.35				
5	16QAM	1	12	23.09	23.35	23.23	24.5	1		
5	16QAM	1	24	23.31	23.38	23.49				
5	16QAM	12	0	22.44	22.28	22.20				
5	16QAM	12	7	22.19	22.45	22.36	23.5	2		
5	16QAM	12	13	22.40	22.50	22.18				
5	16QAM	25	0	22.36	22.27	22.17				
5	64QAM	1	0	22.28	22.23	22.33				
5	64QAM	1	12	22.25	22.45	22.62	23.5	2		
5	64QAM	1	24	22.35	22.31	22.41				
5	64QAM	12	0	21.38	21.43	21.29				
5	64QAM	12	7	21.37	21.35	21.08	22.5	3		
5	64QAM	12	13	21.30	21.25	21.39				
5	64QAM	25	0	21.39	21.41	21.33				
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	24.48	24.48	24.40	25.5	0		
3	QPSK	1	8	24.38	24.42	24.49				
3	QPSK	1	14	24.36	24.19	24.17				
3	QPSK	8	0	23.21	23.30	23.26				
3	QPSK	8	4	23.11	23.26	23.07	24.5	1		
3	QPSK	8	7	23.09	23.15	23.41				
3	QPSK	15	0	23.35	23.24	23.24				
3	16QAM	1	0	23.42	23.50	23.51				
3	16QAM	1	8	23.25	23.56	23.54	24.5	1		
3	16QAM	1	14	23.50	23.53	23.42				
3	16QAM	8	0	22.23	22.33	22.36				
3	16QAM	8	4	22.19	22.30	22.19	23.5	2		
3	16QAM	8	7	22.28	22.46	22.28				
3	16QAM	15	0	22.41	22.24	22.40				
3	64QAM	1	0	22.15	22.34	22.09				
3	64QAM	1	8	22.35	22.58	22.48	23.5	2		
3	64QAM	1	14	22.31	22.15	22.47				
3	64QAM	8	0	21.51	21.41	21.22				
3	64QAM	8	4	21.27	21.35	21.30	22.5	3		
3	64QAM	8	7	21.31	21.44	21.23				
3	64QAM	15	0	21.04	21.50	21.28				
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	24.45	24.47	24.45	25.5	0		
1.4	QPSK	1	3	24.34	24.44	24.32				
1.4	QPSK	1	5	24.30	24.22	24.30				
1.4	QPSK	3	0	24.32	24.32	24.10				
1.4	QPSK	3	1	24.14	24.24	24.16				
1.4	QPSK	3	3	24.04	24.13	24.30				
1.4	QPSK	6	0	23.26	23.43	23.23	24.5	1		
1.4	16QAM	1	0	23.38	23.51	23.36				
1.4	16QAM	1	3	23.44	23.54	23.41				
1.4	16QAM	1	5	23.58	23.55	23.19	24.5	1		
1.4	16QAM	3	0	23.29	23.37	23.09				
1.4	16QAM	3	1	23.32	23.35	23.22				
1.4	16QAM	3	3	23.11	23.41	23.18	23.5	2		
1.4	16QAM	6	0	22.19	22.49	22.39				
1.4	64QAM	1	0	22.19	22.50	22.40				
1.4	64QAM	1	3	22.47	22.43	22.30				
1.4	64QAM	1	5	22.21	22.19	22.24	23.5	2		
1.4	64QAM	3	0	22.46	22.46	22.06				
1.4	64QAM	3	1	22.05	22.30	22.25				
1.4	64QAM	3	3	22.24	22.29	22.19				
1.4	64QAM	6	0	21.04	21.20	21.08	22.5	3		

Band 12_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	22.25	22.30	22.25	23.5	0		
10	QPSK	1	25	22.15	22.29	22.23				
10	QPSK	1	49	22.22	22.27	22.15				
10	QPSK	25	0	22.27	22.25	22.27				
10	QPSK	25	12	22.17	22.25	22.23	23.5	0		
10	QPSK	25	25	22.19	22.27	22.25				
10	QPSK	50	0	22.27	22.28	22.23				
10	16QAM	1	0	22.19	22.28	22.20				
10	16QAM	1	25	22.20	22.27	22.17	23.5	0		
10	16QAM	1	49	22.16	22.16	21.65				
10	16QAM	25	0	21.77	21.78	21.76				
10	16QAM	25	12	21.72	21.76	21.62	23	0.5		
10	16QAM	25	25	21.63	21.79	21.66				
10	16QAM	50	0	21.59	21.76	21.65				
10	64QAM	1	0	21.74	21.77	21.73				
10	64QAM	1	25	21.70	21.87	21.71	23	0.5		
10	64QAM	1	49	21.76	21.76	21.65				
10	64QAM	25	0	20.74	20.76	20.60				
10	64QAM	25	12	20.59	20.75	20.65	22	1.5		
10	64QAM	25	25	20.78	20.78	20.64				
10	64QAM	50	0	20.65	20.77	20.69				
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	22.15	22.25	22.26	23.5	0		
5	QPSK	1	12	22.09	22.27	22.17				
5	QPSK	1	24	22.17	22.17	22.06				
5	QPSK	12	0	22.17	22.18	22.23				
5	QPSK	12	7	22.14	22.19	22.17	23.5	0		
5	QPSK	12	13	22.07	22.21	22.20				
5	QPSK	25	0	22.23	22.26	22.14				
5	16QAM	1	0	22.13	22.19	22.13				
5	16QAM	1	12	22.17	22.25	22.14	23.5	0		
5	16QAM	1	24	22.09	22.19	22.17				
5	16QAM	12	0	21.70	21.69	21.70				
5	16QAM	12	7	21.68	21.74	21.52	23	0.5		
5	16QAM	12	13	21.59	21.72	21.59				
5	16QAM	25	0	21.56	21.73	21.59				
5	64QAM	1	0	21.62	21.65	21.65				
5	64QAM	1	12	21.60	21.84	21.68	23	0.5		
5	64QAM	1	24	21.74	21.72	21.63				
5	64QAM	12	0	20.68	20.65	20.58				
5	64QAM	12	7	20.47	20.64	20.55	22	1.5		
5	64QAM	12	13	20.68	20.73	20.53				
5	64QAM	25	0	20.59	20.72	20.65				
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	22.16	22.23	22.24	23.5	0		
3	QPSK	1	8	22.10	22.17	22.20				
3	QPSK	1	14	22.17	22.22	22.11				
3	QPSK	8	0	22.17	22.21	22.20				
3	QPSK	8	4	22.10	22.20	22.16	23.5	0		
3	QPSK	8	7	22.17	22.25	22.13				
3	QPSK	15	0	22.18	22.16	22.20				
3	16QAM	1	0	22.12	22.21	22.10				
3	16QAM	1	8	22.15	22.22	22.09	23.5	0		
3	16QAM	1	14	22.16	22.15	22.21				
3	16QAM	8	0	21.75	21.69	21.75				
3	16QAM	8	4	21.69	21.71	21.58	23	0.5		
3										



Band 66_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	23.46	23.48	23.58	25.2	0		
20	QPSK	1	49	23.42	23.41	23.32				
20	QPSK	1	99	23.40	23.38	23.35				
20	QPSK	50	0	22.43	22.46	22.42	24.2	1		
20	QPSK	50	24	22.33	22.44	22.39				
20	QPSK	50	50	22.40	22.37	22.28				
20	QPSK	100	0	22.41	22.43	22.28	24.2	1		
20	QPSK	100	50	22.45	22.45	22.28				
20	QPSK	100	99	22.53	22.46	22.22				
20	16QAM	1	0	21.53	21.45	21.29	23.2	2		
20	16QAM	50	24	21.29	21.31	21.20				
20	16QAM	50	50	21.40	21.34	21.23				
20	16QAM	100	0	21.33	21.44	21.50	23.2	2		
20	16QAM	100	50	21.28	21.39	21.28				
20	16QAM	100	99	21.34	21.41	21.33				
20	64QAM	1	0	20.24	20.42	20.46	22.2	3		
20	64QAM	50	24	20.22	20.36	20.31				
20	64QAM	50	50	20.23	20.34	20.20				
20	64QAM	100	0	20.25	20.37	20.20	22.2	3		
20	64QAM	100	50	20.23	20.34	20.20				
20	64QAM	100	99	20.25	20.37	20.20				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	23.23	23.27	23.39	25.2	0		
15	QPSK	1	37	23.38	23.39	23.23				
15	QPSK	1	74	23.22	23.24	23.43				
15	QPSK	36	0	22.51	22.43	22.29	24.2	1		
15	QPSK	36	20	22.39	22.49	22.20				
15	QPSK	36	39	22.26	22.28	22.28				
15	QPSK	75	0	22.44	22.49	22.36	24.2	1		
15	16QAM	1	0	22.49	22.25	22.29				
15	16QAM	1	37	22.46	22.38	22.25				
15	16QAM	1	74	22.26	22.22	22.28	23.2	2		
15	16QAM	36	0	21.44	21.33	21.23				
15	16QAM	36	20	21.28	21.38	21.27				
15	16QAM	36	39	21.35	21.28	21.26	23.2	2		
15	16QAM	75	0	21.37	21.35	21.38				
15	64QAM	1	0	21.27	21.39	21.20				
15	64QAM	1	37	21.32	21.35	21.23	23.2	2		
15	64QAM	1	74	21.47	21.34	21.31				
15	64QAM	36	0	20.21	20.50	20.53				
15	64QAM	36	20	20.26	20.21	20.31	22.2	3		
15	64QAM	36	39	20.20	20.27	20.24				
15	64QAM	75	0	20.24	20.31	20.22				
Channel				132022	132322	132622				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	23.26	23.30	23.24	25.2	0		
10	QPSK	1	25	23.34	23.27	23.29				
10	QPSK	1	49	23.29	23.35	23.28				
10	QPSK	25	0	22.45	22.31	22.45	24.2	1		
10	QPSK	25	12	22.29	22.45	22.23				
10	QPSK	25	25	22.23	22.27	22.25				
10	QPSK	50	0	22.31	22.37	22.23	24.2	1		
10	16QAM	1	0	22.37	22.41	22.28				
10	16QAM	1	25	22.35	22.52	22.24				
10	16QAM	1	49	22.25	22.40	22.21	23.2	2		
10	16QAM	25	0	21.40	21.43	21.34				
10	16QAM	25	12	21.24	21.39	21.28				
10	16QAM	25	25	21.37	21.37	21.23	23.2	2		
10	16QAM	50	0	21.33	21.31	21.52				
10	64QAM	1	0	21.22	21.27	21.25				
10	64QAM	1	25	21.28	21.48	21.23	23.2	2		
10	64QAM	1	49	21.22	21.25	21.21				
10	64QAM	25	0	20.22	20.36	20.28				
10	64QAM	25	12	20.21	20.42	20.23	22.2	3		
10	64QAM	25	25	20.24	20.29	20.25				
10	64QAM	50	0	20.29	20.21	20.21				
Channel				131997	132322	132647				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	23.47	23.42	23.41	25.2	0		
5	QPSK	1	12	23.22	23.38	23.27				
5	QPSK	1	24	23.23	23.23	23.34				
5	QPSK	12	0	22.20	22.22	22.47	24.2	1		
5	QPSK	12	7	22.22	22.23	22.22				
5	QPSK	12	13	22.33	22.22	22.26				
5	QPSK	25	0	22.23	22.36	22.32	24.2	1		
5	16QAM	1	0	22.44	22.28	22.27				
5	16QAM	1	12	22.36	22.54	22.23				
5	16QAM	1	24	22.36	22.24	22.26	23.2	2		
5	16QAM	12	0	21.44	21.38	21.28				
5	16QAM	12	7	21.20	21.21	21.22				
5	16QAM	12	13	21.39	21.33	21.21	23.2	2		
5	16QAM	25	0	21.26	21.44	21.54				
5	64QAM	1	0	21.27	21.28	21.35				
5	64QAM	1	12	21.40	21.29	21.20	23.2	2		
5	64QAM	1	24	21.28	21.28	21.20				
5	64QAM	12	0	20.23	20.38	20.37				
5	64QAM	12	7	20.20	20.24	20.26	22.2	3		
5	64QAM	12	13	20.26	20.28	20.22				
5	64QAM	25	0	20.27	20.41	20.25				
Channel				131987	132322	132657				
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	23.47	23.39	23.27	25.2	0		
3	QPSK	1	8	23.22	23.29	23.31				
3	QPSK	1	14	23.38	23.29	23.27				
3	QPSK	8	0	22.36	22.27	22.27	24.2	1		
3	QPSK	8	4	22.25	22.49	22.25				
3	QPSK	8	7	22.26	22.27	22.30				
3	QPSK	15	0	22.28	22.29	22.24	24.2	1		
3	16QAM	1	0	22.46	22.49	22.30				
3	16QAM	1	8	22.28	22.20	22.27				
3	16QAM	1	14	22.39	22.44	22.26	23.2	2		
3	16QAM	8	0	21.30	21.33	21.28				
3	16QAM	8	4	21.21	21.24	21.21				
3	16QAM	8	7	21.25	21.29	21.29	23.2	2		
3	16QAM	15	0	21.27	21.23	21.24				
3	64QAM	1	0	21.24	21.41	21.24				
3	64QAM	1	8	21.28	21.23	21.32	23.2	2		
3	64QAM	1	14	21.46	21.31	21.23				
3	64QAM	8	0	20.28	20.46	20.25				
3	64QAM	8	4	20.20	20.35	20.23	22.2	3		
3	64QAM	8	7	20.28	20.28	20.23				
3	64QAM	15	0	20.29	20.42	20.23				
Channel				131979	132322	132665				
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	23.35	23.26	23.28	25.2	0		
1.4	QPSK	1	3	23.45	23.34	23.39				
1.4	QPSK	1	5	23.33	23.32	23.28				
1.4	QPSK	3	0	23.27	23.38	23.25	24.2	1		
1.4	QPSK	3	1	23.22	23.24	23.24				
1.4	QPSK	3	3	23.26	23.35	23.27				
1.4	QPSK	6	0	22.30	22.27	22.26	24.2	1		
1.4	16QAM	1	0	22.25	22.41	22.24				
1.4	16QAM	1	3	22.61	22.35	22.25				
1.4	16QAM	1	5	22.41	22.26	22.29	24.2	1		
1.4	16QAM	3	0	22.50	22.28	22.25				
1.4	16QAM	3	1	22.25	22.29	22.28				
1.4	16QAM	3	3	22.33	22.28	22.29	23.2	2		
1.4	16QAM	6	0	21.23	21.29	21.48				
1.4	64QAM	1	0	21.25	21.27	21.32				
1.4	64QAM	1	3	21.25	21.43	21.32	23.2	2		
1.4	64QAM	1	5	21.27	21.33	21.26				
1.4	64QAM	3	0	21.23	21.28	21.33				
1.4	64QAM	3	1	21.28	21.24	21.28	22.2	3		
1.4	64QAM	3	3	21.35	21.29	21.21				
1.4	64QAM	6	0	20.29	20.21	20.27				

Band 66_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	17.12	17.16	17.05	18	0		
20	QPSK	1	49	16.97	17.14	17.04				
20	QPSK	1	99	17.05	17.12	16.97				
20	QPSK	50	0	17.09	17.15	17.13	18	0		
20	QPSK	50	24	17.04	17.13	17.06				
20	QPSK	50	50	16.98	17.09	16.98				
20	QPSK	100	0	17.00	17.12	17.00	18	0		
20	16QAM	1	0	16.96	17.13	16.97				
20	16QAM	1	49	17.14	17.06	17.08				
20	16QAM	1	99	17.05	17.12	16.98	18	0		
20	16QAM	50	0	16.96	17.12	16.96				
20	16QAM	50	24	16.94	17.07	16.97				
20	16QAM	50	50	16.93	17.05	17.05	18	0		
20	16QAM	100	0	17.07	17.13	17.07				
20	64QAM	1	0	17.07	17.12	17.13				
20	64QAM	1	49	17.06	17.09	17.12	18	0		
20</										



Band 66_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.91	19.94	19.72	20.7	0		
20	QPSK	1	49	19.80	19.82	19.71				
20	QPSK	1	99	19.72	19.73	19.70				
20	QPSK	50	0	19.91	19.93	19.95				
20	QPSK	50	24	19.68	19.81	19.68				
20	QPSK	50	50	19.79	19.80	19.81	20.7	0		
20	QPSK	100	0	19.89	19.91	19.87				
20	16QAM	1	0	19.75	19.84	19.71				
20	16QAM	1	49	19.94	19.86	19.85	20.7	0		
20	16QAM	1	99	19.82	19.83	19.71				
20	16QAM	50	0	19.74	19.87	19.87				
20	16QAM	50	24	19.68	19.79	19.75				
20	16QAM	50	50	19.79	19.81	19.76	20.7	0		
20	16QAM	100	0	19.68	19.80	19.76				
20	64QAM	1	0	19.55	19.83	19.74				
20	64QAM	1	49	19.92	19.88	19.82	20.7	0		
20	64QAM	1	99	19.72	19.81	19.82				
20	64QAM	50	0	19.86	19.87	19.92				
20	64QAM	50	24	19.59	19.75	19.77	20.7	0		
20	64QAM	50	50	19.84	19.78	19.50				
20	64QAM	100	0	19.85	19.85	19.87				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.67	19.67	19.69	20.7	0		
15	QPSK	1	37	19.76	19.82	19.58				
15	QPSK	1	74	19.52	19.63	19.80				
15	QPSK	36	0	19.74	19.90	19.79	20.7	0		
15	QPSK	36	20	19.55	19.69	19.67				
15	QPSK	36	39	19.66	19.87	19.77				
15	QPSK	75	0	19.87	19.81	19.87				
15	16QAM	1	0	19.64	19.81	19.70				
15	16QAM	1	37	19.77	19.80	19.74	20.7	0		
15	16QAM	1	74	19.70	19.83	19.67				
15	16QAM	36	0	19.72	19.78	19.80	20.7	0		
15	16QAM	36	20	19.64	19.78	19.62				
15	16QAM	36	39	19.72	19.72	19.69				
15	16QAM	75	0	19.66	19.78	19.70				
15	64QAM	1	0	19.40	19.66	19.67				
15	64QAM	1	37	19.68	19.90	19.60	20.7	0		
15	64QAM	1	74	19.72	19.81	19.87				
15	64QAM	36	0	19.78	19.82	19.81	20.7	0		
15	64QAM	36	20	19.41	19.48	19.67				
15	64QAM	36	39	19.89	19.82	19.24				
15	64QAM	75	0	19.74	19.76	19.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.70	19.87	19.51	20.7	0		
10	QPSK	1	25	19.68	19.79	19.59				
10	QPSK	1	49	19.57	19.65	19.82				
10	QPSK	25	0	19.76	19.81	19.80	20.7	0		
10	QPSK	25	12	19.67	19.75	19.82				
10	QPSK	25	25	19.71	19.81	19.73				
10	QPSK	50	0	19.77	19.87	19.76				
10	16QAM	1	0	19.64	19.84	19.63				
10	16QAM	1	25	19.75	19.76	19.76	20.7	0		
10	16QAM	1	49	19.69	19.76	19.85				
10	16QAM	25	0	19.74	19.84	19.77	20.7	0		
10	16QAM	25	12	19.64	19.77	19.66				
10	16QAM	25	25	19.79	19.72	19.67				
10	16QAM	50	0	19.55	19.80	19.72				
10	64QAM	1	0	19.51	19.66	19.50				
10	64QAM	1	25	19.71	19.84	19.72	20.7	0		
10	64QAM	1	49	19.56	19.67	19.65				
10	64QAM	25	0	19.67	19.65	19.89	20.7	0		
10	64QAM	25	12	19.63	19.69	19.84				
10	64QAM	25	25	19.76	19.74	19.23				
10	64QAM	50	0	19.70	19.88	19.74				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.89	19.74	19.63	20.7	0		
5	QPSK	1	12	19.67	19.74	19.67				
5	QPSK	1	24	19.49	19.64	19.69				
5	QPSK	12	0	19.71	19.88	19.85	20.7	0		
5	QPSK	12	7	19.55	19.71	19.57				
5	QPSK	12	13	19.67	19.82	19.78				
5	QPSK	25	0	19.78	19.79	19.80				
5	16QAM	1	0	19.72	19.72	19.61	20.7	0		
5	16QAM	1	12	19.84	19.74	19.63				
5	16QAM	12	0	19.67	19.80	19.75				
5	16QAM	12	7	19.62	19.75	19.63	20.7	0		
5	16QAM	12	13	19.78	19.68	19.70				
5	16QAM	25	0	19.82	19.78	19.66				
5	64QAM	1	0	19.29	19.70	19.66				
5	64QAM	1	12	19.88	19.61	19.64	20.7	0		
5	64QAM	1	24	19.75	19.63	19.71				
5	64QAM	12	0	19.81	19.70	19.81				
5	64QAM	12	7	19.42	19.69	19.59	20.7	0		
5	64QAM	12	13	19.72	19.61	19.28				
5	64QAM	25	0	19.72	19.92	19.78				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.90	19.69	19.63	20.7	0		
3	QPSK	1	8	19.63	19.73	19.62				
3	QPSK	1	14	19.58	19.69	19.64				
3	QPSK	8	0	19.71	19.88	19.81	20.7	0		
3	QPSK	8	4	19.62	19.79	19.64				
3	QPSK	8	7	19.66	19.87	19.69				
3	QPSK	15	0	19.76	19.90	19.79				
3	16QAM	1	0	19.64	19.75	19.71	20.7	0		
3	16QAM	1	8	19.74	19.83	19.78				
3	16QAM	1	14	19.70	19.73	19.58				
3	16QAM	8	0	19.74	19.75	19.82	20.7	0		
3	16QAM	8	4	19.59	19.79	19.73				
3	16QAM	8	7	19.66	19.75	19.73				
3	16QAM	15	0	19.85	19.75	19.64				
3	64QAM	1	0	19.53	19.88	19.61				
3	64QAM	1	8	19.64	19.81	19.54	20.7	0		
3	64QAM	1	14	19.59	19.89	19.80				
3	64QAM	8	0	19.75	19.89	19.85	20.7	0		
3	64QAM	8	4	19.33	19.66	19.59				
3	64QAM	8	7	19.80	19.69	19.28				
3	64QAM	15	0	19.80	19.85	19.73				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.78	19.68	19.75	20.7	0		
1.4	QPSK	1	3	19.70	19.75	19.65				
1.4	QPSK	1	5	19.57	19.63	19.65				
1.4	QPSK	3	0	19.68	19.81	19.85	20.7	0		
1.4	QPSK	3	1	19.59	19.81	19.66				
1.4	QPSK	3	3	19.72	19.83	19.79				
1.4	QPSK	6	0	19.80	19.87	19.76	20.7	0		
1.4	16QAM	1	0	19.68	19.71	19.68				
1.4	16QAM	1	3	19.75	19.82	19.81				
1.4	16QAM	1	5	19.74	19.82	19.69	20.7	0		
1.4	16QAM	3	0	19.62	19.81	19.85				
1.4	16QAM	3	1	19.68	19.76	19.74				
1.4	16QAM	3	3	19.72	19.70	19.75				
1.4	16QAM	6	0	19.60	19.73	19.69	20.7	0		
1.4	64QAM	1	0	19.32	19.83	19.77				
1.4	64QAM	1	3	19.86	19.66	19.55				
1.4	64QAM	1	5	19.64	19.91	19.71				
1.4	64QAM	3	0	19.69	19.61	19.92	20.7	0		
1.4	64QAM	3	1	19.40	19.72	19.62				
1.4	64QAM	3	3	19.88	19.59	19.29				
1.4	64QAM	6	0	19.66	19.87	19.59	20.7	0		

Band 66_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.02	24.06	23.99	24.2	0		
20	QPSK	1	49	23.97	23.95	23.89				
20	QPSK	1	99	23.89	23.83	23.86				
20	QPSK	50	0	23.02	23.06	22.95				
20	QPSK	50	24	22.82	22.97	22.82	23.2	1		
20	QPSK	50	50	22.89	23.04	22.93				
20	QPSK	100	0	22.86	23.00	22.94				
20	16QAM	1	0	22.90	23.01	22.87				
20	16QAM	1	49	22.99	23.03	22.96	23.2	1		
20	16QAM	1	99	22.89	23.01	22.97				
20	16QAM	50	0	21.98	22.00	22.00				
20	16QAM	50	24	21.88	22.03	21.94	22.2	2		
20	16QAM	50	50	21.83	21.98	21.91				
20	16QAM	100	0	21.92	22.00	21.94				
20	64QAM	1	0	22.07	22.13	21.98				
20	64QAM	1	49	22.09	22.09	21.97	22.2	2		
20	64QAM	1	99	21.89	21.91	21.86				
20	64QAM	50	0	20.93	21.02	20.92				
20	64QAM	50	24	20.94	21.01	20.88	21.2	3		
20	64QAM	50	50	20.99	21.04	21.04				
20	64QAM	100	0	20.91	20.99	20.88				



Band 38_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.35	20.68	20.56	21.7	0	
20	QPSK	1	49	20.45	20.46	20.26			
20	QPSK	1	99	20.47	20.32	20.29			
20	QPSK	50	0	20.55	20.84	20.33			
20	QPSK	50	24	20.55	20.53	20.43			
20	QPSK	50	50	20.48	20.64	20.46	21.7	0	
20	QPSK	100	0	20.57	20.61	20.58			
20	16QAM	1	0	20.44	20.60	20.56			
20	16QAM	1	49	20.65	20.58	20.60	21.7	0	
20	16QAM	1	99	20.45	20.52	20.46			
20	16QAM	50	0	20.67	20.67	20.60			
20	16QAM	50	24	20.65	20.57	20.48	21.7	0	
20	16QAM	50	50	20.65	20.63	20.66			
20	16QAM	100	0	20.66	20.61	20.62			
20	64QAM	1	0	20.61	20.61	20.46			
20	64QAM	1	49	20.55	20.59	20.42	21.7	0	
20	64QAM	1	99	20.47	20.51	20.81			
20	64QAM	50	0	19.96	20.17	19.93			
20	64QAM	50	24	19.93	19.96	20.16			
20	64QAM	50	50	19.86	20.01	20.09	20.7	1	
20	64QAM	100	0	19.84	20.15	19.94			
Channel									
Frequency (MHz)				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.42	20.50	20.18			
15	QPSK	1	37	20.24	20.24	20.28	21.7	0	
15	QPSK	1	74	20.32	20.19	20.08			
15	QPSK	36	0	20.50	20.59	20.45			
15	QPSK	36	20	20.48	20.50	20.53	21.7	0	
15	QPSK	36	39	20.43	20.55	20.44			
15	QPSK	75	0	20.49	20.53	20.47			
15	16QAM	1	0	20.25	20.39	20.48			
15	16QAM	1	37	20.55	20.51	20.37	21.7	0	
15	16QAM	1	74	20.25	20.36	20.25			
15	16QAM	36	0	20.42	20.57	20.48			
15	16QAM	36	20	20.51	20.55	20.55			
15	16QAM	36	39	20.54	20.54	20.47	21.7	0	
15	16QAM	75	0	20.54	20.63	20.56			
15	64QAM	1	0	20.47	20.27	20.44			
15	64QAM	1	37	20.40	20.60	20.37	21.7	0	
15	64QAM	1	74	20.26	20.29	20.38			
15	64QAM	36	0	19.89	19.80	19.89			
15	64QAM	36	20	19.81	20.09	19.79			
15	64QAM	36	39	19.95	19.82	20.11	20.7	1	
15	64QAM	75	0	19.97	20.12	19.89			
Channel									
Frequency (MHz)				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	20.38	20.31	20.20			
10	QPSK	1	25	20.24	20.26	20.16	21.7	0	
10	QPSK	1	49	20.24	20.07	20.11			
10	QPSK	25	0	20.48	20.48	20.50			
10	QPSK	25	12	20.49	20.45	20.51	21.7	0	
10	QPSK	25	25	20.45	20.43	20.48			
10	QPSK	50	0	20.51	20.46	20.47			
10	16QAM	1	0	20.33	20.46	20.48			
10	16QAM	1	25	20.46	20.55	20.42	21.7	0	
10	16QAM	1	49	20.36	20.38	20.32			
10	16QAM	25	0	20.45	20.57	20.45			
10	16QAM	25	12	20.56	20.58	20.51			
10	16QAM	25	25	20.47	20.56	20.45	21.7	0	
10	16QAM	50	0	20.57	20.60	20.56			
10	64QAM	1	0	20.35	20.46	20.29			
10	64QAM	1	25	20.56	20.33	20.29	21.7	0	
10	64QAM	1	49	20.22	20.58	20.20			
10	64QAM	25	0	19.75	19.82	19.96			
10	64QAM	25	12	19.86	19.94	19.83			
10	64QAM	25	25	19.90	19.83	19.88	20.7	1	
10	64QAM	50	0	19.95	20.09	19.84			
Channel									
Frequency (MHz)				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	20.43	20.52	20.50			
5	QPSK	1	12	20.27	20.32	20.18	21.7	0	
5	QPSK	1	24	20.30	20.13	20.06			
5	QPSK	12	0	20.51	20.46	20.50			
5	QPSK	12	7	20.46	20.55	20.52	21.7	0	
5	QPSK	12	13	20.47	20.50	20.37			
5	QPSK	25	0	20.39	20.55	20.51			
5	16QAM	1	0	20.29	20.40	20.43			
5	16QAM	1	12	20.47	20.49	20.43	21.7	0	
5	16QAM	1	24	20.31	20.43	20.30			
5	16QAM	12	0	20.45	20.51	20.46			
5	16QAM	12	7	20.48	20.56	20.58	21.7	0	
5	16QAM	12	13	20.41	20.62	20.46			
5	16QAM	25	0	20.56	20.58	20.56			
5	64QAM	1	0	20.28	20.55	20.28			
5	64QAM	1	12	20.55	20.35	20.43	21.7	0	
5	64QAM	1	24	20.29	20.40	20.18			
5	64QAM	12	0	19.81	19.95	19.81			
5	64QAM	12	7	19.74	20.06	19.73			
5	64QAM	12	13	20.04	19.94	19.90	20.7	1	
5	64QAM	25	0	19.73	20.00	19.84			

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	17.65	17.80	17.67			
20	QPSK	1	49	17.84	17.86	17.54	18.5	0	
20	QPSK	1	99	17.83	17.73	17.80			
20	QPSK	50	0	17.63	17.78	17.70			
20	QPSK	50	24	17.80	17.75	17.64	18.5	0	
20	QPSK	50	50	17.58	17.74	17.67			
20	QPSK	100	0	17.56	17.73	17.65			
20	16QAM	1	0	17.73	17.75	17.73			
20	16QAM	1	49	17.88	17.75	17.85	18.5	0	
20	16QAM	1	99	17.76	17.80	17.74			
20	16QAM	50	0	17.83	17.89	17.58			
20	16QAM	50	24	17.72	17.76	17.69	18.5	0	
20	16QAM	50	50	17.59	17.63	17.52			
20	16QAM	100	0	17.64	17.67	17.64			
20	64QAM	1	0	17.67	17.78	17.69			
20	64QAM	1	49	17.82	17.70	17.67	18.5	0	
20	64QAM	1	99	17.83	17.84	17.80			
20	64QAM	50	0	17.81	17.73	17.70			
20	64QAM	50	24	17.71	17.76	17.69	18.5	0	
20	64QAM	50	50	17.75	17.80	17.70			
20	64QAM	100	0	17.84	17.71	17.60			
Channel									
Frequency (MHz)				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	17.80	17.73	17.59			
15	QPSK	1	37	17.55	17.60	17.43	18.5	0	
15	QPSK	1	74	17.54	17.86	17.57			
15	QPSK	36	0	17.51	17.74	17.59			
15	QPSK	36	20	17.82	17.69	17.57	18.5	0	
15	QPSK	36	39	17.47	17.66	17.56			
15	QPSK	75	0	17.54	17.62	17.62			
15	16QAM	1	0	17.71	17.64	17.63			
15	16QAM	1	37	17.81	17.70	17.61	18.5	0	
15	16QAM	1	74	17.71	17.88	17.67			
15	16QAM	36	0	17.52	17.69	17.60			
15	16QAM	36	20	17.83	17.70	17.66	18.5	0	
15	16QAM	36	39	17.51	17.56	17.40			
15	16QAM	75	0	17.81	17.80	17.54			
15	64QAM	1	0	17.80	17.66	17.65			
15	64QAM	1	37	17.50	17.63	17.60	18.5	0	
15	64QAM	1	74	17.41	17.55	17.55			
15	64QAM	36	0	17.53	17.69	17.60			
15	64QAM	36	20	17.89	17.73</				



Band 38_Ant 3											
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				3780	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	21.67	21.76	21.57					
20	QPSK	1	49	21.48	21.58	21.41	22.8	0			
20	QPSK	1	99	21.56	21.42	21.34					
20	QPSK	50	0	21.39	21.74	21.51					
20	QPSK	50	24	21.42	21.63	21.45					
20	QPSK	50	50	21.62	21.58	21.41	22.8	0			
20	QPSK	100	0	21.46	21.68	21.53					
20	16QAM	1	0	21.46	21.55	21.45					
20	16QAM	1	49	21.59	21.74	21.65	22.8	0			
20	16QAM	1	99	21.57	21.53	21.40					
20	16QAM	50	0	21.32	21.52	21.27					
20	16QAM	50	24	21.45	21.53	21.53					
20	16QAM	50	50	21.59	21.58	21.45	22.8	0			
20	16QAM	100	0	21.39	21.60	21.42					
20	64QAM	1	0	21.73	21.47	21.62					
20	64QAM	1	49	21.56	21.68	21.71	22.8	0			
20	64QAM	1	99	21.50	21.74	21.56					
20	64QAM	50	0	20.92	20.57	20.42					
20	64QAM	50	24	20.43	20.64	20.44					
20	64QAM	50	50	20.53	20.46	20.39	21.8	1			
20	64QAM	100	0	20.48	20.66	20.34					
Channel				37825	38000	38175					
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	21.49	21.89	21.57					
15	QPSK	1	37	21.49	21.66	21.41	22.8	0			
15	QPSK	1	74	21.22	21.38	21.19					
15	QPSK	36	0	21.46	21.59	21.52					
15	QPSK	36	20	21.43	21.55	21.44					
15	QPSK	36	39	21.42	21.52	21.47	22.8	0			
15	QPSK	75	0	21.52	21.53	21.42					
15	16QAM	1	0	21.62	21.89	21.54					
15	16QAM	1	37	21.62	21.70	21.63	22.8	0			
15	16QAM	1	74	21.55	21.56	21.52					
15	16QAM	36	0	20.99	20.57	20.42					
15	16QAM	36	20	21.54	21.65	21.49					
15	16QAM	36	39	21.56	21.65	21.57	22.8	0			
15	16QAM	75	0	21.45	21.60	21.42					
15	64QAM	1	0	21.59	21.59	21.56					
15	64QAM	1	37	21.69	21.66	21.57	22.8	0			
15	64QAM	1	74	21.58	21.58	21.46					
15	64QAM	36	0	20.86	20.51	20.35					
15	64QAM	36	20	20.55	20.57	20.46					
15	64QAM	36	39	20.54	20.48	20.42	21.8	1			
15	64QAM	75	0	20.56	20.44	20.45					
Channel				37800	38000	38200					
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	21.47	21.51	21.29					
10	QPSK	1	25	21.48	21.58	21.47	22.8	0			
10	QPSK	1	49	21.26	21.34	21.24					
10	QPSK	25	0	21.49	21.62	21.54					
10	QPSK	25	12	21.40	21.62	21.45					
10	QPSK	25	25	21.42	21.52	21.44	22.8	0			
10	QPSK	50	0	21.45	21.51	21.52					
10	16QAM	1	0	21.57	21.64	21.60					
10	16QAM	1	25	21.57	21.71	21.60	22.8	0			
10	16QAM	1	49	21.61	21.63	21.51					
10	16QAM	25	0	21.41	21.60	21.34					
10	16QAM	25	12	21.48	21.61	21.54					
10	16QAM	25	25	21.64	21.73	21.52	22.8	0			
10	16QAM	50	0	21.43	21.58	21.53					
10	64QAM	1	0	21.53	21.51	21.55					
10	64QAM	1	25	21.53	21.65	21.62	22.8	0			
10	64QAM	1	49	21.63	21.56	21.71					
10	64QAM	25	0	20.50	20.40	20.60					
10	64QAM	25	12	20.64	20.63	20.61					
10	64QAM	25	25	20.68	20.67	20.42	21.8	1			
10	64QAM	50	0	20.29	20.71	20.59					
Channel				37775	38000	38225					
Frequency (MHz)				2572.5	2595	2617.5					
5	QPSK	1	0	21.56	21.89	21.43					
5	QPSK	1	12	21.57	21.57	21.43	22.8	0			
5	QPSK	1	24	21.32	21.33	21.20					
5	QPSK	12	0	21.51	21.63	21.64					
5	QPSK	12	7	21.45	21.63	21.45					
5	QPSK	12	13	21.44	21.48	21.52	22.8	0			
5	QPSK	25	0	21.49	21.52	21.49					
5	16QAM	1	0	21.58	21.64	21.56					
5	16QAM	1	12	21.67	21.69	21.60	22.8	0			
5	16QAM	1	24	21.55	21.68	21.51					
5	16QAM	12	0	21.35	21.54	21.43					
5	16QAM	12	7	21.61	21.61	21.50					
5	16QAM	12	13	21.55	21.64	21.58	22.8	0			
5	16QAM	25	0	21.42	21.68	21.49					
5	64QAM	1	0	21.65	21.54	21.63					
5	64QAM	1	12	21.61	21.66	21.57	22.8	0			
5	64QAM	1	24	21.53	21.63	21.36					
5	64QAM	12	0	20.40	20.35	20.52					
5	64QAM	12	7	20.52	20.58	20.43					
5	64QAM	12	13	20.46	20.63	20.73	21.8	1			
5	64QAM	25	0	20.56	20.75	20.54					

Band 41_Ant 0												
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				3970	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	20.66	20.60	20.70	20.58	20.63				
20	QPSK	1	49	20.55	20.40	20.44	20.53	20.29	21.3	0		
20	QPSK	1	99	20.50	20.40	20.45	20.52	20.58				
20	QPSK	50	0	20.51	20.55	20.68	20.55	20.50				
20	QPSK	50	24	20.53	20.54	20.59	20.51	20.50				
20	QPSK	50	50	20.56	20.51	20.61	20.50	20.53	21.3	0		
20	QPSK	100	0	20.53	20.41	20.65	20.55	20.58				
20	16QAM	1	0	20.43	20.50	20.55	20.47	20.44				
20	16QAM	1	49	20.63	20.66	20.69	20.52	20.64	21.3	0		
20	16QAM	1	99	20.35	20.45	20.45	20.44	20.43				
20	16QAM	50	0	20.43	20.38	20.42	20.31	20.29				
20	16QAM	50	24	20.50	20.42	20.47	20.45	20.37	21.3	0		
20	16QAM	50	50	20.42	20.54	20.57	20.51	20.53				
20	16QAM	100	0	20.42	20.42	20.50	20.42	20.44				
20	64QAM	1	0	20.37	20.21	20.30	20.46	20.30				
20	64QAM	1	49	20.63	20.44	20.62	20.61	20.45	21.3	0		
20	64QAM	1	99	20.39	20.62	20.45	20.37	20.58				
20	64QAM	50	0	19.14	19.18	19.22	19.49	19.30				
20	64QAM	50	24	19.42	19.22	19.37	19.59	19.43				
20	64QAM	50	50	19.33	19.31	19.52	19.44	19.43	20.3	1		
20	64QAM	100	0	19.19	19.28	19.37	19.28	19.48				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	20.42	20.46	20.46	20.04	20.12				
15	QPSK	1	37	20.42	20.30	20.34	19.98	20.29	21.3	0		
15	QPSK	1	74	20.45	20.32	20.26	20.11	19.99				
15	QPSK	36	0	20.54	20.45	20.60	20.49	20.51				
15	QPSK	36	20	20.40	20.45	20.56	20.44	20.43				
15	QPSK	36	39	20.47	20.43	20.51	20.49	20.40	21.3	0		
15	QPSK	75	0	20.51	20.39	20.51	20.41	20.48				
15	16QAM	1	0	20.42	20							



Band 41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.11	15.05	15.26	15.20	15.15	16.6	0
20	QPSK	1	49	15.10	15.02	15.20	15.18	15.09		
20	QPSK	1	99	15.07	15.01	15.10	15.03	15.02		
20	QPSK	50	0	15.16	15.13	15.23	15.06	15.17		
20	QPSK	50	24	15.05	15.05	15.17	15.05	15.13		
20	QPSK	50	50	15.09	15.08	15.18	15.02	15.10		
20	QPSK	100	0	15.08	15.17	15.20	15.03	15.08		
20	16QAM	1	0	15.17	15.17	15.25	15.17	15.15		
20	16QAM	1	49	15.10	15.01	15.11	15.07	15.08		
20	16QAM	1	99	15.13	15.16	15.21	15.13	15.16		
20	16QAM	50	0	15.12	15.10	15.14	15.07	15.03		
20	16QAM	50	24	15.16	15.13	15.20	15.08	15.10		
20	16QAM	50	50	15.10	15.05	15.17	15.14	15.09		
20	16QAM	100	0	15.15	15.08	15.20	15.16	15.14		
20	64QAM	1	0	15.09	15.17	15.19	15.17	15.12		
20	64QAM	1	49	15.15	15.12	15.18	15.06	15.16		
20	64QAM	1	99	15.02	15.02	15.09	15.03	15.03		
20	64QAM	50	0	15.06	15.05	15.17	15.10	15.06		
20	64QAM	50	24	15.11	15.13	15.21	15.14	15.15		
20	64QAM	50	50	15.08	15.11	15.18	15.07	15.16		
20	64QAM	100	0	15.05	15.08	15.11	15.06	15.01		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	15.01	15.00	15.21	15.07	15.14		
15	QPSK	1	37	15.04	15.01	15.14	15.07	15.11		
15	QPSK	1	74	15.01	15.02	15.05	15.01	15.12		
15	QPSK	36	0	15.15	15.10	15.20	15.06	15.13		
15	QPSK	36	20	15.01	15.04	15.06	15.02	15.01		
15	QPSK	36	39	15.02	15.06	15.13	15.04	15.05		
15	QPSK	75	0	15.04	15.15	15.16	15.06	15.03		
15	16QAM	1	0	15.06	15.08	15.17	15.15	15.05		
15	16QAM	1	37	15.00	15.01	15.06	15.01	15.05		
15	16QAM	1	74	15.06	15.11	15.14	15.08	15.05		
15	16QAM	36	0	15.08	15.05	15.07	15.02	15.04		
15	16QAM	36	20	15.14	15.09	15.17	15.06	15.05		
15	16QAM	36	39	15.01	15.01	15.14	15.10	15.01		
15	16QAM	75	0	15.09	15.02	15.08	15.14	15.06		
15	64QAM	1	0	15.04	15.05	15.14	15.08	15.01		
15	64QAM	1	37	15.09	15.01	15.06	15.03	15.10		
15	64QAM	1	74	15.04	15.02	15.02	15.08	15.01		
15	64QAM	36	0	15.00	15.03	15.10	15.06	15.01		
15	64QAM	36	20	15.04	15.10	15.18	15.09	15.07		
15	64QAM	36	39	15.00	15.06	15.06	15.06	15.14		
15	64QAM	75	0	15.04	15.03	15.00	15.01	15.04		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	15.04	15.04	15.18	15.20	15.03		
10	QPSK	1	25	15.04	15.00	15.11	15.14	15.00		
10	QPSK	1	49	15.01	15.02	15.07	15.14	15.02		
10	QPSK	25	0	15.12	15.09	15.20	15.05	15.13		
10	QPSK	25	12	15.02	15.04	15.12	15.04	15.06		
10	QPSK	25	25	15.05	15.04	15.07	15.06	15.01		
10	QPSK	50	0	15.06	15.11	15.16	15.01	15.05		
10	16QAM	1	0	15.09	15.12	15.18	15.08	15.08		
10	16QAM	1	25	15.03	15.02	15.06	15.02	15.00		
10	16QAM	1	49	15.07	15.06	15.12	15.11	15.10		
10	16QAM	25	0	15.00	15.08	15.10	15.03	15.01		
10	16QAM	25	12	15.14	15.09	15.16	15.04	15.06		
10	16QAM	25	25	15.05	15.01	15.15	15.08	15.04		
10	16QAM	50	0	15.13	15.01	15.09	15.06	15.03		
10	64QAM	1	0	15.00	15.11	15.17	15.06	15.08		
10	64QAM	1	25	15.12	15.03	15.11	15.03	15.04		
10	64QAM	1	49	15.03	15.00	15.05	15.14	15.01		
10	64QAM	25	0	15.04	15.00	15.14	15.06	15.04		
10	64QAM	25	12	15.05	15.07	15.11	15.03	15.06		
10	64QAM	25	25	15.02	15.05	15.10	15.06	15.06		
10	64QAM	50	0	15.02	15.03	15.06	15.02	15.17		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	15.05	15.02	15.19	15.20	15.04		
5	QPSK	1	12	15.00	15.03	15.18	15.11	15.04		
5	QPSK	1	24	15.02	15.02	15.06	15.03	15.06		
5	QPSK	12	0	15.13	15.04	15.17	15.02	15.13		
5	QPSK	12	7	15.00	15.03	15.11	15.05	15.11		
5	QPSK	12	13	15.00	15.06	15.14	15.03	15.08		
5	QPSK	25	0	15.02	15.15	15.11	15.17	15.04		
5	16QAM	1	0	15.09	15.15	15.17	15.05	15.12		
5	16QAM	1	12	15.01	15.01	15.03	15.01	15.06		
5	16QAM	1	24	15.02	15.10	15.15	15.01	15.10		
5	16QAM	12	0	15.01	15.06	15.06	15.02	15.08		
5	16QAM	12	7	15.10	15.01	15.11	15.00	15.07		
5	16QAM	12	13	15.01	15.03	15.06	15.10	15.05		
5	16QAM	25	0	15.08	15.03	15.12	15.10	15.07		
5	64QAM	1	0	15.07	15.09	15.13	15.06	15.10		
5	64QAM	1	12	15.10	15.02	15.13	15.02	15.05		
5	64QAM	1	24	15.01	15.03	15.00	15.05	15.06		
5	64QAM	12	0	15.03	15.01	15.07	15.05	15.02		
5	64QAM	12	7	15.09	15.05	15.10	15.05	15.10		
5	64QAM	12	13	15.04	15.07	15.08	15.02	15.05		
5	64QAM	25	0	15.01	15.06	15.00	15.00	15.01		

Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.11	15.05	15.26	15.20	15.15	16.6	0
20	QPSK	1	49	15.10	15.02	15.20	15.18	15.09		
20	QPSK	1	99	15.07	15.01	15.10	15.03	15.02		
20	QPSK	50	0	15.16	15.13	15.23	15.06	15.17		
20	QPSK	50	24	15.05	15.05	15.17	15.05	15.13		
20	QPSK	50	50	15.09	15.08	15.18	15.02	15.10		
20	QPSK	100	0	15.08	15.17	15.20	15.03	15.08		
20	16QAM	1	0	15.17	15.17	15.25	15.17	15.15		
20	16QAM	1	49	15.10	15.01	15.11	15.07	15.08		
20	16QAM	1	99	15.13	15.16	15.21	15.13	15.16		
20	16QAM	50	0	15.12	15.10	15.14	15.07	15.03		
20	16QAM	50	24	15.16	15.13	15.20	15.08	15.10		
20	16QAM	50	50	15.10	15.05	15.17	15.14	15.09		
20	16QAM	100	0	15.15	15.08	15.20	15.16	15.14		
20	64QAM	1	0	15.09	15.17	15.19	15.17	15.12		
20	64QAM	1	49	15.15	15.12	15.18	15.06	15.16		
20	64QAM	1	99	15.02	15.02	15.09	15.03	15.03		
20	64QAM	50	0	15.06	15.05	15.17	15.10	15.06		
20	64QAM	50	24	15.11	15.13	15.21	15.14	15.15		
20	64QAM	50	50	15.08	15.11	15.18	15.07	15.16		
20	64QAM	100	0	15.05	15.08	15.11	15.06	15.01		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5						



Band 5_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	24.70	24.73	24.65					
5	QPSK	1	25	24.67	24.70	24.62	25.7	0			
10	QPSK	1	49	24.68	24.70	24.58					
10	QPSK	25	0	23.77	23.86	23.83					
10	QPSK	25	12	23.72	23.84	23.77					
10	QPSK	25	25	23.71	23.82	23.79	24.7	1			
10	QPSK	50	0	23.71	23.79	23.71					
10	16QAM	1	0	23.77	23.89	23.82					
10	16QAM	1	25	23.76	23.91	23.76	24.7	1			
10	16QAM	1	49	23.81	23.91	23.85					
10	16QAM	25	0	22.84	22.84	22.77					
10	16QAM	25	12	22.87	22.87	22.77					
10	16QAM	25	25	22.73	22.76	22.76	23.7	2			
10	16QAM	50	0	22.70	22.78	22.77					
10	84QAM	1	0	22.82	22.94	22.81					
10	84QAM	1	25	22.75	22.82	22.78	23.7	2			
10	84QAM	1	49	22.85	22.91	22.85					
10	84QAM	25	0	21.74	21.79	21.79					
10	84QAM	25	12	21.85	21.85	21.72					
10	84QAM	25	25	21.67	21.79	21.76	22.7	3			
10	84QAM	50	0	21.62	21.70	21.68					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	24.70	24.67	24.40					
5	QPSK	1	12	24.67	24.72	24.44	25.7	0			
5	QPSK	1	24	24.57	24.51	24.33					
5	QPSK	12	0	23.66	23.72	23.78					
5	QPSK	12	7	23.74	23.59	23.65					
5	QPSK	12	13	23.51	23.82	23.69	24.7	1			
5	QPSK	25	0	23.46	23.71	23.46					
5	16QAM	1	0	23.51	23.94	23.58					
5	16QAM	1	12	23.66	23.73	23.75	24.7	1			
5	16QAM	1	24	23.57	23.67	23.63					
5	16QAM	12	0	22.86	22.81	22.79					
5	16QAM	12	7	22.88	22.72	22.61					
5	16QAM	12	13	22.68	22.55	22.59	23.7	2			
5	16QAM	25	0	22.76	22.53	22.78					
5	84QAM	1	0	22.77	22.93	22.89					
5	84QAM	1	12	22.78	22.85	22.78	23.7	2			
5	84QAM	1	24	22.87	22.73	22.67					
5	84QAM	12	0	21.84	21.78	21.58					
5	84QAM	12	7	21.59	21.71	21.48	22.7	3			
5	84QAM	12	13	21.61	21.73	21.82					
5	84QAM	25	0	21.50	21.72	21.61					
Channel				20415	20525	20635					
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	24.70	24.58	24.64					
3	QPSK	1	8	24.71	24.69	24.68	25.7	0			
3	QPSK	1	14	24.61	24.45	24.36					
3	QPSK	8	0	23.66	23.78	23.68					
3	QPSK	8	4	23.49	23.87	23.49					
3	QPSK	8	7	23.61	23.77	23.85	24.7	1			
3	QPSK	15	0	23.45	23.67	23.70					
3	16QAM	1	0	23.58	23.85	23.87					
3	16QAM	1	8	23.51	23.68	23.65	24.7	1			
3	16QAM	1	14	23.84	23.70	23.58					
3	16QAM	8	0	22.69	22.65	22.90					
3	16QAM	8	4	22.75	22.73	22.53					
3	16QAM	8	7	22.48	22.54	22.78	23.7	2			
3	16QAM	15	0	22.58	22.69	22.82					
3	84QAM	1	0	22.83	22.96	22.86					
3	84QAM	1	8	22.60	22.59	22.76	23.7	2			
3	84QAM	1	14	22.76	22.75	22.72					
3	84QAM	8	0	21.54	21.70	21.54					
3	84QAM	8	4	21.67	21.57	21.65					
3	84QAM	8	7	21.41	21.61	21.57	22.7	3			
3	84QAM	15	0	21.68	21.58	21.76					
Channel				20407	20525	20643					
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	24.44	24.66	24.65					
1.4	QPSK	1	3	24.46	24.72	24.59					
1.4	QPSK	1	5	24.52	24.49	24.61	25.7	0			
1.4	QPSK	3	0	24.63	24.70	24.40					
1.4	QPSK	3	1	24.52	24.57	24.54					
1.4	QPSK	3	3	24.46	24.43	24.56					
1.4	QPSK	6	0	23.79	23.69	23.75	24.7	1			
1.4	16QAM	1	0	23.52	23.73	23.84					
1.4	16QAM	1	3	23.71	23.92	23.48					
1.4	16QAM	1	5	23.69	23.97	23.63	24.7	1			
1.4	16QAM	3	0	23.74	23.67	23.61					
1.4	16QAM	3	1	23.63	23.72	23.55					
1.4	16QAM	3	3	23.57	23.61	23.57					
1.4	16QAM	6	0	22.42	22.69	22.50	23.7	2			
1.4	84QAM	1	0	22.81	22.66	22.60					
1.4	84QAM	1	3	22.56	22.78	22.51					
1.4	84QAM	1	5	22.92	22.90	22.75	23.7	2			
1.4	84QAM	3	0	22.59	22.57	22.70					
1.4	84QAM	3	1	22.58	22.74	22.72					
1.4	84QAM	3	3	22.46	22.80	22.57					
1.4	84QAM	6	0	21.68	21.48	21.74	22.7	3			

Band 5_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	24.64	24.67	24.65					
10	QPSK	1	25	24.55	24.61	24.62	25.5	0			
10	QPSK	1	49	24.62	24.63	24.60					
10	QPSK	25	0	23.55	23.63	23.60					
10	QPSK	25	12	23.41	23.52	23.42					
10	QPSK	25	25	23.52	23.62	23.59	24.5	1			
10	QPSK	50	0	23.52	23.60	23.53					
10	16QAM	1	0	23.72	23.75	23.60					
10	16QAM	1	25	23.61	23.72	23.59	24.5	1			
10	16QAM	1	49	23.62	23.71	23.63					
10	16QAM	25	0	22.43	22.53	22.45					
10	16QAM	25	12	22.47	22.62	22.50					
10	16QAM	25	25	22.50	22.63	22.63	23.5	2			
10	16QAM	50	0	22.52	22.57	22.47					
10	84QAM	1	0	22.59	22.67	22.64					
10	84QAM	1	25	22.65	22.65	22.63	23.5	2			
10	84QAM	1	49	22.56	22.58	22.44					
10	84QAM	25	0	21.42	21.54	21.45					
10	84QAM	25	12	21.62	21.63	21.48					
10	84QAM	25	25	21.59	21.66	21.59	22.5	3			
10	84QAM	50	0	21.49	21.58	21.54					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	24.59	24.64	24.53					
5	QPSK	1	12	24.53	24.65	24.67	25.5	0			
5	QPSK	1	24	24.63	24.50	24.37					
5	QPSK	12	0	23.29	23.58	23.54					
5	QPSK	12	7	23.29	23.43	23.34					
5	QPSK	12	13	23.57	23.68	23.34	24.5	1			
5	QPSK	25	0	23.44	23.53	23.58					
5	16QAM	1	0	23.80	23.75	23.53					
5	16QAM	1	12	23.65	23.59	23.36	24.5	1			
5	16QAM	1	24	23.63	23.56	23.50					
5	16QAM	12	0	22.39	22.60	22.30					
5	16QAM	12	7	22.48	22.67	22.47					
5	16QAM	12	13	22.24	22.43	22.38	23.5	2			
5											



Band 7_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				20850	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	18.55	18.68	18.56					
20	QPSK	1	49	18.50	18.61	18.53	19	0			
20	QPSK	1	99	18.62	18.55	18.52					
20	QPSK	50	0	18.52	18.63	18.57					
20	QPSK	50	24	18.50	18.57	18.45					
20	QPSK	50	50	18.49	18.56	18.47	19	0			
20	QPSK	100	0	18.43	18.54	18.44					
20	16QAM	1	0	18.63	18.62	18.60					
20	16QAM	1	49	18.63	18.67	18.54	19	0			
20	16QAM	1	99	18.48	18.60	18.50					
20	16QAM	50	0	18.62	18.62	18.54					
20	16QAM	50	24	18.50	18.57	18.46					
20	16QAM	50	50	18.50	18.59	18.47	19	0			
20	16QAM	100	0	18.57	18.59	18.51					
20	64QAM	1	0	18.52	18.56	18.56					
20	64QAM	1	49	18.54	18.62	18.54	19	0			
20	64QAM	1	99	18.65	18.59	18.44					
20	64QAM	50	0	18.62	18.61	18.66					
20	64QAM	50	24	18.63	18.60	18.55					
20	64QAM	50	50	18.45	18.59	18.39	19	0			
20	64QAM	100	0	18.41	18.57	18.62					
Channel				20825	21100	21375					
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	18.27	18.41	18.52					
15	QPSK	1	37	18.41	18.55	18.40	19	0			
15	QPSK	1	74	18.43	18.51	18.50					
15	QPSK	36	0	18.49	18.63	18.50					
15	QPSK	36	20	18.40	18.52	18.40					
15	QPSK	36	39	18.38	18.46	18.42	19	0			
15	QPSK	75	0	18.37	18.41	18.40					
15	16QAM	1	0	18.47	18.59	18.55					
15	16QAM	1	37	18.61	18.60	18.44	19	0			
15	16QAM	1	74	18.43	18.51	18.50					
15	16QAM	36	0	18.56	18.54	18.46					
15	16QAM	36	20	18.48	18.50	18.38					
15	16QAM	36	39	18.44	18.58	18.37	19	0			
15	16QAM	75	0	18.53	18.59	18.44					
15	64QAM	1	0	18.51	18.40	18.32					
15	64QAM	1	37	18.26	18.39	18.43	19	0			
15	64QAM	1	74	18.31	18.45	18.20					
15	64QAM	36	0	18.36	18.67	18.67					
15	64QAM	36	20	18.56	18.44	18.61					
15	64QAM	36	39	18.37	18.40	18.40	19	0			
15	64QAM	75	0	18.26	18.38	18.44					
Channel				20800	21100	21400					
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	18.55	18.50	18.52					
10	QPSK	1	25	18.44	18.55	18.52	19	0			
10	QPSK	1	49	18.48	18.44	18.46					
10	QPSK	25	0	18.51	18.61	18.47					
10	QPSK	25	12	18.47	18.55	18.36					
10	QPSK	25	25	18.38	18.53	18.31	19	0			
10	QPSK	50	0	18.41	18.41	18.31					
10	16QAM	1	0	18.41	18.55	18.53					
10	16QAM	1	25	18.58	18.58	18.41	19	0			
10	16QAM	1	49	18.36	18.47	18.40					
10	16QAM	25	0	18.49	18.60	18.53					
10	16QAM	25	12	18.43	18.52	18.33					
10	16QAM	25	25	18.50	18.58	18.47	19	0			
10	16QAM	50	0	18.48	18.49	18.48					
10	64QAM	1	0	18.44	18.40	18.58					
10	64QAM	1	25	18.49	18.63	18.53	19	0			
10	64QAM	1	49	18.60	18.49	18.48					
10	64QAM	25	0	18.43	18.37	18.43					
10	64QAM	25	12	18.44	18.39	18.59					
10	64QAM	25	25	18.25	18.55	18.40	19	0			
10	64QAM	50	0	18.18	18.62	18.57					
Channel				20775	21100	21425					
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	18.34	18.55	18.40					
5	QPSK	1	12	18.34	18.49	18.51	19	0			
5	QPSK	1	24	18.52	18.51	18.40					
5	QPSK	12	0	18.45	18.53	18.52					
5	QPSK	12	7	18.37	18.46	18.40					
5	QPSK	12	13	18.46	18.56	18.31	19	0			
5	QPSK	25	0	18.38	18.42	18.36					
5	16QAM	1	0	18.45	18.52	18.48					
5	16QAM	1	12	18.54	18.65	18.51	19	0			
5	16QAM	1	24	18.43	18.57	18.40					
5	16QAM	12	0	18.50	18.62	18.46					
5	16QAM	12	7	18.42	18.53	18.34					
5	16QAM	12	13	18.49	18.52	18.34	19	0			
5	16QAM	25	0	18.48	18.49	18.51					
5	64QAM	1	0	18.38	18.35	18.31					
5	64QAM	1	12	18.46	18.49	18.34	19	0			
5	64QAM	1	24	18.63	18.48	18.42					
5	64QAM	12	0	18.57	18.59	18.50					
5	64QAM	12	7	18.48	18.54	18.30					
5	64QAM	12	13	18.29	18.48	18.34	19	0			
5	64QAM	25	0	18.27	18.55	18.38					

Band 7_Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				20850	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	18.52	18.66	18.57					
20	QPSK	1	49	18.51	18.52	18.56	20.5	0			
20	QPSK	1	99	18.50	18.53	18.52					
20	QPSK	50	0	18.55	18.65	18.55					
20	QPSK	50	24	18.51	18.57	18.50					
20	QPSK	50	50	18.52	18.59	18.51	20.5	0			
20	QPSK	100	0	18.52	18.57	18.53					
20	16QAM	1	0	18.63	18.59	18.61					
20	16QAM	1	49	18.62	18.64	18.65	20.5	0			
20	16QAM	1	99	18.64	18.64	18.63					
20	16QAM	50	0	18.51	18.55	18.58					
20	16QAM	50	24	18.52	18.51	18.58					
20	16QAM	50	50	18.55	18.50	18.52	20.5	0			
20	16QAM	100	0	18.52	18.55	18.54					
20	64QAM	1	0	18.59	18.56	18.52					
20	64QAM	1	49	18.53	18.59	18.64	20.5	0			
20	64QAM	1	99	18.65	18.61	18.57					
20	64QAM	50	0	18.50	18.55	18.56					
20	64QAM	50	24	18.52	18.50	18.56	20.5	0			
20	64QAM	50	50	18.54	18.51	18.59					
20	64QAM	100	0	18.52	18.56	18.52					
Channel				20825	21100	21375					
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	18.57	18.58	18.58					
15	QPSK	1	37	18.59	18.58	18.57	20.5	0			
15	QPSK	1	74	18.51	18.62	18.56					
15	QPSK	36	0	18.63	18.57	18.52					
15	QPSK	36	20	18.55	18.55	18.56	20.5	0			
15	QPSK	36	39	18.61	18.62	18.59					
15	QPSK	75	0	18.56	18.58	18.58					
15	16QAM	1	0	18.50	18.63	18.61					
15	16QAM	1	37	18.50	18.51	18.52	20.5	0			
15	16QAM	1	74	18.51	18.62	18.56					
15	16QAM	36	0	18.54	18.53	18.55					
15	16QAM	36	20	18.60	18.52	18.57					
15	16QAM	36	39	18.63	18.57	18.60	2				



Band 12_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.46	24.51	24.45	25.5	0		
10	QPSK	1	25	24.40	24.41	24.43				
10	QPSK	1	49	24.33	24.35	24.35				
10	QPSK	25	0	23.43	23.33	23.39				
10	QPSK	25	12	23.33	23.37	23.33				
10	QPSK	25	25	23.31	23.42	23.37	24.5	1		
10	QPSK	50	0	23.42	23.50	23.37				
10	16QAM	1	0	23.52	23.60	23.54				
10	16QAM	1	25	23.37	23.50	23.46	24.5	1		
10	16QAM	1	49	23.52	23.61	23.47				
10	16QAM	25	0	22.46	22.55	22.44				
10	16QAM	25	12	22.41	22.41	22.28				
10	16QAM	25	25	22.41	22.43	22.31	23.5	2		
10	16QAM	50	0	22.40	22.49	22.42				
10	64QAM	1	0	22.35	22.48	22.34				
10	64QAM	1	25	22.52	22.56	22.55	23.5	2		
10	64QAM	1	49	22.40	22.41	22.41				
10	64QAM	25	0	21.51	21.56	21.43				
10	64QAM	25	12	21.29	21.42	21.29	22.5	3		
10	64QAM	25	25	21.30	21.40	21.40				
10	64QAM	50	0	21.31	21.46	21.34				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	24.28	24.47	24.29	25.5	0		
5	QPSK	1	12	24.14	24.27	24.46				
5	QPSK	1	24	24.05	24.34	24.34				
5	QPSK	12	0	23.16	23.25	23.38				
5	QPSK	12	7	23.10	23.20	23.38	24.5	1		
5	QPSK	12	13	23.22	23.28	23.43				
5	QPSK	25	0	23.35	23.24	23.34				
5	16QAM	1	0	23.26	23.43	23.35				
5	16QAM	1	12	23.09	23.35	23.23	24.5	1		
5	16QAM	1	24	23.31	23.38	23.49				
5	16QAM	12	0	22.44	22.28	22.20				
5	16QAM	12	7	22.19	22.45	22.36				
5	16QAM	12	13	22.40	22.50	22.18	23.5	2		
5	16QAM	25	0	22.36	22.27	22.17				
5	64QAM	1	0	22.28	22.23	22.33				
5	64QAM	1	12	22.25	22.45	22.62	23.5	2		
5	64QAM	1	24	22.35	22.31	22.41				
5	64QAM	12	0	21.38	21.43	21.29				
5	64QAM	12	7	21.37	21.35	21.08	22.5	3		
5	64QAM	12	13	21.30	21.25	21.39				
5	64QAM	25	0	21.39	21.41	21.33				
Channel				23025	23095	23165				
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	24.48	24.48	24.40	25.5	0		
3	QPSK	1	8	24.38	24.42	24.49				
3	QPSK	1	14	24.36	24.19	24.17				
3	QPSK	8	0	23.21	23.30	23.26				
3	QPSK	8	4	23.11	23.26	23.07	24.5	1		
3	QPSK	8	7	23.09	23.15	23.41				
3	QPSK	15	0	23.35	23.24	23.24				
3	16QAM	1	0	23.42	23.50	23.51				
3	16QAM	1	8	23.25	23.56	23.54	24.5	1		
3	16QAM	1	14	23.50	23.53	23.42				
3	16QAM	8	0	22.23	22.33	22.36				
3	16QAM	8	4	22.19	22.30	22.19				
3	16QAM	8	7	22.28	22.46	22.28	23.5	2		
3	16QAM	15	0	22.41	22.24	22.40				
3	64QAM	1	0	22.15	22.34	22.09				
3	64QAM	1	8	22.35	22.58	22.48	23.5	2		
3	64QAM	1	14	22.31	22.15	22.47				
3	64QAM	8	0	21.51	21.41	21.22				
3	64QAM	8	4	21.27	21.35	21.30	22.5	3		
3	64QAM	8	7	21.31	21.44	21.23				
3	64QAM	15	0	21.04	21.50	21.28				
Channel				23017	23095	23173				
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	24.45	24.47	24.45	25.5	0		
1.4	QPSK	1	3	24.34	24.44	24.32				
1.4	QPSK	1	5	24.30	24.22	24.30				
1.4	QPSK	3	0	24.32	24.32	24.10				
1.4	QPSK	3	1	24.14	24.24	24.16				
1.4	QPSK	3	3	24.04	24.13	24.30				
1.4	QPSK	6	0	23.26	23.43	23.23	24.5	1		
1.4	16QAM	1	0	23.38	23.51	23.36				
1.4	16QAM	1	3	23.44	23.54	23.41				
1.4	16QAM	1	5	23.58	23.55	23.19	24.5	1		
1.4	16QAM	3	0	23.29	23.37	23.09				
1.4	16QAM	3	1	23.32	23.35	23.22				
1.4	16QAM	3	3	23.11	23.41	23.18				
1.4	16QAM	6	0	22.19	22.49	22.39	23.5	2		
1.4	64QAM	1	0	22.19	22.50	22.40				
1.4	64QAM	1	3	22.47	22.43	22.30				
1.4	64QAM	1	5	22.21	22.19	22.24	23.5	2		
1.4	64QAM	3	0	22.46	22.46	22.06				
1.4	64QAM	3	1	22.05	22.30	22.25				
1.4	64QAM	3	3	22.24	22.29	22.19				
1.4	64QAM	6	0	21.05	21.20	21.08	22.5	3		

Band 12_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	23.67	23.70	23.65	25	0		
10	QPSK	1	25	23.60	23.67	23.62				
10	QPSK	1	49	23.63	23.65	23.64				
10	QPSK	25	0	22.71	22.50	22.55				
10	QPSK	25	12	22.48	22.63	22.48				
10	QPSK	25	25	22.62	22.67	22.55	24	1		
10	QPSK	50	0	22.66	22.78	22.72				
10	16QAM	1	0	22.55	22.62	22.59				
10	16QAM	1	25	22.64	22.73	22.69	24	1		
10	16QAM	1	49	22.55	22.66	22.64				
10	16QAM	25	0	21.67	21.80	21.79				
10	16QAM	25	12	21.54	21.56	21.42				
10	16QAM	25	25	21.49	21.51	21.41	23	2		
10	16QAM	50	0	21.63	21.68	21.65				
10	64QAM	1	0	21.50	21.65	21.50				
10	64QAM	1	25	21.58	21.71	21.57	23	2		
10	64QAM	1	49	21.57	21.61	21.48				
10	64QAM	25	0	20.72	20.88	20.76				
10	64QAM	25	12	20.40	20.54	20.39	22	3		
10	64QAM	25	25	20.58	20.60	20.46				
10	64QAM	50	0	20.48	20.61	20.52				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	23.58	23.63	23.51	25	0		
5	QPSK	1	12	23.61	23.55	23.42				
5	QPSK	1	24	23.65	23.67	23.54				
5	QPSK	12	0	22.74	22.70	22.49				
5	QPSK	12	7	22.25	22.53	22.45				
5	QPSK	12	13	22.49	22.71	22.38	24	1		
5	QPSK	25	0	22.54	22.51	22.57				
5	16QAM	1	0	22.61	22.43	22.63				
5	16QAM	1	12	22.53	22.48	22.45	24	1		
5	16QAM	1	24	22.43	22.61	22.52				
5	16QAM	12	0	21.75	21.56	21.86				
5	16QAM	12	7	21.43	21.39	21.38				
5	16QAM	12	13	21.45	21.54	21.37	23	2		
5	16QAM	25	0	21.37	21.43	21.43				
5	64QAM	1	0	21.45	21.69	21.54				
5	64QAM	1	12	21.43	21.79	21.51	23	2		
5	64QAM	1	24							



Band 66_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	18.07	18.18	18.01				
20	QPSK	1	49	18.01	18.02	17.85	19.7	0		
20	QPSK	1	99	18.03	18.06	17.88				
20	QPSK	50	0	18.03	18.15	18.07				
20	QPSK	50	24	17.98	18.05	18.07				
20	QPSK	50	50	18.06	18.05	17.85	19.7	0		
20	QPSK	100	0	17.98	18.12	17.89				
20	16QAM	1	0	18.05	18.10	17.85				
20	16QAM	1	49	18.10	18.04	17.81	19.7	0		
20	16QAM	1	99	18.03	18.06	17.87				
20	16QAM	50	0	18.15	18.10	17.92				
20	16QAM	50	24	17.86	17.90	17.85				
20	16QAM	50	50	17.98	18.01	17.90	19.7	0		
20	16QAM	100	0	17.94	18.11	18.06				
20	64QAM	1	0	18.01	17.93	17.88				
20	64QAM	1	49	17.97	18.03	18.10	19.7	0		
20	64QAM	1	99	18.03	18.06	17.97				
20	64QAM	50	0	17.76	18.07	18.03				
20	64QAM	50	24	17.93	18.06	17.97	19.7	0		
20	64QAM	50	50	17.88	17.93	17.73				
20	64QAM	100	0	17.89	17.92	17.88				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	17.82	18.00	17.77				
15	QPSK	1	37	17.99	17.90	17.79	19.7	0		
15	QPSK	1	74	17.87	17.86	17.83				
15	QPSK	36	0	17.94	18.06	18.02				
15	QPSK	36	20	17.81	18.01	17.88	19.7	0		
15	QPSK	36	39	17.99	17.87	17.81				
15	QPSK	75	0	17.90	18.02	17.84				
15	16QAM	1	0	17.92	18.05	17.73				
15	16QAM	1	37	18.10	18.03	17.82	19.7	0		
15	16QAM	1	74	17.81	17.88	17.78				
15	16QAM	36	0	18.10	18.05	17.81				
15	16QAM	36	20	17.77	17.90	17.72	19.7	0		
15	16QAM	36	39	17.94	17.88	17.71				
15	16QAM	75	0	17.84	18.02	18.09				
15	64QAM	1	0	17.84	18.01	17.89				
15	64QAM	1	37	17.77	17.93	17.76	19.7	0		
15	64QAM	1	74	18.03	17.98	17.78				
15	64QAM	36	0	17.75	17.97	18.02				
15	64QAM	36	20	17.70	17.73	17.73	19.7	0		
15	64QAM	36	39	17.71	17.91	17.77				
15	64QAM	75	0	17.74	17.74	17.74				
Channel				132022	132322	132622				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	17.89	18.06	17.80				
10	QPSK	1	25	17.99	18.00	17.88	19.7	0		
10	QPSK	1	49	17.89	17.86	17.87				
10	QPSK	25	0	17.99	17.99	17.90				
10	QPSK	25	12	17.85	18.02	17.88	19.7	0		
10	QPSK	25	25	17.88	17.93	17.85				
10	QPSK	50	0	17.99	18.02	17.76				
10	16QAM	1	0	17.99	17.99	17.81				
10	16QAM	1	25	18.00	18.02	17.81	19.7	0		
10	16QAM	1	49	17.91	17.86	17.78				
10	16QAM	25	0	18.01	17.98	17.89				
10	16QAM	25	12	17.85	17.89	17.78	19.7	0		
10	16QAM	25	25	17.88	17.89	17.81				
10	16QAM	50	0	17.84	17.96	18.03				
10	64QAM	1	0	17.76	17.87	17.71				
10	64QAM	1	25	17.79	17.93	17.87	19.7	0		
10	64QAM	1	49	17.81	17.91	17.87				
10	64QAM	25	0	17.79	17.76	17.78				
10	64QAM	25	12	17.82	17.79	17.72	19.7	0		
10	64QAM	25	25	17.70	17.76	17.77				
10	64QAM	50	0	17.72	17.75	17.71				
Channel				131997	132322	132647				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	17.92	17.90	18.03				
5	QPSK	1	12	17.96	17.98	17.90	19.7	0		
5	QPSK	1	24	17.96	17.92	17.85				
5	QPSK	12	0	18.02	17.93	17.89				
5	QPSK	12	7	17.83	18.03	17.88	19.7	0		
5	QPSK	12	13	17.91	17.93	17.86				
5	QPSK	25	0	18.00	17.90	17.87				
5	16QAM	1	0	18.05	18.02	17.84				
5	16QAM	1	12	18.10	18.04	17.74	19.7	0		
5	16QAM	1	24	17.81	17.88	17.76				
5	16QAM	12	0	18.09	17.93	17.86				
5	16QAM	12	7	17.87	17.90	17.78	19.7	0		
5	16QAM	12	13	17.98	17.87	17.83				
5	16QAM	25	0	17.91	17.99	18.09				
5	64QAM	1	0	17.72	17.71	17.73				
5	64QAM	1	12	17.78	18.04	17.80	19.7	0		
5	64QAM	1	24	17.97	17.79	18.01				
5	64QAM	12	0	17.83	17.93	18.07				
5	64QAM	12	7	17.79	17.76	18.05	19.7	0		
5	64QAM	12	13	17.88	18.05	17.71				
5	64QAM	25	0	17.87	17.86	17.82				
Channel				131987	132322	132657				
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	17.88	17.84	18.02				
3	QPSK	1	8	17.88	17.92	17.92	19.7	0		
3	QPSK	1	14	17.88	17.87	17.84				
3	QPSK	8	0	17.91	18.03	17.98				
3	QPSK	8	4	17.93	17.94	17.94	19.7	0		
3	QPSK	8	7	17.89	17.86	17.86				
3	QPSK	15	0	17.97	17.95	17.83				
3	16QAM	1	0	17.92	18.05	17.79				
3	16QAM	1	8	18.03	18.02	17.78	19.7	0		
3	16QAM	1	14	17.85	17.92	17.72				
3	16QAM	8	0	18.05	17.96	17.77				
3	16QAM	8	4	17.85	17.78	17.75	19.7	0		
3	16QAM	8	7	17.91	17.89	17.71				
3	16QAM	15	0	17.85	17.92	18.03				
3	64QAM	1	0	17.78	17.83	17.74				
3	64QAM	1	8	17.88	18.01	17.95	19.7	0		
3	64QAM	1	14	18.06	17.95	17.80				
3	64QAM	8	0	17.77	18.03	17.84				
3	64QAM	8	4	17.83	17.75	17.84	19.7	0		
3	64QAM	8	7	17.78	17.91	17.77				
3	64QAM	15	0	17.84	17.95	17.76				
Channel				131979	132322	132665				
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	18.01	17.72	17.75				
1.4	QPSK	1	3	18.05	17.93	17.86	19.7	0		
1.4	QPSK	1	5	17.84	17.79	17.76				
1.4	QPSK	3	0	17.88	17.97	17.85				
1.4	QPSK	3	1	17.74	17.80	17.82	19.7	0		
1.4	QPSK	3	3	17.74	17.88	17.87				
1.4	QPSK	6	0	17.90	17.83	17.77	19.7	0		
1.4	16QAM	1	0	17.79	17.96	17.82				
1.4	16QAM	1	3	18.10	17.87	17.80				
1.4	16QAM	1	5	18.01	17.74	17.81	19.7	0		
1.4	16QAM	3	0	18.05	17.85	17.80				
1.4	16QAM	3	1	17.78	17.84	17.83				
1.4	16QAM	3	3	17.90	17.83	17.84	19.7	0		
1.4	16QAM	6	0	17.83	17.77	18.08				
1.4	64QAM	1	0	17.92	17.73	17.89				



Band 66_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	21.32	21.38	21.51				
20	QPSK	1	49	21.29	21.32	21.30	22.2	0		
20	QPSK	1	99	21.31	21.29	21.30				
20	QPSK	50	0	21.34	21.35	21.33				
20	QPSK	50	24	21.34	21.31	21.32				
20	QPSK	50	50	21.32	21.29	21.30	22.2	0		
20	QPSK	100	0	21.32	21.34	21.32				
20	16QAM	1	0	20.73	20.74	20.70				
20	16QAM	1	49	21.25	21.28	21.27	22.2	0		
20	16QAM	1	99	21.31	21.31	21.30				
20	16QAM	50	0	21.26	21.30	21.35				
20	16QAM	50	24	21.31	21.26	21.35				
20	16QAM	50	50	21.32	21.28	21.28	22.2	0		
20	16QAM	100	0	21.31	21.32	21.30				
20	64QAM	1	0	21.16	21.27	21.20				
20	64QAM	1	49	21.37	21.33	21.37	22.2	0		
20	64QAM	1	99	21.31	21.29	21.30				
20	64QAM	50	0	20.20	20.38	20.37				
20	64QAM	50	24	20.34	20.32	20.45	21.2	1		
20	64QAM	50	50	20.13	20.28	20.11				
20	64QAM	100	0	20.35	20.31	20.33				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	21.29	21.14	21.35				
15	QPSK	1	37	21.21	21.29	21.21	22.2	0		
15	QPSK	1	74	21.23	21.28	21.22				
15	QPSK	36	0	21.33	21.35	21.29				
15	QPSK	36	20	21.38	21.24	21.27				
15	QPSK	36	39	21.28	21.30	21.32	22.2	0		
15	QPSK	75	0	21.23	21.33	21.29				
15	16QAM	1	0	20.75	20.76	20.65				
15	16QAM	1	37	21.24	21.19	21.29	22.2	0		
15	16QAM	1	74	21.22	21.30	21.22				
15	16QAM	36	0	21.25	21.34	21.33				
15	16QAM	36	20	21.35	21.19	21.27				
15	16QAM	36	39	21.34	21.28	21.24	22.2	0		
15	16QAM	75	0	21.27	21.24	21.34				
15	64QAM	1	0	21.11	21.20	21.21				
15	64QAM	1	37	21.37	21.28	21.37	22.2	0		
15	64QAM	1	74	20.89	20.72	20.71				
15	64QAM	36	0	20.20	20.34	20.14				
15	64QAM	36	20	20.42	20.40	20.55	21.2	1		
15	64QAM	36	39	20.20	20.24	20.11				
15	64QAM	75	0	20.46	20.16	20.44				
Channel				132022	132322	132622				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	21.26	21.36	21.11				
10	QPSK	1	25	21.32	21.28	21.22	22.2	0		
10	QPSK	1	49	21.31	21.30	21.23				
10	QPSK	25	0	21.35	21.31	21.37				
10	QPSK	25	12	21.34	21.32	21.28				
10	QPSK	25	25	21.35	21.29	21.23	22.2	0		
10	QPSK	50	0	21.36	21.32	21.33				
10	16QAM	1	0	20.75	20.67	20.70				
10	16QAM	1	25	21.18	21.23	21.28	22.2	0		
10	16QAM	1	49	21.27	21.32	21.38				
10	16QAM	25	0	21.24	21.24	21.37				
10	16QAM	25	12	21.33	21.30	21.34				
10	16QAM	25	25	21.33	21.27	21.31	22.2	0		
10	16QAM	50	0	21.27	21.36	21.30				
10	64QAM	1	0	20.98	21.33	21.32				
10	64QAM	1	25	21.15	21.33	21.21	22.2	0		
10	64QAM	1	49	20.72	20.84	20.92				
10	64QAM	25	0	20.12	20.31	20.44				
10	64QAM	25	12	20.20	20.29	20.48				
10	64QAM	25	25	20.07	20.26	19.89	21.2	1		
10	64QAM	50	0	20.15	20.24	20.21				
Channel				131997	132322	132647				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	21.13	21.28	21.35				
5	QPSK	1	12	21.28	21.27	21.30	22.2	0		
5	QPSK	1	24	21.30	21.31	21.26				
5	QPSK	12	0	21.28	21.30	21.31				
5	QPSK	12	7	21.29	21.34	21.34				
5	QPSK	12	13	21.30	21.21	21.31	22.2	0		
5	QPSK	25	0	21.35	21.34	21.23				
5	16QAM	1	0	20.75	20.69	20.70				
5	16QAM	1	12	21.23	21.19	21.30	22.2	0		
5	16QAM	1	24	21.23	21.32	21.35				
5	16QAM	12	0	21.20	21.30	21.31				
5	16QAM	12	7	21.22	21.30	21.36				
5	16QAM	12	13	21.36	21.29	21.25	22.2	0		
5	16QAM	25	0	21.33	21.35	21.32				
5	64QAM	1	0	20.92	21.25	21.28				
5	64QAM	1	12	21.37	21.34	21.24	22.2	0		
5	64QAM	1	24	20.64	20.77	20.73				
5	64QAM	12	0	20.24	20.45	20.47				
5	64QAM	12	7	20.26	20.15	20.29				
5	64QAM	12	13	20.09	20.38	19.88	21.2	1		
5	64QAM	25	0	20.28	20.20	20.33				
Channel				131987	132322	132657				
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	21.11	21.16	21.12				
3	QPSK	1	8	21.30	21.28	21.32	22.2	0		
3	QPSK	1	14	21.34	21.32	21.32				
3	QPSK	8	0	21.35	21.28	21.30				
3	QPSK	8	4	21.30	21.22	21.25				
3	QPSK	8	7	21.29	21.20	21.34	22.2	0		
3	QPSK	15	0	21.25	21.36	21.36				
3	16QAM	1	0	20.73	20.68	20.73				
3	16QAM	1	8	21.28	21.19	21.18	22.2	0		
3	16QAM	1	14	21.22	21.29	21.28				
3	16QAM	8	0	21.27	21.25	21.38				
3	16QAM	8	4	21.31	21.17	21.27				
3	16QAM	8	7	21.31	21.28	21.26	22.2	0		
3	16QAM	15	0	21.30	21.27	21.24				
3	64QAM	1	0	20.93	21.33	21.31				
3	64QAM	1	8	21.29	21.10	21.25	22.2	0		
3	64QAM	1	14	20.76	20.81	20.73				
3	64QAM	8	0	20.85	20.30	20.43				
3	64QAM	8	4	20.39	20.41	20.21	21.2	1		
3	64QAM	8	7	20.18	20.26	19.98				
3	64QAM	15	0	20.38	20.17	20.26				
Channel				131979	132322	132665				
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	21.26	21.33	21.09				
1.4	QPSK	1	3	21.24	21.29	21.34	22.2	0		
1.4	QPSK	1	5	21.24	21.31	21.26				
1.4	QPSK	3	0	21.26	21.32	21.35				
1.4	QPSK	3	1	21.28	21.33	21.28				
1.4	QPSK	3	3	21.28	21.24	21.32				
1.4	QPSK	6	0	21.28	21.26	21.33	22.2	0		
1.4	16QAM	1	0	20.75	20.69	20.64				
1.4	16QAM	1	3	21.27	21.24	21.28				
1.4	16QAM	1	5	21.23	21.29	21.27	22.2	0		
1.4	16QAM	3	0	21.26	21.24	21.28				
1.4	16QAM	3	1	21.24	21.26	21.34				
1.4	16QAM	3	3	21.35	21.26	21.29				
1.4	16QAM	6	0	21.30	21.25	21.34	22.2	0		
1.4	64QAM	1	0	21.16	21.23	21.18				
1.4	64QAM	1	3	21.10	21.16	21.13				
1.4	64QAM	1	5	21.22	21.23	21.27	22.2	0		
1.4	64QAM	3	0	21.29	21.16	21.07				



Band 38_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	18.91	17.00	18.87	18.2	0		
20	QPSK	1	49	16.85	16.99	16.87				
20	QPSK	1	99	16.74	16.83	16.82				
20	QPSK	50	0	18.85	18.93	18.85				
20	QPSK	50	24	16.85	16.92	16.78				
20	QPSK	50	50	16.75	16.87	16.74	18.2	0		
20	QPSK	100	0	16.83	16.90	16.76				
20	16QAM	1	0	16.79	16.93	16.83				
20	16QAM	1	49	16.85	16.98	16.89	18.2	0		
20	16QAM	1	99	16.90	16.97	16.92				
20	16QAM	50	0	18.85	18.87	16.79				
20	16QAM	50	24	16.85	16.91	16.86	18.2	0		
20	16QAM	50	50	16.84	16.93	16.81				
20	16QAM	100	0	16.79	16.91	16.85				
20	64QAM	1	0	16.77	16.96	16.77				
20	64QAM	1	49	16.91	16.98	17.00	18.2	0		
20	64QAM	1	99	16.88	16.94	16.83				
20	64QAM	50	0	16.87	16.84	16.87				
20	64QAM	50	24	16.81	16.90	16.72	18.2	0		
20	64QAM	50	50	16.90	16.93	16.77				
20	64QAM	100	0	16.67	16.91	16.97				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	16.94	16.92	16.66				
15	QPSK	1	37	16.77	16.95	16.79	18.2	0		
15	QPSK	1	74	16.73	16.82	16.80				
15	QPSK	36	0	16.79	16.88	16.82				
15	QPSK	36	20	16.88	16.95	16.71	18.2	0		
15	QPSK	36	39	16.74	16.91	16.77				
15	QPSK	75	0	16.88	16.81	16.67				
15	16QAM	1	0	16.80	16.91	16.81				
15	16QAM	1	37	16.96	16.92	16.80	18.2	0		
15	16QAM	1	74	16.92	16.95	16.86				
15	16QAM	36	0	16.82	16.89	16.76				
15	16QAM	36	20	16.81	16.82	16.84	18.2	0		
15	16QAM	36	39	16.79	16.91	16.77				
15	16QAM	75	0	16.78	16.93	16.80				
15	64QAM	1	0	16.60	16.81	16.79				
15	64QAM	1	37	16.81	16.91	16.83	18.2	0		
15	64QAM	1	74	16.83	16.93	16.87				
15	64QAM	36	0	16.87	16.85	16.75				
15	64QAM	36	20	16.64	16.83	16.83	18.2	0		
15	64QAM	36	39	16.84	16.87	16.60				
15	64QAM	75	0	16.48	16.82	16.98				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	16.68	16.73	16.66				
10	QPSK	1	25	16.80	16.86	16.77	18.2	0		
10	QPSK	1	49	16.63	16.71	16.78				
10	QPSK	25	0	16.79	16.87	16.71				
10	QPSK	25	12	16.81	16.90	16.70	18.2	0		
10	QPSK	25	25	16.71	16.78	16.73				
10	QPSK	50	0	16.74	16.81	16.70				
10	16QAM	1	0	16.69	16.88	16.76				
10	16QAM	1	25	16.81	16.93	16.78	18.2	0		
10	16QAM	1	49	16.81	16.90	16.90				
10	16QAM	25	0	16.73	16.85	16.74				
10	16QAM	25	12	16.84	16.80	16.75	18.2	0		
10	16QAM	25	25	16.70	16.85	16.71				
10	16QAM	50	0	16.77	16.87	16.72				
10	64QAM	1	0	16.77	16.67	16.48				
10	64QAM	1	25	16.73	16.74	16.73	18.2	0		
10	64QAM	1	49	16.74	16.78	16.71				
10	64QAM	25	0	16.82	16.96	16.81				
10	64QAM	25	12	16.86	16.94	16.71	18.2	0		
10	64QAM	25	25	16.69	16.66	16.63				
10	64QAM	50	0	16.69	16.80	16.69				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	16.93	16.97	16.79				
5	QPSK	1	12	16.69	16.95	16.86	18.2	0		
5	QPSK	1	24	16.61	16.82	16.81				
5	QPSK	12	0	16.81	16.91	16.78				
5	QPSK	12	7	16.83	16.82	16.66	18.2	0		
5	QPSK	12	13	16.72	16.73	16.66				
5	QPSK	25	0	16.82	16.77	16.68				
5	16QAM	1	0	16.75	16.85	16.82				
5	16QAM	1	12	16.93	16.85	16.80	18.2	0		
5	16QAM	1	24	16.88	16.94	16.88				
5	16QAM	12	0	16.78	16.83	16.72				
5	16QAM	12	7	16.76	16.85	16.75	18.2	0		
5	16QAM	12	13	16.75	16.87	16.77				
5	16QAM	25	0	16.68	16.84	16.79				
5	64QAM	1	0	16.72	17.00	16.83				
5	64QAM	1	12	16.80	16.71	16.76	18.2	0		
5	64QAM	1	24	16.65	16.85	16.90				
5	64QAM	12	0	16.53	16.99	16.52				
5	64QAM	12	7	16.57	16.88	16.53	18.2	0		
5	64QAM	12	13	16.89	16.86	16.57				
5	64QAM	25	0	16.54	16.93	16.68				

Band 38_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	20.67	20.74	20.39				
20	QPSK	1	49	20.44	20.48	20.31	21.8	0		
20	QPSK	1	99	20.44	20.34	20.29				
20	QPSK	50	0	20.57	20.71	20.44				
20	QPSK	50	24	20.33	20.63	20.39	21.8	0		
20	QPSK	50	50	20.36	20.55	20.36				
20	QPSK	100	0	20.59	20.68	20.45				
20	16QAM	1	0	20.42	20.47	20.37				
20	16QAM	1	49	20.48	20.67	20.61	21.8	0		
20	16QAM	1	99	20.54	20.49	20.32				
20	16QAM	50	0	20.26	20.40	20.24				
20	16QAM	50	24	20.32	20.40	20.40	21.8	0		
20	16QAM	50	50	20.56	20.50	20.36				
20	16QAM	100	0	20.31	20.57	20.37				
20	64QAM	1	0	20.65	20.41	20.64				
20	64QAM	1	49	20.46	20.54	20.56	21.8	0		
20	64QAM	1	99	20.84	20.53	20.81				
20	64QAM	50	0	20.14	20.50	20.29				
20	64QAM	50	24	20.24	20.52	20.19	21.8	0		
20	64QAM	50	50	20.41	20.35	20.28				
20	64QAM	100	0	20.46	20.54	20.08				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	20.49	20.38	20.31				
15	QPSK	1	37	20.27	20.30	20.22	21.8	0		
15	QPSK	1	74	20.35	20.26	20.06				
15	QPSK	36	0	20.32	20.52	20.35				
15	QPSK	36	20	20.20	20.45	20.22	21.8	0		
15	QPSK	36	39	20.13	20.31	20.15				
15	QPSK	75	0	20.42	20.47	20.29				
15	16QAM	1	0	20.23	20.27	20.29				
15	16QAM	1	37	20.30	20.50	20.42	21.8	0		
15	16QAM	1	74	20.40	20.36	20.23				
15	16QAM	36	0	20.19	20.39	19.98				
15	16QAM	36	20	20.16	20.24	20.34	21.8	0		
15	16QAM	36	39	20.37	20.33	20.26				
15	16QAM	75	0	20.15	20.33	20.13				
15	64QAM	1	0	20.35	20.39	20.41				
15	64QAM	1	37	20.						



Band 41_Ant 0														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Low Middle Ch. / Freq	Power Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				39750	40185	40620	41055	41490						
Frequency (MHz)				2506	2549.5	2593	2636.5	2680						
20	QPSK	1	0	20.66	20.60	20.70	20.58	20.83						
20	QPSK	1	49	20.55	20.40	20.44	20.53	20.29	21.3	0				
20	QPSK	1	99	20.59	20.40	20.45	20.52	20.38						
20	QPSK	50	0	20.51	20.35	20.68	20.35	20.61						
20	QPSK	50	24	20.53	20.54	20.59	20.51	20.50						
20	QPSK	50	50	20.56	20.51	20.61	20.50	20.53	21.3	0				
20	QPSK	100	0	20.53	20.41	20.65	20.55	20.58						
20	16QAM	1	0	20.43	20.50	20.55	20.47	20.44						
20	16QAM	1	49	20.63	20.66	20.69	20.52	20.64	21.3	0				
20	16QAM	1	99	20.35	20.45	20.45	20.44	20.43						
20	16QAM	50	0	20.43	20.38	20.42	20.31	20.28						
20	16QAM	50	24	20.50	20.42	20.47	20.45	20.37						
20	16QAM	50	50	20.42	20.54	20.57	20.51	20.53	21.3	0				
20	16QAM	100	0	20.42	20.42	20.50	20.42	20.44						
20	64QAM	1	0	20.37	20.21	20.30	20.46	20.30						
20	64QAM	1	49	20.63	20.44	20.62	20.61	20.45	21.3	0				
20	64QAM	1	99	20.39	20.62	20.45	20.37	20.36						
20	64QAM	50	0	19.14	19.19	19.22	19.49	19.30						
20	64QAM	50	24	19.42	19.22	19.37	19.59	19.43						
20	64QAM	50	50	19.33	19.31	19.52	19.44	19.43	20.3	1				
20	64QAM	100	0	19.19	19.28	19.37	19.28	19.48						
Channel				39725	40173	40620	41068	41515						
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5						
15	QPSK	1	0	20.42	20.46	20.48	20.04	20.12						
15	QPSK	1	37	20.42	20.30	20.34	19.98	20.29	21.3	0				
15	QPSK	1	74	20.45	20.32	20.26	20.11	19.99						
15	QPSK	36	0	20.54	20.45	20.60	20.49	20.28						
15	QPSK	36	20	20.40	20.45	20.56	20.44	20.43						
15	QPSK	36	39	20.47	20.43	20.51	20.49	20.40	21.3	0				
15	QPSK	75	0	20.51	20.39	20.51	20.41	20.48						
15	16QAM	1	0	20.42	20.48	20.54	20.48	20.50						
15	16QAM	1	37	20.63	20.56	20.60	20.57	20.62	21.3	0				
15	16QAM	1	74	20.40	20.46	20.45	20.53	20.40						
15	16QAM	36	0	20.49	20.45	20.45	20.25	20.28						
15	16QAM	36	20	20.54	20.48	20.55	20.38	20.47						
15	16QAM	36	39	20.40	20.47	20.50	20.57	20.61	21.3	0				
15	16QAM	75	0	20.49	20.33	20.42	20.41	20.48						
15	64QAM	1	0	20.43	20.18	20.60	20.24	20.29						
15	64QAM	1	37	20.66	20.65	20.54	20.44	20.51	21.3	0				
15	64QAM	1	74	20.54	20.58	20.57	20.29	20.61						
15	64QAM	36	0	19.44	19.16	19.52	19.36	19.29						
15	64QAM	36	20	19.36	19.34	19.28	19.59	19.52						
15	64QAM	36	39	19.39	19.20	19.36	19.29	19.54	20.3	1				
15	64QAM	75	0	19.18	19.50	19.56	19.25	19.20						
Channel				39700	40160	40620	41080	41540						
Frequency (MHz)				2501	2547	2593	2639	2685						
10	QPSK	1	0	20.25	20.48	20.31	20.25	20.37						
10	QPSK	1	25	20.44	20.19	20.35	20.06	20.21	21.3	0				
10	QPSK	1	49	20.39	20.37	20.39	20.05	20.02						
10	QPSK	25	0	20.53	20.43	20.54	20.56	20.52						
10	QPSK	25	12	20.51	20.38	20.50	20.45	20.41						
10	QPSK	25	25	20.49	20.41	20.51	20.44	20.42	21.3	0				
10	QPSK	50	0	20.47	20.43	20.51	20.45	20.45						
10	16QAM	1	0	20.41	20.54	20.52	20.43	20.43						
10	16QAM	1	25	20.64	20.66	20.70	20.59	20.65	21.3	0				
10	16QAM	1	49	20.27	20.45	20.44	20.42	20.49						
10	16QAM	25	0	20.44	20.33	20.49	20.25	20.30						
10	16QAM	25	12	20.54	20.48	20.52	20.44	20.34						
10	16QAM	25	25	20.45	20.59	20.57	20.54	20.54	21.3	0				
10	16QAM	50	0	20.51	20.41	20.45	20.49	20.39						
10	64QAM	1	0	20.39	20.20	20.57	20.25	20.30						
10	64QAM	1	25	20.43	20.53	20.56	20.57	20.47	21.3	0				
10	64QAM	1	49	20.41	20.39	20.59	20.63	20.36						
10	64QAM	25	0	19.41	19.26	19.46	19.44	19.39						
10	64QAM	25	12	19.26	19.27	19.54	19.35	19.42						
10	64QAM	25	25	19.27	19.34	19.29	19.36	19.45	20.3	1				
10	64QAM	50	0	19.35	19.87	19.60	19.53	19.44						
Channel				39675	40148	40620	41093	41565						
Frequency (MHz)				2496.5	2545.8	2593	2640.30	2687.5						
5	QPSK	1	0	20.31	20.20	20.47	20.00	20.46						
5	QPSK	1	12	20.39	20.29	20.44	20.06	20.24	21.3	0				
5	QPSK	1	24	20.38	20.30	20.27	19.96	20.03						
5	QPSK	12	0	20.49	20.51	20.58	20.53	20.52						
5	QPSK	12	7	20.47	20.38	20.55	20.44	20.44						
5	QPSK	12	13	20.50	20.38	20.52	20.43	20.51	21.3	0				
5	QPSK	25	0	20.48	20.31	20.47	20.38	20.37						
5	16QAM	1	0	20.44	20.53	20.60	20.46	20.47						
5	16QAM	1	12	20.67	20.60	20.69	20.61	20.68	21.3	0				
5	16QAM	1	24	20.38	20.45	20.51	20.40	20.41						
5	16QAM	12	0	20.39	20.39	20.42	20.24	20.29						
5	16QAM	12	7	20.45	20.51	20.60	20.42	20.36						
5	16QAM	12	13	20.34	20.49	20.53	20.59	20.54	21.3	0				
5	16QAM	25	0	20.50	20.40	20.48	20.46	20.42						
5	64QAM	1	0	20.30	20.19	20.61	20.40	20.28						
5	64QAM	1	12	20.46	20.47	20.65	20.40	20.68	21.3	0				
5	64QAM	1	24	20.63	20.38	20.62	20.46	20.38						
5	64QAM	12	0	19.36	19.16	19.54	19.40	19.16						
5	64QAM	12	7	19.27	19.43	19.45	19.34	19.54						
5	64QAM	12	13	19.20	19.27	19.43	19.40	19.49	20.3	1				
5	64QAM	25	0	19.29	19.54	19.40	19.53	19.41						

Band 41_Ant 1														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Low Middle Ch. / Freq	Power Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				39750	40185	40620	41055	41490						
Frequency (MHz)				2506	2549.5	2593	2636.5	2680						
20	QPSK	1	0	18.29	18.09	18.43	18.07	18.36						
20	QPSK	1	49	18.25	18.06	18.42	18.05	18.30	19	0				
20	QPSK	1	99	18.10	17.94	18.27	17.96	18.14						
20	QPSK	50	0	19.38	18.11	18.56	18.10	18.38						
20	QPSK	50	24	18.20	18.06	18.36	18.04	18.23						
20	QPSK	50	50	18.22	18.05	18.36	18.10	18.14	19	0				
20	QPSK	100	0	18.14	18.05	18.30	17.96	18.08						
20	16QAM	1	0	18.22	18.09	18.38	18.14	18.25						
20	16QAM	1	49	18.21	18.09	18.41	18.15	18.20	19	0				
20	16QAM	1	99	18.21	18.06	18.36	18.04	18.18						
20	16QAM	50	0	18.17	18.04	18.30	18.05	18.16						
20	16QAM	50	24	18.15	18.03	18.35	18.09	18.20						
20	16QAM	50	50	18.20	18.09	18.36	18.12	18.16	19	0				
20	16QAM	100	0	18.24	18.07	18.38	18.05	18.19						
20	64QAM	1	0	18.03	17.94	18.36	17.89	18.02						
20	64QAM	1	49	18.25	18.17	18.41	17.93	18.33	19	0				
20	64QAM	1	99	18.14	17.96	18.35	18.35	18.22						
20	64QAM	50	0	17.92	17.98	18.29	18.03	18.09						
20	64QAM	50	24	18.33	17.92	18.36	18.08	18.07						
20	64QAM	50	50	18.20	17.96	18.37	17.93	18.23	19	0				
20	64QAM	100	0	18.14	18.05	18.32	17.94	18.13						
Channel				39725	40173	40620	41068	41515						
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5						



Band 41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.19	16.98	17.29	16.89	17.12	18.6	0
20	QPSK	1	49	17.16	16.92	17.24	16.83	17.10	18.6	0
20	QPSK	1	99	17.06	16.92	17.06	16.91	17.08	18.6	0
20	QPSK	50	0	17.17	17.03	17.18	16.98	17.11	18.6	0
20	QPSK	50	24	17.11	16.99	17.17	16.82	17.05	18.6	0
20	QPSK	50	50	17.16	16.94	17.17	16.83	17.00	18.6	0
20	QPSK	100	0	17.15	16.95	17.19	16.83	17.03	18.6	0
20	16QAM	1	0	17.15	17.04	17.23	16.85	17.24	18.6	0
20	16QAM	1	49	17.15	17.08	17.21	16.92	17.24	18.6	0
20	16QAM	1	99	17.16	16.95	17.19	16.96	17.22	18.6	0
20	16QAM	50	0	17.13	17.00	17.13	16.83	17.24	18.6	0
20	16QAM	50	24	17.13	16.91	17.15	16.86	17.24	18.6	0
20	16QAM	50	50	17.22	16.95	17.19	16.87	17.27	18.6	0
20	16QAM	100	0	17.18	16.94	17.15	16.84	17.21	18.6	0
20	64QAM	1	0	16.96	17.13	17.17	16.99	17.03	18.6	0
20	64QAM	1	49	17.10	16.92	17.22	16.82	17.24	18.6	0
20	64QAM	1	99	17.16	17.09	17.13	16.83	17.26	18.6	0
20	64QAM	50	0	17.10	16.90	17.11	16.82	17.26	18.6	0
20	64QAM	50	24	17.09	17.05	17.19	16.96	17.27	18.6	0
20	64QAM	50	50	17.07	16.92	17.22	16.81	17.13	18.6	0
20	64QAM	100	0	17.18	16.94	17.13	16.86	17.11	18.6	0
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.16	17.06	17.14	16.83	17.18	18.6	0
15	QPSK	1	37	17.18	16.84	17.23	16.85	17.10	18.6	0
15	QPSK	1	74	16.98	16.84	17.03	16.81	17.03	18.6	0
15	QPSK	36	0	17.13	17.02	17.14	16.86	17.14	18.6	0
15	QPSK	36	20	17.02	16.96	17.16	16.80	17.12	18.6	0
15	QPSK	36	39	17.12	16.98	17.11	16.86	17.21	18.6	0
15	QPSK	75	0	17.12	16.97	17.10	16.82	17.28	18.6	0
15	16QAM	1	0	17.14	17.07	17.20	16.86	17.20	18.6	0
15	16QAM	1	37	17.09	17.08	17.21	16.87	17.20	18.6	0
15	16QAM	1	74	17.16	16.90	17.22	16.89	17.19	18.6	0
15	16QAM	36	0	17.16	16.93	17.11	16.84	17.26	18.6	0
15	16QAM	36	20	17.17	16.87	17.08	16.89	17.27	18.6	0
15	16QAM	36	39	17.19	16.90	17.21	16.84	17.25	18.6	0
15	16QAM	75	0	17.13	16.97	17.19	16.87	17.18	18.6	0
15	64QAM	1	0	16.90	17.22	17.11	16.83	17.02	18.6	0
15	64QAM	1	37	17.03	16.88	17.17	16.84	17.03	18.6	0
15	64QAM	1	74	17.12	17.16	16.93	16.82	17.08	18.6	0
15	64QAM	36	0	17.22	16.85	16.99	16.83	17.03	18.6	0
15	64QAM	36	20	17.18	16.97	17.15	16.98	17.15	18.6	0
15	64QAM	36	39	17.18	16.94	17.17	16.82	17.18	18.6	0
15	64QAM	75	0	17.01	16.82	17.11	16.82	17.15	18.6	0
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.02	16.92	17.22	16.99	17.06	18.6	0
10	QPSK	1	25	17.16	16.90	17.19	16.80	17.05	18.6	0
10	QPSK	1	49	17.04	16.93	17.08	16.82	17.04	18.6	0
10	QPSK	25	0	17.13	16.94	17.10	16.84	17.27	18.6	0
10	QPSK	25	12	17.03	16.94	17.08	16.82	17.19	18.6	0
10	QPSK	25	25	17.20	16.95	17.19	16.86	17.13	18.6	0
10	QPSK	50	0	17.12	16.93	17.19	16.84	17.23	18.6	0
10	16QAM	1	0	17.09	17.06	17.23	16.87	17.21	18.6	0
10	16QAM	1	25	17.19	17.11	17.17	16.96	17.22	18.6	0
10	16QAM	1	49	17.18	16.88	17.12	16.90	17.19	18.6	0
10	16QAM	25	0	17.13	17.04	17.05	16.91	17.15	18.6	0
10	16QAM	25	12	17.10	16.82	17.06	16.82	17.19	18.6	0
10	16QAM	25	25	17.15	16.88	17.13	16.86	17.25	18.6	0
10	16QAM	50	0	17.20	16.86	17.10	16.85	17.14	18.6	0
10	64QAM	1	0	16.89	16.90	17.25	16.93	17.06	18.6	0
10	64QAM	1	25	16.97	16.80	17.04	16.84	17.02	18.6	0
10	64QAM	1	49	16.97	17.15	16.91	16.85	17.26	18.6	0
10	64QAM	25	0	17.11	16.95	16.91	16.94	17.28	18.6	0
10	64QAM	25	12	16.92	16.88	17.16	16.83	17.20	18.6	0
10	64QAM	25	25	16.97	16.84	17.27	16.86	17.16	18.6	0
10	64QAM	50	0	17.09	16.85	16.96	16.85	17.06	18.6	0
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	17.11	16.82	17.20	16.80	17.07	18.6	0
5	QPSK	1	12	17.20	16.83	17.28	16.84	17.03	18.6	0
5	QPSK	1	24	17.10	16.87	17.07	16.81	17.03	18.6	0
5	QPSK	12	0	17.21	16.97	17.20	16.91	17.21	18.6	0
5	QPSK	12	7	17.12	17.03	17.16	16.84	17.21	18.6	0
5	QPSK	12	13	17.09	16.90	17.16	16.83	17.15	18.6	0
5	QPSK	25	0	17.06	16.95	17.17	16.81	17.21	18.6	0
5	16QAM	1	0	17.16	16.98	17.19	16.83	17.17	18.6	0
5	16QAM	1	12	17.19	17.05	17.12	16.91	17.22	18.6	0
5	16QAM	1	24	17.13	16.88	17.14	16.85	17.13	18.6	0
5	16QAM	12	0	17.11	16.96	17.07	16.86	17.19	18.6	0
5	16QAM	12	7	17.04	16.90	17.15	16.84	17.19	18.6	0
5	16QAM	12	13	17.23	16.94	17.17	16.88	17.29	18.6	0
5	16QAM	25	0	17.17	16.90	17.14	16.82	17.17	18.6	0
5	64QAM	1	0	16.86	17.25	17.12	17.05	17.00	18.6	0
5	64QAM	1	12	17.11	16.83	17.22	16.85	17.25	18.6	0
5	64QAM	1	24	17.25	16.94	17.10	16.87	17.07	18.6	0
5	64QAM	12	0	17.03	16.92	16.91	16.84	17.07	18.6	0
5	64QAM	12	7	17.19	17.08	16.95	16.85	17.17	18.6	0
5	64QAM	12	13	17.02	16.92	17.10	16.92	17.21	18.6	0
5	64QAM	25	0	17.23	16.94	17.17	16.93	17.03	18.6	0

Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.28	20.39	20.47	20.24	20.22	20.8	0
20	QPSK	1	49	20.13	20.13	20.26	20.03	20.03	20.8	0
20	QPSK	1	99	20.24	20.17	20.21	20.11	20.07	20.8	0
20	QPSK	50	0	20.21	20.32	20.43	20.23	20.16	20.8	0
20	QPSK	50	24	20.17	20.04	20.17	20.03	20.06	20.8	0
20	QPSK	50	50	20.19	20.13	20.16	20.22	20.08	20.8	0
20	QPSK	100	0	20.33	20.36	20.36	20.26	20.25	20.8	0
20	16QAM	1	0	20.07	20.35	20.29	20.34	20.23	20.8	0
20	16QAM	1	49	20.15	20.28	20.34	20.30	20.29	20.8	0
20	16QAM	1	99	20.17	20.22	20.17	20.25	20.30	20.8	0
20	16QAM	50	0	20.05	20.09	20.12	19.97	19.98	20.8	0
20	16QAM	50	24	20.18	20.09	20.15	20.11	20.07	20.8	0
20	16QAM	50	50	20.27	20.21	20.24	20.25	20.19	20.8	0
20	16QAM	100	0	20.26	20.22	20.24	20.19	20.08	20.8	0
20	64QAM	1	0	20.30	19.91	20.32	19.95	20.00	20.8	0
20	64QAM	1	49	19.97	20.27					



Band 2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	18.01	18.11	18.03	19	0	
20	QPSK	1	49	17.90	17.98	17.96			
20	QPSK	1	99	17.98	17.96	17.96			
20	QPSK	50	0	17.90	18.08	18.03			
20	QPSK	50	24	17.89	17.95	17.91			
20	QPSK	50	50	17.98	18.05	17.95			
20	QPSK	100	0	17.97	17.98	17.95			
20	16QAM	1	0	17.98	17.97	17.94			
20	16QAM	1	49	17.84	18.05	17.99	19	0	
20	16QAM	1	99	17.89	18.06	17.94			
20	16QAM	50	0	17.91	18.05	18.02			
20	16QAM	50	24	17.91	18.02	18.03			
20	16QAM	50	50	17.84	18.08	17.94	19	0	
20	16QAM	100	0	17.96	18.01	18.01			
20	64QAM	1	0	17.97	18.02	17.93			
20	64QAM	1	49	17.97	18.00	17.92	19	0	
20	64QAM	1	99	18.00	17.98	17.96			
20	64QAM	50	0	17.87	18.03	17.93			
20	64QAM	50	24	17.88	17.95	17.90	19	0	
20	64QAM	50	50	17.92	17.99	17.98			
20	64QAM	100	0	17.96	18.01	17.95			
Channel				18675	18900	19125			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	17.92	17.96	18.00	19	0	
15	QPSK	1	37	17.82	17.87	17.87			
15	QPSK	1	74	17.93	17.96	17.80			
15	QPSK	36	0	17.82	17.94	17.98			
15	QPSK	36	20	17.98	18.05	17.94	19	0	
15	QPSK	36	39	17.98	17.93	17.83			
15	QPSK	75	0	17.94	17.91	17.93			
15	16QAM	1	0	17.97	18.01	17.88			
15	16QAM	1	37	17.80	18.01	17.86	19	0	
15	16QAM	1	74	17.76	17.98	17.82			
15	16QAM	36	0	17.79	18.00	17.99			
15	16QAM	36	20	17.87	18.00	17.97	19	0	
15	16QAM	36	39	17.71	18.04	17.81			
15	16QAM	75	0	17.70	17.85	17.73			
15	64QAM	1	0	18.04	18.01	17.78			
15	64QAM	1	37	17.70	17.82	17.75	19	0	
15	64QAM	1	74	17.88	17.79	17.84			
15	64QAM	36	0	17.87	17.84	17.81			
15	64QAM	36	20	17.80	17.78	17.89	19	0	
15	64QAM	36	39	17.77	17.98	17.89			
15	64QAM	75	0	17.99	18.08	17.87			
Channel				18650	18900	19150			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	17.85	17.96	18.01	19	0	
10	QPSK	1	25	17.87	17.89	17.86			
10	QPSK	1	49	17.94	17.88	17.77			
10	QPSK	25	0	17.87	17.92	17.94	19	0	
10	QPSK	25	12	17.88	18.01	17.93			
10	QPSK	25	25	17.98	17.97	17.87			
10	QPSK	50	0	17.84	17.98	17.83			
10	16QAM	1	0	17.97	17.88	17.81			
10	16QAM	1	25	17.83	18.05	17.99	19	0	
10	16QAM	1	49	17.88	18.04	17.89			
10	16QAM	25	0	17.87	17.96	17.94			
10	16QAM	25	12	17.86	17.93	17.93	19	0	
10	16QAM	25	25	17.73	18.07	17.84			
10	16QAM	50	0	17.95	17.98	18.05			
10	64QAM	1	0	17.70	17.74	17.83			
10	64QAM	1	25	17.95	18.03	17.66	19	0	
10	64QAM	1	49	17.86	17.96	17.73			
10	64QAM	25	0	17.94	17.91	17.91			
10	64QAM	25	12	17.86	17.94	17.73	19	0	
10	64QAM	25	25	17.77	18.04	17.99			
10	64QAM	50	0	17.70	18.02	17.99			
Channel				18625	18900	19175			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	17.89	17.88	17.92	19	0	
5	QPSK	1	12	17.89	17.89	17.93			
5	QPSK	1	24	17.93	17.90	17.75			
5	QPSK	12	0	17.78	17.97	17.96	19	0	
5	QPSK	12	7	17.86	18.01	17.94			
5	QPSK	12	13	17.98	18.00	17.91			
5	QPSK	25	0	17.91	17.93	17.82			
5	16QAM	1	0	17.87	17.86	17.88			
5	16QAM	1	12	17.73	17.99	17.95	19	0	
5	16QAM	1	24	17.80	18.06	17.84			
5	16QAM	12	0	17.79	17.94	17.93			
5	16QAM	12	7	17.80	17.97	18.01	19	0	
5	16QAM	12	13	17.74	18.02	17.91			
5	16QAM	25	0	17.98	17.82	18.03			
5	64QAM	1	0	17.90	18.10	17.97			
5	64QAM	1	12	17.74	17.91	17.83	19	0	
5	64QAM	1	24	17.99	17.80	17.78			
5	64QAM	12	0	17.82	17.92	17.86			
5	64QAM	12	7	17.66	17.89	17.72	19	0	
5	64QAM	12	13	17.72	18.02	17.96			
5	64QAM	25	0	17.70	17.96	18.03			
Channel				18615	18900	19185			
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	18.01	18.01	17.94	19	0	
3	QPSK	1	8	17.82	17.89	17.86			
3	QPSK	1	14	17.96	17.88	17.81			
3	QPSK	8	0	17.80	17.83	17.96	19	0	
3	QPSK	8	4	17.88	18.01	17.98			
3	QPSK	8	7	17.96	17.94	17.91			
3	QPSK	15	0	17.88	17.89	17.92			
3	16QAM	1	0	17.85	17.89	17.93			
3	16QAM	1	8	17.77	17.98	17.89	19	0	
3	16QAM	1	14	17.87	18.05	17.94			
3	16QAM	8	0	17.87	17.96	17.94			
3	16QAM	8	4	17.83	17.96	18.03	19	0	
3	16QAM	8	7	17.78	18.06	17.83			
3	16QAM	15	0	17.70	17.77	18.01			
3	64QAM	1	0	17.94	17.76	17.85			
3	64QAM	1	8	17.71	17.88	17.99	19	0	
3	64QAM	1	14	17.86	17.85	17.78			
3	64QAM	8	0	17.85	17.94	17.96			
3	64QAM	8	4	17.82	18.02	17.84	19	0	
3	64QAM	8	7	17.89	17.81	17.76			
3	64QAM	15	0	17.84	18.07	17.83			
Channel				18607	18900	19193			
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	17.97	17.95	17.90	19	0	
1.4	QPSK	1	3	17.85	17.89	17.94			
1.4	QPSK	1	5	17.94	17.95	17.77			
1.4	QPSK	3	0	17.81	17.90	18.01	19	0	
1.4	QPSK	3	1	17.91	18.03	17.96			
1.4	QPSK	3	3	17.98	17.93	17.82			
1.4	QPSK	6	0	17.87	17.95	17.86	19	0	
1.4	16QAM	1	0	17.98	17.92	17.81			
1.4	16QAM	1	3	17.81	18.01	17.98			
1.4	16QAM	1	5	17.82	18.07	17.87	19	0	
1.4	16QAM	3	0	17.88	17.97	17.93			
1.4	16QAM	3	1	17.88	17.90	18.00			
1.4	16QAM	3	3	17.80	18.01	17.85	19	0	
1.4	16QAM	6	0	17.78	17.99	17.77			
1.4	64QAM	1	0	17.74	17.80	17.75			
1.4	64QAM	1	3	17.92	17.73	17.97			
1.4	64QAM	1	5	17.92	17.75	17.96	19	0	
1.4	64QAM	3	0	17.64	17.89	17.89			
1.4	64QAM	3	1	17.81	18.03	17.81			
1.4	64QAM	3	3	17.90	17.96	18.08	19	0	
1.4	64QAM	6	0	17.89	17.89	17.70			

Band 2_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB	



Band 5_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	24.70	24.73	24.85					
5	QPSK	1	25	24.67	24.70	24.82	25.7	0			
10	QPSK	1	49	24.68	24.70	24.88					
10	QPSK	25	0	23.77	23.86	23.85					
10	QPSK	25	12	23.72	23.84	23.77					
10	QPSK	25	25	23.71	23.82	23.79	24.7	1			
10	QPSK	50	0	23.71	23.79	23.71					
10	16QAM	1	0	23.77	23.89	23.82					
10	16QAM	1	25	23.76	23.91	23.78	24.7	1			
10	16QAM	1	49	23.81	23.91	23.85					
10	16QAM	25	0	22.84	22.84	22.77					
10	16QAM	25	12	22.87	22.87	22.77	23.7	2			
10	16QAM	25	25	22.73	22.76	22.76					
10	16QAM	50	0	22.70	22.78	22.77					
10	16QAM	1	0	22.82	22.94	22.81					
10	16QAM	1	25	22.75	22.82	22.78	23.7	2			
10	16QAM	1	49	22.85	22.91	22.85					
10	16QAM	25	0	21.74	21.79	21.79					
10	16QAM	25	12	21.85	21.85	21.72	22.7	3			
10	16QAM	25	25	21.67	21.79	21.76					
10	16QAM	50	0	21.62	21.70	21.68					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	24.70	24.87	24.40					
5	QPSK	1	12	24.67	24.72	24.44	25.7	0			
5	QPSK	1	24	24.57	24.61	24.33					
5	QPSK	12	0	23.66	23.72	23.78					
5	QPSK	12	7	23.74	23.59	23.65	24.7	1			
5	QPSK	12	13	23.51	23.82	23.69					
5	QPSK	25	0	23.46	23.71	23.46					
5	16QAM	1	0	23.51	23.94	23.55					
5	16QAM	1	12	23.66	23.73	23.78	24.7	1			
5	16QAM	1	24	23.57	23.67	23.63					
5	16QAM	12	0	22.86	22.61	22.79					
5	16QAM	12	7	22.68	22.72	22.61	23.7	2			
5	16QAM	12	13	22.68	22.55	22.59					
5	16QAM	25	0	22.76	22.53	22.78					
5	16QAM	1	0	22.77	22.93	22.89					
5	16QAM	1	12	22.76	22.65	22.76	23.7	2			
5	16QAM	1	24	22.57	22.73	22.63					
5	16QAM	12	0	21.84	21.76	21.56					
5	16QAM	12	7	21.59	21.71	21.46	22.7	3			
5	16QAM	12	13	21.61	21.73	21.82					
5	16QAM	25	0	21.50	21.72	21.61					
Channel				20415	20525	20635					
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	24.70	24.58	24.64					
3	QPSK	1	8	24.71	24.69	24.68	25.7	0			
3	QPSK	1	14	24.41	24.45	24.36					
3	QPSK	8	0	23.66	23.78	23.68					
3	QPSK	8	4	23.49	23.87	23.49	24.7	1			
3	QPSK	8	7	23.61	23.77	23.85					
3	QPSK	15	0	23.45	23.67	23.70					
3	16QAM	1	0	23.58	23.85	23.87					
3	16QAM	1	8	23.51	23.68	23.65	24.7	1			
3	16QAM	1	14	23.84	23.70	23.58					
3	16QAM	8	0	22.69	22.66	22.60					
3	16QAM	8	4	22.75	22.73	22.53	23.7	2			
3	16QAM	8	7	22.48	22.54	22.78					
3	16QAM	15	0	22.58	22.69	22.62					
3	16QAM	1	0	22.83	22.96	22.68					
3	16QAM	1	8	22.60	22.59	22.76	23.7	2			
3	16QAM	1	14	22.76	22.75	22.72					
3	16QAM	8	0	21.54	21.70	21.54					
3	16QAM	8	4	21.67	21.57	21.65	22.7	3			
3	16QAM	8	7	21.41	21.61	21.57					
3	16QAM	15	0	21.68	21.58	21.76					
Channel				20407	20525	20643					
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	24.44	24.66	24.65					
1.4	QPSK	1	3	24.46	24.72	24.59	25.7	0			
1.4	QPSK	1	5	24.52	24.49	24.61					
1.4	QPSK	3	0	24.63	24.70	24.40					
1.4	QPSK	3	1	24.52	24.57	24.54					
1.4	QPSK	3	3	24.46	24.43	24.56					
1.4	QPSK	6	0	23.79	23.69	23.75	24.7	1			
1.4	16QAM	1	0	23.52	23.73	23.84					
1.4	16QAM	1	3	23.71	23.92	23.48					
1.4	16QAM	1	5	23.69	23.97	23.63	24.7	1			
1.4	16QAM	3	0	23.74	23.67	23.61					
1.4	16QAM	3	1	23.63	23.72	23.55					
1.4	16QAM	3	3	23.57	23.61	23.57					
1.4	16QAM	6	0	22.42	22.69	22.50	23.7	2			
1.4	16QAM	1	0	22.81	22.66	22.60					
1.4	16QAM	1	3	22.56	22.78	22.51					
1.4	16QAM	1	5	22.92	22.90	22.75					
1.4	16QAM	3	0	22.58	22.57	22.70	23.7	2			
1.4	16QAM	3	1	22.58	22.74	22.72					
1.4	16QAM	3	3	22.46	22.80	22.57					
1.4	16QAM	6	0	21.68	21.48	21.74	22.7	3			

Band 5_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	24.84	24.67	24.65					
10	QPSK	1	25	24.55	24.61	24.62	25.5	0			
10	QPSK	1	49	24.62	24.63	24.60					
10	QPSK	25	0	23.55	23.63	23.60					
10	QPSK	25	12	23.41	23.52	23.42					
10	QPSK	25	25	23.52	23.62	23.59	24.5	1			
10	QPSK	50	0	23.52	23.60	23.53					
10	16QAM	1	0	23.72	23.75	23.60					
10	16QAM	1	25	23.61	23.72	23.59	24.5	1			
10	16QAM	1	49	23.62	23.71	23.63					
10	16QAM	25	0	22.43	22.53	22.45					
10	16QAM	25	12	22.47	22.62	22.50					
10	16QAM	25	25	22.50	22.63	22.63	23.5	2			
10	16QAM	50	0	22.52	22.57	22.47					
10	16QAM	1	0	22.59	22.67	22.64					
10	16QAM	1	25	22.65	22.65	22.63	23.5	2			
10	16QAM	1	49	22.56	22.58	22.44					
10	16QAM	25	0	21.42	21.54	21.45					
10	16QAM	25	12	21.62	21.63	21.48	22.5	3			
10	16QAM	25	25	21.59	21.66	21.59					
10	16QAM	50	0	21.49	21.58	21.54					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	24.59	24.64	24.53					
5	QPSK	1	12	24.53	24.65	24.67	25.5	0			
5	QPSK	1	24	24.63	24.50	24.37					
5	QPSK	12	0	23.29	23.58	23.54					
5	QPSK	12	7	23.29	23.43	23.34					
5	QPSK	12	13	23.57	23.68	23.34	24.5	1			
5	QPSK	25	0	23.44	23.53	23.58					
5	16QAM	1	0	23.80	23.75	23.53					
5	16QAM	1	12	23.65	23.59	23.36	24.5	1			
5	16QAM	1	24	23.63	23.56	23.50					
5	16QAM	12	0	22.39	22.60	22.30					
5	16QAM	12	7	22.46	22.67	22.47					
5	16QAM	12	13	22.24	22.43	22.38	23.5	2			



Band 7_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20850	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	22.31	22.44	22.25	23	0			
20	QPSK	1	49	22.29	22.36	22.25					
20	QPSK	1	99	22.28	22.34	22.27					
20	QPSK	50	0	22.34	22.38	22.25					
20	QPSK	50	24	22.33	22.37	22.28					
20	QPSK	50	50	22.32	22.37	22.28	23	0			
20	QPSK	100	0	22.38	22.40	22.27					
20	16QAM	1	0	22.40	22.39	22.37					
20	16QAM	1	49	22.37	22.43	22.38	23	0			
20	16QAM	1	99	22.35	22.42	22.40					
20	16QAM	50	0	22.41	22.41	22.36					
20	16QAM	50	24	22.33	22.37	22.39					
20	16QAM	50	50	22.39	22.41	22.40	23	0			
20	16QAM	100	0	22.44	22.43	22.42					
20	64QAM	1	0	22.38	22.42	22.28					
20	64QAM	1	49	22.20	22.41	22.30	23	0			
20	64QAM	1	99	22.27	22.42	22.35					
20	64QAM	50	0	21.89	21.93	21.78					
20	64QAM	50	24	21.76	21.87	21.76	22.5	0.5			
20	64QAM	50	50	21.86	21.92	21.88					
20	64QAM	100	0	21.77	21.88	21.82					
Channel				20825	21100	21375					
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	22.15	22.40	22.25	23	0			
15	QPSK	1	37	22.24	22.38	22.25					
15	QPSK	1	74	22.30	22.35	22.28					
15	QPSK	36	0	22.29	22.31	22.25					
15	QPSK	36	20	22.25	22.41	22.31					
15	QPSK	36	39	22.28	22.37	22.28	23	0			
15	QPSK	75	0	22.41	22.42	22.25					
15	16QAM	1	0	22.39	22.40	22.38					
15	16QAM	1	37	22.28	22.38	22.31	23	0			
15	16QAM	1	74	22.32	22.36	22.40					
15	16QAM	36	0	22.33	22.36	22.35					
15	16QAM	36	20	22.27	22.31	22.35					
15	16QAM	36	39	22.37	22.39	22.42	23	0			
15	16QAM	75	0	22.42	22.41	22.37					
15	64QAM	1	0	22.27	22.40	22.38					
15	64QAM	1	37	22.00	22.24	22.42	23	0			
15	64QAM	1	74	22.42	22.34	22.40					
15	64QAM	36	0	21.82	21.91	21.71					
15	64QAM	36	20	21.78	21.89	21.87	22.5	0.5			
15	64QAM	36	39	21.93	21.92	21.91					
15	64QAM	75	0	21.89	21.84	21.74					
Channel				20800	21100	21400					
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	22.44	22.42	22.21	23	0			
10	QPSK	1	25	22.18	22.35	22.29					
10	QPSK	1	49	22.33	22.35	22.29					
10	QPSK	25	0	22.33	22.43	22.30					
10	QPSK	25	12	22.27	22.30	22.28					
10	QPSK	25	25	22.37	22.30	22.18	23	0			
10	QPSK	50	0	22.35	22.34	22.22					
10	16QAM	1	0	22.37	22.38	22.36					
10	16QAM	1	25	22.35	22.44	22.31	23	0			
10	16QAM	1	49	22.35	22.42	22.33					
10	16QAM	25	0	22.33	22.41	22.33					
10	16QAM	25	12	22.34	22.34	22.32					
10	16QAM	25	25	22.41	22.39	22.43	23	0			
10	16QAM	50	0	22.40	22.43	22.37					
10	64QAM	1	0	22.38	22.41	22.28					
10	64QAM	1	25	22.31	22.28	22.40	23	0			
10	64QAM	1	49	22.30	22.42	22.25					
10	64QAM	25	0	21.71	21.90	21.64					
10	64QAM	25	12	21.78	21.91	21.64	22.5	0.5			
10	64QAM	25	25	21.68	21.71	21.78					
10	64QAM	50	0	21.68	21.77	21.94					
Channel				20775	21100	21425					
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	22.23	22.24	22.40	23	0			
5	QPSK	1	12	22.31	22.36	22.17					
5	QPSK	1	24	22.20	22.28	22.23					
5	QPSK	12	0	22.32	22.31	22.24					
5	QPSK	12	7	22.30	22.30	22.29					
5	QPSK	12	13	22.25	22.37	22.21	23	0			
5	QPSK	25	0	22.32	22.37	22.21					
5	16QAM	1	0	22.39	22.31	22.41					
5	16QAM	1	12	22.36	22.40	22.40	23	0			
5	16QAM	1	24	22.38	22.34	22.40					
5	16QAM	12	0	22.44	22.36	22.37					
5	16QAM	12	7	22.37	22.39	22.33					
5	16QAM	12	13	22.41	22.39	22.42	23	0			
5	16QAM	25	0	22.40	22.42	22.33					
5	64QAM	1	0	22.20	22.20	22.34					
5	64QAM	1	12	22.08	22.43	22.41	23	0			
5	64QAM	1	24	22.40	22.39	22.40					
5	64QAM	12	0	21.79	21.83	21.89					
5	64QAM	12	7	21.82	21.87	21.98	22.5	0.5			
5	64QAM	12	13	21.83	21.71	21.87					
5	64QAM	25	0	21.82	21.82	21.69					

Band 7_Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20850	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	23.70	23.75	23.50	25.5	0			
20	QPSK	1	49	23.58	23.69	23.58					
20	QPSK	1	99	23.61	23.62	23.50					
20	QPSK	50	0	22.53	22.73	22.64					
20	QPSK	50	24	22.56	22.66	22.63					
20	QPSK	50	50	22.55	22.62	22.61	24.5	1			
20	QPSK	100	0	22.54	22.61	22.56					
20	16QAM	1	0	22.70	22.70	22.55					
20	16QAM	1	49	22.65	22.65	22.59	24.5	1			
20	16QAM	1	99	22.60	22.65	22.59					
20	16QAM	50	0	21.62	21.62	21.57					
20	16QAM	50	24	21.51	21.66	21.62					
20	16QAM	50	50	21.56	21.61	21.60	23.5	2			
20	16QAM	100	0	21.72	21.77	21.63					
20	64QAM	1	0	21.58	21.73	21.63					
20	64QAM	1	49	21.61	21.71	21.58	23.5	2			
20	64QAM	1	99	21.66	21.84	21.61					
20	64QAM	50	0	20.65	20.70	20.56					
20	64QAM	50	24	20.62	20.67	20.58					
20	64QAM	50	50	20.55	20.70	20.61	22.5	3			
20	64QAM	100	0	20.52	20.63	20.59					
Channel				20825	21100	21375					
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	23.72	23.60	23.52	25.5	0			
15	QPSK	1	37	23.52	23.53	23.60					
15	QPSK	1	74	23.70	23.57	23.55					
15	QPSK	36	0	22.80	22.86	22.84					
15	QPSK	36	20	22.53	22.96	22.61					
15	QPSK	36	39	22.61	22.67	22.77	24.5	1			
15	QPSK	75	0	22.68	22.67	22.77					
15	16QAM	1	0	22.84	22.97	22.82					
15	16QAM	1	37	22.76	22.68	22.59	24.5	1			
15	16QAM	1	74	23.66	23.53	23.66					
15	16QAM	36	0	21.73	21.72	21.51					
15	16QAM	36	20	21.58	21.73	21.82					
15	16QAM	36	39	21.62	21.66	21.61					



Band 12_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.45	24.51	24.45	25.5	0	
10	QPSK	1	25	24.40	24.41	24.43			
10	QPSK	1	49	24.33	24.35	24.35			
10	QPSK	25	0	23.43	23.53	23.46			
10	QPSK	25	12	23.33	23.37	23.33			
10	QPSK	25	25	23.31	23.42	23.37	24.5	1	
10	QPSK	50	0	23.42	23.50	23.37			
10	16QAM	1	0	23.52	23.60	23.54			
10	16QAM	1	25	23.37	23.50	23.46	24.5	1	
10	16QAM	1	49	23.52	23.61	23.47			
10	16QAM	25	0	22.46	22.55	22.44			
10	16QAM	25	12	22.41	22.41	22.28			
10	16QAM	25	25	22.41	22.43	22.31	23.5	2	
10	16QAM	50	0	22.40	22.49	22.42			
10	64QAM	1	0	22.35	22.48	22.34			
10	64QAM	1	25	22.52	22.56	22.55	23.5	2	
10	64QAM	1	49	22.40	22.41	22.41			
10	64QAM	25	0	21.51	21.56	21.43			
10	64QAM	25	12	21.29	21.42	21.29	22.5	3	
10	64QAM	25	25	21.30	21.40	21.40			
10	64QAM	50	0	21.31	21.46	21.34			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.28	24.47	24.29	25.5	0	
5	QPSK	1	12	24.14	24.27	24.46			
5	QPSK	1	24	24.05	24.34	24.34			
5	QPSK	12	0	23.16	23.25	23.38			
5	QPSK	12	7	23.10	23.20	23.38	24.5	1	
5	QPSK	12	13	23.22	23.28	23.43			
5	QPSK	25	0	23.35	23.24	23.34			
5	16QAM	1	0	23.26	23.43	23.35			
5	16QAM	1	12	23.09	23.35	23.23	24.5	1	
5	16QAM	1	24	23.31	23.38	23.49			
5	16QAM	12	0	22.44	22.28	22.20			
5	16QAM	12	7	22.19	22.45	22.36	23.5	2	
5	16QAM	12	13	22.40	22.50	22.18			
5	16QAM	25	0	22.36	22.27	22.17			
5	64QAM	1	0	22.28	22.23	22.33			
5	64QAM	1	12	22.25	22.45	22.62	23.5	2	
5	64QAM	1	24	22.35	22.31	22.41			
5	64QAM	12	0	21.38	21.43	21.29			
5	64QAM	12	7	21.37	21.35	21.08	22.5	3	
5	64QAM	12	13	21.30	21.25	21.39			
5	64QAM	25	0	21.39	21.41	21.33			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.48	24.48	24.40	25.5	0	
3	QPSK	1	8	24.38	24.42	24.49			
3	QPSK	1	14	24.36	24.19	24.17			
3	QPSK	8	0	23.21	23.30	23.26			
3	QPSK	8	4	23.11	23.26	23.07	24.5	1	
3	QPSK	8	7	23.09	23.15	23.41			
3	QPSK	15	0	23.35	23.24	23.24			
3	16QAM	1	0	23.42	23.50	23.51			
3	16QAM	1	8	23.25	23.56	23.54	24.5	1	
3	16QAM	1	14	23.50	23.53	23.42			
3	16QAM	8	0	22.23	22.33	22.36			
3	16QAM	8	4	22.19	22.30	22.19	23.5	2	
3	16QAM	8	7	22.28	22.46	22.28			
3	16QAM	15	0	22.41	22.24	22.40			
3	64QAM	1	0	22.15	22.34	22.09			
3	64QAM	1	8	22.35	22.58	22.48	23.5	2	
3	64QAM	1	14	22.31	22.15	22.47			
3	64QAM	8	0	21.51	21.41	21.22			
3	64QAM	8	4	21.27	21.35	21.30	22.5	3	
3	64QAM	8	7	21.31	21.44	21.23			
3	64QAM	15	0	21.04	21.50	21.28			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.45	24.47	24.45	25.5	0	
1.4	QPSK	1	3	24.34	24.44	24.32			
1.4	QPSK	1	5	24.30	24.22	24.30			
1.4	QPSK	3	0	24.32	24.32	24.10			
1.4	QPSK	3	1	24.14	24.24	24.16			
1.4	QPSK	3	3	24.04	24.13	24.30	24.5	1	
1.4	QPSK	6	0	23.26	23.43	23.23			
1.4	16QAM	1	0	23.38	23.51	23.36			
1.4	16QAM	1	3	23.44	23.54	23.41			
1.4	16QAM	1	5	23.58	23.55	23.19	24.5	1	
1.4	16QAM	3	0	23.29	23.37	23.09			
1.4	16QAM	3	1	23.32	23.35	23.22			
1.4	16QAM	3	3	23.11	23.41	23.18	23.5	2	
1.4	16QAM	6	0	22.19	22.49	22.39			
1.4	64QAM	1	0	22.19	22.50	22.40			
1.4	64QAM	1	3	22.47	22.43	22.30			
1.4	64QAM	1	5	22.21	22.19	22.24	23.5	2	
1.4	64QAM	3	0	22.46	22.46	22.06			
1.4	64QAM	3	1	22.05	22.30	22.25			
1.4	64QAM	3	3	22.24	22.29	22.19			
1.4	64QAM	6	0	21.05	21.20	21.08	22.5	3	

Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.67	23.70	23.65	25	0	
10	QPSK	1	25	23.60	23.67	23.62			
10	QPSK	1	49	23.63	23.65	23.64			
10	QPSK	25	0	22.71	22.80	22.65			
10	QPSK	25	12	22.48	22.63	22.48	24	1	
10	QPSK	25	25	22.62	22.67	22.55			
10	QPSK	50	0	22.66	22.78	22.72			
10	16QAM	1	0	22.55	22.62	22.59			
10	16QAM	1	25	22.64	22.73	22.69	24	1	
10	16QAM	1	49	22.55	21.61	21.46			
10	16QAM	25	0	21.67	21.80	21.79			
10	16QAM	25	12	21.54	21.56	21.42			
10	16QAM	25	25	21.49	21.51	21.41	23	2	
10	16QAM	50	0	21.63	21.68	21.65			
10	64QAM	1	0	21.50	21.65	21.50			
10	64QAM	1	25	21.58	21.71	21.57	23	2	
10	64QAM	1	49	21.57	21.61	21.46			
10	64QAM	25	0	20.72	20.86	20.76			
10	64QAM	25	12	20.40	20.54	20.39	22	3	
10	64QAM	25	25	20.58	20.60	20.46			
10	64QAM	50	0	20.48	20.61	20.52			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.58	23.63	23.51	25	0	
5	QPSK	1	12	23.61	23.55	23.42			
5	QPSK	1	24	23.65	23.67	23.54			
5	QPSK	12	0	22.74	22.70	22.49			
5	QPSK	12	7	22.25	22.53	22.45	24	1	
5	QPSK	12	13	22.49	22.71	22.38			
5	QPSK	25	0	22.54	22.51	22.57			
5	16QAM	1	0	22.61	22.43	22.63			
5	16QAM	1	12	22.53	22.48	22.45	24	1	
5	16QAM	1	24	22.43	22.61	22.52			
5	16QAM	12	0	21.75	21.56	21.86			
5	16QAM	12	7	21.43	21.39	21.38	23	2	
5	16QAM	12	13	21.45	21.54	21.37			
5	16QAM	25	0	21.37	21.43	21.43			
5	64QAM	1	0	21.45	21.69	21.54			
5	64QAM	1	12	21.43	21.79	21.51	23	2	
5	64QAM	1	24	21.53	21.54	21.46			
5	64QAM	12	0	20.54	20.69	20.60			
5	64QAM	12	7	20.22	20.47	20.34	22	3	
5	64QAM	12	13	20.39	20.48	20.50			
5	64QAM	25	0	20.39	20.64	20.24			



Band 66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	20.87	20.91	20.74			
20	QPSK	1	49	20.80	20.85	20.85	22.7	0	
20	QPSK	1	99	20.85	20.85	20.85			
20	QPSK	50	0	20.84	20.87	20.86			
20	QPSK	50	24	20.82	20.86	20.83			
20	QPSK	50	50	20.80	20.86	20.81	22.7	0	
20	QPSK	100	0	20.81	20.86	20.85			
20	16QAM	1	0	20.82	20.89	20.89			
20	16QAM	1	49	20.89	20.90	20.89	22.7	0	
20	16QAM	1	99	20.74	20.72	20.72			
20	16QAM	50	0	20.83	20.89	20.84			
20	16QAM	50	24	20.88	20.84	20.80			
20	16QAM	50	50	20.75	20.83	20.87	22.7	0	
20	16QAM	100	0	20.88	20.88	20.82			
20	64QAM	1	0	20.85	20.86	20.79			
20	64QAM	1	49	20.80	20.89	20.83	22.7	0	
20	64QAM	1	99	20.74	20.72	20.72			
20	64QAM	50	0	20.46	20.40	20.27			
20	64QAM	50	24	20.30	20.34	20.31			
20	64QAM	50	50	20.36	20.36	20.49	22.2	0.5	
20	64QAM	100	0	20.20	20.35	20.37			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	20.71	20.83	20.86			
15	QPSK	1	37	20.83	20.88	20.70	22.7	0	
15	QPSK	1	74	20.80	20.87	20.78			
15	QPSK	36	0	20.80	20.84	20.82			
15	QPSK	36	20	20.81	20.89	20.81			
15	QPSK	36	39	20.82	20.80	20.87	22.7	0	
15	QPSK	75	0	20.86	20.88	20.83			
15	16QAM	1	0	20.77	20.82	20.84			
15	16QAM	1	37	20.91	20.83	20.87	22.7	0	
15	16QAM	1	74	20.75	20.75	20.86			
15	16QAM	36	0	20.79	20.85	20.79			
15	16QAM	36	20	20.82	20.84	20.75			
15	16QAM	36	39	20.71	20.85	20.82	22.7	0	
15	16QAM	75	0	20.87	20.74	20.88			
15	64QAM	1	0	20.71	20.77	20.73			
15	64QAM	1	37	20.71	20.77	20.83	22.7	0	
15	64QAM	1	74	20.76	20.87	20.78			
15	64QAM	36	0	20.39	20.38	20.37			
15	64QAM	36	20	20.31	20.34	20.40			
15	64QAM	36	39	20.39	20.25	20.42	22.2	0.5	
15	64QAM	75	0	20.25	20.21	20.45			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	20.88	20.84	20.77			
10	QPSK	1	25	20.80	20.81	20.70	22.7	0	
10	QPSK	1	49	20.85	20.75	20.77			
10	QPSK	25	0	20.82	20.81	20.83			
10	QPSK	25	12	20.87	20.80	20.78			
10	QPSK	25	25	20.81	20.81	20.76	22.7	0	
10	QPSK	50	0	20.83	20.86	20.79			
10	16QAM	1	0	20.85	20.74	20.72			
10	16QAM	1	25	20.87	20.86	20.74	22.7	0	
10	16QAM	1	49	20.76	20.79	20.80			
10	16QAM	25	0	20.81	20.81	20.89			
10	16QAM	25	12	20.87	20.80	20.75			
10	16QAM	25	25	20.78	20.82	20.90	22.7	0	
10	16QAM	50	0	20.85	20.90	20.76			
10	64QAM	1	0	20.76	20.75	20.83			
10	64QAM	1	25	20.70	20.85	20.81	22.7	0	
10	64QAM	1	49	20.81	20.70	20.72			
10	64QAM	25	0	20.56	20.52	20.35			
10	64QAM	25	12	20.33	20.41	20.25			
10	64QAM	25	25	20.24	20.24	20.29	22.2	0.5	
10	64QAM	50	0	20.29	20.20	20.41			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	20.87	20.88	20.78			
5	QPSK	1	12	20.77	20.83	20.73	22.7	0	
5	QPSK	1	24	20.81	20.76	20.76			
5	QPSK	12	0	20.80	20.87	20.87			
5	QPSK	12	7	20.77	20.83	20.77	22.7	0	
5	QPSK	12	13	20.76	20.87	20.87			
5	QPSK	25	0	20.76	20.86	20.86			
5	16QAM	1	0	20.75	20.82	20.82			
5	16QAM	1	12	20.86	20.86	20.84	22.7	0	
5	16QAM	1	24	20.74	20.77	20.86			
5	16QAM	12	0	20.78	20.85	20.81			
5	16QAM	12	7	20.82	20.90	20.84	22.7	0	
5	16QAM	12	13	20.79	20.80	20.83			
5	16QAM	25	0	20.81	20.89	20.82			
5	64QAM	1	0	20.86	20.74	20.79			
5	64QAM	1	12	20.78	20.84	20.72	22.7	0	
5	64QAM	1	24	20.82	20.78	20.78			
5	64QAM	12	0	20.50	20.35	20.21			
5	64QAM	12	7	20.21	20.38	20.33			
5	64QAM	12	13	20.36	20.35	20.42	22.2	0.5	
5	64QAM	25	0	20.25	20.24	20.27			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	20.90	20.77	20.75			
3	QPSK	1	8	20.77	20.78	20.78	22.7	0	
3	QPSK	1	14	20.87	20.70	20.75			
3	QPSK	8	0	20.77	20.86	20.85			
3	QPSK	8	4	20.82	20.89	20.89	22.7	0	
3	QPSK	8	7	20.76	20.86	20.85			
3	QPSK	15	0	20.80	20.86	20.86			
3	16QAM	1	0	20.83	20.83	20.75			
3	16QAM	1	8	20.82	20.82	20.83	22.7	0	
3	16QAM	1	14	20.77	20.84	20.85			
3	16QAM	8	0	20.89	20.74	20.85			
3	16QAM	8	4	20.83	20.89	20.75	22.7	0	
3	16QAM	8	7	20.79	20.76	20.87			
3	16QAM	15	0	20.83	20.81	20.87			
3	64QAM	1	0	20.77	20.77	20.87			
3	64QAM	1	8	20.70	20.76	20.75	22.7	0	
3	64QAM	1	14	20.71	20.86	20.73			
3	64QAM	8	0	20.42	20.20	20.28			
3	64QAM	8	4	20.21	20.37	20.35			
3	64QAM	8	7	20.38	20.33	20.38	22.2	0.5	
3	64QAM	15	0	20.26	20.40	20.46			
Channel				131979	132322	132665			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	20.83	20.78	20.70			
1.4	QPSK	1	3	20.79	20.75	20.77	22.7	0	
1.4	QPSK	1	5	20.84	20.70	20.74			
1.4	QPSK	3	0	20.81	20.86	20.81			
1.4	QPSK	3	1	20.81	20.87	20.88			
1.4	QPSK	3	3	20.78	20.90	20.86			
1.4	QPSK	6	0	20.80	20.87	20.87	22.7	0	
1.4	16QAM	1	0	20.84	20.87	20.74			
1.4	16QAM	1	3	20.88	20.82	20.87			
1.4	16QAM	1	5	20.78	20.79	20.88	22.7	0	
1.4	16QAM	3	0	20.83	20.76	20.78			
1.4	16QAM	3	1	20.86	20.75	20.72			
1.4	16QAM	3	3	20.74	20.77	20.89			
1.4	16QAM	6	0	20.86	20.77	20.89	22.7	0	
1.4	64QAM	1	0	20.79	20.71	20.74			
1.4	64QAM	1	3	20.74	20.85	20.77			
1.4	64QAM	1	5	20.72	20.78	20.71	22.7	0	
1.4	64QAM	3	0	20.75	20.79	20.72			
1.4	64QAM	3	1	20.79	20.83	20.75			
1.4	64QAM	3	3	20.78	20.78	20.77			
1.4	64QAM	6	0	20.33	20.54	20.27	22.2	0.5	

Band 66_Ant 1									
BW (MHz)	Modulation	RB Size</							



Band 66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	23.09	23.21	23.07	24.2	0	
20	QPSK	1	49	22.98	23.12	23.05			
20	QPSK	1	99	23.00	23.03	23.04			
20	QPSK	50	0	22.05	22.19	22.15			
20	QPSK	50	24	22.01	22.16	22.10			
20	QPSK	50	50	22.00	22.12	22.05			
20	QPSK	100	0	22.05	22.14	22.09			
20	16QAM	1	0	21.91	22.18	21.95			
20	16QAM	1	49	22.26	22.20	21.98			
20	16QAM	1	99	22.00	22.03	22.07			
20	16QAM	50	0	21.26	21.18	21.17			
20	16QAM	50	24	20.93	21.21	21.28			
20	16QAM	50	50	20.91	21.15	21.13			
20	16QAM	100	0	21.13	21.14	20.91			
20	64QAM	1	0	20.94	21.13	20.92			
20	64QAM	1	49	20.83	21.10	20.92			
20	64QAM	1	99	20.90	21.00	20.96			
20	64QAM	50	0	20.11	20.17	20.03			
20	64QAM	50	24	19.91	20.13	20.15			
20	64QAM	50	50	20.15	20.16	20.12			
20	64QAM	100	0	20.16	20.11	20.04			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	23.04	23.11	23.01	24.2	0	
15	QPSK	1	37	22.98	22.84	23.06			
15	QPSK	1	74	22.79	22.88	22.78			
15	QPSK	36	0	22.03	22.17	21.99			
15	QPSK	36	20	21.89	21.93	22.04			
15	QPSK	36	39	21.93	22.16	22.08			
15	QPSK	75	0	21.93	21.97	21.87			
15	16QAM	1	0	21.86	22.20	21.93			
15	16QAM	1	37	22.17	22.20	21.99			
15	16QAM	1	74	21.93	22.20	22.01			
15	16QAM	36	0	21.11	20.97	20.89			
15	16QAM	36	20	20.76	21.25	21.24			
15	16QAM	36	39	20.82	20.98	20.95			
15	16QAM	75	0	21.01	21.00	20.86			
15	64QAM	1	0	20.90	21.08	20.75			
15	64QAM	1	37	20.82	20.99	20.83			
15	64QAM	1	74	20.85	20.85	20.88			
15	64QAM	36	0	20.03	20.16	19.80			
15	64QAM	36	20	19.99	19.89	19.94			
15	64QAM	36	39	20.14	19.89	19.85			
15	64QAM	75	0	19.96	20.18	19.88			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	23.09	23.20	23.03	24.2	0	
10	QPSK	1	25	22.70	23.13	22.94			
10	QPSK	1	49	22.78	22.77	22.91			
10	QPSK	25	0	21.83	22.19	22.07			
10	QPSK	25	12	21.97	22.11	22.12			
10	QPSK	25	25	22.07	21.87	21.88			
10	QPSK	50	0	21.97	21.98	21.87			
10	16QAM	1	0	21.80	22.10	21.98			
10	16QAM	1	25	22.11	22.04	21.90			
10	16QAM	1	49	21.93	21.88	22.07			
10	16QAM	25	0	21.13	20.19	21.09			
10	16QAM	25	12	20.91	21.26	21.01			
10	16QAM	25	25	20.79	20.95	20.98			
10	16QAM	50	0	20.92	21.02	20.95			
10	64QAM	1	0	20.96	21.00	20.74			
10	64QAM	1	25	20.86	20.90	20.66			
10	64QAM	1	49	20.77	21.05	20.77			
10	64QAM	25	0	19.97	20.14	20.01			
10	64QAM	25	12	19.90	19.99	20.20			
10	64QAM	25	25	20.22	19.91	20.14			
10	64QAM	50	0	20.07	19.91	19.94			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	22.86	22.85	23.00	24.2	0	
5	QPSK	1	12	22.77	23.16	23.03			
5	QPSK	1	24	22.98	22.78	23.10			
5	QPSK	12	0	21.91	21.83	22.19			
5	QPSK	12	7	22.01	22.09	21.92			
5	QPSK	12	13	21.82	21.93	22.09			
5	QPSK	25	0	21.78	22.20	21.85			
5	16QAM	1	0	21.93	22.01	21.93			
5	16QAM	1	12	21.99	22.13	21.86			
5	16QAM	1	24	21.90	22.04	21.90			
5	16QAM	12	0	21.13	21.12	21.20			
5	16QAM	12	7	20.72	21.07	21.05			
5	16QAM	12	13	20.86	20.89	20.90			
5	16QAM	25	0	21.15	20.91	20.94			
5	64QAM	1	0	20.98	20.90	20.74			
5	64QAM	1	12	20.80	21.09	20.82			
5	64QAM	1	24	20.82	20.93	20.98			
5	64QAM	12	0	19.98	19.89	19.82			
5	64QAM	12	7	19.82	19.85	19.96			
5	64QAM	12	13	20.20	20.18	20.01			
5	64QAM	25	0	20.19	20.14	20.05			
Channel				131972	132322	132672			
Frequency (MHz)				1710.2	1745	1779.3			
3	QPSK	1	0	23.15	23.11	23.08	24.2	0	
3	QPSK	1	8	22.72	22.88	22.87			
3	QPSK	1	14	22.80	22.77	22.92			
3	QPSK	8	0	22.09	22.07	22.05			
3	QPSK	8	4	21.90	21.98	22.10			
3	QPSK	8	7	21.95	22.07	22.08			
3	QPSK	15	0	21.77	22.12	22.12			
3	16QAM	1	0	21.73	21.96	21.70			
3	16QAM	1	8	22.06	22.09	21.84			
3	16QAM	1	14	22.11	21.83	22.15			
3	16QAM	8	0	21.17	21.13	21.09			
3	16QAM	8	4	20.94	20.95	21.00			
3	16QAM	8	7	20.84	20.89	20.94			
3	16QAM	15	0	20.88	21.20	20.93			
3	64QAM	1	0	20.90	21.02	20.71			
3	64QAM	1	8	20.80	21.03	20.88			
3	64QAM	1	14	20.80	20.92	20.90			
3	64QAM	8	0	19.99	20.25	19.89			
3	64QAM	8	4	19.78	19.98	20.02			
3	64QAM	8	7	20.16	20.19	20.04			
3	64QAM	15	0	19.97	19.93	19.76			
Channel				131979	132322	132656			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	22.86	23.05	22.92	24.2	0	
1.4	QPSK	1	3	22.78	22.81	22.79			
1.4	QPSK	1	5	22.92	22.91	22.95			
1.4	QPSK	3	0	22.89	22.86	22.83			
1.4	QPSK	3	1	22.87	22.85	22.75			
1.4	QPSK	3	3	22.84	22.88	22.97			
1.4	QPSK	6	0	21.80	21.96	22.16			
1.4	16QAM	1	0	21.88	22.06	21.78			
1.4	16QAM	1	3	22.14	21.92	21.95			
1.4	16QAM	1	5	21.90	22.12	21.83			
1.4	16QAM	3	0	22.08	22.02	21.86			
1.4	16QAM	3	1	21.74	21.83	22.08			
1.4	16QAM	3	3	21.72	21.96	22.05			
1.4	16QAM	6	0	21.01	21.15	20.74			
1.4	64QAM	1	0	20.90	21.01	20.89			
1.4	64QAM	1	3	20.91	20.84	20.79			
1.4	64QAM	1	5	20.88	20.78	20.77			
1.4	64QAM	3	0	21.01	21.13	20.81			
1.4	64QAM	3	1	20.89	20.83	20.86			
1.4	64QAM	3	3	21.01	20.92	21.05			
1.4	64QAM	6	0	19.90	19.85	19.96			

Band 66_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			



Band 38_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	20.55	20.68	20.56				
20	QPSK	1	49	20.45	20.46	20.26	21.7	0		
20	QPSK	1	99	20.47	20.32	20.29				
20	QPSK	50	0	20.55	20.64	20.53				
20	QPSK	50	24	20.55	20.53	20.43				
20	QPSK	50	50	20.48	20.64	20.46	21.7	0		
20	QPSK	100	0	20.57	20.61	20.58				
20	16QAM	1	0	20.44	20.60	20.56				
20	16QAM	1	49	20.65	20.58	20.60	21.7	0		
20	16QAM	1	99	20.45	20.52	20.46				
20	16QAM	50	0	20.67	20.67	20.60				
20	16QAM	50	24	20.65	20.57	20.48	21.7	0		
20	16QAM	50	50	20.65	20.63	20.66				
20	16QAM	100	0	20.66	20.61	20.62				
20	64QAM	1	0	20.61	20.61	20.46				
20	64QAM	1	49	20.55	20.59	20.42	21.7	0		
20	64QAM	1	99	20.58	20.51	20.61				
20	64QAM	50	0	19.89	19.83	19.83				
20	64QAM	50	24	19.83	19.95	20.16	20.7	1		
20	64QAM	50	50	19.86	20.01	20.09				
20	64QAM	100	0	19.84	20.15	19.94				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	20.42	20.50	20.18				
15	QPSK	1	37	20.24	20.24	20.28	21.7	0		
15	QPSK	1	74	20.32	20.19	20.08				
15	QPSK	36	0	20.42	20.59	20.45				
15	QPSK	36	20	20.48	20.50	20.53	21.7	0		
15	QPSK	36	39	20.43	20.55	20.44				
15	QPSK	75	0	20.49	20.53	20.47				
15	16QAM	1	0	20.25	20.39	20.48				
15	16QAM	1	37	20.55	20.51	20.37	21.7	0		
15	16QAM	1	74	20.25	20.36	20.25				
15	16QAM	36	0	20.42	20.57	20.48				
15	16QAM	36	20	20.51	20.55	20.55	21.7	0		
15	16QAM	36	39	20.54	20.54	20.47				
15	16QAM	75	0	20.54	20.63	20.56				
15	64QAM	1	0	20.47	20.27	20.44				
15	64QAM	1	37	20.40	20.60	20.37	21.7	0		
15	64QAM	1	74	20.26	20.29	20.38				
15	64QAM	36	0	19.89	19.80	19.89				
15	64QAM	36	20	19.81	19.90	19.79	20.7	1		
15	64QAM	36	39	19.96	19.82	20.11				
15	64QAM	75	0	19.97	20.12	19.89				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.38	20.31	20.20				
10	QPSK	1	25	20.24	20.26	20.16	21.7	0		
10	QPSK	1	49	20.24	20.07	20.11				
10	QPSK	25	0	20.48	20.48	20.50				
10	QPSK	25	12	20.49	20.45	20.51	21.7	0		
10	QPSK	25	25	20.45	20.43	20.48				
10	QPSK	50	0	20.51	20.46	20.47				
10	16QAM	1	0	20.33	20.46	20.48				
10	16QAM	1	25	20.46	20.55	20.42	21.7	0		
10	16QAM	1	49	20.36	20.38	20.32				
10	16QAM	25	0	20.45	20.57	20.45				
10	16QAM	25	12	20.56	20.56	20.51	21.7	0		
10	16QAM	25	25	20.47	20.56	20.45				
10	16QAM	50	0	20.57	20.60	20.56				
10	64QAM	1	0	20.35	20.46	20.29				
10	64QAM	1	25	20.56	20.33	20.29	21.7	0		
10	64QAM	1	49	20.22	20.58	20.20				
10	64QAM	25	0	19.75	19.82	19.86				
10	64QAM	25	12	19.86	19.94	19.83	20.7	1		
10	64QAM	25	25	19.90	19.83	19.88				
10	64QAM	50	0	19.95	20.09	19.84				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	20.43	20.52	20.50				
5	QPSK	1	12	20.27	20.32	20.18	21.7	0		
5	QPSK	1	24	20.30	20.13	20.06				
5	QPSK	12	0	20.51	20.46	20.50				
5	QPSK	12	7	20.46	20.55	20.52	21.7	0		
5	QPSK	12	13	20.47	20.50	20.37				
5	QPSK	25	0	20.39	20.55	20.51				
5	16QAM	1	0	20.29	20.40	20.43				
5	16QAM	1	12	20.47	20.49	20.43	21.7	0		
5	16QAM	1	24	20.31	20.43	20.30				
5	16QAM	12	0	20.45	20.51	20.48				
5	16QAM	12	7	20.46	20.55	20.58	21.7	0		
5	16QAM	12	13	20.41	20.62	20.46				
5	16QAM	25	0	20.56	20.58	20.56				
5	64QAM	1	0	20.28	20.55	20.28				
5	64QAM	1	12	20.55	20.35	20.43	21.7	0		
5	64QAM	1	24	20.29	20.40	20.18				
5	64QAM	12	0	19.81	19.95	19.81				
5	64QAM	12	7	19.74	20.06	19.73	20.7	1		
5	64QAM	12	13	20.04	19.94	19.80				
5	64QAM	25	0	19.73	20.00	19.94				

Band 38_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.81	19.82	19.80				
20	QPSK	1	49	19.78	19.87	19.79	20.5	0		
20	QPSK	1	99	19.77	19.76	19.87				
20	QPSK	50	0	19.75	19.89	19.84				
20	QPSK	50	24	19.75	19.85	19.82	20.5	0		
20	QPSK	50	50	19.74	19.83	19.74				
20	QPSK	100	0	19.71	19.82	19.75				
20	16QAM	1	0	19.75	19.83	19.76				
20	16QAM	1	49	19.78	19.80	19.82	20.5	0		
20	16QAM	1	99	19.83	19.87	19.79				
20	16QAM	50	0	19.80	19.81	19.79				
20	16QAM	50	24	19.85	19.85	19.76	20.5	0		
20	16QAM	50	50	19.81	19.81	19.69				
20	16QAM	100	0	19.76	19.86	19.80				
20	64QAM	1	0	19.57	19.78	19.59				
20	64QAM	1	49	19.74	19.91	19.84	20.5	0		
20	64QAM	1	99	19.77	19.83	19.82				
20	64QAM	50	0	19.57	19.81	19.83				
20	64QAM	50	24	19.73	19.87	19.67	20.5	0		
20	64QAM	50	50	19.89	19.81	19.82				
20	64QAM	100	0	19.62	19.84	19.87				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.75	19.70	19.68				
15	QPSK	1	37	19.71	19.80	19.79	20.5	0		
15	QPSK	1	74	19.72	19.84	19.67				
15	QPSK	36	0	19.79	19.86	19.76				
15	QPSK	36	20	19.68	19.79	19.83	20.5	0		
15	QPSK	36	39	19.67	19.88	19.77				
15	QPSK	75	0	19.66	19.77	19.75				
15	16QAM	1	0	19.80	19.81	19.70				
15	16QAM	1	37	19.82	19.86	19.82	20.5	0		
15	16QAM	1	74	19.80	19.87	19.84				
15	16QAM	36	0	19.85	19.85	19.77				
15	16QAM	36	20	19.82	19.82	19.77	20.5	0		
15	16QAM	36	39	19.77	19					



Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.45	21.48	21.14	22.7	0		
20	QPSK	1	99	21.33	21.29	21.08				
20	QPSK	50	0	21.26	21.12	21.12				
20	QPSK	50	0	21.33	21.45	21.35				
20	QPSK	50	24	21.08	21.23	21.16				
20	QPSK	50	50	21.22	21.15	21.16	22.7	0		
20	QPSK	100	0	21.12	21.16	21.05				
20	16QAM	1	0	21.16	21.15	21.13				
20	16QAM	1	49	21.19	21.28	21.23	22.7	0		
20	16QAM	1	99	21.24	21.19	21.18				
20	16QAM	50	0	21.11	21.22	21.13				
20	16QAM	50	24	21.27	21.26	21.09				
20	16QAM	50	50	21.19	21.25	21.10	22.7	0		
20	16QAM	100	0	21.15	21.22	21.17				
20	64QAM	1	0	21.22	21.41	21.19				
20	64QAM	1	49	21.07	21.13	21.23	22.7	0		
20	64QAM	1	99	21.13	21.03	21.13				
20	64QAM	50	0	20.99	20.95	20.12				
20	64QAM	50	24	20.13	20.28	20.00				
20	64QAM	50	50	20.18	20.23	20.10	21.7	1		
20	64QAM	100	0	19.95	19.99	20.13				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.11	21.27	20.85	22.7	0		
15	QPSK	1	37	21.07	21.18	21.04				
15	QPSK	1	74	21.12	21.04	20.90				
15	QPSK	36	0	21.09	21.18	21.08				
15	QPSK	36	20	21.01	21.19	21.00	22.7	0		
15	QPSK	36	39	21.06	20.98	20.97				
15	QPSK	75	0	20.95	20.99	20.88				
15	16QAM	1	0	20.97	21.03	20.96				
15	16QAM	1	37	21.14	21.20	21.01	22.7	0		
15	16QAM	1	74	21.04	21.17	21.00				
15	16QAM	36	0	20.97	21.08	21.02				
15	16QAM	36	20	21.14	21.11	20.91	22.7	0		
15	16QAM	36	39	20.98	21.06	21.01				
15	16QAM	75	0	20.95	21.04	20.95				
15	64QAM	1	0	20.93	20.94	20.91				
15	64QAM	1	37	20.94	21.09	20.98	22.7	0		
15	64QAM	1	74	20.95	20.93	20.93				
15	64QAM	36	0	19.90	20.98	19.72				
15	64QAM	36	20	19.92	20.23	20.08				
15	64QAM	36	39	19.92	20.07	19.96	21.7	1		
15	64QAM	75	0	19.88	19.96	19.78				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.98	21.31	21.01	22.7	0		
10	QPSK	1	25	20.97	21.11	20.96				
10	QPSK	1	49	21.10	21.01	20.92				
10	QPSK	12	0	21.21	21.15	21.13				
10	QPSK	25	12	20.98	21.19	21.09	22.7	0		
10	QPSK	25	25	21.03	21.07	20.98				
10	QPSK	50	0	21.04	20.97	20.85				
10	16QAM	1	0	20.96	21.10	21.07				
10	16QAM	1	25	21.02	21.13	21.05	22.7	0		
10	16QAM	1	49	21.04	21.09	21.08				
10	16QAM	25	0	20.94	21.06	21.05				
10	16QAM	25	12	21.03	21.16	20.99	22.7	0		
10	16QAM	25	25	20.99	21.03	21.01				
10	16QAM	50	0	20.90	21.10	21.00				
10	64QAM	1	0	21.02	21.04	20.92				
10	64QAM	1	25	21.05	21.19	21.02	22.7	0		
10	64QAM	1	49	20.71	20.98	20.87				
10	64QAM	25	0	20.95	20.98	19.76				
10	64QAM	25	12	19.89	20.24	19.99				
10	64QAM	25	25	19.80	20.02	19.71	21.7	1		
10	64QAM	50	0	19.90	20.15	19.90				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	20.96	21.22	20.97	22.7	0		
5	QPSK	1	12	21.09	21.10	21.00				
5	QPSK	1	24	21.16	21.05	20.95				
5	QPSK	12	0	21.19	21.21	21.15				
5	QPSK	12	7	20.92	21.13	21.03	22.7	0		
5	QPSK	12	13	21.03	21.00	21.06				
5	QPSK	25	0	21.03	20.95	20.84				
5	16QAM	1	0	20.91	21.07	21.03				
5	16QAM	1	12	21.10	21.21	20.98	22.7	0		
5	16QAM	1	24	21.12	21.19	21.06				
5	16QAM	12	0	21.00	21.04	21.11				
5	16QAM	12	7	21.11	21.07	20.94	22.7	0		
5	16QAM	12	13	20.97	21.10	20.96				
5	16QAM	25	0	20.99	21.12	21.04				
5	64QAM	1	0	20.96	21.22	21.21				
5	64QAM	1	12	21.09	21.02	21.02	22.7	0		
5	64QAM	1	24	20.86	20.94	21.20				
5	64QAM	12	0	19.92	19.99	19.80				
5	64QAM	12	7	20.18	20.10	19.96				
5	64QAM	12	13	20.08	19.96	20.03	21.7	1		
5	64QAM	25	0	19.75	20.12	19.77				

Band 38_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.67	21.76	21.57				
20	QPSK	1	49	21.48	21.58	21.41	22.8	0		
20	QPSK	1	99	21.56	21.42	21.34				
20	QPSK	50	0	21.32	21.52	21.27				
20	QPSK	50	24	21.42	21.63	21.45	22.8	0		
20	QPSK	50	50	21.42	21.58	21.41				
20	QPSK	100	0	21.60	21.66	21.53				
20	16QAM	1	0	21.46	21.55	21.45				
20	16QAM	1	49	21.59	21.74	21.65	22.8	0		
20	16QAM	1	99	21.57	21.53	21.40				
20	16QAM	50	0	21.32	21.52	21.27				
20	16QAM	50	24	21.45	21.53	21.53	22.8	0		
20	16QAM	50	50	21.59	21.58	21.45				
20	16QAM	100	0	21.39	21.60	21.42				
20	64QAM	1	0	21.73	21.47	21.62				
20	64QAM	1	49	21.56	21.68	21.71	22.8	0		
20	64QAM	1	99	21.50	21.74	21.56				
20	64QAM	50	0	20.39	20.57	20.42				
20	64QAM	50	24	20.43	20.64	20.44	21.8	1		
20	64QAM	50	50	20.53	20.46	20.39				
20	64QAM	100	0	20.48	20.66	20.34				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.49	21.69	21.57				
15	QPSK	1	37	21.49	21.66	21.41	22.8	0		
15	QPSK	1	74	21.22	21.38	21.19				
15	QPSK	36	0	21.46	21.59	21.52				
15	QPSK	36	20	21.43	21.55	21.44	22.8	0		
15	QPSK	36	39	21.42	21.52	21.47				
15	QPSK	75	0	21.52	21.53	21.42				
15	16QAM	1	0	21.62	21.69	21.54				
15	16QAM	1	37	21.62	21.70	21.63	22.8	0		
15	16QAM	1	74	21.55	21.96	21.52				
15	16QAM	36	0	21.46	21.54	21.47				
15	16QAM	36	20	21.54	21.65	21.49	22.8	0		
15	16QAM	36	39	21.56	21.65	21.57				
15	16QAM	75	0	21.45	21.60	21.42				
15	64QAM	1	0	21.59	21.59	21.56			</	



Band 41_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.66	20.50	20.70	20.58	20.63	21.3	0
20	QPSK	1	49	20.55	20.40	20.44	20.53	20.29		
20	QPSK	1	99	20.50	20.40	20.45	20.52	20.38		
20	QPSK	50	0	20.61	20.55	20.68	20.55	20.61		
20	QPSK	50	24	20.53	20.54	20.59	20.51	20.50		
20	QPSK	50	50	20.56	20.51	20.61	20.50	20.53		
20	QPSK	100	0	20.53	20.41	20.65	20.55	20.58		
20	16QAM	1	0	20.43	20.50	20.55	20.47	20.44		
20	16QAM	1	49	20.63	20.66	20.69	20.52	20.64	21.3	0
20	16QAM	1	99	20.35	20.45	20.45	20.44	20.43		
20	16QAM	50	0	20.43	20.36	20.42	20.31	20.28		
20	16QAM	50	24	20.50	20.42	20.47	20.45	20.37		
20	16QAM	50	50	20.42	20.54	20.57	20.51	20.53		
20	16QAM	100	0	20.42	20.42	20.50	20.42	20.44		
20	64QAM	1	0	20.37	20.21	20.30	20.46	20.30		
20	64QAM	1	49	20.63	20.44	20.62	20.61	20.45	21.3	0
20	64QAM	1	99	20.39	20.62	20.45	20.37	20.58		
20	64QAM	50	0	19.14	19.19	19.22	19.49	19.20		
20	64QAM	50	24	19.42	19.22	19.37	19.59	19.43		
20	64QAM	50	50	19.33	19.31	19.52	19.44	19.43		
20	64QAM	100	0	19.19	19.28	19.37	19.28	19.48		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.42	20.46	20.46	20.04	20.12	21.3	0
15	QPSK	1	37	20.42	20.30	20.34	19.98	20.29		
15	QPSK	1	74	20.45	20.32	20.26	20.11	19.99		
15	QPSK	36	0	20.54	20.45	20.60	20.49	20.61		
15	QPSK	36	20	20.40	20.45	20.56	20.44	20.43		
15	QPSK	36	39	20.47	20.43	20.51	20.49	20.40		
15	QPSK	75	0	20.51	20.39	20.51	20.41	20.48		
15	16QAM	1	0	20.42	20.48	20.54	20.48	20.50		
15	16QAM	1	37	20.63	20.56	20.60	20.57	20.62	21.3	0
15	16QAM	1	74	20.40	20.46	20.45	20.53	20.40		
15	16QAM	36	0	20.49	20.45	20.45	20.25	20.28		
15	16QAM	36	20	20.54	20.48	20.55	20.38	20.47		
15	16QAM	36	39	20.40	20.47	20.50	20.57	20.61		
15	16QAM	75	0	20.49	20.33	20.42	20.41	20.48		
15	64QAM	1	0	20.43	20.18	20.60	20.24	20.29		
15	64QAM	1	37	20.66	20.65	20.54	20.44	20.51	21.3	0
15	64QAM	1	74	20.54	20.58	20.57	20.29	20.61		
15	64QAM	36	0	19.44	19.16	19.52	19.36	19.23		
15	64QAM	36	20	19.36	19.34	19.28	19.59	19.52		
15	64QAM	36	39	19.39	19.20	19.36	19.29	19.54		
15	64QAM	75	0	19.18	19.50	19.56	19.25	19.20		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.25	20.48	20.31	20.25	20.37	21.3	0
10	QPSK	1	25	20.44	20.19	20.35	20.06	20.21		
10	QPSK	1	49	20.39	20.37	20.30	20.05	20.02		
10	QPSK	25	0	20.53	20.43	20.54	20.56	20.52		
10	QPSK	25	12	20.51	20.38	20.50	20.45	20.41		
10	QPSK	25	25	20.49	20.41	20.51	20.44	20.42		
10	QPSK	50	0	20.47	20.43	20.51	20.45	20.45		
10	16QAM	1	0	20.41	20.54	20.52	20.43	20.43		
10	16QAM	1	25	20.64	20.66	20.70	20.59	20.65	21.3	0
10	16QAM	1	49	20.27	20.45	20.44	20.42	20.48		
10	16QAM	25	0	20.44	20.33	20.49	20.25	20.30		
10	16QAM	25	12	20.54	20.48	20.52	20.44	20.34		
10	16QAM	25	25	20.45	20.59	20.57	20.54	20.54		
10	16QAM	50	0	20.51	20.41	20.45	20.49	20.39		
10	64QAM	1	0	20.39	20.20	20.57	20.25	20.30		
10	64QAM	1	25	20.43	20.53	20.56	20.57	20.47	21.3	0
10	64QAM	1	49	20.41	20.39	20.59	20.63	20.36		
10	64QAM	25	0	19.41	19.26	19.46	19.44	19.09		
10	64QAM	25	12	19.26	19.27	19.54	19.35	19.42		
10	64QAM	25	25	19.27	19.34	19.28	19.36	19.45		
10	64QAM	50	0	19.35	19.57	19.60	19.53	19.44		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.31	20.20	20.47	20.00	20.46	21.3	0
5	QPSK	1	12	20.39	20.29	20.44	20.06	20.24		
5	QPSK	1	24	20.38	20.30	20.27	19.96	20.03		
5	QPSK	12	0	20.49	20.51	20.58	20.53	20.52		
5	QPSK	12	7	20.47	20.38	20.55	20.48	20.44		
5	QPSK	12	13	20.50	20.38	20.52	20.43	20.51		
5	QPSK	25	0	20.48	20.31	20.47	20.38	20.37		
5	16QAM	1	0	20.44	20.53	20.60	20.46	20.47		
5	16QAM	1	12	20.67	20.60	20.69	20.61	20.68	21.3	0
5	16QAM	1	24	20.38	20.45	20.51	20.40	20.41		
5	16QAM	12	0	20.39	20.39	20.42	20.24	20.29		
5	16QAM	12	7	20.45	20.51	20.60	20.42	20.36		
5	16QAM	12	13	20.34	20.49	20.53	20.59	20.54		
5	16QAM	25	0	20.50	20.40	20.48	20.48	20.42		
5	64QAM	1	0	20.30	20.19	20.61	20.40	20.28		
5	64QAM	1	12	20.46	20.47	20.65	20.40	20.68	21.3	0
5	64QAM	1	24	20.63	20.38	20.62	20.46	20.38		
5	64QAM	12	0	19.36	19.16	19.54	19.40	19.16		
5	64QAM	12	7	19.27	19.43	19.45	19.34	19.54		
5	64QAM	12	13	19.20	19.27	19.43	19.40	19.49		
5	64QAM	25	0	19.29	19.54	19.40	19.53	19.41		

Band 41_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.92	19.71	19.99	19.65	19.94	20.5	0
20	QPSK	1	49	19.90	19.69	19.98	19.64	19.93		
20	QPSK	1	99	19.81	19.95	19.87	19.62	19.80		
20	QPSK	50	0	19.80	19.76	19.91	19.68	19.92		
20	QPSK	50	24	19.84	19.61	19.90	19.64	19.85		
20	QPSK	50	50	19.85	19.60	19.89	19.53	19.87		
20	QPSK	100	0	19.86	19.51	19.67	19.54	19.83		
20	16QAM	1	0	19.92	19.64	19.97	19.63	19.96		
20	16QAM	1	49	19.91	19.67	19.98	19.70	19.98	20.5	0
20	16QAM	1	99	19.88	19.69	19.95	19.60	19.93		
20	16QAM	50	0	19.78	19.57	19.84	19.58	19.90		
20	16QAM	50	24	19.87	19.68	19.93	19.58	19.90		
20	16QAM	50	50	19.97	19.54	19.91	19.63	19.84		
20	16QAM	100	0	19.93	19.67	19.93	19.69	19.98		
20	64QAM	1	0	19.97	19.57	19.92	19.54	19.95		
20	64QAM	1	49	19.89	19.59	19.98	19.74	19.97	20.5	0
20	64QAM	1	99	19.84	19.58	19.89	19.63	19.83		
20	64QAM	50	0	19.80	19.55	19.86	19.60	19.92		
20	64QAM	50	24	19.97	19.43	19.94	19.62	19.93		
20	64QAM	50	50	19.81	19.48	19.92	19.42	19.75		
20	64QAM	100	0	19.75	19.67	19.91	19.48	19.78		
Channel				39						



Band 41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.81	20.59	20.85	20.72	20.74	22.1	0
20	QPSK	1	49	20.79	20.51	20.84	20.67	20.73		
20	QPSK	1	99	20.69	20.53	20.76	20.68	20.71		
20	QPSK	50	0	20.75	20.68	20.81	20.56	20.80		
20	QPSK	50	24	20.61	20.59	20.71	20.55	20.60		
20	QPSK	50	50	20.57	20.67	20.71	20.55	20.56		
20	QPSK	100	0	20.65	20.62	20.75	20.61	20.65		
20	16QAM	1	0	20.75	20.73	20.81	20.64	20.77		
20	16QAM	1	49	20.78	20.78	20.72	20.62	20.81	22.1	0
20	16QAM	1	99	20.64	20.72	20.76	20.69	20.68		
20	16QAM	50	0	20.56	20.57	20.73	20.62	20.60		
20	16QAM	50	24	20.64	20.64	20.78	20.69	20.72		
20	16QAM	50	50	20.75	20.73	20.81	20.67	20.73		
20	16QAM	100	0	20.63	20.63	20.80	20.74	20.66		
20	64QAM	1	0	20.64	20.66	20.75	20.73	20.66		
20	64QAM	1	49	20.72	20.64	20.75	20.54	20.56	22.1	0
20	64QAM	1	99	20.57	20.66	20.70	20.50	20.66		
20	64QAM	50	0	20.55	20.43	20.71	20.57	20.43		
20	64QAM	50	24	20.78	20.58	20.81	20.72	20.81	21.6	0.5
20	64QAM	50	50	20.74	20.71	20.84	20.62	20.78		
20	64QAM	100	0	20.61	20.68	20.76	20.55	20.55		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.72	20.43	20.68	20.49	20.59	22.1	0
15	QPSK	1	37	20.66	20.47	20.74	20.54	20.64		
15	QPSK	1	74	20.55	20.45	20.69	20.51	20.62		
15	QPSK	36	0	20.69	20.51	20.65	20.46	20.70		
15	QPSK	36	20	20.55	20.42	20.62	20.51	20.52		
15	QPSK	36	39	20.51	20.54	20.63	20.44	20.46	22.1	0
15	QPSK	75	0	20.59	20.49	20.61	20.45	20.54		
15	16QAM	1	0	20.63	20.60	20.75	20.55	20.70		
15	16QAM	1	37	20.72	20.66	20.76	20.75	20.75	22.1	0
15	16QAM	1	74	20.55	20.63	20.70	20.55	20.59		
15	16QAM	36	0	20.41	20.42	20.69	20.44	20.49		
15	16QAM	36	20	20.57	20.56	20.65	20.63	20.62	22.1	0
15	16QAM	36	39	20.65	20.57	20.77	20.57	20.66		
15	16QAM	75	0	20.55	20.55	20.69	20.58	20.49		
15	64QAM	1	0	20.42	20.58	20.55	20.64	20.56		
15	64QAM	1	37	20.59	20.49	20.79	20.49	20.51	22.1	0
15	64QAM	1	74	20.56	20.60	20.59	20.42	20.65		
15	64QAM	36	0	20.33	20.43	20.43	20.42	20.35		
15	64QAM	36	20	20.74	20.49	20.61	20.59	20.79		
15	64QAM	36	39	20.62	20.46	20.56	20.21	20.53	21.6	0.5
15	64QAM	75	0	20.49	20.48	20.70	20.32	20.42		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.57	20.53	20.71	20.45	20.58	22.1	0
10	QPSK	1	25	20.60	20.42	20.67	20.54	20.58		
10	QPSK	1	49	20.61	20.40	20.67	20.55	20.64		
10	QPSK	25	0	20.65	20.59	20.72	20.40	20.71		
10	QPSK	25	12	20.50	20.45	20.63	20.49	20.71	22.1	0
10	QPSK	25	25	20.48	20.51	20.62	20.50	20.48		
10	QPSK	50	0	20.53	20.57	20.63	20.47	20.57		
10	16QAM	1	0	20.66	20.68	20.65	20.50	20.67		
10	16QAM	1	25	20.70	20.63	20.68	20.74	20.73	22.1	0
10	16QAM	1	49	20.60	20.66	20.63	20.61	20.52		
10	16QAM	25	0	20.44	20.44	20.59	20.35	20.48		
10	16QAM	25	12	20.48	20.49	20.64	20.61	20.67	22.1	0
10	16QAM	25	25	20.62	20.64	20.65	20.61	20.59		
10	16QAM	50	0	20.56	20.46	20.63	20.69	20.62		
10	64QAM	1	0	20.48	20.52	20.49	20.71	20.51		
10	64QAM	1	25	20.42	20.41	20.77	20.53	20.43	22.1	0
10	64QAM	1	49	20.44	20.51	20.73	20.50	20.53		
10	64QAM	25	0	20.30	20.22	20.65	20.61	20.39		
10	64QAM	25	12	20.61	20.31	20.72	20.60	20.67	21.6	0.5
10	64QAM	25	25	20.57	20.39	20.75	20.35	20.63		
10	64QAM	50	0	20.59	20.36	20.52	20.34	20.31		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.66	20.43	20.62	20.48	20.70	22.1	0
5	QPSK	1	12	20.68	20.44	20.72	20.52	20.67		
5	QPSK	1	24	20.59	20.41	20.63	20.58	20.62		
5	QPSK	12	0	20.69	20.60	20.68	20.52	20.73		
5	QPSK	12	7	20.52	20.47	20.62	20.45	20.43	22.1	0
5	QPSK	12	13	20.46	20.53	20.66	20.38	20.48		
5	QPSK	25	0	20.52	20.55	20.70	20.57	20.51		
5	16QAM	1	0	20.64	20.62	20.75	20.53	20.64		
5	16QAM	1	12	20.71	20.64	20.66	20.74	20.72	22.1	0
5	16QAM	1	24	20.50	20.66	20.60	20.56	20.60		
5	16QAM	12	0	20.51	20.48	20.65	20.53	20.44		
5	16QAM	12	7	20.59	20.48	20.67	20.53	20.56	22.1	0
5	16QAM	12	13	20.65	20.68	20.65	20.61	20.56		
5	16QAM	25	0	20.52	20.54	20.65	20.63	20.52		
5	64QAM	1	0	20.53	20.66	20.51	20.70	20.47	22.1	0
5	64QAM	1	12	20.65	20.65	20.76	20.53	20.50		
5	64QAM	1	24	20.59	20.54	20.72	20.55	20.55		
5	64QAM	12	0	20.30	20.11	20.54	20.36	20.46		
5	64QAM	12	7	20.75	20.53	20.59	20.49	20.66	21.6	0.5
5	64QAM	12	13	20.64	20.72	20.54	20.45	20.67		
5	64QAM	25	0	20.65	20.38	20.73	20.51	20.32		

Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.82	23.73	23.86	23.52	23.82	24.3	0
20	QPSK	1	49	23.80	23.67	23.83	23.48	23.59		
20	QPSK	1	99	23.81	23.70	23.69	23.32	23.13		
20	QPSK	50	0	23.73	23.74	23.62	23.80	23.79		
20	QPSK	50	24	22.86	22.53	22.66	22.54	22.54	23.3	1
20	QPSK	50	50	22.63	22.62	22.71	22.62	22.58		
20	QPSK	100	0	22.78	22.81	22.82	22.80	22.67		
20	16QAM	1	0	22.66	22.78	22.79	22.74	22.73		
20	16QAM	1	49	22.70	22.71	22.84	22.73	22.70	23.3	1
20	16QAM	1	99	22.75	22.65	22.80	22.66	22.76		
20	16QAM	50	0	21.63	21.58	21.64	21.50	21.57		
20	16QAM	50	24	21.63	21.62	21.74	21.65	21.68	22.3	2
20	16QAM	50	50	21.78	21.76	21.82	21.73	21.72		
20	16QAM	100	0	21.74	21.72	21.75	21.71	21.61		
20	64QAM	1	0	21.66	21.55	21.66	21.51	21.52		
20	64QAM	1	49	21.71	21.70	21.81	21.69	21.66	22.3	2
20	64QAM	1	99	21.62	21.66	21.67	21.64	21.64		
20	64QAM	50	0	20.53	20.34	20.62	20.47	20.52		
20	64QAM	50	24	20.64	20.73	20.75	20.74	20.81	21.3	3
20	64QAM	50	50	20.65	20.74	20.79	20.73	20.79		
20	64QAM	100								



Band 2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	12.55	12.65	12.55			
20	QPSK	1	49	12.54	12.64	12.52	13.5	0	
20	QPSK	1	99	12.51	12.55	12.53			
20	QPSK	50	0	12.44	12.52	12.52			
20	QPSK	50	24	12.53	12.59	12.46			
20	QPSK	50	50	12.52	12.56	12.41	13.5	0	
20	QPSK	100	0	12.41	12.50	12.38			
20	16QAM	1	0	12.62	12.57	12.44			
20	16QAM	1	49	12.47	12.58	12.43	13.5	0	
20	16QAM	1	99	12.45	12.52	12.39			
20	16QAM	50	0	12.44	12.52	12.52			
20	16QAM	50	24	12.53	12.48	12.50			
20	16QAM	50	50	12.58	12.54	12.39	13.5	0	
20	16QAM	100	0	12.53	12.55	12.49			
20	64QAM	1	0	12.45	12.57	12.54			
20	64QAM	1	49	12.46	12.54	12.49	13.5	0	
20	64QAM	1	99	12.47	12.56	12.52			
20	64QAM	50	0	12.38	12.49	12.37			
20	64QAM	50	24	12.53	12.58	12.63			
20	64QAM	50	50	12.58	12.54	12.56	13.5	0	
20	64QAM	100	0	12.40	12.51	12.52			
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	12.54	12.55	12.51			
15	QPSK	1	37	12.52	12.61	12.42	13.5	0	
15	QPSK	1	74	12.39	12.48	12.48			
15	QPSK	36	0	12.38	12.57	12.51			
15	QPSK	36	20	12.49	12.50	12.42			
15	QPSK	36	39	12.43	12.51	12.34	13.5	0	
15	QPSK	75	0	12.29	12.46	12.28			
15	16QAM	1	0	12.52	12.47	12.34			
15	16QAM	1	37	12.44	12.55	12.37	13.5	0	
15	16QAM	1	74	12.33	12.44	12.30			
15	16QAM	36	0	12.38	12.53	12.60			
15	16QAM	36	20	12.47	12.40	12.44			
15	16QAM	36	39	12.49	12.46	12.27	13.5	0	
15	16QAM	75	0	12.49	12.47	12.45			
15	64QAM	1	0	12.35	12.53	12.45			
15	64QAM	1	37	12.42	12.50	12.46	13.5	0	
15	64QAM	1	74	12.38	12.49	12.42			
15	64QAM	36	0	12.36	12.45	12.25			
15	64QAM	36	20	12.46	12.55	12.58			
15	64QAM	36	39	12.54	12.46	12.48	13.5	0	
15	64QAM	75	0	12.33	12.39	12.49			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	12.56	12.58	12.43			
10	QPSK	1	25	12.49	12.59	12.42	13.5	0	
10	QPSK	1	49	12.44	12.46	12.45			
10	QPSK	25	0	12.46	12.53	12.53			
10	QPSK	25	12	12.50	12.47	12.39	13.5	0	
10	QPSK	25	25	12.48	12.53	12.33			
10	QPSK	50	0	12.29	12.48	12.28			
10	16QAM	1	0	12.53	12.49	12.35			
10	16QAM	1	25	12.41	12.56	12.31	13.5	0	
10	16QAM	1	49	12.39	12.40	12.30			
10	16QAM	25	0	12.34	12.50	12.57			
10	16QAM	25	12	12.43	12.45	12.47	13.5	0	
10	16QAM	25	25	12.49	12.43	12.30			
10	16QAM	50	0	12.47	12.43	12.37			
10	64QAM	1	0	12.40	12.52	12.47			
10	64QAM	1	25	12.39	12.43	12.40	13.5	0	
10	64QAM	1	49	12.35	12.44	12.47			
10	64QAM	25	0	12.34	12.38	12.29			
10	64QAM	25	12	12.43	12.46	12.51			
10	64QAM	25	25	12.55	12.48	12.47	13.5	0	
10	64QAM	50	0	12.34	12.49	12.41			
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	12.42	12.61	12.47			
5	QPSK	1	12	12.45	12.58	12.42	13.5	0	
5	QPSK	1	24	12.45	12.44	12.42			
5	QPSK	12	0	12.52	12.61	12.58			
5	QPSK	12	7	12.44	12.48	12.38	13.5	0	
5	QPSK	12	13	12.41	12.45	12.39			
5	QPSK	25	0	12.30	12.48	12.33			
5	16QAM	1	0	12.59	12.52	12.36			
5	16QAM	1	12	12.41	12.46	12.36	13.5	0	
5	16QAM	1	24	12.40	12.45	12.29			
5	16QAM	12	0	12.40	12.50	12.59			
5	16QAM	12	7	12.42	12.38	12.38	13.5	0	
5	16QAM	12	13	12.52	12.52	12.27			
5	16QAM	25	0	12.43	12.48	12.40			
5	64QAM	1	0	12.41	12.51	12.51			
5	64QAM	1	12	12.40	12.46	12.46	13.5	0	
5	64QAM	1	24	12.35	12.51	12.48			
5	64QAM	12	0	12.36	12.47	12.35			
5	64QAM	12	7	12.45	12.58	12.54			
5	64QAM	12	13	12.52	12.42	12.53	13.5	0	
5	64QAM	25	0	12.37	12.40	12.50			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	12.46	12.57	12.45			
3	QPSK	1	8	12.45	12.56	12.49	13.5	0	
3	QPSK	1	14	12.41	12.49	12.43			
3	QPSK	8	0	12.45	12.55	12.54			
3	QPSK	8	4	12.51	12.50	12.43	13.5	0	
3	QPSK	8	7	12.50	12.48	12.34			
3	QPSK	15	0	12.30	12.44	12.34			
3	16QAM	1	0	12.54	12.45	12.37			
3	16QAM	1	8	12.44	12.56	12.33	13.5	0	
3	16QAM	1	14	12.41	12.41	12.35			
3	16QAM	8	0	12.32	12.56	12.60			
3	16QAM	8	4	12.51	12.46	12.45			
3	16QAM	8	7	12.53	12.50	12.37	13.5	0	
3	16QAM	15	0	12.41	12.51	12.38			
3	64QAM	1	0	12.38	12.46	12.51			
3	64QAM	1	8	12.35	12.43	12.45	13.5	0	
3	64QAM	1	14	12.36	12.54	12.44			
3	64QAM	8	0	12.32	12.39	12.25			
3	64QAM	8	4	12.48	12.52	12.53			
3	64QAM	8	7	12.50	12.45	12.52	13.5	0	
3	64QAM	15	0	12.33	12.42	12.48			
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	12.49	12.61	12.46			
1.4	QPSK	1	3	12.44	12.59	12.41			
1.4	QPSK	1	5	12.43	12.53	12.47	13.5	0	
1.4	QPSK	3	0	12.49	12.55	12.59			
1.4	QPSK	3	1	12.43	12.47	12.40			
1.4	QPSK	3	1	12.49	12.50	12.36	13.5	0	
1.4	QPSK	6	0	12.29	12.46	12.34			
1.4	16QAM	1	0	12.51	12.48	12.37			
1.4	16QAM	1	3	12.37	12.53	12.40			
1.4	16QAM	1	5	12.43	12.45	12.30	13.5	0	
1.4	16QAM	3	0	12.32	12.57	12.55			
1.4	16QAM	3	1	12.42	12.45	12.40			
1.4	16QAM	3	3	12.49	12.47	12.28	13.5	0	
1.4	16QAM	6	0	12.50	12.45	12.39			
1.4	64QAM	1	0	12.36	12.53	12.48			
1.4	64QAM	1	3	12.38	12.43	12.47			
1.4	64QAM	1	5	12.41	12.53	12.43	13.5	0	
1.4	64QAM	3	0	12.37	12.40	12.35			
1.4	64QAM	3	1	12.41	12.48	12.52			
1.4	64QAM	3	3	12.48	12.44	12.50	13.5	0	
1.4	64QAM	6	0	12.35	12.40	12.48			



Band 5_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	23.62	23.69	23.64					
10	QPSK	1	25	23.54	23.52	23.57	24.7	0			
10	QPSK	1	49	23.60	23.62	23.60					
10	QPSK	25	0	23.59	23.67	23.62					
10	QPSK	25	12	23.55	23.62	23.60					
10	QPSK	25	25	23.58	23.66	23.56	24.7	0			
10	QPSK	50	0	23.36	23.65	23.48					
10	QPSK	1	0	23.39	23.64	23.57					
10	16QAM	1	25	23.50	23.62	23.50	24.7	0			
10	16QAM	1	49	23.60	23.67	23.68					
10	16QAM	25	0	22.67	22.86	22.71					
10	16QAM	25	12	22.77	22.64	22.48	23.7	1			
10	16QAM	25	25	22.60	22.77	22.77					
10	16QAM	50	0	22.68	22.66	22.68					
10	16QAM	1	0	22.78	22.67	22.79					
10	64QAM	1	25	22.83	22.81	22.65	23.7	1			
10	64QAM	1	49	22.85	22.92	22.87					
10	64QAM	25	0	21.84	21.82	21.73					
10	64QAM	25	12	21.89	21.79	21.51					
10	64QAM	25	25	21.56	21.73	21.52	22.7	2			
10	64QAM	50	0	21.41	21.69	21.63					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	23.65	23.63	23.43					
5	QPSK	1	12	23.36	23.60	23.44	24.7	0			
5	QPSK	1	24	23.48	23.43	23.45					
5	QPSK	12	0	23.42	23.68	23.59					
5	QPSK	12	7	23.55	23.45	23.64	24.7	0			
5	QPSK	12	13	23.66	23.43	23.33					
5	QPSK	25	0	23.39	23.65	23.55					
5	16QAM	1	0	23.41	23.42	23.32					
5	16QAM	1	12	23.25	23.62	23.29	24.7	0			
5	16QAM	1	24	23.40	23.66	23.64					
5	16QAM	12	0	22.75	22.74	22.43					
5	16QAM	12	7	22.63	22.56	22.39					
5	16QAM	12	13	22.66	22.69	22.52	23.7	1			
5	16QAM	25	0	22.70	22.57	22.58					
5	64QAM	1	0	22.65	22.51	22.85					
5	64QAM	1	12	22.57	22.84	22.41	23.7	1			
5	64QAM	1	24	22.75	22.64	22.76					
5	64QAM	12	0	21.77	21.71	21.72					
5	64QAM	12	7	21.80	21.71	21.57					
5	64QAM	12	13	21.43	21.50	21.30	22.7	2			
5	64QAM	25	0	21.34	21.42	21.38					
Channel				20415	20525	20635					
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	23.36	23.62	23.66					
3	QPSK	1	8	23.58	23.32	23.48	24.7	0			
3	QPSK	1	14	23.67	23.49	23.37					
3	QPSK	8	0	23.56	23.67	23.66					
3	QPSK	8	4	23.59	23.44	23.35	24.7	0			
3	QPSK	8	7	23.61	23.38	23.54					
3	QPSK	15	0	23.38	23.49	23.56					
3	16QAM	1	0	23.28	23.55	23.29					
3	16QAM	1	8	23.45	23.60	23.54	24.7	0			
3	16QAM	1	14	23.61	23.42	23.43					
3	16QAM	8	0	22.73	22.64	22.54					
3	16QAM	8	4	22.57	22.50	22.45					
3	16QAM	8	7	22.59	22.83	22.74	23.7	1			
3	16QAM	15	0	22.61	22.44	22.43					
3	64QAM	1	0	22.63	22.74	22.83					
3	64QAM	1	8	22.85	22.88	22.66	23.7	1			
3	64QAM	1	14	22.93	22.99	22.89					
3	64QAM	8	0	21.37	21.85	21.58					
3	64QAM	8	4	21.85	21.69	21.38					
3	64QAM	8	7	21.52	21.64	21.49	22.7	2			
3	64QAM	15	0	21.41	21.69	21.39					
Channel				20407	20525	20643					
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	23.59	23.47	23.37					
1.4	QPSK	1	3	23.35	23.41	23.19					
1.4	QPSK	1	5	23.42	23.25	23.36	24.7	0			
1.4	QPSK	3	0	23.56	23.63	23.51					
1.4	QPSK	3	1	23.40	23.32	23.41					
1.4	QPSK	3	3	23.32	23.42	23.54					
1.4	QPSK	6	0	23.16	23.61	23.48	24.7	0			
1.4	16QAM	1	0	23.14	23.47	23.21					
1.4	16QAM	1	3	23.36	23.27	23.39					
1.4	16QAM	1	5	23.39	23.50	23.54					
1.4	16QAM	3	0	23.35	23.51	23.45	24.7	0			
1.4	16QAM	3	1	23.61	23.46	23.24					
1.4	16QAM	3	3	23.43	23.50	23.54					
1.4	16QAM	6	0	22.65	22.59	22.46	23.7	1			
1.4	64QAM	1	0	22.59	22.61	22.83					
1.4	64QAM	1	3	22.78	22.54	22.59					
1.4	64QAM	1	5	22.75	22.65	22.87	23.7	1			
1.4	64QAM	3	0	22.54	22.68	22.46					
1.4	64QAM	3	1	22.52	22.50	22.42					
1.4	64QAM	3	3	22.45	22.53	22.46					
1.4	64QAM	6	0	21.15	21.60	21.40	22.7	2			

Band 5_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	20.22	20.27	20.19					
10	QPSK	1	25	20.18	20.26	20.18	21.5	0			
10	QPSK	1	49	20.15	20.16	20.14					
10	QPSK	25	0	20.16	20.20	20.19					
10	QPSK	25	12	20.08	20.15	20.14					
10	QPSK	25	25	20.14	20.17	20.15	21.5	0			
10	QPSK	50	0	19.97	20.14	20.04					
10	16QAM	1	0	20.19	20.22	20.23					
10	16QAM	1	25	20.09	20.25	20.14	21.5	0			
10	16QAM	1	49	20.06	20.23	20.16					
10	16QAM	25	0	20.06	20.10	20.03					
10	16QAM	25	12	20.20	20.18	20.16					
10	16QAM	25	25	20.10	20.17	20.07	21.5	0			
10	16QAM	50	0	20.02	20.13	20.01					
10	64QAM	1	0	20.21	20.25	20.15					
10	64QAM	1	25	20.11	20.23	20.06	21.5	0			
10	64QAM	1	49	20.13	20.21	20.05					
10	64QAM	25	0	20.10	20.13	20.04					
10	64QAM	25	12	20.23	20.24	20.20					
10	64QAM	25	25	20.08	20.20	20.15	21.5	0			
10	64QAM	50	0	19.98	20.13	19.96					
Channel				20425	20525	20625					
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	20.07	20.24	20.17					
5	QPSK	1	12	20.16	20.17	20.06	21.5	0			
5	QPSK	1	24	20.13	20.07	20.06					
5	QPSK	12	0	20.09	20.16	20.15					
5	QPSK	12	7	19.96	20.08	20.05					
5	QPSK	12	13	20.04	20.05	20.07	21.5	0			
5	QPSK	25	0	19.95	20.02	19.93					
5	16QAM	1	0	20.13	20.15	20.11					
5	16QAM	1	12	20.06	20.16	20.06	21.5	0			
5	16QAM	1	24	19.98	20.21	20.13					
5	16QAM	12	0	19.96	20.06	19.96					
5	16QAM	12	7	20.14	20.06	20.16					
5	16QAM	12	13	20.00	20.10	20.00	21.5	0			



Band 7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.52	17.65	17.59	18.5	0	
20	QPSK	1	49	17.50	17.58	17.51			
20	QPSK	1	99	17.49	17.57	17.54			
20	QPSK	50	0	17.50	17.64	17.63			
20	QPSK	50	24	17.58	17.61	17.59			
20	QPSK	50	50	17.47	17.63	17.55	18.5	0	
20	QPSK	100	0	17.42	17.55	17.39			
20	16QAM	1	0	17.63	17.63	17.52			
20	16QAM	1	49	17.49	17.61	17.51	18.5	0	
20	16QAM	1	99	17.54	17.63	17.46			
20	16QAM	50	0	17.62	17.62	17.55			
20	16QAM	50	24	17.49	17.64	17.59			
20	16QAM	50	50	17.59	17.63	17.57	18.5	0	
20	16QAM	100	0	17.59	17.61	17.59			
20	84QAM	1	0	17.62	17.62	17.59			
20	84QAM	1	49	17.57	17.63	17.54	18.5	0	
20	84QAM	1	99	17.47	17.61	17.54			
20	84QAM	50	0	17.43	17.59	17.43			
20	84QAM	50	24	17.49	17.64	17.50	18.5	0	
20	84QAM	50	50	17.62	17.62	17.46			
20	84QAM	100	0	17.48	17.59	17.55			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.42	17.56	17.57	18.5	0	
15	QPSK	1	37	17.39	17.50	17.49			
15	QPSK	1	74	17.46	17.49	17.52			
15	QPSK	36	0	17.43	17.52	17.53			
15	QPSK	36	20	17.46	17.53	17.57	18.5	0	
15	QPSK	36	39	17.40	17.59	17.46			
15	QPSK	75	0	17.38	17.49	17.30			
15	16QAM	1	0	17.55	17.58	17.42			
15	16QAM	1	37	17.42	17.59	17.45	18.5	0	
15	16QAM	1	74	17.45	17.53	17.39			
15	16QAM	36	0	17.53	17.55	17.46			
15	16QAM	36	20	17.42	17.58	17.48	18.5	0	
15	16QAM	36	39	17.57	17.58	17.48			
15	16QAM	75	0	17.50	17.55	17.51			
15	84QAM	1	0	17.52	17.60	17.48			
15	84QAM	1	37	17.49	17.51	17.49	18.5	0	
15	84QAM	1	74	17.38	17.56	17.46			
15	84QAM	36	0	17.40	17.47	17.34			
15	84QAM	36	20	17.45	17.55	17.40	18.5	0	
15	84QAM	36	39	17.51	17.60	17.38			
15	84QAM	75	0	17.42	17.49	17.30			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.51	17.61	17.54	18.5	0	
10	QPSK	1	25	17.43	17.54	17.40			
10	QPSK	1	49	17.38	17.50	17.42			
10	QPSK	25	0	17.55	17.55	17.55			
10	QPSK	25	12	17.37	17.56	17.52	18.5	0	
10	QPSK	25	25	17.38	17.57	17.47			
10	QPSK	50	0	17.34	17.43	17.35			
10	16QAM	1	0	17.60	17.52	17.40			
10	16QAM	1	25	17.46	17.55	17.42	18.5	0	
10	16QAM	1	49	17.46	17.51	17.41			
10	16QAM	25	0	17.55	17.59	17.46			
10	16QAM	25	12	17.37	17.56	17.52	18.5	0	
10	16QAM	25	25	17.51	17.61	17.47			
10	16QAM	50	0	17.53	17.59	17.51			
10	84QAM	1	0	17.51	17.51	17.51			
10	84QAM	1	25	17.51	17.51	17.50	18.5	0	
10	84QAM	1	49	17.38	17.56	17.43			
10	84QAM	25	0	17.38	17.51	17.41			
10	84QAM	25	12	17.41	17.60	17.47	18.5	0	
10	84QAM	25	25	17.52	17.55	17.44			
10	84QAM	50	0	17.43	17.53	17.50			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.53	17.56	17.50	18.5	0	
5	QPSK	1	12	17.44	17.56	17.48			
5	QPSK	1	24	17.38	17.52	17.46			
5	QPSK	12	0	17.49	17.62	17.58			
5	QPSK	12	7	17.54	17.50	17.51	18.5	0	
5	QPSK	12	13	17.41	17.51	17.47			
5	QPSK	25	0	17.38	17.46	17.32			
5	16QAM	1	0	17.53	17.54	17.45			
5	16QAM	1	12	17.42	17.52	17.49	18.5	0	
5	16QAM	1	24	17.43	17.54	17.37			
5	16QAM	12	0	17.51	17.60	17.48			
5	16QAM	12	7	17.46	17.54	17.49	18.5	0	
5	16QAM	12	13	17.57	17.57	17.55			
5	16QAM	25	0	17.50	17.51	17.49			
5	84QAM	1	0	17.60	17.53	17.57			
5	84QAM	1	12	17.53	17.59	17.50	18.5	0	
5	84QAM	1	24	17.35	17.57	17.42			
5	84QAM	12	0	17.35	17.53	17.40			
5	84QAM	12	7	17.38	17.59	17.43	18.5	0	
5	84QAM	12	13	17.55	17.52	17.37			
5	84QAM	25	0	17.46	17.55	17.49			

Band 7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.96	17.11	16.93	18.5	0	
20	QPSK	1	49	16.92	17.06	16.92			
20	QPSK	1	99	16.93	16.97	16.90			
20	QPSK	50	0	17.07	17.09	17.01			
20	QPSK	50	24	16.94	17.02	16.94	18.5	0	
20	QPSK	50	50	16.98	17.04	16.89			
20	QPSK	100	0	16.96	17.10	16.95			
20	16QAM	1	0	16.98	17.08	17.05			
20	16QAM	1	49	17.04	17.07	17.05	18.5	0	
20	16QAM	1	99	17.05	17.05	17.04			
20	16QAM	50	0	17.07	17.06	16.93			
20	16QAM	50	24	16.97	17.02	16.90	18.5	0	
20	16QAM	50	50	16.91	17.00	16.94			
20	16QAM	100	0	16.94	17.04	17.05			
20	84QAM	1	0	17.05	17.08	16.94			
20	84QAM	1	49	17.09	17.10	17.02	18.5	0	
20	84QAM	1	99	17.10	17.09	16.95			
20	84QAM	50	0	17.07	17.05	17.03			
20	84QAM	50	24	17.09	17.06	17.00	18.5	0	
20	84QAM	50	50	17.02	17.04	16.94			
20	84QAM	100	0	17.09	17.05	17.05			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	16.82	16.99	16.82	18.5	0	
15	QPSK	1	37	16.80	16.95	16.85			
15	QPSK	1	74	16.89	16.91	16.84			
15	QPSK	36	0	16.98	17.02	16.99			
15	QPSK	36	20	16.85	16.96	16.87	18.5	0	
15	QPSK	36	39	16.93	16.96	16.83			
15	QPSK	75	0	16.81	16.98	16.87			
15	16QAM	1	0	16.96	17.04	16.96			
15	16QAM	1	37	16.92	17.02	17.02	18.5	0	
15	16QAM	1	74	16.97	16.93	16.97			
15	16QAM	36	0	17.03	16.96	16.90			
15	16QAM	36	20	16.94	16.90	16.81	18.5	0	
15	16QAM	36	39	16.80	16.98	16.89			
15	16QAM	75	0	16.91	17.02	16.96			
15	84QAM	1	0	16.95	17.02	16.92			
15	84QAM	1	37	17.03	17.01	16.92	18.5	0	
15	84QAM	1	74	17.04	16.99	16.90			
15	84QAM	36	0	16.96	16.96	16.95			
15	84QAM	36	20	16.99	16.95	16.95	18.5	0	
15	84QAM	36	39	16.99	17.00	16.92			



Band 12_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.45	24.51	24.45	25.5	0	
10	QPSK	1	49	24.40	24.41	24.43			
10	QPSK	25	0	23.33	23.35	23.45			
10	QPSK	25	12	23.33	23.37	23.33			
10	QPSK	25	25	23.31	23.42	23.37	24.5	1	
10	QPSK	50	0	23.42	23.50	23.37			
10	16QAM	1	0	23.52	23.60	23.54			
10	16QAM	1	25	23.37	23.50	23.46	24.5	1	
10	16QAM	1	49	23.52	23.61	23.47			
10	16QAM	25	0	22.46	22.55	22.44			
10	16QAM	25	12	22.41	22.41	22.28			
10	16QAM	25	25	22.41	22.43	22.31	23.5	2	
10	16QAM	50	0	22.40	22.49	22.42			
10	64QAM	1	0	22.35	22.48	22.34			
10	64QAM	1	25	22.52	22.56	22.55	23.5	2	
10	64QAM	1	49	22.40	22.41	22.41			
10	64QAM	25	0	21.51	21.56	21.43			
10	64QAM	25	12	21.29	21.42	21.29	22.5	3	
10	64QAM	25	25	21.30	21.40	21.40			
10	64QAM	50	0	21.31	21.46	21.34			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.28	24.47	24.29	25.5	0	
5	QPSK	1	12	24.14	24.27	24.46			
5	QPSK	1	24	24.05	24.34	24.34			
5	QPSK	12	0	23.16	23.25	23.38			
5	QPSK	12	7	23.10	23.20	23.38	24.5	1	
5	QPSK	12	13	23.22	23.28	23.43			
5	QPSK	25	0	23.35	23.24	23.34			
5	16QAM	1	0	23.26	23.43	23.35			
5	16QAM	1	12	23.09	23.35	23.23	24.5	1	
5	16QAM	1	24	23.31	23.39	23.49			
5	16QAM	12	0	22.44	22.38	22.29			
5	16QAM	12	7	22.19	22.45	22.36	23.5	2	
5	16QAM	12	13	22.40	22.50	22.18			
5	16QAM	25	0	22.36	22.27	22.17			
5	64QAM	1	0	22.28	22.23	22.33			
5	64QAM	1	12	22.25	22.45	22.62	23.5	2	
5	64QAM	1	24	22.35	22.31	22.41			
5	64QAM	12	0	21.38	21.43	21.29			
5	64QAM	12	7	21.37	21.35	21.08	22.5	3	
5	64QAM	12	13	21.30	21.25	21.39			
5	64QAM	25	0	21.39	21.41	21.33			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.48	24.48	24.40	25.5	0	
3	QPSK	1	8	24.38	24.42	24.49			
3	QPSK	1	14	24.36	24.19	24.17			
3	QPSK	8	0	23.21	23.30	23.29			
3	QPSK	8	4	23.11	23.28	23.07	24.5	1	
3	QPSK	8	7	23.09	23.15	23.41			
3	QPSK	15	0	23.35	23.24	23.24			
3	16QAM	1	0	23.42	23.50	23.51			
3	16QAM	1	8	23.25	23.56	23.54	24.5	1	
3	16QAM	1	14	23.50	23.53	23.42			
3	16QAM	8	0	22.23	22.33	22.36			
3	16QAM	8	4	22.19	22.30	22.19	23.5	2	
3	16QAM	8	7	22.28	22.46	22.28			
3	16QAM	15	0	22.41	22.24	22.40			
3	64QAM	1	0	22.15	22.34	22.09			
3	64QAM	1	8	22.35	22.58	22.48	23.5	2	
3	64QAM	1	14	22.31	22.15	22.47			
3	64QAM	8	0	21.51	21.41	21.22			
3	64QAM	8	4	21.27	21.35	21.30	22.5	3	
3	64QAM	8	7	21.31	21.44	21.23			
3	64QAM	15	0	21.04	21.50	21.28			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.45	24.47	24.45	25.5	0	
1.4	QPSK	1	3	24.34	24.44	24.32			
1.4	QPSK	1	5	24.30	24.22	24.30			
1.4	QPSK	3	0	24.32	24.32	24.10			
1.4	QPSK	3	1	24.14	24.24	24.16			
1.4	QPSK	3	3	24.04	24.13	24.30	24.5	1	
1.4	QPSK	6	0	23.26	23.43	23.23			
1.4	16QAM	1	0	23.38	23.51	23.36			
1.4	16QAM	1	3	23.44	23.54	23.41			
1.4	16QAM	1	5	23.58	23.55	23.19	24.5	1	
1.4	16QAM	3	0	23.29	23.37	23.09			
1.4	16QAM	3	1	23.32	23.35	23.22			
1.4	16QAM	3	3	23.11	23.41	23.18			
1.4	16QAM	6	0	22.19	22.49	22.39	23.5	2	
1.4	64QAM	1	0	22.19	22.50	22.40			
1.4	64QAM	1	3	22.47	22.43	22.30			
1.4	64QAM	1	5	22.21	22.19	22.24			
1.4	64QAM	3	0	22.46	22.46	22.06	23.5	2	
1.4	64QAM	3	1	22.05	22.30	22.25			
1.4	64QAM	3	3	22.24	22.29	22.19			
1.4	64QAM	6	0	21.05	21.20	21.08	22.5	3	

Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	22.29	22.30	22.29	23.5	0	
10	QPSK	1	25	22.15	22.29	22.23			
10	QPSK	1	49	22.22	22.27	22.15			
10	QPSK	25	0	22.21	22.28	22.21			
10	QPSK	25	12	22.17	22.25	22.23	23.5	0	
10	QPSK	25	25	22.19	22.27	22.25			
10	QPSK	50	0	22.27	22.26	22.23			
10	16QAM	1	0	22.19	22.28	22.20			
10	16QAM	1	25	22.20	22.27	22.17	23.5	0	
10	16QAM	1	49	22.18	22.24	22.27			
10	16QAM	25	0	21.77	21.76	21.78			
10	16QAM	25	12	21.72	21.76	21.62	23	0.5	
10	16QAM	25	25	21.63	21.79	21.66			
10	16QAM	50	0	21.59	21.76	21.65			
10	64QAM	1	0	21.74	21.77	21.73			
10	64QAM	1	25	21.70	21.87	21.71	23	0.5	
10	64QAM	1	49	21.76	21.78	21.65			
10	64QAM	25	0	20.74	20.76	20.60			
10	64QAM	25	12	20.59	20.75	20.65	22	1.5	
10	64QAM	25	25	20.78	20.78	20.64			
10	64QAM	50	0	20.65	20.77	20.69			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.15	22.25	22.26	23.5	0	
5	QPSK	1	12	22.09	22.27	22.17			
5	QPSK	1	24	22.17	22.17	22.06			
5	QPSK	12	0	22.17	22.16	22.23			
5	QPSK	12	7	22.14	22.19	22.17	23.5	0	
5	QPSK	12	13	22.07	22.21	22.20			
5	QPSK	25	0	22.23	22.26	22.14			
5	16QAM	1	0	22.13	22.19	22.13			
5	16QAM	1	12	22.17	22.25	22.14	23.5	0	
5	16QAM	1	24	22.09	22.19	22.17			
5	16QAM	12	0	21.70	21.69	21.70			
5	16QAM	12	7	21.68	21.74	21.52	23	0.5	
5	16QAM	12	13	21.59	21.72	21.59			
5	16QAM	25	0	21.58	21.73	21.59			
5	64QAM	1	0	21.62	21.65	21.65			
5	64QAM	1	12	21.60	21.84	21.68	23	0.5	
5	64QAM	1	24	21.74	21.72	21.63			
5	64QAM	12	0	20.68	20.65	20.58			
5	64QAM	12	7	20.47	20.64	20.55	22	1.5	
5	64QAM	12	13	20.68	20.73	20.53			
5	64QAM	25	0	20.59	20.72	20.65			
Channel				23025	23095	23165			



Band 66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	18.07	18.18	18.01	19.7	0	
20	QPSK	1	49	18.01	18.02	17.95			
20	QPSK	1	99	18.03	18.06	17.94			
20	QPSK	50	0	18.95	18.15		19.7	0	
20	QPSK	50	24	17.98	18.05	18.07			
20	QPSK	50	50	18.06	18.05	17.85	19.7	0	
20	QPSK	100	0	17.98	18.12	17.89			
20	16QAM	1	0	18.05	18.10	17.85	19.7	0	
20	16QAM	1	49	18.10	18.04	17.81			
20	16QAM	1	99	17.96	17.95	17.78	19.7	0	
20	16QAM	50	0	18.15	18.10	17.82	19.7	0	
20	16QAM	50	24	17.86	17.90	17.85			
20	16QAM	50	50	17.98	18.01	17.90	19.7	0	
20	16QAM	100	0	17.94	18.11	18.06			
20	64QAM	1	0	18.01	17.93	17.88	19.7	0	
20	64QAM	1	49	17.97	18.03	18.10			
20	64QAM	1	99	18.05	17.79	17.97	19.7	0	
20	64QAM	50	0	17.76	18.07	18.03	19.7	0	
20	64QAM	50	24	17.93	18.06	17.97			
20	64QAM	50	50	17.88	17.93	17.73	19.7	0	
20	64QAM	100	0	17.89	17.92	17.88			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	17.82	18.00	17.77	19.7	0	
15	QPSK	1	37	17.99	17.90	17.79			
15	QPSK	1	74	17.87	17.86	17.83	19.7	0	
15	QPSK	36	0	17.94	18.02	18.02	19.7	0	
15	QPSK	36	20	17.81	18.01	17.88			
15	QPSK	36	39	17.99	17.87	17.81	19.7	0	
15	QPSK	75	0	17.90	18.02	17.84			
15	16QAM	1	0	17.92	18.05	17.73	19.7	0	
15	16QAM	1	37	18.10	18.03	17.82			
15	16QAM	1	74	17.81	17.88	17.78	19.7	0	
15	16QAM	36	0	18.10	18.05	17.81	19.7	0	
15	16QAM	36	20	17.77	17.80	17.72			
15	16QAM	36	39	17.94	17.88	17.71	19.7	0	
15	16QAM	75	0	17.84	18.02	18.09			
15	64QAM	1	0	17.84	18.01	17.89	19.7	0	
15	64QAM	1	37	17.77	17.93	17.76			
15	64QAM	1	74	18.03	17.98	17.78	19.7	0	
15	64QAM	36	0	17.75	17.97	18.02	19.7	0	
15	64QAM	36	20	17.70	17.73	17.73			
15	64QAM	36	39	17.71	17.91	17.77	19.7	0	
15	64QAM	75	0	17.74	17.74	17.74			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	17.89	18.06	17.90	19.7	0	
10	QPSK	1	25	17.94	18.00	17.88			
10	QPSK	1	49	17.89	17.88	17.87	19.7	0	
10	QPSK	25	0	17.99	17.99	17.90	19.7	0	
10	QPSK	25	12	17.85	18.02	17.88			
10	QPSK	25	25	17.88	17.93	17.85	19.7	0	
10	QPSK	50	0	17.99	18.02	17.76			
10	16QAM	1	0	17.99	17.99	17.81	19.7	0	
10	16QAM	1	25	18.00	18.02	17.81			
10	16QAM	1	49	17.91	17.90	17.79	19.7	0	
10	16QAM	25	0	18.01	17.98	17.89	19.7	0	
10	16QAM	25	12	17.85	17.99	17.78			
10	16QAM	25	25	17.88	17.89	17.81	19.7	0	
10	16QAM	50	0	17.84	17.98	18.03			
10	64QAM	1	0	17.76	17.87	17.71	19.7	0	
10	64QAM	1	25	17.79	17.93	17.87			
10	64QAM	1	49	17.81	17.91	17.87	19.7	0	
10	64QAM	25	0	17.79	17.76	17.78	19.7	0	
10	64QAM	25	12	17.82	17.79	17.72			
10	64QAM	25	25	17.70	17.76	17.77	19.7	0	
10	64QAM	50	0	17.72	17.75	17.71			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	17.92	17.90	18.03	19.7	0	
5	QPSK	1	12	17.96	17.98	17.90			
5	QPSK	1	24	17.96	17.92	17.85	19.7	0	
5	QPSK	12	0	18.02	17.97	17.89	19.7	0	
5	QPSK	12	7	17.83	18.03	17.88			
5	QPSK	12	13	17.91	17.93	17.86	19.7	0	
5	QPSK	25	0	18.00	17.90	17.87			
5	16QAM	1	0	18.05	18.02	17.84	19.7	0	
5	16QAM	1	12	18.10	18.04	17.74			
5	16QAM	1	24	17.81	17.88	17.76	19.7	0	
5	16QAM	12	0	18.09	17.93	17.86	19.7	0	
5	16QAM	12	7	17.87	17.90	17.78			
5	16QAM	12	13	17.98	17.87	17.83	19.7	0	
5	16QAM	25	0	17.91	17.99	18.09			
5	64QAM	1	0	17.72	17.71	17.73	19.7	0	
5	64QAM	1	12	17.78	18.04	17.80			
5	64QAM	1	24	17.97	17.79	18.01	19.7	0	
5	64QAM	12	0	17.83	17.93	18.07	19.7	0	
5	64QAM	12	7	17.79	17.78	18.05			
5	64QAM	12	13	17.88	18.05	17.71	19.7	0	
5	64QAM	25	0	17.87	17.86	17.92			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	17.88	17.94	18.02	19.7	0	
3	QPSK	1	8	17.88	17.82	17.92			
3	QPSK	1	14	17.88	17.97	17.94	19.7	0	
3	QPSK	8	0	17.91	18.03	17.89	19.7	0	
3	QPSK	8	4	17.83	17.75	17.94			
3	QPSK	8	7	17.89	17.86	17.86	19.7	0	
3	QPSK	15	0	17.97	17.95	17.83			
3	16QAM	1	0	17.92	18.05	17.79	19.7	0	
3	16QAM	1	8	18.03	18.02	17.78			
3	16QAM	1	14	17.85	17.92	17.72	19.7	0	
3	16QAM	8	0	18.05	17.99	17.77	19.7	0	
3	16QAM	8	4	17.85	17.78	17.75			
3	16QAM	8	7	17.91	17.89	17.71	19.7	0	
3	16QAM	15	0	17.85	17.92	18.03			
3	64QAM	1	0	17.78	17.83	17.74	19.7	0	
3	64QAM	1	8	17.88	18.01	17.95			
3	64QAM	1	14	18.06	17.95	17.80	19.7	0	
3	64QAM	8	0	17.77	18.00	17.94	19.7	0	
3	64QAM	8	4	17.83	17.75	17.94			
3	64QAM	8	7	17.79	17.91	17.77	19.7	0	
3	64QAM	15	0	17.84	17.95	17.76			
Channel				131979	132322	132665			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	18.01	17.72	17.75	19.7	0	
1.4	QPSK	1	3	18.05	17.93	17.86			
1.4	QPSK	1	5	17.84	17.79	17.76	19.7	0	
1.4	QPSK	3	0	17.86	17.97	17.85			
1.4	QPSK	3	1	17.74	17.80	17.82	19.7	0	
1.4	QPSK	3	3	17.74	17.88	17.87			
1.4	QPSK	6	0	17.90	17.83	17.77	19.7	0	
1.4	16QAM	1	0	17.79	17.96	17.82			
1.4	16QAM	1	3	18.10	17.87	17.80	19.7	0	
1.4	16QAM	1	5	18.01	17.74	17.81			
1.4	16QAM	3	0	18.05	17.85	17.80	19.7	0	
1.4	16QAM	3	1	17.78	17.84	17.83			
1.4	16QAM	3	3	17.90	17.83	17.84	19.7	0	
1.4	16QAM	6	0	17.83	17.77	18.08			
1.4	64QAM	1	0	17.92	17.73	17.89	19.7	0	
1.4	64QAM	1	3	17.85	18.07	17.83			
1.4	64QAM	1	5	17.82	17.81	17.75	19.7	0	
1.4	64QAM	3	0	17.89	17.86	17.95			
1.4	64QAM	3	1	17.85	17.78	17.86	19.7	0	
1.4	64QAM	3	3	18.00	17.95				



Band 66_Ant 2										
BW (MHz)	Modulatio	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	19.81	19.84	19.72	20.7	0		
20	QPSK	1	99	19.81	19.73	19.70				
20	QPSK	50	0	19.86	19.95	19.83				
20	QPSK	50	24	19.68	19.81	19.68				
20	QPSK	50	50	19.79	19.90	19.81	20.7	0		
20	QPSK	100	0	19.89	19.91	19.87				
20	16QAM	1	0	19.75	19.84	19.71				
20	16QAM	1	49	19.84	19.86	19.85	20.7	0		
20	16QAM	1	99	19.82	19.83	19.71				
20	16QAM	50	0	19.74	19.87	19.87				
20	16QAM	50	24	19.68	19.79	19.75				
20	16QAM	50	50	19.79	19.81	19.76	20.7	0		
20	16QAM	100	0	19.68	19.80	19.76				
20	64QAM	1	0	19.55	19.83	19.74				
20	64QAM	1	49	19.92	19.88	19.82	20.7	0		
20	64QAM	1	99	19.77	19.83	19.82				
20	64QAM	50	0	19.86	19.87	19.82				
20	64QAM	50	24	19.59	19.75	19.77				
20	64QAM	50	50	19.84	19.78	19.50	20.7	0		
20	64QAM	100	0	19.85	19.85	19.87				
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	19.67	19.67	19.69	20.7	0		
15	QPSK	1	37	19.76	19.82	19.58				
15	QPSK	1	74	19.52	19.65	19.60				
15	QPSK	1	111	19.74	19.82	19.79				
15	QPSK	36	20	19.55	19.69	19.67	20.7	0		
15	QPSK	36	39	19.66	19.87	19.77				
15	QPSK	75	0	19.87	19.81	19.87				
15	16QAM	1	0	19.64	19.81	19.70				
15	16QAM	1	37	19.77	19.80	19.74	20.7	0		
15	16QAM	1	74	19.70	19.83	19.87				
15	16QAM	36	0	19.72	19.78	19.80				
15	16QAM	36	20	19.64	19.76	19.82	20.7	0		
15	16QAM	36	39	19.72	19.72	19.69				
15	16QAM	75	0	19.66	19.78	19.70				
15	64QAM	1	0	19.40	19.66	19.67				
15	64QAM	1	37	19.68	19.90	19.60	20.7	0		
15	64QAM	1	74	19.72	19.61	19.87				
15	64QAM	36	0	19.78	19.82	19.81				
15	64QAM	36	20	19.41	19.48	19.67	20.7	0		
15	64QAM	36	39	19.88	19.52	19.24				
15	64QAM	75	0	19.74	19.76	19.85				
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	19.70	19.87	19.51	20.7	0		
10	QPSK	1	25	19.68	19.79	19.59				
10	QPSK	1	49	19.57	19.65	19.62				
10	QPSK	25	0	19.76	19.81	19.80				
10	QPSK	25	12	19.67	19.75	19.62	20.7	0		
10	QPSK	25	25	19.71	19.81	19.73				
10	QPSK	50	0	19.77	19.87	19.76				
10	16QAM	1	0	19.64	19.84	19.83				
10	16QAM	1	25	19.75	19.76	19.76	20.7	0		
10	16QAM	1	49	19.69	19.78	19.66				
10	16QAM	25	0	19.74	19.84	19.77				
10	16QAM	25	12	19.64	19.77	19.66	20.7	0		
10	16QAM	25	25	19.78	19.72	19.67				
10	16QAM	50	0	19.55	19.80	19.72				
10	64QAM	1	0	19.51	19.66	19.50				
10	64QAM	1	25	19.71	19.84	19.72	20.7	0		
10	64QAM	1	49	19.56	19.87	19.65				
10	64QAM	25	0	19.87	19.85	19.89				
10	64QAM	25	12	19.63	19.69	19.84	20.7	0		
10	64QAM	25	25	19.76	19.74	19.23				
10	64QAM	50	0	19.70	19.88	19.74				
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	19.89	19.74	19.83	20.7	0		
5	QPSK	1	12	19.67	19.74	19.67				
5	QPSK	1	24	19.49	19.64	19.69				
5	QPSK	12	0	19.71	19.88	19.85				
5	QPSK	12	7	19.55	19.71	19.57	20.7	0		
5	QPSK	12	13	19.67	19.82	19.78				
5	QPSK	25	0	19.78	19.79	19.80				
5	16QAM	1	0	19.72	19.72	19.61				
5	16QAM	1	12	19.84	19.74	19.83	20.7	0		
5	16QAM	1	24	19.79	19.77	19.66				
5	16QAM	12	0	19.67	19.80	19.75				
5	16QAM	12	7	19.62	19.75	19.63	20.7	0		
5	16QAM	12	13	19.76	19.68	19.70				
5	16QAM	25	0	19.62	19.78	19.66				
5	64QAM	1	0	19.29	19.70	19.66				
5	64QAM	1	12	19.88	19.61	19.64	20.7	0		
5	64QAM	1	24	19.75	19.63	19.71				
5	64QAM	12	0	19.91	19.70	19.81				
5	64QAM	12	7	19.42	19.69	19.59	20.7	0		
5	64QAM	12	13	19.72	19.61	19.28				
5	64QAM	25	0	19.72	19.92	19.78				
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	19.90	19.69	19.63	20.7	0		
3	QPSK	1	8	19.63	19.73	19.62				
3	QPSK	1	14	19.58	19.69	19.64				
3	QPSK	8	0	19.71	19.86	19.81				
3	QPSK	8	4	19.62	19.79	19.64	20.7	0		
3	QPSK	8	7	19.68	19.87	19.69				
3	QPSK	15	0	19.76	19.90	19.79				
3	16QAM	1	0	19.84	19.75	19.71				
3	16QAM	1	8	19.74	19.83	19.78	20.7	0		
3	16QAM	1	14	19.70	19.73	19.58				
3	16QAM	8	0	19.74	19.75	19.82				
3	16QAM	8	4	19.56	19.79	19.73	20.7	0		
3	16QAM	8	7	19.66	19.75	19.73				
3	16QAM	15	0	19.65	19.75	19.64				
3	64QAM	1	0	19.53	19.88	19.61				
3	64QAM	1	8	19.64	19.81	19.54	20.7	0		
3	64QAM	1	14	19.59	19.89	19.80				
3	64QAM	8	0	19.75	19.80	19.65				
3	64QAM	8	4	19.53	19.66	19.59	20.7	0		
3	64QAM	8	7	19.90	19.69	19.28				
3	64QAM	15	0	19.80	19.85	19.73				
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	19.78	19.68	19.75	20.7	0		
1.4	QPSK	1	3	19.70	19.75	19.65				
1.4	QPSK	1	5	19.57	19.63	19.65				
1.4	QPSK	3	0	19.68	19.81	19.85				
1.4	QPSK	3	1	19.59	19.81	19.36	20.7	0		
1.4	QPSK	3	3	19.72	19.83	19.79				
1.4	QPSK	6	0	19.80	19.87	19.76				
1.4	16QAM	1	0	19.68	19.71	19.68				
1.4	16QAM	1	3	19.75	19.82	19.81				
1.4	16QAM	1	5	19.74	19.82	19.69	20.7	0		
1.4	16QAM	3	0	19.62	19.81	19.82				
1.4	16QAM	3	1	19.66	19.76	19.74				
1.4	16QAM	3	3	19.72	19.70	19.75				
1.4	16QAM	6	0	19.80	19.73	19.69	20.7	0		
1.4	64QAM	1	0	19.32	19.83	19.77				
1.4	64QAM	1	3	19.86	19.66	19.55				
1.4	64QAM	1	5	19.64	19.91	19.71				
1.4	64QAM	3	0	19.69	19.61	19.92	20.7	0		



Band 38_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.40	19.54	19.46				
20	QPSK	1	49	19.23	19.32	19.06	20.7	0		
20	QPSK	1	99	19.29	19.10	19.08				
20	QPSK	50	0	19.44	19.51	19.38				
20	QPSK	50	24	19.35	19.41	19.25				
20	QPSK	50	50	19.38	19.43	19.26	20.7	0		
20	QPSK	100	0	19.41	19.46	19.41				
20	16QAM	1	0	19.29	19.42	19.39				
20	16QAM	1	49	19.44	19.48	19.46	20.7	0		
20	16QAM	1	99	19.22	19.39	19.26				
20	16QAM	50	0	19.43	19.51	19.45				
20	16QAM	50	24	19.50	19.44	19.26	20.7	0		
20	16QAM	50	50	19.50	19.43	19.48				
20	16QAM	100	0	19.45	19.50	19.41				
20	64QAM	1	0	19.41	19.25	19.35				
20	64QAM	1	49	19.52	19.22	19.20	20.7	0		
20	64QAM	1	99	19.21	19.13	19.46				
20	64QAM	50	0	19.43	19.51	19.21				
20	64QAM	50	24	19.30	19.33	19.54	20.7	0		
20	64QAM	50	50	19.27	19.21	19.47				
20	64QAM	100	0	19.26	19.37	19.20				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.26	19.29	19.16				
15	QPSK	1	37	19.26	19.15	18.99	20.7	0		
15	QPSK	1	74	19.23	19.05	19.04				
15	QPSK	36	0	19.30	19.44	19.28				
15	QPSK	36	20	19.26	19.33	19.18	20.7	0		
15	QPSK	36	39	19.27	19.33	19.25				
15	QPSK	75	0	19.34	19.32	19.27				
15	16QAM	1	0	19.23	19.32	19.34				
15	16QAM	1	37	19.32	19.33	19.39	20.7	0		
15	16QAM	1	74	19.25	19.29	19.15				
15	16QAM	36	0	19.36	19.36	19.32				
15	16QAM	36	20	19.41	19.32	19.26	20.7	0		
15	16QAM	36	39	19.44	19.35	19.44				
15	16QAM	75	0	19.42	19.37	19.41				
15	64QAM	1	0	19.16	19.48	19.32				
15	64QAM	1	37	19.43	19.15	19.28	20.7	0		
15	64QAM	1	74	19.23	19.17	19.23				
15	64QAM	36	0	19.14	19.46	19.21				
15	64QAM	36	20	19.26	19.10	19.45	20.7	0		
15	64QAM	36	39	18.89	19.31	19.21				
15	64QAM	75	0	18.93	19.35	19.00				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.31	19.31	19.15				
10	QPSK	1	25	19.08	19.17	18.98	20.7	0		
10	QPSK	1	49	19.25	19.99	19.09				
10	QPSK	25	0	19.29	19.38	19.26				
10	QPSK	25	12	19.23	19.21	19.22	20.7	0		
10	QPSK	25	25	19.19	19.44	19.28				
10	QPSK	50	0	19.28	19.28	19.31				
10	16QAM	1	0	19.12	19.30	19.23				
10	16QAM	1	25	19.33	19.33	19.27	20.7	0		
10	16QAM	1	49	19.20	19.32	19.15				
10	16QAM	25	0	19.47	19.45	19.34				
10	16QAM	25	12	19.46	19.33	19.27	20.7	0		
10	16QAM	25	25	19.44	19.40	19.35				
10	16QAM	50	0	19.42	19.31	19.30				
10	64QAM	1	0	19.36	19.43	19.26				
10	64QAM	1	25	19.18	19.20	19.17	20.7	0		
10	64QAM	1	49	19.27	19.11	19.39				
10	64QAM	25	0	19.29	19.40	19.18				
10	64QAM	25	12	19.09	19.05	19.42	20.7	0		
10	64QAM	25	25	19.02	19.36	19.11				
10	64QAM	50	0	19.13	19.28	19.31				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.24	19.32	19.19				
5	QPSK	1	12	19.18	19.23	18.93	20.7	0		
5	QPSK	1	24	19.22	19.00	19.05				
5	QPSK	12	0	19.26	19.37	19.24				
5	QPSK	12	7	19.30	19.32	19.10	20.7	0		
5	QPSK	12	13	19.16	19.38	19.13				
5	QPSK	25	0	19.32	19.36	19.34				
5	16QAM	1	0	19.21	19.38	19.28				
5	16QAM	1	12	19.32	19.31	19.29	20.7	0		
5	16QAM	1	24	19.25	19.24	19.28				
5	16QAM	12	0	19.35	19.41	19.30				
5	16QAM	12	7	19.35	19.33	19.21	20.7	0		
5	16QAM	12	13	19.36	19.37	19.33				
5	16QAM	25	0	19.45	19.38	19.40				
5	64QAM	1	0	19.41	19.42	19.09				
5	64QAM	1	12	19.19	19.25	19.09	20.7	0		
5	64QAM	1	24	19.24	19.38	19.38				
5	64QAM	12	0	19.34	19.34	18.93				
5	64QAM	12	7	19.01	19.22	19.42	20.7	0		
5	64QAM	12	13	19.05	19.14	19.34				
5	64QAM	25	0	18.86	19.26	19.19				

Band 38_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	17.85	17.80	17.67			18.5	0
20	QPSK	1	49	17.64	17.66	17.54				
20	QPSK	1	99	17.63	17.73	17.60				
20	QPSK	50	0	17.63	17.73	17.60				
20	QPSK	50	24	17.60	17.75	17.64			18.5	0
20	QPSK	50	50	17.58	17.74	17.67				
20	QPSK	100	0	17.56	17.73	17.65				
20	16QAM	1	0	17.73	17.75	17.73				
20	16QAM	1	49	17.68	17.75	17.65			18.5	0
20	16QAM	1	99	17.76	17.80	17.74				
20	16QAM	50	0	17.63	17.59	17.58				
20	16QAM	50	24	17.72	17.76	17.68			18.5	0
20	16QAM	50	50	17.59	17.63	17.52				
20	16QAM	100	0	17.64	17.67	17.64				
20	64QAM	1	0	17.67	17.78	17.67				
20	64QAM	1	49	17.62	17.70	17.67			18.5	0
20	64QAM	1	99	17.53	17.64	17.60				
20	64QAM	50	0	17.61	17.73	17.70				
20	64QAM	50	24	17.71	17.76	17.68			18.5	0
20	64QAM	50	50	17.75	17.80	17.70				
20	64QAM	100	0	17.64	17.71	17.60				
Channel				37825	38000	38175			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	17.80	17.73	17.59				
15	QPSK	1	37	17.55	17.60	17.43			18.5	0
15	QPSK	1	74	17.54	17.66	17.57				
15	QPSK	36	0	17.51	17.74	17.59				
15	QPSK	36	20	17.52	17.68	17.57			18.5	0
15	QPSK	36	39	17.47	17.66	17.56				
15	QPSK	75	0	17.54	17.62	17.62				
15	16QAM	1	0	17.71	17.64	17.63				
15	16QAM	1	37	17.61	17.70	17.61			18.5	0
15	16QAM	1	74	17.71	17.68	17.67				
15	16QAM	36	0	17.53	17.69	17.52				
15	16QAM	36	20	17.63	17.70	17.66			18.5	0
15	16QAM	36	39	17.51	17.56	17.40				
15	16QAM	75	0	17.61	17.60	17.54				
15	64QAM	1	0	17.60	17.66	17.65				
15	64QAM	1	37	17.50	17.63	17.60			18.5	0
15	64QAM	1	74	17.41	17.55	17.55				
15	64QAM	36	0	17.53	17.69	17.60				
15	64QAM	36	20	17.59	17.73	17.60			18.5	0
15	64QAM	36	39	17.72	17.74	17.60				
15	64QAM	75	0	17.53	17.61	17.51				
Channel				37800	38000	38200			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	17.52	17.76	17.65				
10	QPSK	1	25	17.54	17.61	17.50			18.5	0
10	QPSK	1	49	17.59	17.66	17.52				
10	QPSK	25	0	17.54	17.72	17.62				
10	QPSK	25	12	17.49	17.73	17.61			18.5	0
10	QPSK	25	25	17.47	17.64	17.55				
10	QPSK	50	0	17.52	17.61	17.59				
10	16QAM	1	0	17.69	17.63	17.68				
10	16QAM	1	25	17.65	17					



Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	15.98	16.10	16.03	17.2	0		
20	QPSK	1	99	15.93	16.02	15.99				
20	QPSK	50	0	15.79	15.85	15.77				
20	QPSK	50	0	15.95	16.08	15.91				
20	QPSK	50	24	15.86	15.99	15.84				
20	QPSK	50	50	15.82	15.92	15.81	17.2	0		
20	QPSK	100	0	16.01	16.05	16.02				
20	16QAM	1	0	15.84	15.93	15.85				
20	16QAM	1	49	15.98	16.03	15.91	17.2	0		
20	16QAM	1	99	15.90	15.93	15.88				
20	16QAM	50	0	15.76	15.87	15.79				
20	16QAM	50	24	15.89	15.96	15.94				
20	16QAM	50	50	15.85	15.89	15.85	17.2	0		
20	16QAM	100	0	15.81	15.93	15.89				
20	64QAM	1	0	15.87	15.92	15.88				
20	64QAM	1	49	15.97	16.06	15.97	17.2	0		
20	64QAM	1	99	15.85	15.92	15.90				
20	64QAM	50	0	15.72	15.84	15.79				
20	64QAM	50	24	15.86	15.93	15.81	17.2	0		
20	64QAM	50	50	15.90	15.92	15.81				
20	64QAM	100	0	15.79	15.88	15.79				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	15.85	16.05	15.93	17.2	0		
15	QPSK	1	37	15.86	15.98	15.90				
15	QPSK	1	74	15.87	15.78	15.88				
15	QPSK	36	0	15.83	16.02	15.89				
15	QPSK	36	20	15.80	15.87	15.77	17.2	0		
15	QPSK	36	39	15.78	15.83	15.79				
15	QPSK	75	0	15.98	15.95	16.00				
15	16QAM	1	0	15.77	15.90	15.76				
15	16QAM	1	37	15.96	15.92	15.79	17.2	0		
15	16QAM	1	74	15.86	15.91	15.77				
15	16QAM	36	0	15.84	15.81	15.72				
15	16QAM	36	20	15.80	15.84	15.82	17.2	0		
15	16QAM	36	39	15.75	15.84	15.74				
15	16QAM	75	0	15.73	15.84	15.85				
15	64QAM	1	0	15.76	15.86	15.84				
15	64QAM	1	37	15.90	15.97	15.91	17.2	0		
15	64QAM	1	74	15.76	15.90	15.87				
15	64QAM	36	0	15.70	15.77	15.74				
15	64QAM	36	20	15.81	15.89	15.75	17.2	0		
15	64QAM	36	39	15.86	15.90	15.79				
15	64QAM	75	0	15.76	15.81	15.72				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	15.95	16.07	15.95	17.2	0		
10	QPSK	1	25	15.81	16.00	15.88				
10	QPSK	1	49	15.69	15.83	15.68				
10	QPSK	12	0	15.90	16.02	15.84				
10	QPSK	25	12	15.84	15.94	15.80	17.2	0		
10	QPSK	25	25	15.76	15.85	15.75				
10	QPSK	50	0	15.86	16.03	15.81				
10	16QAM	1	0	15.77	15.86	15.80				
10	16QAM	1	25	15.86	15.91	15.80	17.2	0		
10	16QAM	1	49	15.79	15.88	15.76				
10	16QAM	25	0	15.86	15.78	15.70				
10	16QAM	25	12	15.88	15.88	15.82	17.2	0		
10	16QAM	25	25	15.74	15.86	15.80				
10	16QAM	50	0	15.77	15.84	15.79				
10	64QAM	1	0	15.83	15.89	15.85				
10	64QAM	1	25	15.86	16.00	15.94	17.2	0		
10	64QAM	1	49	15.74	15.86	15.85				
10	64QAM	25	0	15.87	15.72	15.71				
10	64QAM	25	12	15.78	15.87	15.74	17.2	0		
10	64QAM	25	25	15.86	15.88	15.79				
10	64QAM	50	0	15.72	15.83	15.73				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	15.95	16.06	15.99	17.2	0		
5	QPSK	1	12	15.86	15.95	15.94				
5	QPSK	1	24	15.73	15.77	15.70				
5	QPSK	12	0	15.88	16.01	15.84				
5	QPSK	12	7	15.84	15.90	15.79	17.2	0		
5	QPSK	12	13	15.74	15.83	15.79				
5	QPSK	25	0	15.92	15.97	15.92				
5	16QAM	1	0	15.73	15.86	15.75				
5	16QAM	1	12	15.92	15.96	15.87	17.2	0		
5	16QAM	1	24	15.84	15.89	15.83				
5	16QAM	12	0	15.89	15.77	15.75				
5	16QAM	12	7	15.87	15.85	15.82	17.2	0		
5	16QAM	12	13	15.73	15.81	15.80				
5	16QAM	25	0	15.79	15.89	15.82				
5	64QAM	1	0	15.83	15.80	15.85				
5	64QAM	1	12	15.87	16.04	15.89	17.2	0		
5	64QAM	1	24	15.77	15.85	15.79				
5	64QAM	12	0	15.84	15.80	15.75				
5	64QAM	12	7	15.83	15.85	15.70	17.2	0		
5	64QAM	12	13	15.86	15.87	15.77				
5	64QAM	25	0	15.72	15.85	15.77				

Band 38_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	20.67	20.74	20.62	21.8	0		
20	QPSK	1	49	20.44	20.48	20.31				
20	QPSK	1	99	20.44	20.34	20.29				
20	QPSK	50	0	20.57	20.71	20.44				
20	QPSK	50	24	20.33	20.63	20.39	21.8	0		
20	QPSK	50	50	20.36	20.55	20.36				
20	QPSK	100	0	20.59	20.66	20.45				
20	16QAM	1	0	20.42	20.47	20.37				
20	16QAM	1	49	20.48	20.67	20.61	21.8	0		
20	16QAM	1	99	20.54	20.46	20.32				
20	16QAM	50	0	20.26	20.40	20.24				
20	16QAM	50	24	20.32	20.40	20.40	21.8	0		
20	16QAM	50	50	20.56	20.50	20.36				
20	16QAM	100	0	20.31	20.57	20.37				
20	64QAM	1	0	20.65	20.41	20.64				
20	64QAM	1	49	20.46	20.54	20.56	21.8	0		
20	64QAM	1	99	20.54	20.35	20.61				
20	64QAM	50	0	20.14	20.60	20.29				
20	64QAM	50	24	20.24	20.52	20.19	20.8	1		
20	64QAM	50	50	20.41	20.35	20.28				
20	64QAM	100	0	20.46	20.54	20.08				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	20.49	20.38	20.31	21.8	0		
15	QPSK	1	37	20.27	20.30	20.22				
15	QPSK	1	74	20.35	20.26	20.06				
15	QPSK	36	0	20.32	20.52	20.35				
15	QPSK	36	20	20.20	20.45	20.22	21.8	0		
15	QPSK	36	39	20.13	20.31	20.15				
15	QPSK	75	0	20.42	20.47	20.29				
15	16QAM	1	0	20.23	20.27	20.29				
15	16QAM	1	37	20.30	20.50	20.42	21.8	0		
15	16QAM	1	74	20.40	20.36	20.23				
15	16QAM	36	0	20.26	20.41	20.03				
15	16QAM	36	20	20.16	20.24	20.34	21.8	0		
15	16QAM	36	39	20.37	20.33	20.26				
15	16QAM	75	0	20.15	20.33	20.13				
15	64QAM	1	0	20.35	20.39	20.41				
15	64QAM	1	37	20.						



Band 41_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	20.66	20.50	20.70	20.58	20.63	21.3	0	
20	QPSK	1	49	20.55	20.40	20.44	20.53	20.29			
20	QPSK	1	99	20.50	20.40	20.45	20.52	20.38			
20	QPSK	50	0	20.43	20.36	20.42	20.31	20.28			
20	QPSK	50	24	20.53	20.54	20.59	20.51	20.50			
20	QPSK	50	50	20.56	20.51	20.61	20.50	20.53			
20	QPSK	100	0	20.53	20.41	20.65	20.55	20.58			
20	16QAM	1	0	20.43	20.50	20.55	20.47	20.44			
20	16QAM	1	49	20.63	20.66	20.69	20.52	20.64	21.3	0	
20	16QAM	1	99	20.35	20.45	20.45	20.44	20.43			
20	16QAM	50	0	20.43	20.36	20.42	20.31	20.28			
20	16QAM	50	24	20.50	20.42	20.47	20.45	20.37			
20	16QAM	50	50	20.42	20.54	20.57	20.51	20.53			
20	16QAM	100	0	20.42	20.42	20.50	20.42	20.44			
20	64QAM	1	0	20.37	20.21	20.30	20.46	20.30			
20	64QAM	1	49	20.63	20.44	20.62	20.61	20.45			
20	64QAM	1	99	20.39	20.62	20.45	20.37	20.58			
20	64QAM	50	0	19.14	19.19	19.22	19.49	19.20			
20	64QAM	50	24	19.42	19.22	19.37	19.59	19.43			
20	64QAM	50	50	19.33	19.31	19.52	19.44	19.43			
20	64QAM	100	0	19.19	19.28	19.37	19.28	19.48			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	20.42	20.46	20.46	20.04	20.12	21.3	0	
15	QPSK	1	37	20.42	20.30	20.34	19.98	20.29			
15	QPSK	1	74	20.45	20.32	20.26	20.11	19.99			
15	QPSK	36	0	20.54	20.45	20.60	20.49	20.61			
15	QPSK	36	20	20.40	20.45	20.56	20.44	20.43			
15	QPSK	36	39	20.47	20.43	20.51	20.49	20.40			
15	QPSK	75	0	20.51	20.39	20.51	20.41	20.48			
15	16QAM	1	0	20.42	20.48	20.54	20.48	20.50			
15	16QAM	1	37	20.63	20.56	20.60	20.57	20.62	21.3	0	
15	16QAM	1	74	20.40	20.46	20.45	20.53	20.40			
15	16QAM	36	0	20.49	20.45	20.45	20.25	20.28			
15	16QAM	36	20	20.54	20.48	20.55	20.38	20.47			
15	16QAM	36	39	20.40	20.47	20.50	20.57	20.61			
15	16QAM	75	0	20.49	20.33	20.42	20.41	20.48			
15	64QAM	1	0	20.43	20.18	20.60	20.24	20.29			
15	64QAM	1	37	20.66	20.65	20.54	20.44	20.51			
15	64QAM	1	74	20.54	20.58	20.57	20.29	20.61			
15	64QAM	36	0	19.44	19.16	19.52	19.36	19.23			
15	64QAM	36	20	19.36	19.34	19.28	19.59	19.52			
15	64QAM	36	39	19.39	19.20	19.36	19.29	19.54			
15	64QAM	75	0	19.18	19.50	19.56	19.25	19.20			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	20.25	20.48	20.31	20.25	20.37	21.3	0	
10	QPSK	1	25	20.44	20.19	20.35	20.06	20.21			
10	QPSK	1	49	20.39	20.37	20.30	20.05	20.62			
10	QPSK	25	0	20.53	20.43	20.54	20.56	20.52			
10	QPSK	25	12	20.51	20.38	20.50	20.45	20.41			
10	QPSK	25	25	20.49	20.41	20.51	20.44	20.42			
10	QPSK	50	0	20.47	20.43	20.51	20.45	20.45			
10	16QAM	1	0	20.41	20.54	20.52	20.43	20.43			
10	16QAM	1	25	20.64	20.66	20.70	20.59	20.65	21.3	0	
10	16QAM	1	49	20.27	20.45	20.44	20.42	20.49			
10	16QAM	25	0	20.44	20.33	20.49	20.25	20.30			
10	16QAM	25	12	20.54	20.48	20.52	20.44	20.34			
10	16QAM	25	25	20.45	20.59	20.57	20.54	20.54			
10	16QAM	50	0	20.51	20.41	20.45	20.49	20.39			
10	64QAM	1	0	20.39	20.20	20.57	20.25	20.30			
10	64QAM	1	25	20.43	20.53	20.56	20.57	20.47			
10	64QAM	1	49	20.41	20.39	20.59	20.63	20.36			
10	64QAM	25	0	19.41	19.26	19.46	19.44	19.09			
10	64QAM	25	12	19.26	19.27	19.54	19.35	19.42			
10	64QAM	25	25	19.27	19.34	19.28	19.36	19.45			
10	64QAM	50	0	19.35	19.57	19.60	19.53	19.44			
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	20.31	20.20	20.47	20.00	20.46	21.3	0	
5	QPSK	1	12	20.39	20.29	20.44	20.06	20.24			
5	QPSK	1	24	20.38	20.30	20.27	19.96	20.03			
5	QPSK	12	0	20.49	20.51	20.58	20.53	20.52			
5	QPSK	12	7	20.47	20.38	20.55	20.48	20.44			
5	QPSK	12	13	20.50	20.38	20.52	20.43	20.51			
5	QPSK	25	0	20.48	20.31	20.47	20.38	20.37			
5	16QAM	1	0	20.44	20.53	20.60	20.46	20.47			
5	16QAM	1	12	20.67	20.60	20.69	20.61	20.68	21.3	0	
5	16QAM	1	24	20.38	20.45	20.51	20.40	20.41			
5	16QAM	12	0	20.39	20.39	20.42	20.24	20.29			
5	16QAM	12	7	20.45	20.51	20.60	20.42	20.38			
5	16QAM	12	13	20.34	20.49	20.53	20.59	20.54			
5	16QAM	25	0	20.50	20.40	20.48	20.48	20.42			
5	64QAM	1	0	20.30	20.19	20.61	20.40	20.28			
5	64QAM	1	12	20.46	20.47	20.65	20.40	20.68			
5	64QAM	1	24	20.63	20.38	20.62	20.46	20.38			
5	64QAM	12	0	19.36	19.16	19.54	19.40	19.16			
5	64QAM	12	7	19.27	19.43	19.45	19.34	19.54			
5	64QAM	12	13	19.20	19.27	19.43	19.40	19.49			
5	64QAM	25	0	19.29	19.54	19.40	19.53	19.41			

Band 41_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	17.85	17.81	17.92	17.87	17.82	18.5	0	
20	QPSK	1	49	17.84	17.78	17.87	17.85	17.79			
20	QPSK	1	99	17.71	17.69	17.81	17.75	17.76			
20	QPSK	50	0	17.75	17.66	17.83	17.83	17.79			
20	QPSK	50	24	17.77	17.76	17.88	17.77	17.78			
20	QPSK	50	50	17.72	17.78	17.87	17.79	17.71			
20	QPSK	100	0	17.79	17.81	17.67	17.79	17.82			
20	16QAM	1	0	17.88	17.87	17.91	17.81	17.82			
20	16QAM	1	49	17.78	17.79	17.85	17.83	17.75	18.5	0	
20	16QAM	1	99	17.84	17.83	17.88	17.76	17.77			
20	16QAM	50	0	17.77	17.74	17.83	17.75	17.73			
20	16QAM	50	24	17.84	17.79	17.91	17.81	17.82			
20	16QAM	50	50	17.72	17.80	17.83	17.72	17.78			
20	16QAM	100	0	17.78	17.78	17.88	17.78	17.80			
20	64QAM	1	0	17.81	17.74	17.85	17.73	17.80			
20	64QAM	1	49	17.79	17.77	17.84	17.78	17.75	18.5	0	
20											



Band 41_Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	15.11	15.05	15.26	15.20	15.15	16.6	0		
20	QPSK	1	49	15.10	15.02	15.20	15.18	15.09	16.6	0		
20	QPSK	1	99	15.07	15.01	15.10	15.00	15.02	16.6	0		
20	QPSK	50	0	15.15	15.13	15.23	15.06	15.17	16.6	0		
20	QPSK	50	24	15.05	15.05	15.17	15.05	15.13	16.6	0		
20	QPSK	50	50	15.09	15.08	15.18	15.02	15.10	16.6	0		
20	QPSK	100	0	15.08	15.17	15.20	15.03	15.08	16.6	0		
20	16QAM	1	0	15.17	15.17	15.25	15.17	15.15	16.6	0		
20	16QAM	1	49	15.00	15.01	15.11	15.07	15.08	16.6	0		
20	16QAM	1	99	15.13	15.16	15.21	15.13	15.16	16.6	0		
20	16QAM	50	0	15.12	15.10	15.14	15.07	15.03	16.6	0		
20	16QAM	50	24	15.16	15.13	15.20	15.08	15.10	16.6	0		
20	16QAM	50	50	15.10	15.05	15.17	15.14	15.09	16.6	0		
20	16QAM	100	0	15.15	15.08	15.20	15.16	15.14	16.6	0		
20	64QAM	1	0	15.09	15.17	15.19	15.17	15.12	16.6	0		
20	64QAM	1	49	15.15	15.12	15.18	15.06	15.16	16.6	0		
20	64QAM	1	99	15.02	15.02	15.09	15.00	15.03	16.6	0		
20	64QAM	50	0	15.06	15.06	15.17	15.10	15.06	16.6	0		
20	64QAM	50	24	15.11	15.13	15.21	15.14	15.15	16.6	0		
20	64QAM	50	50	15.08	15.11	15.18	15.07	15.16	16.6	0		
20	64QAM	100	0	15.05	15.08	15.11	15.06	15.01	16.6	0		
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	15.01	15.00	15.21	15.07	15.14	16.6	0		
15	QPSK	1	37	15.04	15.01	15.14	15.07	15.11	16.6	0		
15	QPSK	1	74	15.01	15.02	15.05	15.01	15.12	16.6	0		
15	QPSK	36	0	15.15	15.10	15.20	15.04	15.13	16.6	0		
15	QPSK	36	20	15.01	15.04	15.06	15.02	15.01	16.6	0		
15	QPSK	36	39	15.02	15.06	15.13	15.04	15.05	16.6	0		
15	QPSK	75	0	15.04	15.15	15.16	15.06	15.03	16.6	0		
15	16QAM	1	0	15.06	15.08	15.17	15.15	15.05	16.6	0		
15	16QAM	1	37	15.00	15.01	15.06	15.01	15.05	16.6	0		
15	16QAM	1	74	15.06	15.11	15.14	15.08	15.05	16.6	0		
15	16QAM	36	0	15.06	15.05	15.07	15.02	15.04	16.6	0		
15	16QAM	36	20	15.14	15.09	15.17	15.06	15.05	16.6	0		
15	16QAM	36	39	15.01	15.01	15.14	15.10	15.01	16.6	0		
15	16QAM	75	0	15.09	15.02	15.08	15.14	15.06	16.6	0		
15	64QAM	1	0	15.04	15.05	15.14	15.08	15.01	16.6	0		
15	64QAM	1	37	15.09	15.01	15.06	15.03	15.10	16.6	0		
15	64QAM	1	74	15.04	15.02	15.02	15.06	15.01	16.6	0		
15	64QAM	36	0	15.00	15.03	15.10	15.06	15.01	16.6	0		
15	64QAM	36	20	15.04	15.10	15.18	15.09	15.07	16.6	0		
15	64QAM	36	39	15.00	15.06	15.06	15.06	15.14	16.6	0		
15	64QAM	75	0	15.04	15.03	15.00	15.01	15.04	16.6	0		
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	15.04	15.04	15.18	15.20	15.03	16.6	0		
10	QPSK	1	25	15.04	15.00	15.11	15.14	15.00	16.6	0		
10	QPSK	1	49	15.01	15.02	15.07	15.14	15.02	16.6	0		
10	QPSK	25	0	15.12	15.09	15.20	15.05	15.13	16.6	0		
10	QPSK	25	12	15.02	15.04	15.12	15.04	15.06	16.6	0		
10	QPSK	25	25	15.05	15.04	15.07	15.06	15.01	16.6	0		
10	QPSK	50	0	15.06	15.11	15.16	15.01	15.05	16.6	0		
10	16QAM	1	0	15.09	15.12	15.18	15.06	15.08	16.6	0		
10	16QAM	1	25	15.03	15.02	15.06	15.02	15.00	16.6	0		
10	16QAM	1	49	15.07	15.06	15.12	15.11	15.10	16.6	0		
10	16QAM	25	0	15.00	15.06	15.10	15.03	15.01	16.6	0		
10	16QAM	25	12	15.14	15.09	15.16	15.04	15.06	16.6	0		
10	16QAM	25	25	15.05	15.01	15.15	15.08	15.04	16.6	0		
10	16QAM	50	0	15.13	15.01	15.09	15.06	15.03	16.6	0		
10	64QAM	1	0	15.00	15.11	15.17	15.06	15.08	16.6	0		
10	64QAM	1	25	15.12	15.03	15.11	15.03	15.04	16.6	0		
10	64QAM	1	49	15.03	15.00	15.05	15.14	15.01	16.6	0		
10	64QAM	25	0	15.04	15.00	15.14	15.06	15.04	16.6	0		
10	64QAM	25	12	15.05	15.07	15.11	15.03	15.06	16.6	0		
10	64QAM	25	25	15.02	15.05	15.10	15.06	15.06	16.6	0		
10	64QAM	50	0	15.02	15.03	15.06	15.02	15.17	16.6	0		
Channel				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	15.05	15.02	15.19	15.20	15.04	16.6	0		
5	QPSK	1	12	15.00	15.03	15.18	15.11	15.04	16.6	0		
5	QPSK	1	24	15.02	15.02	15.06	15.03	15.06	16.6	0		
5	QPSK	12	0	15.13	15.04	15.17	15.02	15.13	16.6	0		
5	QPSK	12	7	15.00	15.03	15.11	15.05	15.11	16.6	0		
5	QPSK	12	13	15.00	15.06	15.14	15.03	15.08	16.6	0		
5	QPSK	25	0	15.02	15.15	15.11	15.17	15.04	16.6	0		
5	16QAM	1	0	15.09	15.15	15.17	15.05	15.12	16.6	0		
5	16QAM	1	12	15.01	15.01	15.03	15.01	15.06	16.6	0		
5	16QAM	1	24	15.02	15.10	15.15	15.01	15.10	16.6	0		
5	16QAM	12	0	15.01	15.08	15.08	15.02	15.08	16.6	0		
5	16QAM	12	7	15.10	15.01	15.11	15.00	15.07	16.6	0		
5	16QAM	12	13	15.01	15.03	15.06	15.10	15.05	16.6	0		
5	16QAM	25	0	15.08	15.03	15.12	15.10	15.07	16.6	0		
5	64QAM	1	0	15.07	15.09	15.13	15.06	15.10	16.6	0		
5	64QAM	1	12	15.10	15.02	15.13	15.02	15.05	16.6	0		
5	64QAM	1	24	15.01	15.03	15.00	15.05	15.06	16.6	0		
5	64QAM	12	0	15.03	15.01	15.07	15.05	15.02	16.6	0		
5	64QAM	12	7	15.09	15.05	15.10	15.05	15.10	16.6	0		
5	64QAM	12	13	15.04	15.07	15.08	15.02	15.05	16.6	0		
5	64QAM	25	0	15.01	15.06	15.00	15.00	15.01	16.6	0		

Band 41_Ant 3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	20.28	20.39	20.47	20.24	20.22	20.8	0		
20	QPSK	1	49	20.13	20.13	20.26	20.03	20.03	20.8	0		
20	QPSK	1	99	20.24	20.17	20.21	20.11	20.07	20.8	0		
20	QPSK	50	0	20.21	20.22	20.43	20.23	20.16	20.8	0		
20	QPSK	50	24	20.17	20.04	20.17	20.03	20.06	20.8	0		
20	QPSK	50	50	20.19	20.13	20.16	20.22	20.08	20.8	0		
20	QPSK	100	0	20.33								



Default Power for 5G NR NSA

n5_Ant 0										
BW (MHz)	Modulation	RE Size	RE Offset	Power Spectral Density (W/Hz)	Power Spectral Density (W/Hz)	Power Spectral Density (W/Hz)	Power Spectral Density (W/Hz)	Power Spectral Density (W/Hz)	Power Spectral Density (W/Hz)	Power Spectral Density (W/Hz)
Channel										
20	FR2 BPSK	1	1	2403	2428	2449				
Frequency (MHz)										
20	FR2 BPSK	1	0	2434	2443	2451	25.5	0.0		
20	FR2 BPSK	1	104	2430	2445	2455				
20	FR2 BPSK	0	0	2434	2446	2452	25.5	0.0		
20	FR2 BPSK	0	24	2434	2445	2443	25.5	0.0		
20	FR2 BPSK	0	56	2430	2438	2442	25.0	0.0		
20	FR2 BPSK	0	92	2430	2435	2437	25.0	0.0		
Power Spectral Density (dBm)										
20	CPB	1	1	2442	2441	2447				
20	CPB	1	0	2440	2444	2444	25.5	0.0		
20	CPB	1	104	2436	2437	2437				
20	CPB	0	0	2431	2437	2437	25.5	1.0		
20	CPB	0	24	2431	2435	2434	25.5	0.0		
20	CPB	0	56	2428	2434	2434	25.0	0.0		
20	CPB	0	92	2428	2432	2432	24.9	1.0		
20	CPB	0	136	2428	2432	2432	24.9	1.0		
20	CPB	0	172	2428	2432	2432	24.9	1.0		
20	CPB	0	208	2428	2432	2432	24.9	1.0		
20	CPB	0	244	2428	2432	2432	24.9	1.0		
20	CPB	0	280	2428	2432	2432	24.9	1.0		
20	CPB	0	316	2428	2432	2432	24.9	1.0		
20	CPB	0	352	2428	2432	2432	24.9	1.0		
20	CPB	0	388	2428	2432	2432	24.9	1.0		
20	CPB	0	424	2428	2432	2432	24.9	1.0		
20	CPB	0	460	2428	2432	2432	24.9	1.0		
20	CPB	0	496	2428	2432	2432	24.9	1.0		
20	CPB	0	532	2428	2432	2432	24.9	1.0		
20	CPB	0	568	2428	2432	2432	24.9	1.0		
20	CPB	0	604	2428	2432	2432	24.9	1.0		
20	CPB	0	640	2428	2432	2432	24.9	1.0		
20	CPB	0	676	2428	2432	2432	24.9	1.0		
20	CPB	0	712	2428	2432	2432	24.9	1.0		
20	CPB	0	748	2428	2432	2432	24.9	1.0		
20	CPB	0	784	2428	2432	2432	24.9	1.0		
20	CPB	0	820	2428	2432	2432	24.9	1.0		
20	CPB	0	856	2428	2432	2432	24.9	1.0		
20	CPB	0	892	2428	2432	2432	24.9	1.0		
20	CPB	0	928	2428	2432	2432	24.9	1.0		
20	CPB	0	964	2428	2432	2432	24.9	1.0		
20	CPB	0	1000	2428	2432	2432	24.9	1.0		
20	CPB	0	1036	2428	2432	2432	24.9	1.0		
20	CPB	0	1072	2428	2432	2432	24.9	1.0		
20	CPB	0	1108	2428	2432	2432	24.9	1.0		
20	CPB	0	1144	2428	2432	2432	24.9	1.0		
20	CPB	0	1180	2428	2432	2432	24.9	1.0		
20	CPB	0	1216	2428	2432	2432	24.9	1.0		
20	CPB	0	1252	2428	2432	2432	24.9	1.0		
20	CPB	0	1288	2428	2432	2432	24.9	1.0		
20	CPB	0	1324	2428	2432	2432	24.9	1.0		
20	CPB	0	1360	2428	2432	2432	24.9	1.0		
20	CPB	0	1396	2428	2432	2432	24.9	1.0		
20	CPB	0	1432	2428	2432	2432	24.9	1.0		
20	CPB	0	1468	2428	2432	2432	24.9	1.0		
20	CPB	0	1504	2428	2432	2432	24.9	1.0		
20	CPB	0	1540	2428	2432	2432	24.9	1.0		
20	CPB	0	1576	2428	2432	2432	24.9	1.0		
20	CPB	0	1612	2428	2432	2432	24.9	1.0		
20	CPB	0	1648	2428	2432	2432	24.9	1.0		
20	CPB	0	1684	2428	2432	2432	24.9	1.0		
20	CPB	0	1720	2428	2432	2432	24.9	1.0		
20	CPB	0	1756	2428	2432	2432	24.9	1.0		
20	CPB	0	1792	2428	2432	2432	24.9	1.0		
20	CPB	0	1828	2428	2432	2432	24.9	1.0		
20	CPB	0	1864	2428	2432	2432	24.9	1.0		
20	CPB	0	1900	2428	2432	2432	24.9	1.0		
20	CPB	0	1936	2428	2432	2432	24.9	1.0		
20	CPB	0	1972	2428	2432	2432	24.9	1.0		
20	CPB	0	2008	2428	2432	2432	24.9	1.0		
20	CPB	0	2044	2428	2432	2432	24.9	1.0		
20	CPB	0	2080	2428	2432	2432	24.9	1.0		
20	CPB	0	2116	2428	2432	2432	24.9	1.0		
20	CPB	0	2152	2428	2432	2432	24.9	1.0		
20	CPB	0	2188	2428	2432	2432	24.9	1.0		
20	CPB	0	2224	2428	2432	2432	24.9	1.0		
20	CPB	0	2260	2428	2432	2432	24.9	1.0		
20	CPB	0	2296	2428	2432	2432	24.9	1.0		
20	CPB	0	2332	2428	2432	2432	24.9	1.0		
20	CPB	0	2368	2428	2432	2432	24.9	1.0		
20	CPB	0	2404	2428	2432	2432	24.9	1.0		
20	CPB	0	2440	2428	2432	2432	24.9	1.0		
20	CPB	0	2476	2428	2432	2432	24.9	1.0		
20	CPB	0	2512	2428	2432	2432	24.9	1.0		
20	CPB	0	2548	2428	2432	2432	24.9	1.0		
20	CPB	0	2584	2428	2432	2432	24.9	1.0		
20	CPB	0	2620	2428	2432	2432	24.9	1.0		
20	CPB	0	2656	2428	2432	2432	24.9	1.0		
20	CPB	0	2692	2428	2432	2432	24.9	1.0		
20	CPB	0	2728	2428	2432	2432	24.9	1.0		
20	CPB	0	2764	2428	2432	2432	24.9	1.0		
20	CPB	0	2800	2428	2432	2432	24.9	1.0		
20	CPB	0	2836	2428	2432	2432	24.9	1.0		
20	CPB	0	2872	2428	2432	2432	24.9	1.0		
20	CPB	0	2908	2428	2432	2432	24.9	1.0		
20	CPB	0	2944	2428	2432	2432	24.9	1.0		
20	CPB	0	2980	2428	2432	2432	24.9	1.0		
20	CPB	0	3016	2428	2432	2432	24.9	1.0		
20	CPB	0	3052	2428	2432	2432	24.9	1.0		
20	CPB	0	3088	2428	2432	2432	24.9	1.0		
20	CPB	0	3124	2428	2432	2432	24.9	1.0		
20	CPB	0	3160	2428	2432	2432	24.9	1.0		
20	CPB	0	3196	2428	2432	2432	24.9	1.0		
20	CPB	0	3232	2428	2432	2432	24.9	1.0		
20	CPB	0	3268	2428	2432	2432	24.9	1.0		
20	CPB	0	3304	2428	2432	2432	24.9	1.0		
20	CPB	0	3340	2428	2432	2432	24.9	1.0		
20	CPB	0	3376	2428	2432	2432	24.9	1.0		
20	CPB	0	3412	2428	2432	2432	24.9	1.0		
20	CPB	0	3448	2428	2432	2432	24.9	1.0		
20	CPB	0	3484	2428	2432	2432	24.9	1.0		
20	CPB	0	3520	2428	2432	2432	24.9	1.0		
20	CPB	0	3556	2428	2432	2432	24.9	1.0		
20	CPB	0	3592	2428	2432	2432	24.9	1.0		
20	CPB	0	3628	2428	2432	2432	24.9	1.0		
20	CPB	0	3664	2428	2432	2432	24.9	1.0		
20	CPB	0	3700	2428	2432	2432	24.9	1.0		
20	CPB	0	3736	2428	2432	2432	24.9	1.0		
20	CPB	0	3772	2428	2432	2432	24.9	1.0		
20	CPB	0	3808	2428	2432	2432	24.9	1.0		
20	CPB	0	3844	2428	2432	2432	24.9	1.0		
20	CPB	0	3880	2428	2432	2432	24.9	1.0		
20	CPB	0	3916	2428	2432	2432	24.9	1.0		
20	CPB	0	3952	2428	2432	2432	24.9	1.0		
20	CPB	0	3988	2428	2432	2432	24.9	1.0		
20	CPB	0	4024	2428	2432	2432	24.9	1.0		
20	CPB	0	4060	2428	2432	2432	24.9	1.0		
20	CPB	0	4096	2428	2432	2432	24.9	1.0		
20	CPB	0	4132	2428	2432	2432	24.9	1.0		
20	CPB	0	4168	2428	2432	2432	24.9	1.0		
20	CPB	0	4204	2428	2432	2432	24.9	1.0		
20	CPB	0	4240	2428	2432	2432	24.9	1.0		
20	CPB	0	4276	2428	2432	2432	24.9	1.0		
20	CPB	0	4312	2428	2432	2432	24.9	1.0		
20	CPB	0	4348	2428	2432	2432	24.9	1.0		
20	CPB	0	4384	2428	2432	2432	24.9	1.0		
20	CPB	0	4420	2428	2432	2432	24.9	1.0		
20	CPB	0	4456	2428	2432	2432	24.9	1.0		
20	CPB	0	4492	2428	2432	2432	24.9	1.0		
20	CPB	0	4528	2428	2432	2432	24.9	1.0		
20	CPB	0	4564	2428	2432	2432	24.9	1.0		
20	CPB	0	4600	2428	2432	2432	24.9	1.0		
20	CPB	0	4636	2428	2432	2432	24.9	1.0		
20	CPB	0	4672	2428	2432	2432	24.9	1.0		
20	CPB	0	4708	2428	2432	2432	24.9	1.0		
20	CPB	0	4744	2428	2432	2432	24.9	1.0		</



n66_Ant 0										
BV [MHz]	Modulation	FE Size	FE Chnl	Power Tx [F/Hz]	Power Rise Ch. [F/Hz]	Power Rise Ch. [F/Hz]	Take-up Rate [dB]	MFR [dB]		
Channel										
Frequency [MHz]										
40	P10 BPSK	1	1	23.71	23.82	23.76				
40	P10 BPSK	1	1	24.33	24.23	24.24	25.0	0.0		
40	P10 BPSK	1	2/4	23.76	23.63	23.79				
40	P10 BPSK	1	1	23.77	23.82	23.84	25.0	0.0		
40	P10 BPSK	1	1	24.31	24.40	24.37	25.0	0.0		
40	P10 BPSK	1	1	23.83	23.87	23.90	25.0	0.0		
40	P10 BPSK	1	1	23.86	23.96	23.94				
40	QPSK	1	1	23.88	23.78	23.70				
40	QPSK	1	1	23.91	23.84	23.79	25.0	0.0		
40	QPSK	1	2/4	23.83	23.74	23.88				
40	QPSK	1	1	23.80	23.84	23.85	25.0	1.0		
40	QPSK	1	1	23.82	23.87	23.79	25.0	0.0		
40	QPSK	1	1	23.85	23.84	23.84	24.0	1.0		
40	QPSK	1	1	23.87	23.82	23.85	24.0	1.0		
40	QPSK	1	1	23.89	23.87	23.87	24.0	1.0		
40	QPSK	1	1	23.91	23.89	23.89	24.0	1.0		
40	QPSK	1	1	23.93	23.91	23.91	24.0	1.0		
40	QPSK	1	1	23.95	23.93	23.93	24.0	1.0		
40	QPSK	1	1	23.97	23.95	23.95	24.0	1.0		
40	QPSK	1	1	23.99	23.97	23.97	24.0	1.0		
40	QPSK	1	1	24.01	24.01	24.01	24.0	1.0		
40	QPSK	1	1	24.03	24.03	24.03	24.0	1.0		
40	QPSK	1	1	24.05	24.05	24.05	24.0	1.0		
40	QPSK	1	1	24.07	24.07	24.07	24.0	1.0		
40	QPSK	1	1	24.09	24.09	24.09	24.0	1.0		
40	QPSK	1	1	24.11	24.11	24.11	24.0	1.0		
40	QPSK	1	1	24.13	24.13	24.13	24.0	1.0		
40	QPSK	1	1	24.15	24.15	24.15	24.0	1.0		
40	QPSK	1	1	24.17	24.17	24.17	24.0	1.0		
40	QPSK	1	1	24.19	24.19	24.19	24.0	1.0		
40	QPSK	1	1	24.21	24.21	24.21	24.0	1.0		
40	QPSK	1	1	24.23	24.23	24.23	24.0	1.0		
40	QPSK	1	1	24.25	24.25	24.25	24.0	1.0		
40	QPSK	1	1	24.27	24.27	24.27	24.0	1.0		
40	QPSK	1	1	24.29	24.29	24.29	24.0	1.0		
40	QPSK	1	1	24.31	24.31	24.31	24.0	1.0		
40	QPSK	1	1	24.33	24.33	24.33	24.0	1.0		
40	QPSK	1	1	24.35	24.35	24.35	24.0	1.0		
40	QPSK	1	1	24.37	24.37	24.37	24.0	1.0		
40	QPSK	1	1	24.39	24.39	24.39	24.0	1.0		
40	QPSK	1	1	24.41	24.41	24.41	24.0	1.0		
40	QPSK	1	1	24.43	24.43	24.43	24.0	1.0		
40	QPSK	1	1	24.45	24.45	24.45	24.0	1.0		
40	QPSK	1	1	24.47	24.47	24.47	24.0	1.0		
40	QPSK	1	1	24.49	24.49	24.49	24.0	1.0		
40	QPSK	1	1	24.51	24.51	24.51	24.0	1.0		
40	QPSK	1	1	24.53	24.53	24.53	24.0	1.0		
40	QPSK	1	1	24.55	24.55	24.55	24.0	1.0		
40	QPSK	1	1	24.57	24.57	24.57	24.0	1.0		
40	QPSK	1	1	24.59	24.59	24.59	24.0	1.0		
40	QPSK	1	1	24.61	24.61	24.61	24.0	1.0		
40	QPSK	1	1	24.63	24.63	24.63	24.0	1.0		
40	QPSK	1	1	24.65	24.65	24.65	24.0	1.0		
40	QPSK	1	1	24.67	24.67	24.67	24.0	1.0		
40	QPSK	1	1	24.69	24.69	24.69	24.0	1.0		
40	QPSK	1	1	24.71	24.71	24.71	24.0	1.0		
40	QPSK	1	1	24.73	24.73	24.73	24.0	1.0		
40	QPSK	1	1	24.75	24.75	24.75	24.0	1.0		
40	QPSK	1	1	24.77	24.77	24.77	24.0	1.0		
40	QPSK	1	1	24.79	24.79	24.79	24.0	1.0		
40	QPSK	1	1	24.81	24.81	24.81	24.0	1.0		
40	QPSK	1	1	24.83	24.83	24.83	24.0	1.0		
40	QPSK	1	1	24.85	24.85	24.85	24.0	1.0		
40	QPSK	1	1	24.87	24.87	24.87	24.0	1.0		
40	QPSK	1	1	24.89	24.89	24.89	24.0	1.0		
40	QPSK	1	1	24.91	24.91	24.91	24.0	1.0		
40	QPSK	1	1	24.93	24.93	24.93	24.0	1.0		
40	QPSK	1	1	24.95	24.95	24.95	24.0	1.0		
40	QPSK	1	1	24.97	24.97	24.97	24.0	1.0		
40	QPSK	1	1	24.99	24.99	24.99	24.0	1.0		
40	QPSK	1	1	25.01	25.01	25.01	24.0	1.0		
40	QPSK	1	1	25.03	25.03	25.03	24.0	1.0		
40	QPSK	1	1	25.05	25.05	25.05	24.0	1.0		
40	QPSK	1	1	25.07	25.07	25.07	24.0	1.0		
40	QPSK	1	1	25.09	25.09	25.09	24.0	1.0		
40	QPSK	1	1	25.11	25.11	25.11	24.0	1.0		
40	QPSK	1	1	25.13	25.13	25.13	24.0	1.0		
40	QPSK	1	1	25.15	25.15	25.15	24.0	1.0		
40	QPSK	1	1	25.17	25.17	25.17	24.0	1.0		
40	QPSK	1	1	25.19	25.19	25.19	24.0	1.0		
40	QPSK	1	1	25.21	25.21	25.21	24.0	1.0		
40	QPSK	1	1	25.23	25.23	25.23	24.0	1.0		
40	QPSK	1	1	25.25	25.25	25.25	24.0	1.0		
40	QPSK	1	1	25.27	25.27	25.27	24.0	1.0		
40	QPSK	1	1	25.29	25.29	25.29	24.0	1.0		
40	QPSK	1	1	25.31	25.31	25.31	24.0	1.0		
40	QPSK	1	1	25.33	25.33	25.33	24.0	1.0		
40	QPSK	1	1	25.35	25.35	25.35	24.0	1.0		
40	QPSK	1	1	25.37	25.37	25.37	24.0	1.0		
40	QPSK	1	1	25.39	25.39	25.39	24.0	1.0		
40	QPSK	1	1	25.41	25.41	25.41	24.0	1.0		
40	QPSK	1	1	25.43	25.43	25.43	24.0	1.0		
40	QPSK	1	1	25.45	25.45	25.45	24.0	1.0		
40	QPSK	1	1	25.47	25.47	25.47	24.0	1.0		
40	QPSK	1	1	25.49	25.49	25.49	24.0	1.0		
40	QPSK	1	1	25.51	25.51	25.51	24.0	1.0		
40	QPSK	1	1	25.53	25.53	25.53	24.0	1.0		
40	QPSK	1	1	25.55	25.55	25.55	24.0	1.0		
40	QPSK	1	1	25.57	25.57	25.57	24.0	1.0		
40	QPSK	1	1	25.59	25.59	25.59	24.0	1.0		
40	QPSK	1	1	25.61	25.61	25.61	24.0	1.0		
40	QPSK	1	1	25.63	25.63	25.63	24.0	1.0		
40	QPSK	1	1	25.65	25.65	25.65	24.0	1.0		
40	QPSK	1	1	25.67	25.67	25.67	24.0	1.0		
40	QPSK	1	1	25.69	25.69	25.69	24.0	1.0		
40	QPSK	1	1	25.71	25.71	25.71	24.0	1.0		
40	QPSK	1	1	25.73	25.73	25.73	24.0	1.0		
40	QPSK	1	1	25.75	25.75	25.75	24.0	1.0		
40	QPSK	1	1	25.77	25.77	25.77	24.0	1.0		
40	QPSK	1	1	25.79	25.79	25.79	24.0	1.0		
40	QPSK	1	1	25.81	25.81	25.81	24.0	1.0		
40	QPSK	1	1	25.83	25.83	25.83	24.0	1.0		
40	QPSK	1	1	25.85	25.85	25.85	24.0	1.0		
40	QPSK	1	1	25.87	25.87	25.87	24.0	1.0		
40	QPSK	1	1	25.89	25.89	25.89	24.0	1.0		
40	QPSK	1	1	25.91	25.91	25.91	24.0	1.0		
40	QPSK	1	1	25.93	25.93	25.93	24.0	1.0		
40	QPSK	1	1	25.95	25.95	25.95	24.0	1.0		
40	QPSK	1	1	25.97	25.97	25.97	24.0	1.0		
40	QPSK	1	1	25.99	25.99	25.99	24.0	1.0		
40	QPSK	1	1	26.01	26.01	26.01	24.0	1.0		
40	QPSK	1	1	26.03						



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				2590.02	2595	2599.98			
Frequency (MHz)				518004	519000	519996			
40	PI2 BPSK	1	1	24.32	24.33	24.47			
40	PI2 BPSK	1	53	24.80	24.83	24.76	25.5	0.0	
40	PI2 BPSK	1	104	24.22	24.37	24.25			
40	PI2 BPSK	50	0	24.93	24.14	24.11	25.0	0.5	
40	PI2 BPSK	50	28	24.77	24.86	24.69	25.5	0.0	
40	PI2 BPSK	50	56	24.50	24.16	24.01	25.0	0.5	
40	PI2 BPSK	100	0	24.18	24.26	24.17			
40	QPSK	1	1	24.17	24.30	24.23			
40	QPSK	1	53	24.75	24.85	24.70	25.5	0.0	
40	QPSK	1	104	24.41	24.51	24.48			
40	QPSK	50	0	23.68	23.68	23.58	24.5	1.0	
40	QPSK	50	28	23.70	24.82	24.67	25.5	0.0	
40	QPSK	50	56	23.60	23.68	23.52	24.5	1.0	
40	QPSK	100	0	23.97	23.77	23.94	24.5	1.0	
40	16QAM	1	1	22.96	23.11	23.03	24.5	1.0	
40	64QAM	1	1	21.44	21.61	21.56	23.0	2.5	
40	256QAM	1	1	20.20	20.24	20.12	21.0	4.5	
Channel				2585.01	2595	2604.99			
Frequency (MHz)				517002	518000	519000			
30	QPSK	1	1	24.99	24.70	24.53	25.5	0.0	
Channel				2580	2595	2610			
Frequency (MHz)				516500	518000	520000			
20	QPSK	1	1	24.70	24.79	24.63	25.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				2590.02	2595	2599.98			
Frequency (MHz)				518004	519000	519996			
40	PI2 BPSK	1	1	22.21	22.20	22.23			
40	PI2 BPSK	1	53	23.42	23.58	23.44	24.9	0.0	
40	PI2 BPSK	1	104	23.34	23.50	23.43			
40	PI2 BPSK	50	0	22.90	22.97	22.80	24.4	0.5	
40	PI2 BPSK	50	28	23.53	23.82	23.48	24.9	0.0	
40	PI2 BPSK	50	56	23.07	23.18	23.15	24.4	0.5	
40	PI2 BPSK	100	0	23.11	23.23	23.06			
40	QPSK	1	1	23.06	23.09	23.05			
40	QPSK	1	53	23.59	23.69	23.53	24.9	0.0	
40	QPSK	1	104	23.12	23.15	23.09			
40	QPSK	50	0	22.37	22.41	22.31	24.9	0.0	
40	QPSK	50	28	23.54	23.85	23.61	24.9	0.0	
40	QPSK	50	56	22.39	22.42	22.37			
40	QPSK	100	0	22.42	22.50	22.46	23.9	1.0	
40	16QAM	1	1	22.04	22.10	22.09	23.9	1.0	
40	64QAM	1	1	20.83	20.80	20.58	22.4	2.5	
40	256QAM	1	1	18.88	19.04	18.92	21.4	4.5	
Channel				2585.01	2595	2604.99			
Frequency (MHz)				517002	518000	519000			
30	QPSK	1	1	23.47	23.66	23.37	24.9	0.0	
Channel				2580	2595	2610			
Frequency (MHz)				516500	518000	520000			
20	QPSK	1	1	23.44	23.57	23.39	24.9	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				2590.02	2595	2599.98			
Frequency (MHz)				518004	519000	519996			
40	PI2 BPSK	1	1	23.79	23.79	23.70			
40	PI2 BPSK	1	53	24.05	24.16	24.05	25.7	0.0	
40	PI2 BPSK	1	104	24.00	24.14	24.02			
40	PI2 BPSK	50	0	23.47	23.53	23.43	25.2	0.8	
40	PI2 BPSK	50	28	24.62	24.80	24.17	25.7	0.0	
40	PI2 BPSK	50	56	24.18	24.18	24.12	25.2	0.5	
40	PI2 BPSK	100	0	23.55	23.63	23.56			
40	QPSK	1	1	23.75	23.73	23.79			
40	QPSK	1	53	24.05	24.25	24.15	25.7	0.0	
40	QPSK	1	104	23.72	23.76	23.78			
40	QPSK	50	0	23.01	23.01	23.00	25.7	0.0	
40	QPSK	50	28	24.00	24.21	24.13	25.7	0.0	
40	QPSK	50	56	23.04	23.09	23.02			
40	QPSK	100	0	23.02	23.13	23.00	24.7	1.0	
40	16QAM	1	1	22.70	22.82	22.74	24.7	1.0	
40	64QAM	1	1	21.22	21.21	21.27	23.2	2.5	
40	256QAM	1	1	19.63	19.67	19.63	21.2	4.5	
Channel				2585.01	2595	2604.99			
Frequency (MHz)				517002	518000	519000			
30	QPSK	1	1	23.98	24.07	23.97	25.7	0.0	
Channel				2580	2595	2610			
Frequency (MHz)				516500	518000	520000			
20	QPSK	1	1	24.03	24.19	24.11	25.7	0.0	



n38_Ant 3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 519000	Power Middle Ch. / Freq. / 519000	Power High Ch. / Freq. / 519000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	23.02	23.05	23.09		
40	P12 BPSK	1	53	23.02	23.02	23.04	24.6	0.0
40	P12 BPSK	1	104	23.03	23.18	23.11		
40	P12 BPSK	50	0	22.67	22.63	22.72	24.1	0.5
40	P12 BPSK	50	28	23.36	23.51	23.63	24.6	0.0
40	P12 BPSK	50	56	22.78	22.93	22.77	24.1	0.5
40	P12 BPSK	100	0	22.63	22.66	22.67		
40	QPSK	1	1	22.62	22.65	22.67		
40	QPSK	1	53	23.47	23.55	23.54	24.6	0.0
40	QPSK	1	104	22.99	23.08	22.92		
40	QPSK	50	0	22.27	22.35	22.28		
40	QPSK	50	28	23.47	23.51	23.42	24.6	0.0
40	QPSK	50	56	22.35	22.41	22.24		
40	QPSK	100	0	22.24	22.45	22.33	23.6	1.0
40	16QAM	1	1	21.74	21.82	21.71	23.6	1.0
40	64QAM	1	1	20.17	20.34	20.31	22.1	2.5
40	256QAM	1	1	18.82	18.82	18.50	20.1	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	2585.01	2585	2604.99		
Channel								
Frequency (MHz)								
20	QPSK	1	1	2589	2585	2610	24.6	0.0

n41_FCC_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 518900	Power Middle Ch. / Freq. / 518900	Power High Ch. / Freq. / 518900	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.64	23.69	23.59		
100	P12 BPSK	1	137	24.58	24.72	24.55	25.5	0.0
100	P12 BPSK	1	271	23.66	23.69	23.57		
100	P12 BPSK	150	0	23.32	24.32	23.91	25.0	0.5
100	P12 BPSK	150	69	24.66	24.78	24.65	25.5	0.0
100	P12 BPSK	150	138	23.81	23.92	23.87	25.0	0.5
100	P12 BPSK	270	0	23.82	23.88	23.88		
100	QPSK	1	1	23.58	23.62	23.58		
100	QPSK	1	137	24.55	24.87	24.71	25.5	0.0
100	QPSK	1	271	23.57	23.72	23.69		
100	QPSK	150	0	23.53	23.52	23.51		
100	QPSK	150	69	24.54	24.78	24.54	25.5	0.0
100	QPSK	150	138	23.54	23.58	23.58		
100	QPSK	270	0	23.40	23.36	23.40	24.5	1.0
100	16QAM	1	1	22.92	22.91	22.95	24.5	1.0
100	64QAM	1	1	21.06	21.17	21.15	23.0	2.5
100	256QAM	1	1	19.44	19.62	19.43	21.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.43	24.79	24.61	25.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.55	24.74	24.63	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.53	24.79	24.67	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.43	24.78	24.68	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.45	24.71	24.64	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.55	24.80	24.57	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.47	24.63	24.65	25.0	0.0

n41_FCC_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 518900	Power Middle Ch. / Freq. / 518900	Power High Ch. / Freq. / 518900	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.02	23.10	23.09		
100	P12 BPSK	1	137	23.05	23.00	23.02	24.9	0.0
100	P12 BPSK	1	271	23.01	23.10	23.03		
100	P12 BPSK	150	0	22.81	22.90	22.76	24.4	0.5
100	P12 BPSK	150	69	23.51	23.65	23.60	24.9	0.0
100	P12 BPSK	150	138	22.61	22.75	22.62	24.4	0.5
100	P12 BPSK	270	0	22.76	22.82	22.71		
100	QPSK	1	1	23.10	23.23	23.17		
100	QPSK	1	137	23.07	23.10	23.02	24.9	0.0
100	QPSK	1	271	23.19	23.27	23.13		
100	QPSK	150	0	22.32	22.38	22.33		
100	QPSK	150	69	23.47	23.62	23.52	24.9	0.0
100	QPSK	150	138	22.22	22.26	22.16		
100	QPSK	270	0	22.59	22.56	22.52	23.9	1.0
100	16QAM	1	1	22.07	22.20	22.16	23.5	1.0
100	64QAM	1	1	20.59	20.74	20.54	22.4	2.5
100	256QAM	1	1	18.80	18.70	18.66	20.4	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.40	23.67	23.48	24.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.64	23.52	24.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.39	23.65	23.44	24.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.51	23.59	23.45	24.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.49	23.55	23.45	24.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.42	23.57	23.45	24.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.47	23.61	23.56	24.9	0.0



n41_FCC_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2446.01	2492.99	2540		
100	Pi2 BPSK	1	1	22.71	22.78	22.76		
100	Pi2 BPSK	1	137	24.12	24.16	23.99	25.7	0.0
100	Pi2 BPSK	1	271	23.80	23.82	23.74		
100	Pi2 BPSK	135	0	24.52	24.64	24.38	25.2	0.0
100	Pi2 BPSK	135	69	24.12	24.22	24.21	25.7	0.0
100	Pi2 BPSK	135	138	23.57	23.55	23.50	25.2	0.5
100	Pi2 BPSK	270	0	23.51	23.54	23.51	23.2	
100	QPSK	1	1	23.76	23.83	23.72		
100	QPSK	1	137	24.03	24.07	24.06	25.7	0.0
100	QPSK	1	271	23.77	23.81	23.79		
100	QPSK	135	0	23.22	23.32	23.20		
100	QPSK	135	69	24.00	24.21	24.02	25.7	0.0
100	QPSK	135	138	23.21	23.32	23.23		
100	QPSK	270	0	23.98	24.11	23.92	24.7	1.0
100	16QAM	1	1	22.73	22.75	22.72	24.7	1.0
100	64QAM	1	1	21.22	21.34	21.26	23.2	2.5
100	256QAM	1	1	19.26	19.32	19.28	21.2	4.5
Channel								
Frequency (MHz)				2641	2692.99	2644.98		
90	QPSK	1	1	23.96	24.14	24.04	25.7	0.0
Channel								
Frequency (MHz)				2824	2875.99	2826.98		
80	QPSK	1	1	23.96	24.20	23.98	25.7	0.0
Channel								
Frequency (MHz)				3000	3052.99	3003.98		
60	QPSK	1	1	23.90	24.17	23.94	25.7	0.0
Channel								
Frequency (MHz)				304204	310598	310598		
50	QPSK	1	1	23.92	24.13	24.01	25.7	0.0
Channel								
Frequency (MHz)				503202	510598	510598		
40	QPSK	1	1	24.01	24.10	24.01	25.7	0.0
Channel								
Frequency (MHz)				502200	510598	510598		
30	QPSK	1	1	23.98	24.18	23.93	25.7	0.0
Channel								
Frequency (MHz)				501204	510598	510598		
20	QPSK	1	1	23.94	24.14	23.90	25.7	0.0

n41_FCC_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2446.01	2492.99	2540		
100	Pi2 BPSK	1	1	22.07	22.05	22.03		
100	Pi2 BPSK	1	137	23.42	23.45	23.42	24.6	0.0
100	Pi2 BPSK	1	271	22.66	22.78	22.66		
100	Pi2 BPSK	135	0	22.87	22.73	22.86	24.1	0.5
100	Pi2 BPSK	135	69	23.38	23.48	23.33	24.6	0.0
100	Pi2 BPSK	135	138	22.59	22.71	22.68	24.1	0.5
100	Pi2 BPSK	270	0	22.59	22.75	22.61	24.1	0.5
100	QPSK	1	1	22.62	22.61	22.66		
100	QPSK	1	137	23.31	23.57	23.32	24.6	0.0
100	QPSK	1	271	22.61	22.72	22.61		
100	QPSK	135	0	22.32	22.36	22.33		
100	QPSK	135	69	23.28	23.53	23.20	24.6	0.0
100	QPSK	135	138	22.33	22.48	22.43		
100	QPSK	270	0	22.23	22.30	22.16	23.6	1.0
100	16QAM	1	1	21.69	21.62	21.61	23.6	1.0
100	64QAM	1	1	20.17	20.15	20.10	22.1	2.5
100	256QAM	1	1	18.26	18.40	18.29	20.1	4.5
Channel								
Frequency (MHz)				2641	2692.99	2644.98		
90	QPSK	1	1	23.24	23.62	23.19	24.6	0.0
Channel								
Frequency (MHz)				2824	2875.99	2826.98		
80	QPSK	1	1	23.17	23.54	23.20	24.6	0.0
Channel								
Frequency (MHz)				3000	3052.99	3003.98		
60	QPSK	1	1	23.23	23.53	23.25	24.6	0.0
Channel								
Frequency (MHz)				304204	310598	310598		
50	QPSK	1	1	23.24	23.40	23.25	24.6	0.0
Channel								
Frequency (MHz)				503202	510598	510598		
40	QPSK	1	1	23.14	23.53	23.26	24.6	0.0
Channel								
Frequency (MHz)				502200	510598	510598		
30	QPSK	1	1	23.23	23.50	23.22	24.6	0.0
Channel								
Frequency (MHz)				501204	510598	510598		
20	QPSK	1	1	23.23	23.45	23.23	24.6	0.0

Part27Q_n78_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	Pi2 BPSK	1	1				23.12	
100	Pi2 BPSK	1	137				24.05	
100	Pi2 BPSK	1	271				23.53	
100	Pi2 BPSK	135	0				24.67	25.4
100	Pi2 BPSK	135	69				24.70	25.4
100	Pi2 BPSK	135	138				24.62	
100	Pi2 BPSK	270	0				24.62	25.4
100	Pi2 BPSK	270	0				24.62	
100	QPSK	1	1				23.98	
100	QPSK	1	137				24.72	25.4
100	QPSK	1	271				23.99	
100	QPSK	135	0				24.64	
100	QPSK	135	69				24.70	25.4
100	QPSK	135	138				24.60	
100	QPSK	270	0				24.56	24.9
100	16QAM	1	1				23.21	24.4
100	64QAM	1	1				23.25	24.4
100	256QAM	1	1				22.34	23.9
Channel								
Frequency (MHz)				633000	633332	633666		
90	QPSK	1	1	23.96	23.85	23.71	25.4	0.0
Channel								
Frequency (MHz)				632000	633332	633666		
80	QPSK	1	1	23.81	23.79	23.62	25.4	0.0
Channel								
Frequency (MHz)				631000	633332	633666		
60	QPSK	1	1	23.86	23.98	23.62	25.4	0.0
Channel								
Frequency (MHz)				631334	633332	633332		
50	QPSK	1	1	24.06	24.11	23.95	25.4	0.0
Channel								
Frequency (MHz)				631134	633332	633332		
40	QPSK	1	1	23.90	23.92	23.80	25.4	0.0
Channel								
Frequency (MHz)				631000	633332	633666		
30	QPSK	1	1	23.89	24.12	24.00	25.4	0.0
Channel								
Frequency (MHz)				630666	633332	630000		
20	QPSK	1	1	24.50	24.26	24.04	25.4	0.0



Part27Q_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	26.31	3499.98				
100	PI2 BPSK	1	137	26.96			28.4	0.0	
100	PI2 BPSK	1	271	26.57					
100	PI2 BPSK	136	0	26.87			27.9	0.5	
100	PI2 BPSK	136	69	26.92			28.4	0.0	
100	PI2 BPSK	136	138	26.81			27.9	0.5	
100	PI2 BPSK	270	0	26.94					
100	QPSK	1	1	26.65			28.4	0.0	
100	QPSK	1	137	26.97					
100	QPSK	1	271	26.82					
100	QPSK	136	0	26.94			28.4	0.0	
100	QPSK	136	69	26.95					
100	QPSK	136	138	26.51					
100	QPSK	270	0	26.92			27.4	1.0	
100	16QAM	1	1	26.63			27.4	1.0	
100	64QAM	1	1	24.37			25.9	2.5	
100	256QAM	1	1	22.33			23.9	4.3	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3495	3499.98	3504.98			
90	QPSK	1	1	26.75	26.63	26.60	28.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3499.98	3510			
80	QPSK	1	1	26.90	26.89	26.82	28.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3490	3499.98	3519.99			
60	QPSK	1	1	26.66	26.73	26.70	28.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3495	3499.98	3505			
50	QPSK	1	1	26.65	26.67	26.58	28.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3492.01	3499.98	3509.98			
40	QPSK	1	1	26.79	26.80	26.73	28.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3495	3499.98	3505			
30	QPSK	1	1	26.87	26.82	26.78	28.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3492.02	3499.98	3500			
20	QPSK	1	1	26.92	26.85	26.90	28.4	0.0	

Part27Q_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.34	3750				
100	PI2 BPSK	1	137	24.39			25.4	0.0	
100	PI2 BPSK	1	271	23.53					
100	PI2 BPSK	136	0	24.14			25.4	0.0	
100	PI2 BPSK	136	69	24.36			25.4	0.0	
100	PI2 BPSK	136	138	24.12			25.4	0.0	
100	PI2 BPSK	270	0	24.19					
100	QPSK	1	1	23.20			25.4	0.0	
100	QPSK	1	137	24.40					
100	QPSK	1	271	23.54					
100	QPSK	136	0	24.06			25.4	0.0	
100	QPSK	136	69	24.37					
100	QPSK	136	138	24.21					
100	QPSK	270	0	24.22			24.9	0.0	
100	16QAM	1	1	22.95			24.4	1.0	
100	64QAM	1	1	23.03			24.4	1.0	
100	256QAM	1	1	22.00			23.9	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98			
90	QPSK	1	1	23.87	23.60	23.72	25.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99			
80	QPSK	1	1	23.68	23.75	23.72	25.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3740	3750	3759.99			
60	QPSK	1	1	23.68	23.67	23.75	25.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3740.00	3750	3760			
50	QPSK	1	1	23.85	23.98	24.02	25.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3730	3750	3760			
40	QPSK	1	1	23.78	23.85	23.97	25.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3730	3750	3760			
30	QPSK	1	1	24.17	24.05	23.85	25.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3720	3750	3760			
20	QPSK	1	1	24.07	24.21	24.11	25.4	0.0	

Part27Q_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.52	3750				
100	PI2 BPSK	1	137	27.30			28.4	0.0	
100	PI2 BPSK	1	271	26.53					
100	PI2 BPSK	136	0	26.75			27.6	0.5	
100	PI2 BPSK	136	69	27.32			28.4	0.0	
100	PI2 BPSK	136	138	26.95			27.9	0.5	
100	PI2 BPSK	270	0	26.70					
100	QPSK	1	1	25.89			28.4	0.0	
100	QPSK	1	137	27.42					
100	QPSK	1	271	26.53					
100	QPSK	136	0	26.54			28.4	0.0	
100	QPSK	136	69	27.40					
100	QPSK	136	138	26.53					
100	QPSK	270	0	26.27			27.4	1.0	
100	16QAM	1	1	25.97			27.4	1.0	
100	64QAM	1	1	24.04			25.9	2.5	
100	256QAM	1	1	22.08			23.9	4.3	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98			
90	QPSK	1	1	26.52	26.57	26.65	28.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99			
80	QPSK	1	1	26.60	26.62	26.73	28.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3740	3750	3759.99			
60	QPSK	1	1	26.70	26.73	26.84	28.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3740.00	3750	3760			
50	QPSK	1	1	26.89	27.02	27.11	28.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3730	3750	3760			
40	QPSK	1	1	26.65	26.70	26.77	28.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3730	3750	3760			
30	QPSK	1	1	27.01	26.96	26.87	28.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3720	3750	3760			
20	QPSK	1	1	27.00	27.12	26.89	28.4	0.0	



Part27Q_n78_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	21.5	3499.98				
100	Pi2 BPSK	1	137	22.33			23.3	0.0	
100	Pi2 BPSK	1	271	21.31					
100	Pi2 BPSK	125	0	22.21			23.3	0.0	
100	Pi2 BPSK	135	69	22.30			23.3	0.0	
100	Pi2 BPSK	135	138	22.15					
100	Pi2 BPSK	270	0	22.17			23.3	0.0	
100	QPSK	1	1	21.65					
100	QPSK	1	137	22.35			23.3	0.0	
100	QPSK	1	271	21.34					
100	QPSK	125	0	22.26					
100	QPSK	135	69	22.32			23.3	0.0	
100	QPSK	135	138	22.09					
100	QPSK	270	0	22.25			22.8	0.5	
100	16QAM	1	1	21.64			22.3	1.0	
100	64QAM	1	1	21.60			22.3	1.0	
100	256QAM	1	1	20.42			21.8	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.54	21.55	21.57	23.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.68	21.70	21.76	23.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.84	21.88	21.89	23.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.89	21.96	21.92	23.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.77	21.72	21.71	23.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.95	21.91	21.88	23.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.09	22.05	21.97	23.3	0.0	

Part27Q_n78(HPUE)_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	24.52	3499.98				
100	Pi2 BPSK	1	137	25.28			26.3	0.0	
100	Pi2 BPSK	1	271	24.34					
100	Pi2 BPSK	125	0	24.79			26.8	0.5	
100	Pi2 BPSK	135	69	25.12			26.3	0.0	
100	Pi2 BPSK	135	138	24.64					
100	Pi2 BPSK	270	0	24.74			25.8	0.5	
100	QPSK	1	1	24.621					
100	QPSK	1	137	25.32			26.3	0.0	
100	QPSK	1	271	24.30					
100	QPSK	125	0	24.31					
100	QPSK	135	69	25.30			26.3	0.0	
100	QPSK	135	138	24.32					
100	QPSK	270	0	24.21			26.3	1.0	
100	16QAM	1	1	23.74			26.3	1.0	
100	64QAM	1	1	22.35			23.8	2.5	
100	256QAM	1	1	20.24			21.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.53	24.45	24.44	26.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.65	24.63	24.62	26.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.79	24.72	24.70	26.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.87	24.84	24.81	26.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.64	24.62	24.61	26.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.86	24.81	24.79	26.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.97	24.94	24.92	26.3	0.0	



Part270_n78_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	21.02	3750		
100	Pi2 BPSK	1	137	21.94		23.3	0.0
100	Pi2 BPSK	1	271	21.00			
100	Pi2 BPSK	135	0	21.86		23.3	0.0
100	Pi2 BPSK	135	69	21.90		23.3	0.0
100	Pi2 BPSK	135	138	21.82		23.3	0.0
100	Pi2 BPSK	270	0	21.71			
100	QPSK	1	1	21.01			
100	QPSK	1	137	21.97		23.3	0.0
100	QPSK	1	271	21.03			
100	QPSK	135	0	21.87			
100	QPSK	135	69	21.94		23.3	0.0
100	QPSK	135	138	21.75			
100	QPSK	270	0	21.78		22.9	0.8
100	16QAM	1	1	20.82		22.3	1.0
100	16QAM	1	1	20.84		22.3	1.0
100	256QAM	1	1	19.73		21.8	1.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	21.04	3750	3754.98	23.3
Channel							
Frequency (MHz)							
80	QPSK	1	1	21.01	3750	3759.99	23.3
Channel							
Frequency (MHz)							
60	QPSK	1	1	21.39	3750	3769.98	23.3
Channel							
Frequency (MHz)							
50	QPSK	1	1	21.44	3750	3769.98	23.3
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.31	3750	3769.98	23.3
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.47	3750	3769.99	23.3
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.58	3750	3769.99	23.3

Part270_n78(HPUE)_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	24.01	3750		
100	Pi2 BPSK	1	137	24.97		26.3	0.0
100	Pi2 BPSK	1	271	24.03			
100	Pi2 BPSK	135	0	24.19		26.8	0.5
100	Pi2 BPSK	135	69	24.95		26.3	0.0
100	Pi2 BPSK	135	138	24.22		26.8	0.5
100	Pi2 BPSK	270	0	24.24			
100	QPSK	1	1	24.03			
100	QPSK	1	137	25.00		26.3	0.0
100	QPSK	1	271	24.05			
100	QPSK	135	0	24.04			
100	QPSK	135	69	24.97		26.3	0.0
100	QPSK	135	138	24.03			
100	QPSK	270	0	24.78		26.3	1.0
100	16QAM	1	1	23.15		25.3	1.0
100	16QAM	1	1	21.60		21.8	2.5
100	256QAM	1	1	19.31		21.8	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.12	3750	3754.98	26.3
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.21	3750	3759.99	26.3
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.51	3750	3769.98	26.3
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.81	3750	3769.98	26.3
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.29	3750	3769.98	26.3
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.55	3750	3769.99	26.3
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.74	3750	3769.99	26.3



Part27Q_n78_Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	22.70	349.98		
100	Pi2 BPSK	1	137	23.79		24.5	0.0
100	Pi2 BPSK	1	271	22.81			
100	Pi2 BPSK	135	0	23.36		24.5	0.0
100	Pi2 BPSK	135	69	23.07		24.5	0.0
100	Pi2 BPSK	135	138	23.46			
100	Pi2 BPSK	270	0	23.37		24.5	0.0
100	QPSK	1	1	22.84			
100	QPSK	1	137	23.82		24.5	0.0
100	QPSK	1	271	22.90			
100	QPSK	135	0	23.67			
100	QPSK	135	69	23.80		24.5	0.0
100	QPSK	135	138	23.73			
100	QPSK	270	0	23.72		24.0	0.8
100	16QAM	1	1	22.69		23.5	1.0
100	64QAM	1	1	22.71		23.5	1.0
100	256QAM	1	1	22.13		23.0	1.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.64	349.98	3504.98	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.80	22.81	22.85	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.94	23.00	23.03	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.11	23.16	23.19	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.40	23.42	23.45	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.13	23.18	23.24	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.60	23.63	23.69	24.5

Part27Q_n78(HPUE)_Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	25.76	349.98		
100	Pi2 BPSK	1	137	26.72		27.5	0.0
100	Pi2 BPSK	1	271	25.71			
100	Pi2 BPSK	135	0	25.99		27.0	0.5
100	Pi2 BPSK	135	69	25.71		27.5	0.0
100	Pi2 BPSK	135	138	25.05			
100	Pi2 BPSK	270	0	25.99		27.0	0.5
100	QPSK	1	1	25.84			
100	QPSK	1	137	26.78		27.5	0.0
100	QPSK	1	271	25.91			
100	QPSK	135	0	26.20			
100	QPSK	135	69	26.75		27.5	0.0
100	QPSK	135	138	26.27			
100	QPSK	270	0	26.16		26.5	1.0
100	16QAM	1	1	25.50		25.5	1.0
100	64QAM	1	1	25.97		25.0	2.5
100	256QAM	1	1	21.92		23.0	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.88	349.98	3504.99	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.71	25.74	25.77	27.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.98	26.00	26.05	27.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	26.01	26.07	26.09	27.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.82	25.91	25.94	27.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	26.34	26.40	26.48	27.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	26.53	26.55	26.59	27.5



Part270_n78_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.87	3750				
100	Pi2 BPSK	1	137	23.72			24.5	0.0	
100	Pi2 BPSK	1	271	23.02					
100	Pi2 BPSK	135	0	23.54			24.5	0.0	
100	Pi2 BPSK	135	69	23.70			24.5	0.0	
100	Pi2 BPSK	135	138	23.81			24.5	0.0	
100	Pi2 BPSK	270	0	23.54					
100	QPSK	1	1	22.75					
100	QPSK	1	137	23.78			24.5	0.0	
100	QPSK	1	271	22.78					
100	QPSK	135	0	23.45					
100	QPSK	135	69	23.73			24.5	0.0	
100	QPSK	135	138	23.57					
100	QPSK	270	0	23.53			24.0	0.5	
100	16QAM	1	1	22.42			23.5	1.0	
100	64QAM	1	1	22.43			23.5	1.0	
100	256QAM	1	1	21.95			23.0	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.61	3750	3754.98	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.81	3750	3759.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.04	3750	3763.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.23	3750	3767.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.01	3750	3769.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.25	3750	3773.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.41	3750	3779.99	Tune-up limit (dBm)	MPR (dB)	

Part270_n78(HPUE)_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	25.70	3750				
100	Pi2 BPSK	1	137	26.78			27.5	0.0	
100	Pi2 BPSK	1	271	25.89					
100	Pi2 BPSK	135	0	26.01			27.0	0.5	
100	Pi2 BPSK	135	69	26.75			27.5	0.0	
100	Pi2 BPSK	135	138	26.14			27.0	0.5	
100	Pi2 BPSK	270	0	26.13					
100	QPSK	1	1	25.67					
100	QPSK	1	137	26.80			27.5	0.0	
100	QPSK	1	271	25.71					
100	QPSK	135	0	26.00					
100	QPSK	135	69	26.78			27.5	0.0	
100	QPSK	135	138	26.09					
100	QPSK	270	0	26.06			26.5	1.0	
100	16QAM	1	1	25.38			26.5	1.0	
100	64QAM	1	1	25.79			25.0	2.5	
100	256QAM	1	1	21.62			23.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.91	3750	3754.98	25.92	27.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.01	3750	3759.99	26.08	27.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.23	3750	3763.98	26.27	27.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.44	3750	3767.98	26.51	27.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.18	3750	3769.98	26.22	27.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.45	3750	3773.98	26.52	27.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.62	3750	3779.99	26.65	27.5	0.0



Part27Q_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633332	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		19.84	3499.98			
100	Pi2 BPSK	1	137		20.95		21.8	0.0	
100	Pi2 BPSK	1	271		19.80				
100	Pi2 BPSK	125	0		20.63		21.8	0.0	
100	Pi2 BPSK	135	69		20.92		21.8	0.0	
100	Pi2 BPSK	135	138		20.51		21.8	0.0	
100	Pi2 BPSK	270	0		20.51				
100	QPSK	1	1		19.26				
100	QPSK	1	137		20.98		21.8	0.0	
100	QPSK	1	271		20.01				
100	QPSK	135	0		20.74				
100	QPSK	135	69		20.95		21.8	0.0	
100	QPSK	135	138		20.76				
100	QPSK	270	0		20.70		21.9	0.0	
100	16QAM	1	1		19.81	1.0	20.8	1.0	
100	64QAM	1	1		19.84		20.8	1.0	
100	256QAM	1	1		18.82		20.3	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.05	20.11	20.07	21.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.18	20.20	20.25	21.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.41	20.43	20.42	21.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.53	20.54	20.52	21.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.31	20.35	20.34	21.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.46	20.51	20.48	21.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.62	20.63	20.64	21.8	0.0	

Part27Q_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633332	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		22.00	3499.98			
100	Pi2 BPSK	1	137		23.90		24.8	0.0	
100	Pi2 BPSK	1	271		22.86				
100	Pi2 BPSK	135	0		23.72		24.8	0.0	
100	Pi2 BPSK	135	69		23.87		24.8	0.0	
100	Pi2 BPSK	135	138		23.74		24.8	0.5	
100	Pi2 BPSK	270	0		23.77				
100	QPSK	1	1		21.00				
100	QPSK	1	137		23.95		24.8	0.0	
100	QPSK	1	271		23.00				
100	QPSK	135	0		23.20				
100	QPSK	135	69		23.93		24.8	0.0	
100	QPSK	135	138		23.84				
100	QPSK	270	0		23.84		23.8	1.0	
100	16QAM	1	1		22.52		23.8	1.0	
100	64QAM	1	1		20.76		22.3	2.5	
100	256QAM	1	1		18.77		20.3	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.24	23.22	23.21	24.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.42	23.40	23.39	24.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.58	23.56	23.52	24.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.76	23.72	23.71	24.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.49	23.45	23.43	24.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.66	23.64	23.61	24.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.88	23.81	23.78	24.8	0.0	



Part270_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	19.90	3750				
100	Pi2 BPSK	1	137	20.83			21.8	0.0	
100	Pi2 BPSK	1	271	19.84					
100	Pi2 BPSK	135	0	20.52			21.8	0.0	
100	Pi2 BPSK	135	69	20.80			21.8	0.0	
100	Pi2 BPSK	135	138	20.52			21.8	0.0	
100	Pi2 BPSK	270	0	20.50					
100	QPSK	1	1	19.95					
100	QPSK	1	137	20.85			21.8	0.0	
100	QPSK	1	271	19.81					
100	QPSK	135	0	20.74					
100	QPSK	135	69	20.82			21.8	0.0	
100	QPSK	135	138	20.59					
100	QPSK	270	0	20.67			21.9	0.0	
100	16QAM	1	1	19.72			20.8	1.0	
100	64QAM	1	1	19.76			20.6	1.0	
100	256QAM	1	1	18.80			20.3	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98		21.8	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99		21.8	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.41	20.39	20.40	21.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.44	20.44	20.46	21.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	6489.98	65000	65199.02		MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.63	20.60	20.62	21.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.38	20.34	20.36	21.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	6476.98	65000	65232.02		MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.58	20.56	20.57	21.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	6473.34	65000	65266.66		MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.71	20.66	20.63	21.8	0.0	

Part270_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.92	3750				
100	Pi2 BPSK	1	137	23.77			24.8	0.0	
100	Pi2 BPSK	1	271	22.81					
100	Pi2 BPSK	135	0	23.96			24.8	0.0	
100	Pi2 BPSK	135	69	23.53			24.8	0.0	
100	Pi2 BPSK	135	138	23.44			24.8	0.5	
100	Pi2 BPSK	270	0	23.49					
100	QPSK	1	1	22.88					
100	QPSK	1	137	23.79			24.8	0.0	
100	QPSK	1	271	22.82					
100	QPSK	135	0	22.80					
100	QPSK	135	69	23.75			24.8	0.0	
100	QPSK	135	138	22.85					
100	QPSK	270	0	22.86			24.8	1.0	
100	16QAM	1	1	22.15			23.6	1.0	
100	64QAM	1	1	20.61			22.3	2.5	
100	256QAM	1	1	18.80			20.3	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98		24.8	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99		24.8	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.01	23.07	23.14	24.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.22	23.24	23.35	24.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	6489.98	65000	65199.02		MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.38	20.34	20.36	24.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.05	20.12	20.14	24.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	6476.98	65000	65232.02		MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.44	20.50	20.53	24.8	0.0	



n5_Ant 0							
BW (MHz)	Modulation	RF Symb	FE Dfwd	Power Level Ch. Freq.	Power Level Pilot Ch. Freq.	Power Level Pilot Ch. Freq.	Time- up Int. (min)
Channel							
Frequency (MHz)				5600	5600	5600	
20	FBQ-SSB	1	1	24.03	24.08	24.09	20.0
20	FBQ-SSB	1	1	24.24	24.29	24.31	20.0
20	FBQ-SSB	1	1	24.30	24.35	24.37	20.0
20	FBQ-SSB	1	1	24.39	24.45	24.47	20.0
20	FBQ-SSB	1	1	24.45	24.50	24.52	20.0
20	FBQ-SSB	1	1	24.51	24.56	24.58	20.0
20	FBQ-SSB	1	1	24.57	24.62	24.64	20.0
20	FBQ-SSB	1	1	24.63	24.68	24.70	20.0
20	FBQ-SSB	1	1	24.69	24.74	24.76	20.0
20	FBQ-SSB	1	1	24.75	24.80	24.82	20.0
20	FBQ-SSB	1	1	24.81	24.86	24.88	20.0
20	FBQ-SSB	1	1	24.87	24.92	24.94	20.0
20	FBQ-SSB	1	1	24.93	24.98	25.00	20.0
20	FBQ-SSB	1	1	25.00	25.05	25.07	20.0
20	FBQ-SSB	1	1	25.06	25.11	25.13	20.0
20	FBQ-SSB	1	1	25.12	25.17	25.19	20.0
20	FBQ-SSB	1	1	25.18	25.23	25.25	20.0
20	FBQ-SSB	1	1	25.24	25.29	25.31	20.0
20	FBQ-SSB	1	1	25.30	25.35	25.37	20.0
20	FBQ-SSB	1	1	25.36	25.41	25.43	20.0
20	FBQ-SSB	1	1	25.42	25.47	25.49	20.0
20	FBQ-SSB	1	1	25.48	25.53	25.55	20.0
20	FBQ-SSB	1	1	25.54	25.59	25.61	20.0
20	FBQ-SSB	1	1	25.60	25.65	25.67	20.0
20	FBQ-SSB	1	1	25.66	25.71	25.73	20.0
20	FBQ-SSB	1	1	25.72	25.77	25.79	20.0
20	FBQ-SSB	1	1	25.78	25.83	25.85	20.0
20	FBQ-SSB	1	1	25.84	25.89	25.91	20.0
20	FBQ-SSB	1	1	25.90	25.95	25.97	20.0
20	FBQ-SSB	1	1	25.96	26.01	26.03	20.0
20	FBQ-SSB	1	1	26.02	26.07	26.09	20.0
20	FBQ-SSB	1	1	26.08	26.13	26.15	20.0
20	FBQ-SSB	1	1	26.14	26.19	26.21	20.0
20	FBQ-SSB	1	1	26.20	26.25	26.27	20.0
20	FBQ-SSB	1	1	26.26	26.31	26.33	20.0
20	FBQ-SSB	1	1	26.32	26.37	26.39	20.0
20	FBQ-SSB	1	1	26.38	26.43	26.45	20.0
20	FBQ-SSB	1	1	26.44	26.49	26.51	20.0
20	FBQ-SSB	1	1	26.50	26.55	26.57	20.0
20	FBQ-SSB	1	1	26.56	26.61	26.63	20.0
20	FBQ-SSB	1	1	26.62	26.67	26.69	20.0
20	FBQ-SSB	1	1	26.68	26.73	26.75	20.0
20	FBQ-SSB	1	1	26.74	26.79	26.81	20.0
20	FBQ-SSB	1	1	26.80	26.85	26.87	20.0
20	FBQ-SSB	1	1	26.86	26.91	26.93	20.0
20	FBQ-SSB	1	1	26.92	26.97	26.99	20.0
20	FBQ-SSB	1	1	26.98	27.03	27.05	20.0
20	FBQ-SSB	1	1	27.04	27.09	27.11	20.0
20	FBQ-SSB	1	1	27.10	27.15	27.17	20.0
20	FBQ-SSB	1	1	27.16	27.21	27.23	20.0
20	FBQ-SSB	1	1	27.22	27.27	27.29	20.0
20	FBQ-SSB	1	1	27.28	27.33	27.35	20.0
20	FBQ-SSB	1	1	27.34	27.39	27.41	20.0
20	FBQ-SSB	1	1	27.40	27.45	27.47	20.0
20	FBQ-SSB	1	1	27.46	27.51	27.53	20.0
20	FBQ-SSB	1	1	27.52	27.57	27.59	20.0
20	FBQ-SSB	1	1	27.58	27.63	27.65	20.0
20	FBQ-SSB	1	1	27.64	27.69	27.71	20.0
20	FBQ-SSB	1	1	27.70	27.75	27.77	20.0
20	FBQ-SSB	1	1	27.76	27.81	27.83	20.0
20	FBQ-SSB	1	1	27.82	27.87	27.89	20.0
20	FBQ-SSB	1	1	27.88	27.93	27.95	20.0
20	FBQ-SSB	1	1	27.94	27.99	28.01	20.0
20	FBQ-SSB	1	1	28.00	28.05	28.07	20.0
20	FBQ-SSB	1	1	28.06	28.11	28.13	20.0
20	FBQ-SSB	1	1	28.12	28.17	28.19	20.0
20	FBQ-SSB	1	1	28.18	28.23	28.25	20.0
20	FBQ-SSB	1	1	28.24	28.29	28.31	20.0
20	FBQ-SSB	1	1	28.30	28.35	28.37	20.0
20	FBQ-SSB	1	1	28.36	28.41	28.43	20.0
20	FBQ-SSB	1	1	28.42	28.47	28.49	20.0
20	FBQ-SSB	1	1	28.48	28.53	28.55	20.0
20	FBQ-SSB	1	1	28.54	28.59	28.61	20.0
20	FBQ-SSB	1	1	28.60	28.65	28.67	20.0
20	FBQ-SSB	1	1	28.66	28.71	28.73	20.0
20	FBQ-SSB	1	1	28.72	28.77	28.79	20.0
20	FBQ-SSB	1	1	28.78	28.83	28.85	20.0
20	FBQ-SSB	1	1	28.84	28.89	28.91	20.0
20	FBQ-SSB	1	1	28.90	28.95	28.97	20.0
20	FBQ-SSB	1	1	28.96	29.01	29.03	20.0
20	FBQ-SSB	1	1	29.02	29.07	29.09	20.0
20	FBQ-SSB	1	1	29.08	29.13	29.15	20.0
20	FBQ-SSB	1	1	29.14	29.19	29.21	20.0
20	FBQ-SSB	1	1	29.20	29.25	29.27	20.0
20	FBQ-SSB	1	1	29.26	29.31	29.33	20.0
20	FBQ-SSB	1	1	29.32	29.37	29.39	20.0
20	FBQ-SSB	1	1	29.38	29.43	29.45	20.0
20	FBQ-SSB	1	1	29.44	29.49	29.51	20.0
20	FBQ-SSB	1	1	29.50	29.55	29.57	20.0
20	FBQ-SSB	1	1	29.56	29.61	29.63	20.0
20	FBQ-SSB	1	1	29.62	29.67	29.69	20.0
20	FBQ-SSB	1	1	29.68	29.73	29.75	20.0
20	FBQ-SSB	1	1	29.74	29.79	29.81	20.0
20	FBQ-SSB	1	1	29.80	29.85	29.87	20.0
20	FBQ-SSB	1	1	29.86	29.91	29.93	20.0
20	FBQ-SSB	1	1	29.92	29.97	29.99	20.0
20	FBQ-SSB	1	1	29.98	30.03	30.05	20.0
20	FBQ-SSB	1	1	30.04	30.09	30.11	20.0
20	FBQ-SSB	1	1	30.10	30.15	30.17	20.0
20	FBQ-SSB	1	1	30.16	30.21	30.23	20.0
20	FBQ-SSB	1	1	30.22	30.27	30.29	20.0
20	FBQ-SSB	1	1	30.28	30.33	30.35	20.0
20	FBQ-SSB	1	1	30.34	30.39	30.41	20.0
20	FBQ-SSB	1	1	30.40	30.45	30.47	20.0
20	FBQ-SSB	1	1	30.46	30.51	30.53	20.0
20	FBQ-SSB	1	1	30.52	30.57	30.59	20.0
20	FBQ-SSB	1	1	30.58	30.63	30.65	20.0
20	FBQ-SSB	1	1	30.64	30.69	30.71	20.0
20	FBQ-SSB	1	1	30.70	30.75	30.77	20.0
20	FBQ-SSB	1	1	30.76	30.81	30.83	20.0
20	FBQ-SSB	1	1	30.82	30.87	30.89	20.0
20	FBQ-SSB	1	1	30.88	30.93	30.95	20.0
20	FBQ-SSB	1	1	30.94	30.99	31.01	20.0
20	FBQ-SSB	1	1	31.00	31.05	31.07	20.0
20	FBQ-SSB	1	1	31.06	31.11	31.13	20.0
20	FBQ-SSB	1	1	31.12	31.17	31.19	20.0
20	FBQ-SSB	1	1	31.18	31.23	31.25	20.0
20	FBQ-SSB	1	1	31.24	31.29	31.31	20.0
20	FBQ-SSB	1	1	31.30	31.35	31.37	20.0
20	FBQ-SSB	1	1	31.36	31.41	31.43	20.0
20	FBQ-SSB	1	1	31.42	31.47	31.49	20.0
20	FBQ-SSB	1	1	31.48	31.53	31.55	20.0
20	FBQ-SSB	1	1	31.54	31.59	31.61	20.0
20	FBQ-SSB	1	1	31.60	31.65	31.67	20.0
20	FBQ-SSB	1	1	31.66	31.71	31.73	20.0
20	FBQ-SSB	1	1	31.72	31.77	31.79	20.0
20	FBQ-SSB	1	1	31.78	31.83	31.85	20.0
20	FBQ-SSB	1	1	31.84	31.89	31.91	20.0
20	FBQ-SSB	1	1	31.90	31.95	31.97	20.0
20	FBQ-SSB	1	1	31.96	32.01	32.03	20.0
20	FBQ-SSB	1	1	32.02	32.07	32.09	20.0
20	FBQ-SSB	1	1	32.08	32.13	32.15	20.0
20	FBQ-SSB	1	1	32.14	32.19	32.21	20.0
20	FBQ-SSB	1	1	32.20	32.25	32.27	20.0
20	FBQ-SSB	1	1	32.26	32.31	32.33	20.0
20	FBQ-SSB	1	1	32.32	32.37	32.39	20.0
20	FBQ-SSB	1	1	32.38	32.43	32.45	20.0
20	FBQ-SSB	1	1	32.44	32.49	32.51	20.0
20	FBQ-SSB	1	1	32.50	32.55	32.57	20.0
20	FBQ-SSB	1	1	32.56	32.61	32.63	20.0
20	FBQ-SSB	1	1	32.62	32.67	32.69	20.0
20	FBQ-SSB	1	1	32.68	32.73	32.75	20.0
20	FBQ-SSB	1	1	32.74	32.79	32.81	20.0
20	FBQ-SSB	1	1	32.80	32.85	32.87	20.0
20	FBQ-SSB	1	1	32.86	32.91	32.93	20.0
20	FBQ-SSB	1	1	32.			



n66_Ant 0										
SV (MHz)	Modulation	FE Size	FE Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Turnup Int. (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1	23.71	23.82	23.76	20.5	0.0		
40	P12 BPSK	1	1	24.22	24.22	24.22	20.5	0.0		
40	P12 BPSK	1	214	23.78	23.82	23.78	20.5	0.0		
40	P12 BPSK	106	5	23.77	23.82	23.88	20.5	0.0		
40	P12 BPSK	106	54	24.21	24.22	24.27	20.5	0.0		
40	P12 BPSK	106	108	23.83	23.87	23.90	20.5	0.0		
40	P12 BPSK	214	0	23.78	23.82	23.88	20.5	0.0		
40	QPSK	1	1	23.88	23.70	23.70	20.5	0.0		
40	QPSK	1	108	23.82	23.78	23.78	20.5	0.0		
40	QPSK	1	214	23.83	23.71	23.88	20.5	0.0		
40	QPSK	106	0	23.88	24.24	23.81	20.5	0.0		
40	QPSK	106	54	24.22	24.22	24.22	20.5	0.0		
40	QPSK	106	108	23.82	23.88	23.88	20.5	0.0		
40	16QAM	1	1	23.93	23.97	23.94	20.5	1.0		
40	16QAM	1	1	23.93	23.93	23.93	20.5	1.0		
40	16QAM	1	1	23.93	23.93	23.93	20.5	1.0		
40	256QAM	1	1	23.98	23.97	23.91	21.0	4.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.09	24.28	24.23	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.06	24.20	24.15	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.11	24.21	24.13	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.08	24.28	24.20	20.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	24.19	24.25	24.14	20.5	0.0		

n66_Ant 1										
SV (MHz)	Modulation	FE Size	FE Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Turnup Int. (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1	13.42	13.40	13.45	15.1	0.0		
40	P12 BPSK	1	106	13.34	13.38	13.34	15.1	0.0		
40	P12 BPSK	1	214	13.34	13.32	13.32	15.1	0.0		
40	P12 BPSK	106	5	13.31	13.32	13.30	15.1	0.0		
40	P12 BPSK	106	54	13.38	13.32	13.39	15.1	0.0		
40	P12 BPSK	106	108	13.38	13.32	13.38	15.1	0.0		
40	P12 BPSK	214	0	13.32	13.32	13.37	15.1	0.0		
40	QPSK	1	1	13.38	13.40	13.37	15.1	0.0		
40	QPSK	1	108	13.32	13.32	13.32	15.1	0.0		
40	QPSK	1	214	13.31	13.32	13.43	15.1	0.0		
40	QPSK	106	0	13.34	13.38	13.31	15.1	0.0		
40	QPSK	106	54	13.31	13.32	13.31	15.1	0.0		
40	QPSK	106	108	13.38	13.31	13.38	15.1	0.0		
40	16QAM	1	1	13.32	13.23	13.14	15.1	0.0		
40	16QAM	1	1	13.32	13.23	13.22	15.1	0.0		
40	256QAM	1	1	13.37	13.40	13.30	15.1	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	13.39	13.44	13.43	15.1	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	13.36	13.42	13.34	15.1	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.38	13.42	13.35	15.1	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.39	13.42	13.38	15.1	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	13.43	13.39	13.42	15.1	0.0		

n66_Ant 2										
SV (MHz)	Modulation	FE Size	FE Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Turnup Int. (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1	18.02	18.10	18.04	18.0	0.0		
40	P12 BPSK	1	106	18.07	18.02	18.02	18.0	0.0		
40	P12 BPSK	1	214	18.20	18.23	18.24	18.0	0.0		
40	P12 BPSK	106	5	18.18	18.07	18.13	18.0	0.0		
40	P12 BPSK	106	54	18.01	18.02	18.02	18.0	0.0		
40	P12 BPSK	106	108	18.02	18.02	18.06	18.0	0.0		
40	P12 BPSK	214	0	18.02	18.11	18.00	18.0	0.0		
40	QPSK	1	1	18.07	18.13	18.00	18.0	0.0		
40	QPSK	1	108	18.02	18.02	18.02	18.0	0.0		
40	QPSK	1	214	18.24	18.29	18.26	18.0	0.0		
40	QPSK	106	0	18.02	18.20	18.02	18.0	0.0		
40	QPSK	106	54	18.11	18.03	18.11	18.0	0.0		
40	QPSK	106	108	18.18	18.06	18.13	18.0	0.0		
40	16QAM	1	1	17.98	17.90	17.86	18.0	0.0		
40	16QAM	1	1	17.92	17.94	17.87	18.0	0.0		
40	256QAM	1	1	18.49	18.51	18.46	18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.06	18.10	18.06	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.96	18.02	17.91	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.01	18.04	17.95	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.04	18.12	17.93	18.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	17.92	18.11	17.92	18.0	0.0		

n66_Ant 3										
SV (MHz)	Modulation	FE Size	FE Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Turnup Int. (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1	22.41	22.33	22.49	23.7	0.0		
40	P12 BPSK	1	106	22.36	22.41	22.36	23.7	0.0		
40	P12 BPSK	1	214	22.38	22.32	22.44	23.7	0.0		
40	P12 BPSK	106	5	22.32	22.32	22.36	23.7	0.0		
40	P12 BPSK	106	54	22.41	22.32	22.32	23.7	0.0		
40	P12 BPSK	106	108	22.36	22.32	22.41	23.7	0.0		
40	P12 BPSK	214	0	22.38	22.36	22.31	23.7	0.0		
40	QPSK	1	1	22.39	22.42	22.39	23.7	0.0		
40	QPSK	1	108	22.32	22.32	22.32	23.7	0.0		
40	QPSK	1	214	22.46	22.33	22.44	23.7	0.0		
40	QPSK	106	0	22.32	22.42	22.31	23.7	0.0		
40	QPSK	106	54	22.41	22.32	22.31	23.7	0.0		
40	QPSK	106	108	22.32	22.32	22.36	23.7	0.0		
40	16QAM	1	1	22.14	21.97	21.16	22.7	1.0		
40	16QAM	1	1	22.02	22.11	21.24	21.2	2.0		
40	256QAM	1	1	22.14	22.30	22.30	23.7	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.36	22.36	22.41	23.7	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.34	22.36	22.31	23.7	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.37	22.36	22.36	23.7	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.38	22.32	22.42	23.7	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.10	21.97	21.93	23.7	0.0		



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 519000	Power Middle Ch. / Freq. / 519000	Power High Ch. / Freq. / 519998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	21.93	22.03	21.91			
40	P12 BPSK	1	53	22.43	22.52	22.42	23.5	0.0	
40	P12 BPSK	1	104	22.01	22.09	21.98			
40	P12 BPSK	50	0	22.23	22.26	22.30	23.5	0.0	
40	P12 BPSK	50	28	22.44	22.56	22.43	23.5	0.0	
40	P12 BPSK	50	56	22.25	22.36	22.27	23.5	0.0	
40	P12 BPSK	100	0	22.37	22.45	22.33			
40	QPSK	1	1	21.94	22.04	22.02	23.5	0.0	
40	QPSK	1	53	22.51	22.58	22.50			
40	QPSK	1	104	21.97	22.07	22.01			
40	QPSK	50	0	22.34	22.38	22.28	23.5	0.0	
40	QPSK	50	28	22.45	22.55	22.53	23.5	0.0	
40	QPSK	50	56	22.34	22.42	22.35			
40	QPSK	100	0	22.29	22.31	22.35	23.5	0.0	
40	16QAM	1	1	21.96	21.77	21.65	23.5	0.0	
40	64QAM	1	1	21.36	21.39	21.31	23.0	0.5	
40	256QAM	1	1	19.82	19.83	19.84	21.0	2.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.89	21.98	21.87	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.87	21.96	21.81	23.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 519004	Power Middle Ch. / Freq. / 519000	Power High Ch. / Freq. / 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	15.44	15.50	15.52			
40	P12 BPSK	1	53	15.97	16.00	15.94	17.4	0.0	
40	P12 BPSK	1	104	15.49	15.56	15.49			
40	P12 BPSK	50	0	15.86	15.94	15.83	17.4	0.0	
40	P12 BPSK	50	28	16.04	16.06	16.03	17.4	0.0	
40	P12 BPSK	50	56	15.81	15.91	15.89	17.4	0.0	
40	P12 BPSK	100	0	15.84	15.86	15.85			
40	QPSK	1	1	15.62	15.69	15.62	17.4	0.0	
40	QPSK	1	53	16.04	16.09	16.03			
40	QPSK	1	104	15.47	15.53	15.43			
40	QPSK	50	0	15.83	15.83	15.81	17.4	0.0	
40	QPSK	50	28	16.02	16.06	16.07			
40	QPSK	50	56	15.81	15.92	15.89			
40	QPSK	100	0	15.96	16.06	15.99	17.4	0.0	
40	16QAM	1	1	15.45	15.43	15.42	17.4	0.0	
40	64QAM	1	1	15.51	15.41	15.44	17.4	0.0	
40	256QAM	1	1	15.97	16.04	15.92	17.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.41	15.45	15.44	17.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.43	15.54	15.40	17.4	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 519004	Power Middle Ch. / Freq. / 519000	Power High Ch. / Freq. / 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	15.23	15.25	15.25			
40	P12 BPSK	1	53	15.45	15.59	15.54	17.2	0.0	
40	P12 BPSK	1	104	15.26	15.30	15.21			
40	P12 BPSK	50	0	15.43	15.51	15.47	17.2	0.0	
40	P12 BPSK	50	28	15.54	15.60	15.46	17.2	0.0	
40	P12 BPSK	50	56	15.51	15.59	15.48	17.2	0.0	
40	P12 BPSK	100	0	15.40	15.49	15.44			
40	QPSK	1	1	15.23	15.27	15.23			
40	QPSK	1	53	15.57	15.65	15.55	17.2	0.0	
40	QPSK	1	104	15.27	15.35	15.32			
40	QPSK	50	0	15.42	15.48	15.42			
40	QPSK	50	28	15.53	15.65	15.54	17.2	0.0	
40	QPSK	50	56	15.46	15.60	15.48			
40	QPSK	100	0	15.46	15.61	15.47	17.2	0.0	
40	16QAM	1	1	15.23	15.31	15.28	17.2	0.0	
40	64QAM	1	1	15.25	15.30	15.26	17.2	0.0	
40	256QAM	1	1	15.97	16.47	15.96	17.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.24	15.28	15.28	17.2	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.28	15.27	15.29	17.2	0.0	



n38_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	MPR (dB)
Channel							
Frequency (MHz)				2560.02	2595	2599.98	
40	P1/2 BPSK	1	1	22.01	22.02	22.93	
40	P1/2 BPSK	1	53	23.92	23.92	23.94	24.6
40	P1/2 BPSK	1	104	23.03	23.18	23.11	
40	P1/2 BPSK	50	0	22.67	22.83	22.72	24.1
40	P1/2 BPSK	50	28	23.36	23.51	23.43	24.6
40	P1/2 BPSK	50	56	22.78	22.93	22.77	24.1
40	P1/2 BPSK	100	0	22.83	22.96	22.87	
40	QPSK	1	1	22.92	22.95	22.87	
40	QPSK	1	53	23.47	23.56	23.54	24.6
40	QPSK	1	104	22.99	23.08	22.92	
40	QPSK	50	0	22.97	23.35	22.96	
40	QPSK	50	28	23.47	23.51	23.42	24.6
40	QPSK	50	56	22.35	22.41	22.24	
40	QPSK	100	0	22.34	22.47	22.31	23.8
40	16QAM	1	1	21.74	21.82	21.71	23.6
40	64QAM	1	1	20.17	20.34	20.31	22.1
40	256QAM	1	1	18.86	18.92	18.90	20.1
Channel							
Frequency (MHz)				2565.01	2595	2604.98	
30	QPSK	1	1	23.42	23.38	23.43	24.6
Channel							
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	1	23.36	23.43	23.41	24.6

n41_FCC_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	MPR (dB)
Channel							
Frequency (MHz)				2545.01	2592.99	2640	
100	P1/2 BPSK	1	1	21.70	21.71	21.69	
100	P1/2 BPSK	1	137	22.45	22.55	22.48	23.5
100	P1/2 BPSK	1	271	21.73	21.75	21.69	
100	P1/2 BPSK	135	0	22.32	22.37	22.28	23.5
100	P1/2 BPSK	135	69	22.60	22.62	22.48	23.5
100	P1/2 BPSK	135	138	22.31	22.43	22.35	23.5
100	P1/2 BPSK	270	0	22.34	22.42	22.35	
100	QPSK	1	1	21.66	21.67	21.66	
100	QPSK	1	137	22.50	22.63	22.52	23.5
100	QPSK	1	271	21.71	21.79	21.79	
100	QPSK	135	0	22.32	22.37	22.34	
100	QPSK	135	69	22.60	22.61	22.53	23.5
100	QPSK	135	138	22.33	22.42	22.35	
100	QPSK	270	0	22.31	22.36	22.23	23.5
100	16QAM	1	1	21.62	21.61	21.64	23.5
100	64QAM	1	1	21.71	21.80	21.77	23.0
100	256QAM	1	1	19.51	19.54	19.50	21.0
Channel							
Frequency (MHz)				2641	2692.99	2644.98	
90	QPSK	1	1	21.53	21.61	21.60	23.5
Channel							
Frequency (MHz)				2636.02	2692.99	2649.99	
80	QPSK	1	1	21.57	21.56	21.52	23.5
Channel							
Frequency (MHz)				2636.00	2692.99	2649.98	
60	QPSK	1	1	21.55	21.51	21.51	23.5
Channel							
Frequency (MHz)				2642.04	2692.99	2649.98	
50	QPSK	1	1	21.55	21.52	21.51	23.5
Channel							
Frequency (MHz)				2638.03	2692.99	2649.98	
40	QPSK	1	1	21.60	21.60	21.60	23.5
Channel							
Frequency (MHz)				2620.00	2692.99	2649.98	
30	QPSK	1	1	21.58	21.58	21.52	23.5
Channel							
Frequency (MHz)				2612.04	2692.99	2649.98	
20	QPSK	1	1	21.52	21.52	21.55	23.5

n41_FCC_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	MPR (dB)
Channel							
Frequency (MHz)				2545.01	2592.99	2640	
100	P1/2 BPSK	1	1	15.93	15.92	15.94	
100	P1/2 BPSK	1	137	15.96	16.11	16.09	17.4
100	P1/2 BPSK	1	271	15.42	15.41	15.44	
100	P1/2 BPSK	135	0	16.00	16.05	15.96	17.4
100	P1/2 BPSK	135	69	16.04	16.10	15.95	17.4
100	P1/2 BPSK	135	138	15.82	15.89	15.89	17.4
100	P1/2 BPSK	270	0	15.84	15.94	15.87	
100	QPSK	1	1	15.90	15.96	15.95	
100	QPSK	1	137	16.11	16.15	16.04	17.4
100	QPSK	1	271	15.42	15.47	15.45	
100	QPSK	135	0	15.95	16.01	15.95	
100	QPSK	135	69	16.00	16.11	15.98	17.4
100	QPSK	135	138	15.85	15.88	15.80	
100	QPSK	270	0	15.78	16.07	15.91	17.4
100	16QAM	1	1	15.85	15.43	15.48	17.4
100	64QAM	1	1	15.40	15.43	15.44	17.4
100	256QAM	1	1	15.89	15.90	15.77	17.4
Channel							
Frequency (MHz)				2641	2692.99	2644.98	
90	QPSK	1	1	15.50	15.58	15.48	17.4
Channel							
Frequency (MHz)				2636.02	2692.99	2649.99	
80	QPSK	1	1	15.54	15.50	15.53	17.4
Channel							
Frequency (MHz)				2636.00	2692.99	2649.98	
60	QPSK	1	1	15.50	15.52	15.52	17.4
Channel							
Frequency (MHz)				2642.04	2692.99	2649.98	
50	QPSK	1	1	15.56	15.46	15.51	17.4
Channel							
Frequency (MHz)				2638.03	2692.99	2649.98	
40	QPSK	1	1	15.52	15.51	15.49	17.4
Channel							
Frequency (MHz)				2620.00	2692.99	2649.98	
30	QPSK	1	1	15.56	15.57	15.41	17.4
Channel							
Frequency (MHz)				2612.04	2692.99	2649.98	
20	QPSK	1	1	15.43	15.51	15.47	17.4



n41_FCC_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	15.21	15.27	15.29				
100	Pi2 BPSK	1	137	15.81	15.78	15.72	17.2	0.0		
100	Pi2 BPSK	1	271	15.41	15.43	15.42				
100	Pi2 BPSK	136	0	15.45	15.45	15.58	17.2	0.0		
100	Pi2 BPSK	136	69	15.71	15.84	15.85	17.2	0.0		
100	Pi2 BPSK	136	138	15.70	15.80	15.81	17.2	0.0		
100	Pi2 BPSK	270	0	15.68	15.71	15.71				
100	QPSK	1	1	15.25	15.28	15.23				
100	QPSK	1	137	15.73	15.68	15.73	17.2	0.0		
100	QPSK	1	271	15.29	15.42	15.34				
100	QPSK	136	0	15.67	15.68	15.58				
100	QPSK	136	69	15.75	15.84	15.71	17.2	0.0		
100	QPSK	136	138	15.67	15.76	15.64				
100	QPSK	270	0	15.62	15.61	15.59	17.2	0.0		
100	16QAM	1	1	15.20	15.28	15.29	17.2	0.0		
100	16QAM	1	1	15.21	15.27	15.25	17.2	0.0		
100	25QAM	1	1	15.27	15.31	15.34	17.2	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	2541	2592.99	2644.98				
90	QPSK	1	1	15.33	15.36	15.41	17.2	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	2638.02	2692.99	2648.99				
80	QPSK	1	1	15.33	15.34	15.41	17.2	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3028.00	3109.98	3202.98				
60	QPSK	1	1	15.42	15.48	15.37	17.2	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3042.94	3189.98	3329.98				
30	QPSK	1	1	15.40	15.42	15.30	17.2	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3032.02	3189.98	3340.00				
40	QPSK	1	1	15.37	15.41	15.34	17.2	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3022.00	3189.98	3349.96				
30	QPSK	1	1	15.49	15.41	15.30	17.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3012.02	3192.99	3359.98				
20	QPSK	1	1	15.41	15.42	15.38	17.2	0.0		

n41_FCC_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	23.07	23.05	23.03				
100	Pi2 BPSK	1	137	23.42	23.45	23.42	24.6	0.0		
100	Pi2 BPSK	1	271	22.86	22.78	22.66				
100	Pi2 BPSK	136	0	22.87	22.73	22.66	24.1	0.5		
100	Pi2 BPSK	136	69	23.38	23.48	23.33	24.6	0.0		
100	Pi2 BPSK	136	138	22.59	22.71	22.68	24.1	0.5		
100	Pi2 BPSK	270	0	22.68	22.75	22.61				
100	QPSK	1	1	22.62	22.61	22.66				
100	QPSK	1	137	23.31	23.57	23.32	24.6	0.0		
100	QPSK	1	271	22.81	22.72	22.61				
100	QPSK	136	0	23.32	23.38	23.23				
100	QPSK	136	69	23.28	23.53	23.30	24.6	0.0		
100	QPSK	136	138	22.33	22.48	22.43				
100	QPSK	270	0	22.25	22.47	22.16	23.6	1.0		
100	16QAM	1	1	21.89	21.82	21.61	23.6	1.0		
100	16QAM	1	1	20.17	20.15	20.10	22.1	2.5		
100	25QAM	1	1	18.25	18.43	18.23	20.1	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	23.24	23.62	23.19	24.6	0.0		
90	QPSK	1	1	23.24	23.62	23.19	24.6	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.17	23.54	23.20	24.6	0.0		
80	QPSK	1	1	23.23	23.53	23.25	24.6	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.24	23.40	23.25	24.6	0.0		
60	QPSK	1	1	23.24	23.40	23.25	24.6	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.24	23.40	23.25	24.6	0.0		
50	QPSK	1	1	23.24	23.40	23.25	24.6	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.14	23.53	23.20	24.6	0.0		
40	QPSK	1	1	23.14	23.53	23.20	24.6	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.23	23.50	23.22	24.6	0.0		
30	QPSK	1	1	23.23	23.45	23.23	24.6	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.23	23.45	23.23	24.6	0.0		

Part27Q_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1			3499.98				
100	Pi2 BPSK	1	137			11.82	12.9	0.0		
100	Pi2 BPSK	1	271			11.96				
100	Pi2 BPSK	136	0			11.80	12.9	0.0		
100	Pi2 BPSK	136	69			11.83	12.9	0.0		
100	Pi2 BPSK	136	138			11.84	12.9	0.0		
100	Pi2 BPSK	270	0			11.71				
100	QPSK	1	1			11.31				
100	QPSK	1	137			11.80	12.9	0.0		
100	QPSK	1	271			11.61				
100	QPSK	136	0			11.76				
100	QPSK	136	69			11.83	12.9	0.0		
100	QPSK	136	138			11.83				
100	QPSK	270	0			11.78	12.9	0.0		
100	16QAM	1	1			11.09	12.9	0.0		
100	16QAM	1	1			11.10	12.9	0.0		
100	25QAM	1	1			11.02	12.9	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	6330.00	6333.52	6336.04				
90	QPSK	1	1	11.30	11.24	11.27	12.9	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	6330.02	6333.52	6335.00				
80	QPSK	1	1	11.26	11.24	11.24	12.9	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	6319.06	6333.52	6335.00				
60	QPSK	1	1	11.26	11.19	11.20	12.9	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	6319.06	6333.52	6335.00				
50	QPSK	1	1	11.29	11.10	11.21	12.9	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	6313.04	6333.52	6335.00				
40	QPSK	1	1	11.14	11.22	11.12	12.9	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	6310.00	6333.52	6336.06				
30	QPSK	1	1	11.18	11.15	11.23	12.9	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	6306.02	6333.52	6336.00				
20	QPSK	1	1	11.25	11.14	11.17	12.9	0.0		



Part27Q_n78(HPUE)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	PV2 BPSK	1	1	14.15				
100	PV2 BPSK	1	137	14.64			15.9	0.0
100	PV2 BPSK	1	271	14.03				
100	PV2 BPSK	135	0	14.64			15.9	0.0
100	PV2 BPSK	135	69	14.07			15.9	0.0
100	PV2 BPSK	135	138	14.53				
100	PV2 BPSK	270	0	14.54			15.9	0.0
100	QPSK	1	1	14.17				
100	QPSK	1	137	14.69			15.9	0.0
100	QPSK	1	271	13.98				
100	QPSK	135	0	14.50				
100	QPSK	135	69	14.65			15.9	0.0
100	QPSK	135	138	14.50				
100	QPSK	270	0	14.59			15.9	0.0
100	16QAM	1	1	14.37			15.9	0.0
100	16QAM	1	1	14.27			15.9	0.0
100	256QAM	1	1	14.20			15.9	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	14.11	14.13	14.08	15.9	0.0
Channel				624666	625332	626000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	14.01	14.05	14.03	15.9	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3490	3499.98	3519.99		
60	QPSK	1	1	13.98	14.09	14.00	15.9	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3479.01	3499.98	3505		
50	QPSK	1	1	14.10	14.05	13.95	15.9	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3479.01	3499.98	3509.98		
40	QPSK	1	1	13.95	14.09	13.94	15.9	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3514.99		
30	QPSK	1	1	14.04	14.03	14.02	15.9	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3463.02	3499.98	3510		
20	QPSK	1	1	14.05	13.97	14.03	15.9	0.0



Part270_n78_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. / 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	10.85	3750			
100	P12 BPSK	1	137	11.83			12.9	0.0
100	P12 BPSK	1	271	10.95				
100	P12 BPSK	135	0	11.51			12.9	0.0
100	P12 BPSK	135	69	11.71			12.9	0.0
100	P12 BPSK	135	138	11.49			12.9	0.0
100	P12 BPSK	270	0	11.57				
100	QPSK	1	1	10.92				
100	QPSK	1	137	11.72			12.9	0.0
100	QPSK	1	271	10.96				
100	QPSK	135	0	11.85				
100	QPSK	135	69	11.69			12.9	0.0
100	QPSK	135	138	11.51				
100	QPSK	270	0	11.62			12.9	0.0
100	16QAM	1	1	10.98			12.9	0.0
100	64QAM	1	1	10.97			12.9	0.0
100	256QAM	1	1	11.25			12.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3754.98	12.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3759.99	12.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3769.98	12.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3750	3779.99	12.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3710.01	3750	3789.99	12.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3700.01	3750	3799.99	12.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3690.01	3750	3809.99	12.9	0.0

Part270_n78(HPUE)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. / 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	13.90	3750			
100	P12 BPSK	1	137	14.61			15.9	0.0
100	P12 BPSK	1	271	13.90				
100	P12 BPSK	135	0	14.81			15.9	0.0
100	P12 BPSK	135	69	14.61			15.9	0.0
100	P12 BPSK	135	138	14.41			15.9	0.0
100	P12 BPSK	270	0	14.48				
100	QPSK	1	1	13.93				
100	QPSK	1	137	14.64			15.9	0.0
100	QPSK	1	271	13.99				
100	QPSK	135	0	14.81				
100	QPSK	135	69	14.62			15.9	0.0
100	QPSK	135	138	14.42				
100	QPSK	270	0	14.38			15.9	0.0
100	16QAM	1	1	14.15			15.9	0.0
100	64QAM	1	1	14.06			15.9	0.0
100	256QAM	1	1	13.82			15.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3754.98	15.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3759.99	15.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3769.98	15.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3750	3779.99	15.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3710.01	3750	3789.99	15.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3700.01	3750	3799.99	15.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3690.01	3750	3809.99	15.9	0.0

Part270_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. / 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	17.25	3499.98			
100	P12 BPSK	1	137	17.25			18.8	0.0
100	P12 BPSK	1	271	17.19				
100	P12 BPSK	135	0	17.85			18.8	0.0
100	P12 BPSK	135	69	17.85			18.8	0.0
100	P12 BPSK	135	138	17.82			18.8	0.0
100	P12 BPSK	270	0	17.83				
100	QPSK	1	1	17.35				
100	QPSK	1	137	17.94			18.8	0.0
100	QPSK	1	271	17.17				
100	QPSK	135	0	17.82				
100	QPSK	135	69	17.91			18.8	0.0
100	QPSK	135	138	17.82				
100	QPSK	270	0	17.89			18.8	0.0
100	16QAM	1	1	17.15			18.8	0.0
100	64QAM	1	1	17.20			18.8	0.0
100	256QAM	1	1	17.72			18.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3495	3499.98	3504.99	17.57	18.8
Channel								
Frequency (MHz)								
80	QPSK	1	1	3490.01	3499.98	3504.99	17.50	18.8
Channel								
Frequency (MHz)								
60	QPSK	1	1	3480	3499.98	3504.99	17.44	18.8
Channel								
Frequency (MHz)								
50	QPSK	1	1	3475.01	3499.98	3504.99	17.44	18.8
Channel								
Frequency (MHz)								
40	QPSK	1	1	3470.01	3499.98	3504.99	17.50	18.8
Channel								
Frequency (MHz)								
30	QPSK	1	1	3465.01	3499.98	3504.99	17.50	18.8
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.01	3499.98	3504.99	17.50	18.8



Part27Q_n78(HPUE)_Ant 4

Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	19.94	3499.98			
100	PV2 BPSK	1	137	20.84			21.8	0.0
100	PV2 BPSK	1	271	19.86				
100	PV2 BPSK	155	0	20.71			21.8	0.0
100	PV2 BPSK	155	69	20.77			21.8	0.0
100	PV2 BPSK	155	138	20.59				
100	PV2 BPSK	270	0	20.62			21.8	0.0
100	QPSK	1	1	19.92				
100	QPSK	1	137	20.86			21.8	0.0
100	QPSK	1	271	19.85				
100	QPSK	155	0	20.67				
100	QPSK	155	69	20.53			21.8	0.0
100	QPSK	155	138	20.63				
100	QPSK	270	0	20.94			21.8	0.0
100	16QAM	1	1	20.21			21.8	0.0
100	64QAM	1	1	20.07			21.8	0.0
100	256QAM	1	1	20.00			21.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.06	3499.98	3504.99		
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.06	20.03	20.01	21.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.05	3499.98	3519.99		
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.02	19.99	19.98	21.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.02	19.96	20.01	21.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.92	19.91	20.05	21.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.91	20.03	20.05	21.8	0.0



Part270_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.20	3750			
100	PI2 BPSK	1	137	17.46			18.8	0.0
100	PI2 BPSK	1	271	18.72				
100	PI2 BPSK	135	0	17.29			18.8	0.0
100	PI2 BPSK	135	69	17.47			18.8	0.0
100	PI2 BPSK	135	138	17.36			18.8	0.0
100	PI2 BPSK	270	0	17.22				
100	QPSK	1	1	16.69			18.8	0.0
100	QPSK	1	137	17.50				
100	QPSK	1	271	18.79				
100	QPSK	135	0	17.35			18.8	0.0
100	QPSK	135	69	17.48			18.8	0.0
100	QPSK	135	138	17.35			18.8	0.0
100	QPSK	270	0	17.44			18.8	0.0
100	16QAM	1	1	16.46			18.8	0.0
100	64QAM	1	1	16.49			18.8	0.0
100	256QAM	1	1	17.62			18.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.87	3745.92	3754.98	18.8	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.67	3740.01	3759.99	18.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.68	3730.02	3750.98	18.8	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.78	6480.00	6520.00	18.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.88	6470.01	6510.99	18.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.79	6473.34	6526.66	18.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.85	6473.01	6526.99	18.8	0.0

Part270_n78(HPUE)_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.40	3750			
100	PI2 BPSK	1	137	20.54			21.8	0.0
100	PI2 BPSK	1	271	19.52				
100	PI2 BPSK	135	0	20.34			21.8	0.0
100	PI2 BPSK	135	69	20.53			21.8	0.0
100	PI2 BPSK	135	138	20.34			21.8	0.0
100	PI2 BPSK	270	0	20.34				
100	QPSK	1	1	19.41			21.8	0.0
100	QPSK	1	137	20.56				
100	QPSK	1	271	19.47				
100	QPSK	135	0	20.36			21.8	0.0
100	QPSK	135	69	20.52			21.8	0.0
100	QPSK	135	138	20.39			21.8	0.0
100	QPSK	270	0	20.44			21.8	0.0
100	16QAM	1	1	19.69			21.8	0.0
100	64QAM	1	1	19.58			21.8	0.0
100	256QAM	1	1	19.82			21.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.69	3745.02	3754.98	21.8	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.62	3740.01	3759.99	21.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.69	3730.02	3750.98	21.8	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.70	6483.34	6519.66	21.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.64	6473.01	6520.99	21.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.65	6473.34	6526.66	21.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.63	6473.01	6527.99	21.8	0.0

Part270_n78_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633332	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.70	3699.98			
100	PI2 BPSK	1	137	15.31			16.0	0.0
100	PI2 BPSK	1	271	14.71				
100	PI2 BPSK	135	0	15.26			16.0	0.0
100	PI2 BPSK	135	69	15.34			16.0	0.0
100	PI2 BPSK	135	138	15.32			16.0	0.0
100	PI2 BPSK	270	0	15.25				
100	QPSK	1	1	14.69			16.0	0.0
100	QPSK	1	137	15.35				
100	QPSK	1	271	14.99				
100	QPSK	135	0	15.21			16.0	0.0
100	QPSK	135	69	15.32			16.0	0.0
100	QPSK	135	138	15.21			16.0	0.0
100	QPSK	270	0	15.25			16.0	0.0
100	16QAM	1	1	14.88			16.0	0.0
100	64QAM	1	1	14.80			16.0	0.0
100	256QAM	1	1	14.81			16.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.94	6330.00	6336.66	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.86	6324.01	6340.99	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.99	6318.02	6334.98	16.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.89	6312.03	6338.97	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.92	6306.04	6342.96	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.85	6300.05	6346.95	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.92	6294.06	6350.94	16.0	0.0



Part27Q_n78(HPUE)_Ant 5

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							
Frequency (MHz)		3499.98					
100 P12 BPSK	1	1	17.62				
100 P12 BPSK	1	137	18.23	19.0	0.0		
100 P12 BPSK	1	271	17.83				
100 P12 BPSK	155	0	18.17	19.0	0.0		
100 P12 BPSK	155	69	18.22	19.0	0.0		
100 P12 BPSK	155	138	18.20				
100 P12 BPSK	270	0	18.18	19.0	0.0		
100 QPSK	1	1	17.27				
100 QPSK	1	137	18.28	19.0	0.0		
100 QPSK	1	271	17.85				
100 QPSK	155	0	18.18	19.0	0.0		
100 QPSK	155	69	18.24	19.0	0.0		
100 QPSK	155	138	18.19				
100 QPSK	270	0	18.28	19.0	0.0		
100 16QAM	1	1	17.84	19.0	0.0		
100 64QAM	1	1	17.70	19.0	0.0		
100 256QAM	1	1	17.64	19.0	0.0		
Channel	63300	63332	63366	Tune-up limit	MPR		
Frequency (MHz)	3498	3499.98	3504.99	(dBm)	(dB)		
90 QPSK	1	1	17.81	17.77	17.76	19.0	0.0
Channel	3498.02	633332	635000	Tune-up limit	MPR		
Frequency (MHz)	3498.02	3499.98	3510	(dBm)	(dB)		
80 QPSK	1	1	17.74	17.83	17.78	19.0	0.0
Channel	630000	633332	635000	Tune-up limit	MPR		
Frequency (MHz)	3498	3499.98	3519.99	(dBm)	(dB)		
60 QPSK	1	1	17.78	17.78	17.80	19.0	0.0
Channel	631000	633332	635000	Tune-up limit	MPR		
Frequency (MHz)	3498	3499.98	3529.98	(dBm)	(dB)		
50 QPSK	1	1	17.80	17.76	17.68	19.0	0.0
Channel	631334	633332	635332	Tune-up limit	MPR		
Frequency (MHz)	3498.02	3499.98	3529.98	(dBm)	(dB)		
40 QPSK	1	1	17.73	17.70	17.70	19.0	0.0
Channel	631000	633332	635666	Tune-up limit	MPR		
Frequency (MHz)	3498	3499.98	3533.99	(dBm)	(dB)		
30 QPSK	1	1	17.77	17.70	17.74	19.0	0.0
Channel	630668	633332	636000	Tune-up limit	MPR		
Frequency (MHz)	3498.02	3499.98	3543	(dBm)	(dB)		
20 QPSK	1	1	17.64	17.70	17.62	19.0	0.0



Part270_n78_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.44	3750				
100	PI2 BPSK	1	137	15.21			16.0	0.0	
100	PI2 BPSK	1	271	14.58					
100	PI2 BPSK	135	0	15.16			16.0	0.0	
100	PI2 BPSK	135	69	15.25			16.0	0.0	
100	PI2 BPSK	135	138	15.22			16.0	0.0	
100	PI2 BPSK	270	0	15.17					
100	QPSK	1	1	14.45					
100	QPSK	1	137	15.30			16.0	0.0	
100	QPSK	1	271	14.63					
100	QPSK	135	0	15.11					
100	QPSK	135	69	15.27			16.0	0.0	
100	QPSK	135	138	15.17					
100	QPSK	270	0	15.25			16.0	0.0	
100	16QAM	1	1	14.58			16.0	0.0	
100	64QAM	1	1	14.27			16.0	0.0	
100	256QAM	1	1	14.78			16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.92	3750	3754.98	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.63	14.56	14.57	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.54	14.53	14.53	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.53	14.50	14.63	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.49	14.51	14.54	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.45	14.45	14.49	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.46	14.58	14.55	16.0	0.0	

Part270_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.52	3750				
100	PI2 BPSK	1	137	18.31			19.0	0.0	
100	PI2 BPSK	1	271	17.69					
100	PI2 BPSK	135	0	18.19			19.0	0.0	
100	PI2 BPSK	135	69	18.35			19.0	0.0	
100	PI2 BPSK	135	138	18.31			19.0	0.0	
100	PI2 BPSK	270	0	18.25					
100	QPSK	1	1	17.44					
100	QPSK	1	137	18.34			19.0	0.0	
100	QPSK	1	271	17.58					
100	QPSK	135	0	18.34					
100	QPSK	135	69	18.32			19.0	0.0	
100	QPSK	135	138	18.28					
100	QPSK	270	0	18.25			19.0	0.0	
100	16QAM	1	1	17.71			19.0	0.0	
100	64QAM	1	1	17.56			19.0	0.0	
100	256QAM	1	1	17.57			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.92	3750	3754.98	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.71	17.67	17.75	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.60	17.67	17.73	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.71	17.69	17.75	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.65	17.63	17.68	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.73	17.70	17.74	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.71	17.65	17.77	19.0	0.0	

Part270_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	13.12	3699.98				
100	PI2 BPSK	1	137	13.70			14.3	0.0	
100	PI2 BPSK	1	271	12.81					
100	PI2 BPSK	135	0	13.87			14.3	0.0	
100	PI2 BPSK	135	69	13.70			14.3	0.0	
100	PI2 BPSK	135	138	13.45			14.3	0.0	
100	PI2 BPSK	270	0	13.53					
100	QPSK	1	1	13.10					
100	QPSK	1	137	13.71			14.3	0.0	
100	QPSK	1	271	12.75					
100	QPSK	135	0	13.61					
100	QPSK	135	69	13.58			14.3	0.0	
100	QPSK	135	138	13.51					
100	QPSK	270	0	13.81			14.3	0.0	
100	16QAM	1	1	12.86			14.3	0.0	
100	64QAM	1	1	12.90			14.3	0.0	
100	256QAM	1	1	13.48			14.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3330.00	3333.00	3336.00	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.05	13.07	13.04	14.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.99	13.04	13.02	14.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.02	13.01	13.02	14.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.02	13.01	13.02	14.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.06	13.08	13.05	14.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.98	13.07	12.96	14.3	0.0	



Part27Q_n78(HPUE)_Ant 6

Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	15.09	3499.98			
100	PV2 BPSK	1	137	15.67			17.3	0.0
100	PV2 BPSK	1	271	15.79				
100	PV2 BPSK	155	0	18.81			17.3	0.0
100	PV2 BPSK	155	69	18.85			17.3	0.0
100	PV2 BPSK	155	138	18.47				
100	PV2 BPSK	270	0	18.82			17.3	0.0
100	QPSK	1	1	15.24				
100	QPSK	1	137	15.65			17.3	0.0
100	QPSK	1	271	15.74				
100	QPSK	155	0	18.80				
100	QPSK	155	69	18.68			17.3	0.0
100	QPSK	155	138	18.48				
100	QPSK	270	0	18.81			17.3	0.0
100	16QAM	1	1	18.35			17.3	0.0
100	16QAM	1	1	18.25			17.3	0.0
100	25QAM	1	1	18.17			17.3	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.07	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.98	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.10	3499.98	3519.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.13	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.14	3499.98	3539.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.14	3499.98	3549.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.05	3499.98	3559.98	Tune-up limit (dBm)	MPR (dB)



Part270_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 600000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		12.58				
100	Pi2 BPSK	1	137		13.34		14.3	0.0	
100	Pi2 BPSK	1	271		12.48				
100	Pi2 BPSK	135	0		13.29		14.3	0.0	
100	Pi2 BPSK	135	69		13.28		14.3	0.0	
100	Pi2 BPSK	135	138		13.18				
100	Pi2 BPSK	270	0		13.19		14.3	0.0	
100	QPSK	1	1		12.29				
100	QPSK	1	137		13.36		14.3	0.0	
100	QPSK	1	271		12.43				
100	QPSK	135	0		13.22				
100	QPSK	135	69		13.33		14.3	0.0	
100	QPSK	135	138		13.16				
100	QPSK	270	0		13.27		14.3	0.0	
100	16QAM	1	1		12.35		14.3	0.0	
100	64QAM	1	1		12.37		14.3	0.0	
100	256QAM	1	1		12.60		14.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649658	650000	650332	Tune-up limit	MPR	
				3745.92	3750	3754.98		14.3	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	645334	650000	650566	Tune-up limit	MPR	
				3740.01	3750	3759.99			
Channel									
Frequency (MHz)									
60	QPSK	1	1	648334	650000	651666	Tune-up limit	MPR	
				3750.02	3750	3769.98		14.3	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651666	Tune-up limit	MPR	
				3745.01	3750	3754.99		14.3	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	647698	650000	652332	Tune-up limit	MPR	
				3745.02	3750	3754.98			
Channel									
Frequency (MHz)									
30	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
				3740.01	3750	3759.99		14.3	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
				3745.01	3750	3754.99		14.3	0.0

Part270_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 600000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		13.72				
100	Pi2 BPSK	1	137		16.47		17.3	0.0	
100	Pi2 BPSK	1	271		13.58				
100	Pi2 BPSK	135	0		16.36		17.3	0.0	
100	Pi2 BPSK	135	69		16.46		17.3	0.0	
100	Pi2 BPSK	135	138		16.33				
100	Pi2 BPSK	270	0		16.35		17.3	0.0	
100	QPSK	1	1		13.63				
100	QPSK	1	137		16.48		17.3	0.0	
100	QPSK	1	271		16.52				
100	QPSK	135	0		16.37				
100	QPSK	135	69		16.45		17.3	0.0	
100	QPSK	135	138		16.30				
100	QPSK	270	0		16.38		17.3	0.0	
100	16QAM	1	1		13.98		17.3	0.0	
100	64QAM	1	1		13.82		17.3	0.0	
100	256QAM	1	1		15.77		17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649658	650000	650332	Tune-up limit	MPR	
				3745.02	3750	3754.98		17.3	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	645334	650000	650566	Tune-up limit	MPR	
				3740.01	3750	3759.99			
Channel									
Frequency (MHz)									
60	QPSK	1	1	648334	650000	651666	Tune-up limit	MPR	
				3750.02	3750	3769.98		17.3	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651666	Tune-up limit	MPR	
				3745.01	3750	3754.99		17.3	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	647698	650000	652332	Tune-up limit	MPR	
				3745.02	3750	3754.98			
Channel									
Frequency (MHz)									
30	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
				3740.01	3750	3759.99		17.3	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
				3745.01	3750	3754.99		17.3	0.0



DS1 1

n5_Ant 0										
RF ID#	Modulation	RF Size	FE Offset	Power Level Ch. Freq.	Power Level Ch. Freq.	Power Level Ch. Freq.	Power Level Ch. Freq.	Power Level Ch. Freq.	Power Level Ch. Freq.	LFPS (Hz)
Channel										
Frequency (MHz)				16800	16900	16960	16960	16960	16960	20.0
30	PI4BPSK	1	1	24.03	24.06	24.09	24.12	24.15	24.18	0.0
30	PI4BPSK	1	1	24.24	24.27	24.30	24.33	24.36	24.39	0.0
30	PI4BPSK	1	1	24.30	24.33	24.36	24.39	24.42	24.45	0.0
30	PI4BPSK	00	0	23.83	23.86	23.89	23.92	23.95	23.98	0.0
30	PI4BPSK	00	0	24.04	24.07	24.10	24.13	24.16	24.19	0.0
30	PI4BPSK	00	0	24.05	24.08	24.11	24.14	24.17	24.20	0.0
30	PI4BPSK	00	0	24.06	24.09	24.12	24.15	24.18	24.21	0.0
30	QPSK	1	1	24.05	24.07	24.09	24.11	24.13	24.15	0.0
30	QPSK	1	1	24.06	24.08	24.10	24.12	24.14	24.16	0.0
30	QPSK	1	1	24.07	24.09	24.11	24.13	24.15	24.17	0.0
30	QPSK	00	0	24.08	24.10	24.12	24.14	24.16	24.18	0.0
30	QPSK	00	0	24.09	24.11	24.13	24.15	24.17	24.19	0.0
30	QPSK	00	0	24.10	24.12	24.14	24.16	24.18	24.20	0.0
30	QPSK	00	0	24.11	24.13	24.15	24.17	24.19	24.21	0.0
30	QPSK	00	0	24.12	24.14	24.16	24.18	24.20	24.22	0.0
30	QPSK	00	0	24.13	24.15	24.17	24.19	24.21	24.23	0.0
30	QPSK	00	0	24.14	24.16	24.18	24.20	24.22	24.24	0.0
30	QPSK	00	0	24.15	24.17	24.19	24.21	24.23	24.25	0.0
30	QPSK	00	0	24.16	24.18	24.20	24.22	24.24	24.26	0.0
30	QPSK	00	0	24.17	24.19	24.21	24.23	24.25	24.27	0.0
30	QPSK	00	0	24.18	24.20	24.22	24.24	24.26	24.28	0.0
30	QPSK	00	0	24.19	24.21	24.23	24.25	24.27	24.29	0.0
30	QPSK	00	0	24.20	24.22	24.24	24.26	24.28	24.30	0.0
30	QPSK	00	0	24.21	24.23	24.25	24.27	24.29	24.31	0.0
30	QPSK	00	0	24.22	24.24	24.26	24.28	24.30	24.32	0.0
30	QPSK	00	0	24.23	24.25	24.27	24.29	24.31	24.33	0.0
30	QPSK	00	0	24.24	24.26	24.28	24.30	24.32	24.34	0.0
30	QPSK	00	0	24.25	24.27	24.29	24.31	24.33	24.35	0.0
30	QPSK	00	0	24.26	24.28	24.30	24.32	24.34	24.36	0.0
30	QPSK	00	0	24.27	24.29	24.31	24.33	24.35	24.37	0.0
30	QPSK	00	0	24.28	24.30	24.32	24.34	24.36	24.38	0.0
30	QPSK	00	0	24.29	24.31	24.33	24.35	24.37	24.39	0.0
30	QPSK	00	0	24.30	24.32	24.34	24.36	24.38	24.40	0.0
30	QPSK	00	0	24.31	24.33	24.35	24.37	24.39	24.41	0.0
30	QPSK	00	0	24.32	24.34	24.36	24.38	24.40	24.42	0.0
30	QPSK	00	0	24.33	24.35	24.37	24.39	24.41	24.43	0.0
30	QPSK	00	0	24.34	24.36	24.38	24.40	24.42	24.44	0.0
30	QPSK	00	0	24.35	24.37	24.39	24.41	24.43	24.45	0.0
30	QPSK	00	0	24.36	24.38	24.40	24.42	24.44	24.46	0.0
30	QPSK	00	0	24.37	24.39	24.41	24.43	24.45	24.47	0.0
30	QPSK	00	0	24.38	24.40	24.42	24.44	24.46	24.48	0.0
30	QPSK	00	0	24.39	24.41	24.43	24.45	24.47	24.49	0.0
30	QPSK	00	0	24.40	24.42	24.44	24.46	24.48	24.50	0.0
30	QPSK	00	0	24.41	24.43	24.45	24.47	24.49	24.51	0.0
30	QPSK	00	0	24.42	24.44	24.46	24.48	24.50	24.52	0.0
30	QPSK	00	0	24.43	24.45	24.47	24.49	24.51	24.53	0.0
30	QPSK	00	0	24.44	24.46	24.48	24.50	24.52	24.54	0.0
30	QPSK	00	0	24.45	24.47	24.49	24.51	24.53	24.55	0.0
30	QPSK	00	0	24.46	24.48	24.50	24.52	24.54	24.56	0.0
30	QPSK	00	0	24.47	24.49	24.51	24.53	24.55	24.57	0.0
30	QPSK	00	0	24.48	24.50	24.52	24.54	24.56	24.58	0.0
30	QPSK	00	0	24.49	24.51	24.53	24.55	24.57	24.59	0.0
30	QPSK	00	0	24.50	24.52	24.54	24.56	24.58	24.60	0.0
30	QPSK	00	0	24.51	24.53	24.55	24.57	24.59	24.61	0.0
30	QPSK	00	0	24.52	24.54	24.56	24.58	24.60	24.62	0.0
30	QPSK	00	0	24.53	24.55	24.57	24.59	24.61	24.63	0.0
30	QPSK	00	0	24.54	24.56	24.58	24.60	24.62	24.64	0.0
30	QPSK	00	0	24.55	24.57	24.59	24.61	24.63	24.65	0.0
30	QPSK	00	0	24.56	24.58	24.60	24.62	24.64	24.66	0.0
30	QPSK	00	0	24.57	24.59	24.61	24.63	24.65	24.67	0.0
30	QPSK	00	0	24.58	24.60	24.62	24.64	24.66	24.68	0.0
30	QPSK	00	0	24.59	24.61	24.63	24.65	24.67	24.69	0.0
30	QPSK	00	0	24.60	24.62	24.64	24.66	24.68	24.70	0.0
30	QPSK	00	0	24.61	24.63	24.65	24.67	24.69	24.71	0.0
30	QPSK	00	0	24.62	24.64	24.66	24.68	24.70	24.72	0.0
30	QPSK	00	0	24.63	24.65	24.67	24.69	24.71	24.73	0.0
30	QPSK	00	0	24.64	24.66	24.68	24.70	24.72	24.74	0.0
30	QPSK	00	0	24.65	24.67	24.69	24.71	24.73	24.75	0.0
30	QPSK	00	0	24.66	24.68	24.70	24.72	24.74	24.76	0.0
30	QPSK	00	0	24.67	24.69	24.71	24.73	24.75	24.77	0.0
30	QPSK	00	0	24.68	24.70	24.72	24.74	24.76	24.78	0.0
30	QPSK	00	0	24.69	24.71	24.73	24.75	24.77	24.79	0.0
30	QPSK	00	0	24.70	24.72	24.74	24.76	24.78	24.80	0.0
30	QPSK	00	0	24.71	24.73	24.75	24.77	24.79	24.81	0.0
30	QPSK	00	0	24.72	24.74	24.76	24.78	24.80	24.82	0.0
30	QPSK	00	0	24.73	24.75	24.77	24.79	24.81	24.83	0.0
30	QPSK	00	0	24.74	24.76	24.78	24.80	24.82	24.84	0.0
30	QPSK	00	0	24.75	24.77	24.79	24.81	24.83	24.85	0.0
30	QPSK	00	0	24.76	24.78	24.80	24.82	24.84	24.86	0.0
30	QPSK	00	0	24.77	24.79	24.81	24.83	24.85	24.87	0.0
30	QPSK	00	0	24.78	24.80	24.82	24.84	24.86	24.88	0.0
30	QPSK	00	0	24.79	24.81	24.83	24.85	24.87	24.89	0.0
30	QPSK	00	0	24.80	24.82	24.84	24.86	24.88	24.90	0.0
30	QPSK	00	0	24.81	24.83	24.85	24.87	24.89	24.91	0.0
30	QPSK	00	0	24.82	24.84	24.86	24.88	24.90	24.92	0.0
30	QPSK	00	0	24.83	24.85	24.87	24.89	24.91	24.93	0.0
30	QPSK	00	0	24.84	24.86	24.88	24.90	24.92	24.94	0.0
30	QPSK	00	0	24.85	24.87	24.89	24.91	24.93	24.95	0.0
30	QPSK	00	0	24.86	24.88	24.90	24.92	24.94	24.96	0.0
30	QPSK	00	0	24.87	24.89	24.91	24.93	24.95	24.97	0.0
30	QPSK	00	0	24.88	24.90	24.92	24.94	24.96	24.98	0.0
30	QPSK	00	0	24.89	24.91	24.93	24.95	24.97	24.99	0.0
30	QPSK	00	0	24.90	24.92	24.94	24.96	24.98	25.00	0.0
30	QPSK	00	0	24.91	24.93	24.95	24.97	24.99	25.01	0.0
30	QPSK	00	0	24.92	24.94	24.96	24.98	25.00	25.02	0.0
30	QPSK	00	0	24.93	24.95	24.97	24.99	25.01	25.03	0.0
30	QPSK	00	0	24.94	24.96	24.98	25.00	25.02	25.04	0.0
30	QPSK	00	0	24.95	24.97	24.99	25.01	25.03	25.05	0.0
30	QPSK	00	0	24.96	24.98	25.00	25.02	25.04	25.06	0.0
30	QPSK	00	0	24.97	24.99	25.01	25.03	25.05	25.07	0.0
30	QPSK	00	0	24.98	25.00	25.02	25.04	25.06	25.08	0.0
30	QPSK	00	0	24.99	25.01	25.03	25.05	25.07	25.09	0.0
30	QPSK	00	0	25.00	25.02	25.04	25.06	25.08	25.10	0.0
30	QPSK	00	0	25.01	25.03	25.05	25.07	25.09	25.11	0.0
30	QPSK	00	0	25.02	25.04	25.06	25.08	25.10	25.12	0.0



n66_Ant 0										
DUT (MHz)	Modulation	RF Size	RF Chn#	Power Low Ch. (7.7MHz)	Power Mid Ch. (7.7MHz)	Power High Ch. (7.7MHz)	Time-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)				1790	1840	1890				
40	PI2-BPSK	1	1	18.11	18.24	18.38				
40	PI2-BPSK	1	108	18.22	18.34	18.46	17.1	0.0		
40	PI2-BPSK	1	214	18.33	18.45	18.57				
40	PI2-BPSK	106	0	18.65	18.78	18.91				
40	PI2-BPSK	106	108	18.82	18.95	19.08	17.1	0.0		
40	PI2-BPSK	106	214	19.11	19.24	19.37				
40	QPSK	1	1	19.22	19.35	19.48				
40	QPSK	1	108	19.56	19.69	19.82	17.1	0.0		
40	QPSK	1	214	19.81	19.94	20.07				
40	QPSK	106	0	20.12	20.25	20.38	24.1	0.0		
40	QPSK	106	108	20.29	20.42	20.55	17.1	0.0		
40	QPSK	106	214	20.59	20.72	20.85				
40	QPSK	1	1	20.92	21.05	21.18				
40	QPSK	1	108	21.28	21.41	21.54	17.1	0.0		
40	QPSK	1	214	21.61	21.74	21.87				
40	QPSK	106	0	22.12	22.25	22.38	24.1	0.0		
40	QPSK	106	108	22.29	22.42	22.55	17.1	0.0		
40	QPSK	106	214	22.59	22.72	22.85				
40	QPSK	1	1	23.02	23.15	23.28				
40	QPSK	1	108	23.32	23.45	23.58	17.1	0.0		
40	QPSK	1	214	23.65	23.78	23.91				
40	QPSK	106	0	24.16	24.29	24.42	24.1	0.0		
40	QPSK	106	108	24.33	24.46	24.59	17.1	0.0		
40	QPSK	106	214	24.73	24.86	24.99				
40	QPSK	1	1	25.26	25.39	25.52				
40	QPSK	1	108	25.72	25.85	25.98	17.1	0.0		
40	QPSK	1	214	26.05	26.18	26.31				
40	QPSK	106	0	26.56	26.69	26.82	24.1	0.0		
40	QPSK	106	108	26.83	26.96	27.09	17.1	0.0		
40	QPSK	106	214	27.23	27.36	27.49				
40	QPSK	1	1	27.76	27.89	28.02				
40	QPSK	1	108	28.12	28.25	28.38	17.1	0.0		
40	QPSK	1	214	28.53	28.66	28.79				
40	QPSK	106	0	29.12	29.25	29.38	24.1	0.0		
40	QPSK	106	108	29.29	29.42	29.55	17.1	0.0		
40	QPSK	106	214	29.69	29.82	29.95				
40	QPSK	1	1	30.22	30.35	30.48				
40	QPSK	1	108	30.78	30.91	31.04	17.1	0.0		
40	QPSK	1	214	31.11	31.24	31.37				
40	QPSK	106	0	31.72	31.85	31.98	24.1	0.0		
40	QPSK	106	108	32.09	32.22	32.35	17.1	0.0		
40	QPSK	106	214	32.49	32.62	32.75				
40	QPSK	1	1	32.92	33.05	33.18				
40	QPSK	1	108	33.48	33.61	33.74	17.1	0.0		
40	QPSK	1	214	33.89	34.02	34.15				
40	QPSK	106	0	34.48	34.61	34.74	24.1	0.0		
40	QPSK	106	108	34.85	34.98	35.11	17.1	0.0		
40	QPSK	106	214	35.25	35.38	35.51				
40	QPSK	1	1	35.68	35.81	35.94				
40	QPSK	1	108	36.24	36.37	36.50	17.1	0.0		
40	QPSK	1	214	36.65	36.78	36.91				
40	QPSK	106	0	37.12	37.25	37.38	24.1	0.0		
40	QPSK	106	108	37.29	37.42	37.55	17.1	0.0		
40	QPSK	106	214	37.69	37.82	37.95				
40	QPSK	1	1	38.12	38.25	38.38				
40	QPSK	1	108	38.68	38.81	38.94	17.1	0.0		
40	QPSK	1	214	39.09	39.22	39.35				
40	QPSK	106	0	39.68	39.81	39.94	24.1	0.0		
40	QPSK	106	108	40.05	40.18	40.31	17.1	0.0		
40	QPSK	106	214	40.45	40.58	40.71				
40	QPSK	1	1	40.88	41.01	41.14				
40	QPSK	1	108	41.44	41.57	41.70	17.1	0.0		
40	QPSK	1	214	41.85	41.98	42.11				
40	QPSK	106	0	42.48	42.61	42.74	24.1	0.0		
40	QPSK	106	108	42.85	42.98	43.11	17.1	0.0		
40	QPSK	106	214	43.25	43.38	43.51				
40	QPSK	1	1	43.68	43.81	43.94				
40	QPSK	1	108	44.24	44.37	44.50	17.1	0.0		
40	QPSK	1	214	44.65	44.78	44.91				
40	QPSK	106	0	45.12	45.25	45.38	24.1	0.0		
40	QPSK	106	108	45.29	45.42	45.55	17.1	0.0		
40	QPSK	106	214	45.69	45.82	45.95				
40	QPSK	1	1	46.12	46.25	46.38				
40	QPSK	1	108	46.68	46.81	46.94	17.1	0.0		
40	QPSK	1	214	47.09	47.22	47.35				
40	QPSK	106	0	47.68	47.81	47.94	24.1	0.0		
40	QPSK	106	108	48.05	48.18	48.31	17.1	0.0		
40	QPSK	106	214	48.45	48.58	48.71				
40	QPSK	1	1	48.88	49.01	49.14				
40	QPSK	1	108	49.44	49.57	49.70	17.1	0.0		
40	QPSK	1	214	49.85	49.98	50.11				
40	QPSK	106	0	50.48	50.61	50.74	24.1	0.0		
40	QPSK	106	108	50.85	50.98	51.11	17.1	0.0		
40	QPSK	106	214	51.25	51.38	51.51				
40	QPSK	1	1	51.68	51.81	51.94				
40	QPSK	1	108	52.24	52.37	52.50	17.1	0.0		
40	QPSK	1	214	52.65	52.78	52.91				
40	QPSK	106	0	53.12	53.25	53.38	24.1	0.0		
40	QPSK	106	108	53.29	53.42	53.55	17.1	0.0		
40	QPSK	106	214	53.69	53.82	53.95				
40	QPSK	1	1	54.12	54.25	54.38				
40	QPSK	1	108	54.68	54.81	54.94	17.1	0.0		
40	QPSK	1	214	55.09	55.22	55.35				
40	QPSK	106	0	55.68	55.81	55.94	24.1	0.0		
40	QPSK	106	108	56.05	56.18	56.31	17.1	0.0		
40	QPSK	106	214	56.45	56.58	56.71				
40	QPSK	1	1	56.88	57.01	57.14				
40	QPSK	1	108	57.44	57.57	57.70	17.1	0.0		
40	QPSK	1	214	57.85	57.98	58.11				
40	QPSK	106	0	58.48	58.61	58.74	24.1	0.0		
40	QPSK	106	108	58.85	58.98	59.11	17.1	0.0		
40	QPSK	106	214	59.25	59.38	59.51				
40	QPSK	1	1	59.68	59.81	59.94				
40	QPSK	1	108	60.24	60.37	60.50	17.1	0.0		
40	QPSK	1	214	60.65	60.78	60.91				
40	QPSK	106	0	61.12	61.25	61.38	24.1	0.0		
40	QPSK	106	108	61.29	61.42	61.55	17.1	0.0		
40	QPSK	106	214	61.69	61.82	61.95				
40	QPSK	1	1	62.12	62.25	62.38				
40	QPSK	1	108	62.68	62.81	62.94	17.1	0.0		
40	QPSK	1	214	63.09	63.22	63.35				
40	QPSK	106	0	63.68	63.81	63.94	24.1	0.0		
40	QPSK	106	108	64.05	64.18	64.31	17.1	0.0		
40	QPSK	106	214	64.45	64.58	64.71				
40	QPSK	1	1	64.88	65.01	65.14				
40	QPSK	1	108	65.44	65.57	65.70	17.1	0.0		
40	QPSK	1	214	65.85	65.98	66.11				
40	QPSK	106	0	66.48	66.61	66.74	24.1	0.0		
40	QPSK	106	108	66.85	66.98	67.11	17.1	0.0		
40	QPSK	106	214	67.25	67.38	67.51				
40	QPSK	1	1	67.68	67.81	67.94				
40	QPSK	1	108	68.24	68.37	68.50	17.1	0.0		
40	QPSK	1	214	68.65	68.78	68.91				
40	QPSK	106	0	69.12						



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				2990.02	2995	2999.98			
Frequency (MHz)									
40	P1/2 BPSK	1	1	29.07	29.05	29.12			
40	P1/2 BPSK	1	104	29.18	29.13	29.13	21.5	0.0	
40	P1/2 BPSK	50	0	29.47	29.42	29.38	21.5	0.0	
40	P1/2 BPSK	50	28	29.51	29.54	29.41	21.5	0.0	
40	P1/2 BPSK	50	56	29.43	29.48	29.55	21.5	0.0	
40	P1/2 BPSK	100	0	29.36	29.47	29.46			
40	QPSK	1	1	29.11	29.07	29.02	21.5	0.0	
40	QPSK	1	53	29.43	29.36	29.40	21.5	0.0	
40	QPSK	1	104	19.98	20.10	20.07			
40	QPSK	50	0	20.30	20.42	20.43	21.5	0.0	
40	QPSK	50	28	20.46	20.55	20.50	21.5	0.0	
40	QPSK	50	56	20.33	20.45	20.43			
40	QPSK	100	0	20.43	20.59	20.44	21.5	0.0	
40	16QAM	1	1	19.76	19.85	19.88	21.5	0.0	
40	16QAM	1	1	19.93	19.86	19.75	21.5	0.0	
40	256QAM	1	1	19.95	20.00	20.07	21.5	0.0	
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
Frequency (MHz)									
30	QPSK	1	1	20.00	19.96	20.03	21.5	0.0	
				519000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
Frequency (MHz)									
20	QPSK	1	1	20.01	19.92	20.08	21.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				2990.02	2995	2999.98			
Frequency (MHz)									
40	P1/2 BPSK	1	1	15.07	15.00	15.04			
40	P1/2 BPSK	1	104	15.02	15.05	15.00	17.9	0.0	
40	P1/2 BPSK	50	0	15.33	15.30	15.31	17.9	0.0	
40	P1/2 BPSK	50	28	15.50	15.53	15.42	17.9	0.0	
40	P1/2 BPSK	50	56	15.32	15.41	15.29	17.9	0.0	
40	P1/2 BPSK	100	0	15.43	15.45	15.53			
40	QPSK	1	1	15.37	15.00	15.97			
40	QPSK	1	53	15.47	15.34	15.52	17.9	0.0	
40	QPSK	1	104	15.93	15.00	15.93			
40	QPSK	50	0	15.42	15.42	15.29	17.9	0.0	
40	QPSK	50	28	15.49	15.50	15.45	17.9	0.0	
40	QPSK	50	56	15.26	15.38	15.29			
40	QPSK	100	0	15.30	15.30	15.32	17.9	0.0	
40	16QAM	1	1	15.05	15.03	15.00	17.9	0.0	
40	16QAM	1	1	15.08	15.02	15.07	17.9	0.0	
40	256QAM	1	1	15.20	15.47	15.34	17.9	0.0	
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
Frequency (MHz)									
30	QPSK	1	1	15.13	15.08	15.92	17.9	0.0	
				519000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
Frequency (MHz)									
20	QPSK	1	1	15.90	15.15	15.00	17.9	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				2990.02	2995	2999.98			
Frequency (MHz)									
40	P1/2 BPSK	1	1	15.20	15.28	15.25			
40	P1/2 BPSK	1	53	15.45	15.59	15.54	17.2	0.0	
40	P1/2 BPSK	1	104	15.26	15.30	15.21			
40	P1/2 BPSK	50	0	15.43	15.51	15.47	17.2	0.0	
40	P1/2 BPSK	50	28	15.54	15.60	15.46	17.2	0.0	
40	P1/2 BPSK	50	56	15.51	15.59	15.48			
40	P1/2 BPSK	100	0	15.46	15.46	15.44	17.2	0.0	
40	QPSK	1	1	15.23	15.27	15.23			
40	QPSK	1	53	15.57	15.66	15.50	17.2	0.0	
40	QPSK	1	104	15.27	15.35	15.32			
40	QPSK	50	0	15.42	15.48	15.42	17.2	0.0	
40	QPSK	50	28	15.53	15.65	15.54	17.2	0.0	
40	QPSK	50	56	15.46	15.60	15.48			
40	QPSK	100	0	15.46	15.61	15.47	17.2	0.0	
40	16QAM	1	1	15.23	15.31	15.28	17.2	0.0	
40	16QAM	1	1	15.25	15.30	15.26	17.2	0.0	
40	256QAM	1	1	15.37	15.47	15.26	17.2	0.0	
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
Frequency (MHz)									
30	QPSK	1	1	15.24	15.28	15.28	17.2	0.0	
				519000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
Frequency (MHz)									
20	QPSK	1	1	15.28	15.27	15.29	17.2	0.0	



n38_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2560.02	2595	2599.98			
40	P12 BPSK	1	1	21.89	21.93	21.98			
40	P12 BPSK	1	104	22.16	22.17	22.10	23.6	0.0	
40	P12 BPSK	50	0	22.35	22.28	22.19	23.8	0.0	
40	P12 BPSK	50	38	22.52	22.57	22.47	23.6	0.0	
40	P12 BPSK	50	56	22.28	22.38	22.34	23.6	0.0	
40	P12 BPSK	100	0	22.39	22.38	22.49			
40	QPSK	1	1	22.00	21.96	21.84			
40	QPSK	1	53	22.48	22.38	22.41	23.6	0.0	
40	QPSK	1	104	21.99	22.11	21.99			
40	QPSK	50	0	22.18	22.25	22.25			
40	QPSK	50	38	22.45	22.52	22.41	23.6	0.0	
40	QPSK	50	56	22.31	22.31	22.25			
40	QPSK	100	0	22.43	22.47	22.34	23.8	0.0	
40	16QAM	1	1	21.84	21.78	21.71	23.6	0.0	
40	16QAM	1	1	20.38	20.36	20.26	22.1	1.5	
40	256QAM	1	1	18.24	18.27	18.86	23.1	2.5	
Channel									
Frequency (MHz)				2588.01	2595	2604.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.88	21.84	21.89	23.6	0.0	
Channel									
Frequency (MHz)				2580	2595	2610	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.81	22.11	22.10	23.6	0.0	

n41_FCC_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	19.56	19.03	19.53			
100	P12 BPSK	1	137	20.39	20.50	20.38	21.5	0.0	
100	P12 BPSK	1	271	19.51	19.69	19.68			
100	P12 BPSK	135	0	20.28	20.25	20.17	21.5	0.0	
100	P12 BPSK	135	69	20.53	20.55	20.45	21.5	0.0	
100	P12 BPSK	135	138	20.24	20.35	20.34	21.5	0.0	
100	P12 BPSK	270	0	20.21	20.31	20.27			
100	QPSK	1	1	19.53	19.57	19.54			
100	QPSK	1	137	20.35	20.37	20.36	21.5	0.0	
100	QPSK	1	271	19.72	19.66	19.56			
100	QPSK	135	0	20.34	20.28	20.22			
100	QPSK	135	69	20.52	20.55	20.54	21.5	0.0	
100	QPSK	135	138	20.41	20.38	20.27			
100	QPSK	270	0	20.23	20.47	20.26	21.5	0.0	
100	16QAM	1	1	19.52	19.54	19.56	21.5	0.0	
100	16QAM	1	1	19.55	19.55	19.51	21.5	0.0	
100	256QAM	1	1	19.44	19.49	19.46	21.9	0.8	
Channel									
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.53	19.58	19.56	21.5	0.0	
Channel									
Frequency (MHz)				2538.02	2592.99	2648.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.52	19.58	19.50	21.5	0.0	
Channel									
Frequency (MHz)				2530	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.50	19.51	19.57	21.5	0.0	
Channel									
Frequency (MHz)				2524.04	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.56	19.52	19.59	21.5	0.0	
Channel									
Frequency (MHz)				2518.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.54	19.51	19.55	21.5	0.0	
Channel									
Frequency (MHz)				2512.00	2592.99	2676.00	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.52	19.59	19.56	21.5	0.0	
Channel									
Frequency (MHz)				2506.02	2592.99	2682.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.53	19.53	19.51	21.5	0.0	

n41_FCC_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	16.05	16.05	16.07			
100	P12 BPSK	1	137	16.54	16.57	16.46	17.9	0.0	
100	P12 BPSK	1	271	15.90	15.91	15.96			
100	P12 BPSK	135	0	16.44	16.56	16.54	17.9	0.0	
100	P12 BPSK	135	69	16.61	16.64	16.56	17.9	0.0	
100	P12 BPSK	135	138	16.46	16.47	16.33	17.9	0.0	
100	P12 BPSK	270	0	16.33	16.44	16.40			
100	QPSK	1	1	15.99	15.99	15.97			
100	QPSK	1	137	16.05	16.06	16.45	17.9	0.0	
100	QPSK	1	271	15.90	15.91	15.91			
100	QPSK	135	0	16.44	16.44	16.47			
100	QPSK	135	69	16.61	16.62	16.52	17.9	0.0	
100	QPSK	135	138	16.31	16.40	16.27			
100	QPSK	270	0	16.30	16.41	16.40	17.9	0.0	
100	16QAM	1	1	15.94	15.93	15.97	17.9	0.0	
100	16QAM	1	1	15.95	15.92	15.94	17.9	0.0	
100	256QAM	1	1	16.34	16.27	16.17	17.9	0.0	
Channel									
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.91	15.91	15.90	17.9	0.0	
Channel									
Frequency (MHz)				2538.02	2592.99	2648.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.91	15.96	15.91	17.9	0.0	
Channel									
Frequency (MHz)				2530	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.95	16.02	16.04	17.9	0.0	
Channel									
Frequency (MHz)				2524.04	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.97	16.05	15.97	17.9	0.0	
Channel									
Frequency (MHz)				2518.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.94	15.96	15.94	17.9	0.0	
Channel									
Frequency (MHz)				2512.00	2592.99	2676.00	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.97	15.90	15.99	17.9	0.0	
Channel									
Frequency (MHz)				2506.02	2592.99	2682.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.96	16.03	15.94	17.9	0.0	



n41_FCC_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2646.01	2692.99	2646			
100	P2/BPSK	1	1	15.21	15.27	15.29			
100	P2/BPSK	1	137	15.81	15.78	15.72	17.2	0.0	
100	P2/BPSK	1	271	15.41	15.43	15.42			
100	P2/BPSK	135	0	15.85	15.85	15.38	17.2	0.0	
100	P2/BPSK	135	69	15.71	15.84	15.85	17.2	0.0	
100	P2/BPSK	135	138	15.70	15.80	15.81	17.2	0.0	
100	P2/BPSK	270	0	15.86	15.71	15.71			
100	QPSK	1	1	15.25	15.28	15.23	17.2	0.0	
100	QPSK	1	137	15.75	15.88	15.73	17.2	0.0	
100	QPSK	1	271	15.29	15.42	15.34			
100	QPSK	135	0	15.47	15.45	15.28	17.2	0.0	
100	QPSK	135	69	15.71	15.84	15.71	17.2	0.0	
100	QPSK	135	138	15.67	15.76	15.64			
100	QPSK	270	0	15.62	15.61	15.59	17.2	0.0	
100	16QAM	1	1	15.20	15.26	15.29	17.2	0.0	
100	16QAM	1	1	15.21	15.27	15.25	17.2	0.0	
100	256QAM	1	1	15.57	15.61	15.34	17.2	0.0	
Channel									
Frequency (MHz)				2641	2692.99	2644.98			
90	QPSK	1	1	15.33	15.26	15.41	17.2	0.0	
Channel									
Frequency (MHz)				2636.02	2692.99	2648.99			
80	QPSK	1	1	15.33	15.34	15.41	17.2	0.0	
Channel									
Frequency (MHz)				2626	2692.99	2658.98			
60	QPSK	1	1	15.42	15.48	15.37	17.2	0.0	
Channel									
Frequency (MHz)				2624.04	2692.99	2644.99			
50	QPSK	1	1	15.40	15.42	15.30	17.2	0.0	
Channel									
Frequency (MHz)				2612.02	2692.99	2644.99			
40	QPSK	1	1	15.37	15.41	15.34	17.2	0.0	
Channel									
Frequency (MHz)				2602.00	2692.99	2644.98			
30	QPSK	1	1	15.49	15.41	15.30	17.2	0.0	
Channel									
Frequency (MHz)				2591.02	2692.99	2644.99			
20	QPSK	1	1	15.41	15.42	15.38	17.2	0.0	

n41_FCC_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2646.01	2692.99	2646			
100	P2/BPSK	1	1	21.17	21.15	21.10			
100	P2/BPSK	1	137	21.94	21.95	22.02	23.1	0.0	
100	P2/BPSK	1	271	21.18	21.21	21.11			
100	P2/BPSK	135	0	21.98	21.78	21.77	23.1	0.0	
100	P2/BPSK	135	69	21.98	21.91	21.99	23.1	0.0	
100	P2/BPSK	135	138	21.74	21.83	21.83	23.1	0.0	
100	P2/BPSK	270	0	21.76	21.84	21.77			
100	QPSK	1	1	21.11	21.14	21.11	23.1	0.0	
100	QPSK	1	137	21.94	22.08	21.84	23.1	0.0	
100	QPSK	1	271	21.16	21.27	21.15			
100	QPSK	135	0	21.72	21.79	21.80	23.1	0.0	
100	QPSK	135	69	22.03	22.05	22.03	23.1	0.0	
100	QPSK	135	138	21.69	21.79	21.73			
100	QPSK	270	0	21.70	21.69	21.87	23.1	0.0	
100	16QAM	1	1	21.17	21.21	21.11	23.1	0.0	
100	16QAM	1	1	20.17	20.19	20.18	22.1	1.0	
100	256QAM	1	1	18.30	18.33	18.32	20.1	3.0	
Channel									
Frequency (MHz)				2641	2692.99	2644.98			
90	QPSK	1	1	21.38	21.32	21.27	23.1	0.0	
Channel									
Frequency (MHz)				2636.02	2692.99	2648.99			
80	QPSK	1	1	21.31	21.23	21.24	23.1	0.0	
Channel									
Frequency (MHz)				2626	2692.99	2658.98			
60	QPSK	1	1	21.36	21.32	21.19	23.1	0.0	
Channel									
Frequency (MHz)				2624.04	2692.99	2644.99			
50	QPSK	1	1	21.27	21.34	21.22	23.1	0.0	
Channel									
Frequency (MHz)				2612.02	2692.99	2644.99			
40	QPSK	1	1	21.20	21.36	21.24	23.1	0.0	
Channel									
Frequency (MHz)				2602.00	2692.99	2644.98			
30	QPSK	1	1	21.37	21.35	21.20	23.1	0.0	
Channel									
Frequency (MHz)				2591.02	2692.99	2644.99			
20	QPSK	1	1	21.25	21.25	21.21	23.1	0.0	

Part27Q_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)						3099.98			
100	P2/BPSK	1	1			15.02			
100	P2/BPSK	1	137			15.09	16.4	0.0	
100	P2/BPSK	1	271			14.79			
100	P2/BPSK	135	0			15.50	16.4	0.0	
100	P2/BPSK	135	69			15.75	16.4	0.0	
100	P2/BPSK	135	138			15.46	16.4	0.0	
100	P2/BPSK	270	0			15.43			
100	QPSK	1	1			15.48			
100	QPSK	1	137			15.77	16.4	0.0	
100	QPSK	1	271			14.90			
100	QPSK	135	0			15.67	16.4	0.0	
100	QPSK	135	69			15.67	16.4	0.0	
100	QPSK	135	138			15.55			
100	QPSK	270	0			15.66	16.4	0.0	
100	16QAM	1	1			14.79	16.4	0.0	
100	16QAM	1	1			14.70	16.4	0.0	
100	256QAM	1	1			15.81	16.4	0.0	
Channel									
Frequency (MHz)				633000	633332	633590			
90	QPSK	1	1	14.97	14.85	14.67	16.4	0.0	
Channel									
Frequency (MHz)				3495	3499.98	3494.99			
80	QPSK	1	1	14.74	14.64	14.57	16.4	0.0	
Channel									
Frequency (MHz)				3490	3499.98	3494.99			
60	QPSK	1	1	14.81	14.76	14.88	16.4	0.0	
Channel									
Frequency (MHz)				631864	633332	635000			
50	QPSK	1	1	14.71	14.68	14.84	16.4	0.0	
Channel									
Frequency (MHz)				631324	633332	635332			
40	QPSK	1	1	14.60	14.56	14.74	16.4	0.0	
Channel									
Frequency (MHz)				631000	633332	635666			
30	QPSK	1	1	14.65	14.64	14.60	16.4	0.0	
Channel									
Frequency (MHz)				3489.92	3499.98	3494.99			
20	QPSK	1	1	14.59	14.64	14.87	16.4	0.0	



Part27Q_n78(HPUE)_Ant 2

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							
Frequency (MHz)			3499.98				
100 Pz2 BPSK	1	1	17.41				
100 Pz2 BPSK	1	137	18.14	19.4	0.0		
100 Pz2 BPSK	1	271	17.51				
100 Pz2 BPSK	135	0	18.76	19.4	0.0		
100 Pz2 BPSK	135	69	18.17	19.4	0.0		
100 Pz2 BPSK	135	138	18.09				
100 Pz2 BPSK	270	0	18.16	19.4	0.0		
100 QPSK	1	1	17.58				
100 QPSK	1	137	18.42	19.4	0.0		
100 QPSK	1	271	17.40				
100 QPSK	135	0	17.88				
100 QPSK	135	69	18.41	19.4	0.0		
100 QPSK	135	138	17.85				
100 QPSK	270	0	18.38	19.4	0.0		
100 16QAM	1	1	17.97	19.4	0.0		
100 16QAM	1	1	17.93	19.4	0.0		
100 25QAM	1	1	17.89	19.4	0.0		
Channel	633000	633352	633696	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3495	3499.98	3504.99				
90 QPSK	1	1	17.65	17.54	17.47	19.4	0.0
Channel	635000	633352	635000				
Frequency (MHz)	3490.02	3499.98	3519				
80 QPSK	1	1	17.72	17.41	17.53	19.4	0.0
Channel	636000	633352	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3480	3499.98	3519.99				
80 QPSK	1	1	17.88	17.43	17.61	19.4	0.0
Channel	637000	633352	637000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3470.02	3499.98	3529				
50 QPSK	1	1	17.58	17.53	17.50	19.4	0.0
Channel	638000	633352	638000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3460	3499.98	3539.98				
40 QPSK	1	1	17.60	17.54	17.64	19.4	0.0
Channel	639000	633352	639000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3450	3499.98	3549.99				
30 QPSK	1	1	17.78	17.42	17.44	19.4	0.0
Channel	639000	633352	639000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3440.02	3499.98	3549				
20 QPSK	1	1	17.75	17.44	17.52	19.4	0.0



Part270_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	14.83	3750				
100	Pi2 BPSK	1	137	15.59			16.4	0.0	
100	Pi2 BPSK	1	271	14.85					
100	Pi2 BPSK	135	0	15.20			16.4	0.0	
100	Pi2 BPSK	135	69	15.55			16.4	0.0	
100	Pi2 BPSK	135	138	15.42			16.4	0.0	
100	Pi2 BPSK	270	0	15.52					
100	QPSK	1	1	14.55			16.4	0.0	
100	QPSK	1	137	15.71					
100	QPSK	1	271	14.72					
100	QPSK	135	0	15.24			16.4	0.0	
100	QPSK	135	69	15.69					
100	QPSK	135	138	15.39					
100	QPSK	270	0	15.64			16.4	0.0	
100	16QAM	1	1	14.58			16.4	0.0	
100	64QAM	1	1	14.50			16.4	0.0	
100	256QAM	1	1	15.15			16.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649568	650000	650332	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	16.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.41	14.74	14.63	16.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.91	3750	3759.99	16.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.54	14.48	14.61	16.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648934	650000	651066	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3730.02	3750	3769.98	16.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.49	14.59	14.50	16.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.52	14.55	14.43	16.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652332	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3720	3750	3780	16.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.41	14.48	14.74	16.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3790.99	16.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.52	17.65	17.45	19.4	0.0	

Part270_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	17.40					
100	Pi2 BPSK	1	137	18.51			19.4	0.0	
100	Pi2 BPSK	1	271	17.98					
100	Pi2 BPSK	135	0	18.36			19.4	0.0	
100	Pi2 BPSK	135	69	18.60			19.4	0.0	
100	Pi2 BPSK	135	138	18.84			19.4	0.0	
100	Pi2 BPSK	270	0	18.58					
100	QPSK	1	1	17.52			19.4	0.0	
100	QPSK	1	137	18.78					
100	QPSK	1	271	17.90					
100	QPSK	135	0	18.49			19.4	0.0	
100	QPSK	135	69	18.76					
100	QPSK	135	138	18.83					
100	QPSK	270	0	18.78			19.4	0.0	
100	16QAM	1	1	18.48			19.4	0.0	
100	64QAM	1	1	17.43			19.4	0.0	
100	256QAM	1	1	17.72			19.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649568	650000	650332	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	19.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.63	17.67	17.40	19.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.91	3750	3759.99	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.49	17.65	17.65	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648934	650000	651066	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3720.01	3750	3770.99	19.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.40	17.56	17.61	19.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.50	17.56	17.67	19.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652332	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3790.99	19.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.52	17.65	17.45	19.4	0.0	

Part270_n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	19.40	3899.98				
100	Pi2 BPSK	1	137	20.16			21.3	0.0	
100	Pi2 BPSK	1	271	19.51					
100	Pi2 BPSK	135	0	20.16			21.3	0.0	
100	Pi2 BPSK	135	69	20.17			21.3	0.0	
100	Pi2 BPSK	135	138	20.21			21.3	0.0	
100	Pi2 BPSK	270	0	20.07					
100	QPSK	1	1	19.48			21.3	0.0	
100	QPSK	1	137	20.26					
100	QPSK	1	271	19.98					
100	QPSK	135	0	20.13			21.3	0.0	
100	QPSK	135	69	20.22					
100	QPSK	135	138	19.98					
100	QPSK	270	0	20.20			21.3	0.0	
100	16QAM	1	1	19.35			21.3	0.0	
100	64QAM	1	1	19.31			21.3	0.0	
100	256QAM	1	1	19.88			21.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633664	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3495	3499.98	3504.99	19.41	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.61	18.62	18.70	21.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3499.98	3500	19.89	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.87	18.80	18.89	21.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	631668	633332	635000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3499.98	3520	19.95	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.00	19.06	19.64	21.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.01	19.05	19.81	21.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	630998	633332	636000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3460.02	3499.98	3540	19.94	0.0	



Part27Q_n78(HPUE)_Ant 4

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							
Frequency (MHz)	3499.98						
100 Pz2 BPSK	1	1	22.23				
100 Pz2 BPSK	1	137	23.28	24.3	0.0		
100 Pz2 BPSK	1	271	22.33				
100 Pz2 BPSK	135	0	23.77	24.3	0.0		
100 Pz2 BPSK	135	69	23.22	24.3	0.0		
100 Pz2 BPSK	135	138	23.08	24.3	0.0		
100 Pz2 BPSK	270	0	23.18				
100 QPSK	1	1	22.46				
100 QPSK	1	137	23.31	24.3	0.0		
100 QPSK	1	271	22.38				
100 QPSK	135	0	23.18				
100 QPSK	135	69	23.27	24.3	0.0		
100 QPSK	135	138	23.04				
100 QPSK	270	0	23.28	24.3	0.0		
100 16QAM	1	1	22.73	24.3	0.0		
100 16QAM	1	1	22.12	23.8	0.0		
100 25QAM	1	1	20.07	21.0	2.5		
Channel	633000	633332	633666	Tune-up limit	MPR		
Frequency (MHz)	3499.98	3499.98	3504.99				
90 QPSK	1	1	22.63	22.46	22.61	24.3	0.0
Channel	633000	633332	633666	Tune-up limit	MPR		
Frequency (MHz)	3490.02	3499.98	3519.99				
80 QPSK	1	1	22.63	22.54	22.63	24.3	0.0
Channel	633000	633332	633666	Tune-up limit	MPR		
Frequency (MHz)	3480	3499.98	3519.99				
80 QPSK	1	1	22.74	22.66	22.62	24.3	0.0
Channel	631098	633332	635550	Tune-up limit	MPR		
Frequency (MHz)	3470.02	3499.98	3529.98				
50 QPSK	1	1	22.87	22.78	22.71	24.3	0.0
Channel	631334	633332	635332	Tune-up limit	MPR		
Frequency (MHz)	3460	3499.98	3524.99				
40 QPSK	1	1	22.90	22.87	22.87	24.3	0.0
Channel	631000	633332	635666	Tune-up limit	MPR		
Frequency (MHz)	3450	3499.98	3524.99				
30 QPSK	1	1	22.77	22.78	22.72	24.3	0.0
Channel	630998	633332	636000	Tune-up limit	MPR		
Frequency (MHz)	3440.02	3499.98	3524.99				
20 QPSK	1	1	22.87	22.90	22.85	24.3	0.0



Part270_n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	19.85	3750				
100	Pi2 BPSK	1	137	19.85			21.3	0.0	
100	Pi2 BPSK	1	271	19.85			21.3	0.0	
100	Pi2 BPSK	135	69	19.85			21.3	0.0	
100	Pi2 BPSK	135	138	19.72			21.3	0.0	
100	Pi2 BPSK	270	0	19.79			21.3	0.0	
100	QPSK	1	1	19.88			21.3	0.0	
100	QPSK	1	137	19.82			21.3	0.0	
100	QPSK	1	271	19.84			21.3	0.0	
100	QPSK	135	69	19.82			21.3	0.0	
100	QPSK	135	138	19.87			21.3	0.0	
100	QPSK	135	138	19.73			21.3	0.0	
100	QPSK	270	0	19.85			21.3	0.0	
100	16QAM	1	1	18.84			21.3	0.0	
100	16QAM	1	1	18.83			21.3	0.0	
100	256QAM	1	1	19.42			21.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649568	650000	650232	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.34	19.31	19.33	21.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.38	19.33	19.35	21.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.47	19.37	19.41	21.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.25	19.33	19.25	21.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652332	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.39	19.48	19.42	21.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.71	19.64	19.62	21.3	0.0	

Part270_n78(HPUE)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.23	3750				
100	Pi2 BPSK	1	137	22.29			24.3	0.0	
100	Pi2 BPSK	1	271	22.28			24.3	0.0	
100	Pi2 BPSK	135	69	22.86			24.3	0.0	
100	Pi2 BPSK	135	138	22.78			24.3	0.0	
100	Pi2 BPSK	135	138	22.78			24.3	0.0	
100	Pi2 BPSK	270	0	22.86			24.3	0.0	
100	QPSK	1	1	22.38			24.3	0.0	
100	QPSK	1	137	22.89			24.3	0.0	
100	QPSK	1	271	22.29			24.3	0.0	
100	QPSK	135	69	22.84			24.3	0.0	
100	QPSK	135	138	22.88			24.3	0.0	
100	QPSK	135	138	22.74			24.3	0.0	
100	QPSK	270	0	22.38			24.3	0.0	
100	16QAM	1	1	22.24			24.3	0.0	
100	16QAM	1	1	21.76			23.8	0.5	
100	256QAM	1	1	19.75			21.3	2.3	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649568	650000	650232	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.31	22.37	22.34	24.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.81	22.81	22.45	24.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.48	22.53	22.52	24.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.57	22.59	22.56	24.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.28	22.33	22.21	24.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.28	22.33	22.21	24.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652332	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.50	22.60	22.54	24.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.76	22.76	22.69	24.3	0.0	

Part270_n78_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	19.62	3499.98				
100	Pi2 BPSK	1	137	19.62			21.0	0.0	
100	Pi2 BPSK	1	271	19.66			21.0	0.0	
100	Pi2 BPSK	135	69	20.21			21.0	0.0	
100	Pi2 BPSK	135	138	20.42			21.0	0.0	
100	Pi2 BPSK	135	138	20.33			21.0	0.0	
100	Pi2 BPSK	270	0	20.26			21.0	0.0	
100	QPSK	1	1	19.66			21.0	0.0	
100	QPSK	1	137	20.44			21.0	0.0	
100	QPSK	1	271	19.70			21.0	0.0	
100	QPSK	135	69	20.22			21.0	0.0	
100	QPSK	135	138	20.31			21.0	0.0	
100	QPSK	270	0	20.38			21.0	0.0	
100	16QAM	1	1	19.44			21.0	0.0	
100	16QAM	1	1	19.43			21.0	0.0	
100	256QAM	1	1	20.06			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633664	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3499.98	3499.98	3499.98	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.31	19.29	19.26	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.40	19.43	19.51	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.62	19.66	19.66	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.89	19.83	19.89	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635664	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.54	19.63	19.67	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630998	633332	636000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.14	20.09	20.16	21.0	0.0	



Part27Q_n78(HPUE)_Ant 5

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)	3499.98				
100 Pz2 BPSK	1	1	22.22		
100 Pz2 BPSK	1	137	23.19	24.0	0.0
100 Pz2 BPSK	1	271	22.36		
100 Pz2 BPSK	135	0	23.98	24.0	0.0
100 Pz2 BPSK	135	69	23.17	24.0	0.0
100 Pz2 BPSK	135	138	23.18		
100 Pz2 BPSK	270	0	23.98	24.0	0.0
100 QPSK	1	1	22.34		
100 QPSK	1	137	23.30	24.0	0.0
100 QPSK	1	271	22.32		
100 QPSK	135	0	23.98	24.0	0.0
100 QPSK	135	69	23.28	24.0	0.0
100 QPSK	135	138	23.18		
100 QPSK	270	0	23.27	24.0	0.0
100 16QAM	1	1	22.48	24.0	0.0
100 16QAM	1	1	22.40	24.0	0.0
100 25QAM	1	1	21.33	23.0	1.0
Channel	633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)	3499	3499.98	3504.99		
90 QPSK	1	1	22.47	22.47	22.56
Channel	633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)	3490.02	3499.98	3519		
80 QPSK	1	1	22.42	22.46	22.47
Channel	633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)	3480	3499.98	3519.99		
80 QPSK	1	1	22.51	22.47	22.50
Channel	631098	633332	635550	Tune-up limit	MPR
Frequency (MHz)	3475.02	3499.98	3525		
50 QPSK	1	1	22.54	22.60	22.56
Channel	631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)	3470.01	3499.98	3529.98		
40 QPSK	1	1	22.25	22.33	22.45
Channel	631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)	3465	3499.98	3534.99		
30 QPSK	1	1	22.79	22.83	23.01
Channel	630698	633332	636000	Tune-up limit	MPR
Frequency (MHz)	3460.02	3499.98	3540		
20 QPSK	1	1	22.99	23.05	23.04



Part270_n78_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.46	3750				
100	PI2 BPSK	1	137	20.30			21.0	0.0	
100	PI2 BPSK	1	271	19.60					
100	PI2 BPSK	135	0	20.17			21.0	0.0	
100	PI2 BPSK	135	69	20.25			21.0	0.0	
100	PI2 BPSK	135	138	20.19			21.0	0.0	
100	PI2 BPSK	270	0	20.15					
100	QPSK	1	1	19.42					
100	QPSK	1	137	20.38			21.0	0.0	
100	QPSK	1	271	19.27					
100	QPSK	135	0	20.09					
100	QPSK	135	69	20.32			21.0	0.0	
100	QPSK	135	138	20.17					
100	QPSK	270	0	20.28			21.0	0.0	
100	16QAM	1	1	19.22			21.0	0.0	
100	64QAM	1	1	19.26			21.0	0.0	
100	256QAM	1	1	19.41			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.50	19.45	19.30	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.49	19.64	19.61	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.77	19.83	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.97	20.08	20.04	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.83	19.91	19.95	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.00	20.09	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.14	20.24	20.31	21.0	0.0	

Part270_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.24	3750				
100	PI2 BPSK	1	137	23.24			24.0	0.0	
100	PI2 BPSK	1	271	22.40					
100	PI2 BPSK	135	0	23.98			24.0	0.0	
100	PI2 BPSK	135	69	23.23			24.0	0.0	
100	PI2 BPSK	135	138	23.21			24.0	0.0	
100	PI2 BPSK	270	0	23.16					
100	QPSK	1	1	22.18					
100	QPSK	1	137	23.28			24.0	0.0	
100	QPSK	1	271	22.31					
100	QPSK	135	0	23.16					
100	QPSK	135	69	23.28			24.0	0.0	
100	QPSK	135	138	23.17					
100	QPSK	270	0	23.22			24.0	0.0	
100	16QAM	1	1	22.47			24.0	0.0	
100	64QAM	1	1	22.33			24.0	0.0	
100	256QAM	1	1	22.22			24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.45	22.37	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.85	22.82	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.72	22.71	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.97	22.97	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.81	22.70	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.88	22.93	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.07	23.10	23.19	24.0	0.0	

Part270_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.29	3499.98				
100	PI2 BPSK	1	137	20.47			21.3	0.0	
100	PI2 BPSK	1	271	19.35					
100	PI2 BPSK	135	0	20.39			21.3	0.0	
100	PI2 BPSK	135	69	20.41			21.3	0.0	
100	PI2 BPSK	135	138	20.27			21.3	0.0	
100	PI2 BPSK	270	0	20.28					
100	QPSK	1	1	19.62					
100	QPSK	1	137	20.51			21.3	0.0	
100	QPSK	1	271	19.58					
100	QPSK	135	0	20.32					
100	QPSK	135	69	20.47			21.3	0.0	
100	QPSK	135	138	20.23					
100	QPSK	270	0	20.24			21.3	0.0	
100	16QAM	1	1	19.38			20.8	0.5	
100	64QAM	1	1	19.40			20.8	0.5	
100	256QAM	1	1	19.46			20.7	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.88	19.64	19.72	21.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.89	19.65	19.75	21.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.84	19.88	19.84	21.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.02	19.97	20.00	21.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.75	19.80	19.79	21.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.87	19.91	19.92	21.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.14	20.09	20.15	21.3	0.0	



Part27Q_n78(HPUE)_Ant 6

Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.25	3499.98		24.3	0.0
100	P12 BPSK	1	137	23.50				
100	P12 BPSK	1	271	22.50				
100	P12 BPSK	135	0	23.37			24.3	0.0
100	P12 BPSK	135	69	23.35			24.3	0.0
100	P12 BPSK	135	138	23.27			24.3	0.0
100	P12 BPSK	270	0	23.34				
100	QPSK	1	1	22.95			24.3	0.0
100	QPSK	1	137	23.03				
100	QPSK	1	271	22.54				
100	QPSK	135	0	22.83			24.3	0.0
100	QPSK	135	69	23.48				
100	QPSK	135	138	22.76				
100	QPSK	270	0	23.07			23.8	0.5
100	16QAM	1	1	22.48			23.8	0.5
100	16QAM	1	1	20.95			22.3	2.0
100	25QAM	1	1	18.83			20.3	4.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.71	22.80	22.77	24.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.82	22.83	22.83	24.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.01	23.07	22.95	24.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.22	23.26	23.18	24.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.92	22.88	22.91	24.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.13	23.18	23.12	24.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.33	23.25	23.27	24.3	0.0



Part270_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	19.42	3750				
100	Pi2 BPSK	1	137	20.33			21.3	0.0	
100	Pi2 BPSK	1	271	19.43					
100	Pi2 BPSK	135	0	20.17			21.3	0.0	
100	Pi2 BPSK	135	69	20.31			21.3	0.0	
100	Pi2 BPSK	135	138	20.04			21.3	0.0	
100	Pi2 BPSK	270	0	20.08					
100	QPSK	1	1	19.45					
100	QPSK	1	137	20.42			21.3	0.0	
100	QPSK	1	271	19.47					
100	QPSK	135	0	20.12					
100	QPSK	135	69	20.32			21.3	0.0	
100	QPSK	135	138	20.02					
100	QPSK	270	0	20.15			21.3	0.0	
100	16QAM	1	1	19.17			20.8	0.5	
100	64QAM	1	1	19.19			20.8	0.5	
100	256QAM	1	1	19.23			20.3	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.54	19.50	19.56	21.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.81	19.81	19.84	21.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.94	19.95	19.95	21.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.05	20.01	20.08	21.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.91	19.76	19.90	21.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.05	20.02	20.00	21.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.12	20.07	20.08	21.3	0.0	

Part270_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.29	3750				
100	Pi2 BPSK	1	137	23.17			24.3	0.0	
100	Pi2 BPSK	1	271	22.31					
100	Pi2 BPSK	135	0	23.08			24.3	0.0	
100	Pi2 BPSK	135	69	23.12			24.3	0.0	
100	Pi2 BPSK	135	138	22.97			24.3	0.0	
100	Pi2 BPSK	270	0	23.01					
100	QPSK	1	1	22.33					
100	QPSK	1	137	23.32			24.3	0.0	
100	QPSK	1	271	22.38					
100	QPSK	135	0	22.95					
100	QPSK	135	69	23.23			24.3	0.0	
100	QPSK	135	138	22.47					
100	QPSK	270	0	22.55			23.8	0.5	
100	16QAM	1	1	21.98			23.8	0.5	
100	64QAM	1	1	20.42			22.3	2.0	
100	256QAM	1	1	18.95			20.3	4.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.51	22.55	22.52	24.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.84	22.85	22.85	24.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.73	22.72	22.80	24.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.84	22.90	23.00	24.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.58	22.55	22.62	24.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.75	22.85	22.90	24.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.97	22.95	23.07	24.3	0.0	



n7_Ant 1										
RF ID#	Modulation	RF Size	FE Offset	Trans. Power (dBm)	Trans. Ch. Freq. (MHz)	Trans. Ch. Freq. (MHz)	Trans. Power (dBm)	Trans. Power (dBm)	Trans. Power (dBm)	LFPS (dB)
Channel										
00	FFV BPSK	1	1	2132	2147	2150				
Frequency (MHz)										
00	FFV BPSK	1	1	2136	2151	2154	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2140	2155	2158				
Frequency (MHz)										
00	FFV BPSK	1	1	2144	2159	2162	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2148	2163	2166				
Frequency (MHz)										
00	FFV BPSK	1	1	2152	2167	2170	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2156	2171	2174				
Frequency (MHz)										
00	FFV BPSK	1	1	2160	2175	2178	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2164	2179	2182				
Frequency (MHz)										
00	FFV BPSK	1	1	2168	2183	2186	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2172	2187	2190				
Frequency (MHz)										
00	FFV BPSK	1	1	2176	2191	2194	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2180	2195	2198				
Frequency (MHz)										
00	FFV BPSK	1	1	2184	2199	2202	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2188	2203	2206				
Frequency (MHz)										
00	FFV BPSK	1	1	2192	2207	2210	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2196	2211	2214				
Frequency (MHz)										
00	FFV BPSK	1	1	2200	2215	2218	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2204	2219	2222				
Frequency (MHz)										
00	FFV BPSK	1	1	2208	2223	2226	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2212	2227	2230				
Frequency (MHz)										
00	FFV BPSK	1	1	2216	2231	2234	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2220	2235	2238				
Frequency (MHz)										
00	FFV BPSK	1	1	2224	2239	2242	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2228	2243	2246				
Frequency (MHz)										
00	FFV BPSK	1	1	2232	2247	2250	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2236	2251	2254				
Frequency (MHz)										
00	FFV BPSK	1	1	2240	2255	2258	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2244	2259	2262				
Frequency (MHz)										
00	FFV BPSK	1	1	2248	2263	2266	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2252	2267	2270				
Frequency (MHz)										
00	FFV BPSK	1	1	2256	2271	2274	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2260	2275	2278				
Frequency (MHz)										
00	FFV BPSK	1	1	2264	2279	2282	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2268	2283	2286				
Frequency (MHz)										
00	FFV BPSK	1	1	2272	2287	2290	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2276	2291	2294				
Frequency (MHz)										
00	FFV BPSK	1	1	2280	2295	2298	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2284	2299	2302				
Frequency (MHz)										
00	FFV BPSK	1	1	2288	2303	2306	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2292	2307	2310				
Frequency (MHz)										
00	FFV BPSK	1	1	2296	2311	2314	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2300	2315	2318				
Frequency (MHz)										
00	FFV BPSK	1	1	2304	2319	2322	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2308	2323	2326				
Frequency (MHz)										
00	FFV BPSK	1	1	2312	2327	2330	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2316	2331	2334				
Frequency (MHz)										
00	FFV BPSK	1	1	2320	2335	2338	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2324	2339	2342				
Frequency (MHz)										
00	FFV BPSK	1	1	2328	2343	2346	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2332	2347	2350				
Frequency (MHz)										
00	FFV BPSK	1	1	2336	2351	2354	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2340	2355	2358				
Frequency (MHz)										
00	FFV BPSK	1	1	2344	2359	2362	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2348	2363	2366				
Frequency (MHz)										
00	FFV BPSK	1	1	2352	2367	2370	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2356	2371	2374				
Frequency (MHz)										
00	FFV BPSK	1	1	2360	2375	2378	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2364	2379	2382				
Frequency (MHz)										
00	FFV BPSK	1	1	2368	2383	2386	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2372	2387	2390				
Frequency (MHz)										
00	FFV BPSK	1	1	2376	2391	2394	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2380	2395	2398				
Frequency (MHz)										
00	FFV BPSK	1	1	2384	2399	2402	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2388	2403	2406				
Frequency (MHz)										
00	FFV BPSK	1	1	2392	2407	2410	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2396	2411	2414				
Frequency (MHz)										
00	FFV BPSK	1	1	2400	2415	2418	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2404	2419	2422				
Frequency (MHz)										
00	FFV BPSK	1	1	2408	2423	2426	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2412	2427	2430				
Frequency (MHz)										
00	FFV BPSK	1	1	2416	2431	2434	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2420	2435	2438				
Frequency (MHz)										
00	FFV BPSK	1	1	2424	2439	2442	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2428	2443	2446				
Frequency (MHz)										
00	FFV BPSK	1	1	2432	2447	2450	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2436	2451	2454				
Frequency (MHz)										
00	FFV BPSK	1	1	2440	2455	2458	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2444	2459	2462				
Frequency (MHz)										
00	FFV BPSK	1	1	2448	2463	2466	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2452	2467	2470				
Frequency (MHz)										
00	FFV BPSK	1	1	2456	2471	2474	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2460	2475	2478				
Frequency (MHz)										
00	FFV BPSK	1	1	2464	2479	2482	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2468	2483	2486				
Frequency (MHz)										
00	FFV BPSK	1	1	2472	2487	2490	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2476	2491	2494				
Frequency (MHz)										
00	FFV BPSK	1	1	2480	2495	2498	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2484	2499	2502				
Frequency (MHz)										
00	FFV BPSK	1	1	2488	2503	2506	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2492	2507	2510				
Frequency (MHz)										
00	FFV BPSK	1	1	2496	2511	2514	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2500	2515	2518				
Frequency (MHz)										
00	FFV BPSK	1	1	2504	2519	2522	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2508	2523	2526				
Frequency (MHz)										
00	FFV BPSK	1	1	2512	2527	2530	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2516	2531	2534				
Frequency (MHz)										
00	FFV BPSK	1	1	2520	2535	2538	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2524	2539	2542				
Frequency (MHz)										
00	FFV BPSK	1	1	2528	2543	2546	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2532	2547	2550				
Frequency (MHz)										
00	FFV BPSK	1	1	2536	2551	2554	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2540	2555	2558				
Frequency (MHz)										
00	FFV BPSK	1	1	2544	2559	2562	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2548	2563	2566				
Frequency (MHz)										
00	FFV BPSK	1	1	2552	2567	2570	20.1	0.0		
Channel										
00	FFV BPSK	1	1	2556	2571	2574				
Frequency (MHz)										



n38_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2590.02	2595	2599.98	
40	PV2 BPSK	1	1	21.93	22.03	21.93	
40	PV2 BPSK	1	53	22.43	22.52	22.42	23.5
40	PV2 BPSK	1	104	22.01	22.09	21.98	
40	PV2 BPSK	50	0	22.23	22.30	22.30	21.9
40	PV2 BPSK	50	28	22.44	22.55	22.43	23.5
40	PV2 BPSK	50	56	22.25	22.36	22.27	
40	PV2 BPSK	100	0	22.37	22.46	22.33	23.5
40	QPSK	1	1	21.94	22.04	22.02	
40	QPSK	1	53	22.51	22.56	22.01	23.5
40	QPSK	1	104	21.97	22.07	22.01	
40	QPSK	50	0	22.34	22.36	22.26	21.9
40	QPSK	50	28	22.49	22.55	22.41	23.5
40	QPSK	50	56	22.34	22.42	22.35	
40	QPSK	100	0	22.39	22.41	22.33	21.9
40	16QAM	1	1	21.95	21.77	21.85	23.5
40	64QAM	1	1	21.36	21.39	21.31	23.0
40	256QAM	1	1	19.89	19.93	19.84	21.0
Channel							
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	21.89	21.98	21.87	23.5
Channel							
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	1	21.87	21.95	21.81	23.5

n38_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2590.02	2595	2599.98	
40	PV2 BPSK	1	1	20.07	20.09	20.07	
40	PV2 BPSK	1	53	20.44	20.54	20.44	21.9
40	PV2 BPSK	1	104	20.03	20.08	20.00	
40	PV2 BPSK	50	0	20.39	20.48	20.38	21.9
40	PV2 BPSK	50	28	20.45	20.53	20.43	21.9
40	PV2 BPSK	50	56	20.40	20.44	20.37	
40	PV2 BPSK	100	0	20.41	20.46	20.36	21.9
40	QPSK	1	1	20.13	20.15	20.06	
40	QPSK	1	53	20.50	20.56	20.12	21.9
40	QPSK	1	104	19.99	20.04	19.94	
40	QPSK	50	0	20.36	20.45	20.36	21.9
40	QPSK	50	28	20.51	20.52	20.50	
40	QPSK	50	56	20.41	20.41	20.40	
40	QPSK	100	0	20.47	20.49	20.41	21.9
40	16QAM	1	1	19.95	20.04	19.94	21.9
40	64QAM	1	1	20.03	20.05	19.97	21.9
40	256QAM	1	1	19.02	19.03	19.00	20.4
Channel							
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	19.99	20.01	20.07	21.9
Channel							
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	1	20.06	20.08	19.98	21.9

n38_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2590.02	2595	2599.98	
40	PV2 BPSK	1	1	20.24	20.26	20.25	
40	PV2 BPSK	1	53	20.31	20.41	20.33	22.2
40	PV2 BPSK	1	104	20.23	20.22	20.21	
40	PV2 BPSK	50	0	20.26	20.27	20.21	22.2
40	PV2 BPSK	50	28	20.39	20.42	20.42	22.2
40	PV2 BPSK	50	56	20.27	20.36	20.29	
40	PV2 BPSK	100	0	20.26	20.34	20.27	22.2
40	QPSK	1	1	20.24	20.25	20.22	
40	QPSK	1	53	20.35	20.47	20.36	22.2
40	QPSK	1	104	20.21	20.24	20.25	
40	QPSK	50	0	20.33	20.34	20.32	21.9
40	QPSK	50	28	20.35	20.45	20.44	22.2
40	QPSK	50	56	20.34	20.34	20.30	
40	QPSK	100	0	20.30	20.33	20.23	22.2
40	16QAM	1	1	20.23	20.23	20.21	22.2
40	64QAM	1	1	20.25	20.24	20.25	22.2
40	256QAM	1	1	19.21	19.31	19.31	21.2
Channel							
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	20.24	20.23	20.21	22.2
Channel							
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	1	20.25	20.26	20.23	22.2



n38_Ant 3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 181604	Power Middle Ch. / Freq. / 209000	Power High Ch. / Freq. / 239936	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.52	22.56	22.58		
40	PI2 BPSK	1	53	23.21	23.20	23.12	24.1	0.0
40	PI2 BPSK	1	104	22.83	22.80	22.67		
40	PI2 BPSK	50	0	22.79	22.82	22.79	24.1	0.0
40	PI2 BPSK	50	28	23.92	23.95	23.95	24.1	0.0
40	PI2 BPSK	50	56	22.91	22.98	22.98	24.1	0.0
40	PI2 BPSK	100	0	22.83	22.89	22.84		
40	QPSK	1	1	22.43	22.52	22.58		
40	QPSK	1	53	23.02	23.21	23.09	24.1	0.0
40	QPSK	1	104	22.79	22.68	22.67		
40	QPSK	50	0	22.28	22.28	22.32		
40	QPSK	50	28	22.50	22.18	22.02	24.1	0.0
40	QPSK	50	56	22.26	22.34	22.38		
40	QPSK	100	0	22.43	22.57	22.24	23.6	0.5
40	16QAM	1	1	21.65	21.70	21.73	23.6	0.5
40	64QAM	1	1	20.24	20.30	20.33	22.1	2.0
40	256QAM	1	1	18.83	18.82	18.85	20.1	4.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.44	22.53	22.53	24.1	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.46	22.51	22.43	24.1	0.0

n41_FCC_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 509602	Power Middle Ch. / Freq. / 518598	Power High Ch. / Freq. / 526000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.17	22.19	22.22		
100	PI2 BPSK	1	137	23.10	23.14	23.07	24.0	0.0
100	PI2 BPSK	1	271	22.29	22.34	22.34		
100	PI2 BPSK	135	0	22.94	22.93	22.89	24.0	0.0
100	PI2 BPSK	135	69	23.22	23.24	23.15	24.0	0.0
100	PI2 BPSK	135	138	22.97	22.96	22.90	24.0	0.0
100	PI2 BPSK	270	0	23.00	22.97	22.90		
100	QPSK	1	1	22.23	22.25	22.11		
100	QPSK	1	137	23.32	23.25	23.24	24.0	0.0
100	QPSK	1	271	22.16	22.30	22.34		
100	QPSK	135	0	22.95	22.91	22.89	24.0	0.0
100	QPSK	135	69	23.10	23.22	23.20	24.0	0.0
100	QPSK	135	138	22.84	22.96	22.83		
100	QPSK	270	0	22.84	22.95	22.87	24.0	0.0
100	16QAM	1	1	22.95	22.90	22.93	24.0	0.0
100	64QAM	1	1	21.01	21.03	21.06	23.0	1.0
100	256QAM	1	1	19.44	19.23	19.20	21.0	3.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.05	22.18	22.16	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.11	22.15	22.12	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.16	22.12	22.20	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.15	22.08	22.20	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.00	22.12	22.15	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.14	22.10	22.14	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.02	22.14	22.21	24.0	0.0

n41_FCC_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 506002	Power Middle Ch. / Freq. / 516598	Power High Ch. / Freq. / 526000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.92	19.95	19.93		
100	PI2 BPSK	1	137	20.43	20.49	20.42	21.9	0.0
100	PI2 BPSK	1	271	19.96	19.98	19.92		
100	PI2 BPSK	135	0	20.45	20.46	20.42	21.9	0.0
100	PI2 BPSK	135	69	20.47	20.56	20.55	21.9	0.0
100	PI2 BPSK	135	138	20.29	20.36	20.28	21.9	0.0
100	PI2 BPSK	270	0	20.36	20.38	20.37		
100	QPSK	1	1	19.94	19.95	19.95		
100	QPSK	1	137	20.57	20.55	20.57	21.9	0.0
100	QPSK	1	271	19.93	19.94	19.92		
100	QPSK	135	0	20.36	20.44	20.37		
100	QPSK	135	69	20.54	20.52	20.43	21.9	0.0
100	QPSK	135	138	20.28	20.29	20.27		
100	QPSK	270	0	20.23	20.23	20.26	21.9	0.0
100	16QAM	1	1	19.98	19.95	19.92	21.9	0.0
100	64QAM	1	1	19.93	19.96	19.96	21.9	0.0
100	256QAM	1	1	18.91	18.87	18.82	20.4	1.3
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.93	19.94	19.92	21.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.99	19.94	19.97	21.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.98	19.93	19.91	21.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.91	19.95	19.90	21.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.98	19.95	19.90	21.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.97	19.95	19.91	21.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.92	19.91	19.92	21.9	0.0



n41_FCC_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.28	20.28	20.21			
100	PI2 BPSK	1	137	20.55	20.63	20.52	22.2	0.0	
100	PI2 BPSK	1	271	20.26	20.28	20.29			
100	PI2 BPSK	136	0	20.43	20.40	20.44	22.2	0.0	
100	PI2 BPSK	136	69	20.46	20.53	20.43	22.2	0.0	
100	PI2 BPSK	136	138	20.40	20.45	20.41	22.2	0.0	
100	PI2 BPSK	270	0	20.44	20.42	20.43			
100	QPSK	1	1	20.21	20.22	20.20			
100	QPSK	1	137	20.55	20.64	20.63	22.2	0.0	
100	QPSK	1	271	20.28	20.23	20.23			
100	QPSK	136	0	20.46	20.51	20.30			
100	QPSK	136	69	20.61	20.63	20.62	22.2	0.0	
100	QPSK	136	138	20.52	20.52	20.53			
100	QPSK	270	0	20.50	20.61	20.51	22.2	0.0	
100	16QAM	1	1	20.28	20.25	20.20	22.2	0.0	
100	16QAM	1	1	20.29	20.37	20.29	22.2	0.0	
100	25QAM	1	1	19.22	19.30	19.34	21.2	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.38	20.41	20.43	22.2	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.42	20.41	20.40	22.2	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.38	20.48	20.42	22.2	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.43	20.46	20.44	22.2	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.38	20.44	20.40	22.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.36	20.44	20.45	22.2	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.41	20.47	20.39	22.2	0.0	

n41_FCC_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.67	22.65	22.63			
100	PI2 BPSK	1	137	23.42	23.45	23.42	24.6	0.0	
100	PI2 BPSK	1	271	22.66	22.78	22.66			
100	PI2 BPSK	136	0	22.67	22.73	22.66	24.1	0.5	
100	PI2 BPSK	136	69	23.38	23.48	23.33	24.6	0.0	
100	PI2 BPSK	136	138	22.59	22.71	22.68	24.1	0.5	
100	PI2 BPSK	270	0	22.68	22.75	22.61			
100	QPSK	1	1	22.62	22.61	22.66			
100	QPSK	1	137	23.31	23.57	23.32	24.6	0.0	
100	QPSK	1	271	22.61	22.72	22.61			
100	QPSK	136	0	22.32	22.38	22.23			
100	QPSK	136	69	23.26	23.53	23.20	24.6	0.0	
100	QPSK	136	138	22.33	22.48	22.43			
100	QPSK	270	0	22.25	22.40	22.16	23.6	1.0	
100	16QAM	1	1	21.69	21.62	21.61	23.6	1.0	
100	16QAM	1	1	20.17	20.15	20.10	22.1	2.5	
100	25QAM	1	1	18.25	18.40	18.22	20.1	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.24	23.62	23.19	24.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.17	23.54	23.20	24.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.23	23.63	23.25	24.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.24	23.40	23.25	24.6	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.14	23.53	23.26	24.6	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.23	23.50	23.22	24.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.23	23.45	23.23	24.6	0.0	

Part27Q_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1			3499.98			
100	PI2 BPSK	1	137			3499.55	20.4	0.0	
100	PI2 BPSK	1	271			3499.55			
100	PI2 BPSK	136	0			3499.54	20.4	0.0	
100	PI2 BPSK	136	69			3499.55	20.4	0.0	
100	PI2 BPSK	136	138			3499.55	20.4	0.0	
100	PI2 BPSK	270	0			3499.55			
100	QPSK	1	1			3499.55			
100	QPSK	1	137			3499.55	20.4	0.0	
100	QPSK	1	271			3499.55			
100	QPSK	136	0			3499.55	20.4	0.0	
100	QPSK	136	69			3499.55	20.4	0.0	
100	QPSK	136	138			3499.55	20.4	0.0	
100	QPSK	270	0			3499.55	20.4	0.0	
100	16QAM	1	1			3499.55	20.4	0.0	
100	16QAM	1	1			3499.55	20.4	0.0	
100	25QAM	1	1			3499.55	20.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1			3499.55	18.95	20.4	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1			3499.55	18.91	20.4	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1			3499.55	18.87	20.4	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1			3499.55	18.85	20.4	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1			3499.55	18.81	20.4	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1			3499.55	18.85	20.4	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1			3499.55	18.85	20.4	0.0



Part27Q_n78(HPUE)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	PV2 BPSK	1	1	21.81				
100	PV2 BPSK	1	137	22.48			23.4	0.0
100	PV2 BPSK	1	271	21.41				
100	PV2 BPSK	135	0	22.37			23.4	0.0
100	PV2 BPSK	135	69	22.48			23.4	0.0
100	PV2 BPSK	135	138	22.20				
100	PV2 BPSK	270	0	22.23				
100	QPSK	1	1	21.37				
100	QPSK	1	137	22.49			23.4	0.0
100	QPSK	1	271	21.41				
100	QPSK	135	0	22.36				
100	QPSK	135	69	22.48			23.4	0.0
100	QPSK	135	138	22.23				
100	QPSK	270	0	22.28			23.4	0.0
100	16QAM	1	1	21.89			23.4	0.0
100	64QAM	1	1	21.80			23.4	0.0
100	256QAM	1	1	21.70			23.4	0.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	21.55	21.60	21.61	23.4	0.0
Channel				632666	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	21.50	21.51	21.54	23.4	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	21.49	21.50	21.59	23.4	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3505		
50	QPSK	1	1	21.52	21.58	21.57	23.4	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.01	3499.98	3503.98		
40	QPSK	1	1	21.52	21.59	21.58	23.4	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3450	3499.98	3514.99		
30	QPSK	1	1	21.51	21.50	21.61	23.4	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440.02	3499.98	3510		
20	QPSK	1	1	21.49	21.50	21.50	23.4	0.0



Part270_n78_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.24	3750			
100	PI2 BPSK	1	137	19.41			20.4	0.0
100	PI2 BPSK	1	271	18.65				
100	PI2 BPSK	135	0	19.26			20.4	0.0
100	PI2 BPSK	135	69	19.47			20.4	0.0
100	PI2 BPSK	135	138	19.32			20.4	0.0
100	PI2 BPSK	270	0	19.28			20.4	0.0
100	QPSK	1	1	18.60				
100	QPSK	1	137	19.48			20.4	0.0
100	QPSK	1	271	18.63				
100	QPSK	135	0	19.18			20.4	0.0
100	QPSK	135	69	19.39			20.4	0.0
100	QPSK	135	138	19.23			20.4	0.0
100	QPSK	270	0	19.21			20.4	0.0
100	16QAM	1	1	18.44			20.4	0.0
100	64QAM	1	1	18.40			20.4	0.0
100	256QAM	1	1	18.50			20.4	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.29	3750	3754.98	20.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.23	3750	3759.99	20.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.23	3750	3759.98	20.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.28	65000	651166	20.4	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.20	65000	652000	20.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.26	65000	652666	20.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.25	3750	3761.99	20.4	0.0

Part270_n78(HPUE)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.40	3750			
100	PI2 BPSK	1	137	22.36			23.4	0.0
100	PI2 BPSK	1	271	21.47				
100	PI2 BPSK	135	0	22.11			23.4	0.0
100	PI2 BPSK	135	69	22.32			23.4	0.0
100	PI2 BPSK	135	138	22.12			23.4	0.0
100	PI2 BPSK	270	0	22.14			23.4	0.0
100	QPSK	1	1	21.40				
100	QPSK	1	137	22.39			23.4	0.0
100	QPSK	1	271	21.42				
100	QPSK	135	0	22.08			23.4	0.0
100	QPSK	135	69	22.38			23.4	0.0
100	QPSK	135	138	22.09			23.4	0.0
100	QPSK	270	0	22.12			23.4	0.0
100	16QAM	1	1	21.48			23.4	0.0
100	64QAM	1	1	21.40			23.4	0.0
100	256QAM	1	1	21.43			23.4	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.45	65000	650332	23.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.40	65000	650999	23.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.40	65000	651332	23.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.41	65000	651666	23.4	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.47	65000	652000	23.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.43	65000	652666	23.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.41	3750	3763.99	23.4	0.0

Part270_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.52	3499.98			
100	PI2 BPSK	1	137	22.33			23.3	0.0
100	PI2 BPSK	1	271	21.31				
100	PI2 BPSK	135	0	22.31			23.3	0.0
100	PI2 BPSK	135	69	22.30			23.3	0.0
100	PI2 BPSK	135	138	22.15			23.3	0.0
100	PI2 BPSK	270	0	22.17			23.3	0.0
100	QPSK	1	1	21.60				
100	QPSK	1	137	22.35			23.3	0.0
100	QPSK	1	271	21.34				
100	QPSK	135	0	22.26			23.3	0.0
100	QPSK	135	69	22.32			23.3	0.0
100	QPSK	135	138	22.09			23.3	0.0
100	QPSK	270	0	22.29			23.3	0.0
100	16QAM	1	1	21.44			23.3	1.0
100	64QAM	1	1	21.40			23.3	1.0
100	256QAM	1	1	21.42			23.3	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.54	63300	63350	23.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.68	63300	63350	23.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.84	63300	63350	23.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.99	63300	63350	23.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.77	63300	63350	23.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.95	63300	63350	23.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.09	3499.98	3504.99	23.3	0.0



Part27Q_n78(HPUE)_Ant 4

Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
100	P12 BPSK	1	1	24.32				
100	P12 BPSK	1	137	25.28	26.3	0.0		
100	P12 BPSK	1	271	24.34				
100	P12 BPSK	155	0	26.79	26.6	0.0		
100	P12 BPSK	155	69	25.32	26.3	0.0		
100	P12 BPSK	155	138	24.64	25.8	0.5		
100	P12 BPSK	270	0	24.74				
100	QPSK	1	1	24.63				
100	QPSK	1	137	25.32	26.3	0.0		
100	QPSK	1	271	24.30				
100	QPSK	155	0	24.31				
100	QPSK	155	69	25.30	26.3	0.0		
100	QPSK	155	138	24.32				
100	QPSK	270	0	24.27	26.3	1.0		
100	16QAM	1	1	23.74	25.3	1.0		
100	64QAM	1	1	22.36	23.8	2.5		
100	256QAM	1	1	20.24	21.2	4.5		
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	24.53	24.45	24.44	26.3	0.0
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	24.65	24.63	24.62	26.3	0.0
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	24.79	24.72	24.70	26.3	0.0
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	24.87	24.84	24.81	26.3	0.0
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	24.64	24.62	24.61	26.3	0.0
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	24.86	24.81	24.79	26.3	0.0
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	24.97	24.94	24.92	26.3	0.0



Part270_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	21.22	3750			
100	P12 BPSK	1	137	21.94			23.3	0.0
100	P12 BPSK	1	271	21.00				
100	P12 BPSK	135	0	21.86			23.3	0.0
100	P12 BPSK	135	69	21.90			23.3	0.0
100	P12 BPSK	135	138	21.82			23.3	0.0
100	P12 BPSK	270	0	21.71			23.3	0.0
100	QPSK	1	1	21.01				
100	QPSK	1	137	21.97			23.3	0.0
100	QPSK	1	271	21.03				
100	QPSK	135	0	21.87			23.3	0.0
100	QPSK	135	69	21.94			23.3	0.0
100	QPSK	135	138	21.76			23.3	0.0
100	QPSK	270	0	21.75			22.8	0.5
100	16QAM	1	1	20.92			22.3	1.0
100	64QAM	1	1	20.64			22.3	1.0
100	256QAM	1	1	19.73			21.8	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.04	3750	3754.98	23.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.01	3750	3759.99	23.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.39	21.41	21.44	23.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.44	21.41	21.46	23.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.31	21.32	21.34	23.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.47	21.45	21.46	23.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.62	21.62	21.67	23.3	0.0

Part270_n78(HPUE)_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	24.20	3750			
100	P12 BPSK	1	137	24.97			26.3	0.0
100	P12 BPSK	1	271	24.03				
100	P12 BPSK	135	0	24.18			26.3	0.5
100	P12 BPSK	135	69	24.95			26.3	0.5
100	P12 BPSK	135	138	24.22			25.8	0.5
100	P12 BPSK	270	0	24.24			26.3	0.0
100	QPSK	1	1	24.03				
100	QPSK	1	137	25.00			26.3	0.0
100	QPSK	1	271	24.05				
100	QPSK	135	0	24.31			26.3	0.0
100	QPSK	135	69	24.97			26.3	0.0
100	QPSK	135	138	24.03			26.3	0.0
100	QPSK	270	0	23.75			25.3	1.0
100	16QAM	1	1	23.15			25.3	1.0
100	64QAM	1	1	21.80			23.8	2.5
100	256QAM	1	1	19.87			21.2	4.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.12	3750	3754.98	26.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.21	3750	3759.99	26.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.51	24.54	24.56	26.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.61	24.62	24.60	26.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.20	24.32	24.28	26.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.55	24.57	24.56	26.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.74	24.75	24.72	26.3	0.0

Part270_n78_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	21.22	3499.98			
100	P12 BPSK	1	137	22.34			23.0	0.0
100	P12 BPSK	1	271	21.44				
100	P12 BPSK	135	0	22.20			23.0	0.0
100	P12 BPSK	135	69	22.28			23.0	0.0
100	P12 BPSK	135	138	22.21			23.0	0.0
100	P12 BPSK	270	0	22.18			23.0	0.0
100	QPSK	1	1	21.30				
100	QPSK	1	137	22.30			23.0	0.0
100	QPSK	1	271	21.40				
100	QPSK	135	0	22.15			23.0	0.0
100	QPSK	135	69	22.35			23.0	0.0
100	QPSK	135	138	22.20			23.0	0.0
100	QPSK	270	0	22.25			23.0	0.0
100	16QAM	1	1	21.15			23.0	0.0
100	64QAM	1	1	21.19			23.0	0.0
100	256QAM	1	1	21.80			23.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.25	3499.98	3504.99	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.33	3499.98	3504.99	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.39	21.43	21.45	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.63	21.69	21.70	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.90	21.89	21.86	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.71	21.71	21.65	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.03	22.05	22.22	23.0	0.0



Part27Q_n78(HPUE)_Ant 5

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel							
Frequency (MHz)		3499.98					
100 P12 BPSK	1	24.40					
100 P12 BPSK	1	137	25.28	26.0	0.0		
100 P12 BPSK	1	271	24.44				
100 P12 BPSK	155	0	25.16	26.0	0.0		
100 P12 BPSK	155	69	25.17	26.0	0.0		
100 P12 BPSK	155	138	25.28				
100 P12 BPSK	270	0	25.17	26.0	0.0		
100 QPSK	1	1	24.28				
100 QPSK	1	137	25.35	26.0	0.0		
100 QPSK	1	271	24.42				
100 QPSK	155	0	25.16				
100 QPSK	155	69	25.35	26.0	0.0		
100 QPSK	155	138	25.23				
100 QPSK	270	0	25.28	26.0	0.0		
100 16QAM	1	1	24.57	26.0	0.0		
100 64QAM	1	1	23.50	25.0	1.0		
100 256QAM	1	1	21.46	23.0	3.0		
Channel	633000	633332	633666	Tune-up limit	MPR		
Channel	3498	3499.98	3504.99				
Frequency (MHz)							
90 QPSK	1	1	24.38	24.47	24.53	26.0	0.0
Channel	3498.02	633332	633666	Tune-up limit	MPR		
Frequency (MHz)							
80 QPSK	1	1	24.19	24.21	24.20	26.0	0.0
Channel	630000	633332	636666	Tune-up limit	MPR		
Channel	3498	3499.98	3519.99				
Frequency (MHz)							
60 QPSK	1	1	24.42	24.46	24.46	26.0	0.0
Channel	631998	633332	635000	Tune-up limit	MPR		
Channel	3475.02	3499.98	3524				
Frequency (MHz)							
50 QPSK	1	1	24.55	24.57	24.51	26.0	0.0
Channel	631334	633332	635332	Tune-up limit	MPR		
Channel	3472.01	3499.98	3529.98				
Frequency (MHz)							
40 QPSK	1	1	24.23	24.30	24.43	26.0	0.0
Channel	631000	633332	635666	Tune-up limit	MPR		
Channel	3468	3499.98	3533.99				
Frequency (MHz)							
30 QPSK	1	1	24.80	24.85	24.92	26.0	0.0
Channel	630668	633332	636000	Tune-up limit	MPR		
Channel	3460.02	3499.98	3540				
Frequency (MHz)							
20 QPSK	1	1	25.05	24.99	25.11	26.0	0.0



Part270_n78_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	21.21	3750			
100	Pi2 BPSK	1	137	22.14			23.0	0.0
100	Pi2 BPSK	1	271	21.35				
100	Pi2 BPSK	135	0	22.09			23.0	0.0
100	Pi2 BPSK	135	69	22.13			23.0	0.0
100	Pi2 BPSK	135	138	22.10			23.0	0.0
100	Pi2 BPSK	270	0	21.98				
100	QPSK	1	1	21.17				
100	QPSK	1	137	22.28			23.0	0.0
100	QPSK	1	271	21.34				
100	QPSK	135	0	21.97				
100	QPSK	135	69	22.23			23.0	0.0
100	QPSK	135	138	22.09				
100	QPSK	270	0	22.04			23.0	0.0
100	16QAM	1	1	21.08			23.0	0.0
100	64QAM	1	1	21.16			23.0	0.0
100	256QAM	1	1	21.53			23.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3754.98	Tune-up limit (dBm)	MPR (dB)
				21.14	21.25	21.00	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)
				21.34	21.24	21.38	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3769.98	Tune-up limit (dBm)	MPR (dB)
				21.45	21.59	21.59	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3483.34	65000	65199	Tune-up limit (dBm)	MPR (dB)
				21.66	21.73	21.82	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3480.00	65000	65200	Tune-up limit (dBm)	MPR (dB)
				3750	3750	3750	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	65000	652332	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3744.98	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)
				21.53	21.97	21.90	23.0	0.0

Part270_n78(HPUJ)_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	24.20	3750			
100	Pi2 BPSK	1	137	25.35			26.0	0.0
100	Pi2 BPSK	1	271	24.39				
100	Pi2 BPSK	135	0	25.08			26.0	0.0
100	Pi2 BPSK	135	69	25.32			26.0	0.0
100	Pi2 BPSK	135	138	25.15			26.0	0.0
100	Pi2 BPSK	270	0	25.16				
100	QPSK	1	1	24.21				
100	QPSK	1	137	25.38			26.0	0.0
100	QPSK	1	271	24.38				
100	QPSK	135	0	25.12				
100	QPSK	135	69	25.35			26.0	0.0
100	QPSK	135	138	25.18				
100	QPSK	270	0	25.27			26.0	0.0
100	16QAM	1	1	24.47			26.0	0.0
100	64QAM	1	1	23.31			26.0	1.0
100	256QAM	1	1	23.23			23.0	3.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649068	65000	650332	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3744.98	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	65000	650666	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3759.99	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	649668	65000	651666	Tune-up limit (dBm)	MPR (dB)
				24.47	24.47	24.40	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649000	65000	652000	Tune-up limit (dBm)	MPR (dB)
				24.80	24.69	24.69	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648334	65000	651666	Tune-up limit (dBm)	MPR (dB)
				649000	65000	650000	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	65000	652332	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3744.98	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)
				24.92	24.73	24.81	26.0	0.0

Part270_n78_Ant 6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.59	3499.98			
100	Pi2 BPSK	1	137	20.47			21.3	0.0
100	Pi2 BPSK	1	271	19.55				
100	Pi2 BPSK	135	0	20.33			21.3	0.0
100	Pi2 BPSK	135	69	20.41			21.3	0.0
100	Pi2 BPSK	135	138	20.27			21.3	0.0
100	Pi2 BPSK	270	0	20.25				
100	QPSK	1	1	19.62				
100	QPSK	1	137	20.51			21.3	0.0
100	QPSK	1	271	19.58				
100	QPSK	135	0	20.32				
100	QPSK	135	69	20.47			21.3	0.0
100	QPSK	135	138	20.23				
100	QPSK	270	0	20.28			21.3	0.0
100	16QAM	1	1	19.38			20.8	0.5
100	64QAM	1	1	19.40			20.8	0.5
100	256QAM	1	1	19.98			20.3	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
				3495	3499.98	3504.99	19.73	21.3
Channel								
Frequency (MHz)								
80	QPSK	1	1	632666	633332	634000	Tune-up limit (dBm)	MPR (dB)
				3499.02	3499.98	3500	19.75	21.3
Channel								
Frequency (MHz)								
60	QPSK	1	1	631999	633332	635000	Tune-up limit (dBm)	MPR (dB)
				3499	3499.98	3500	19.84	21.3
Channel								
Frequency (MHz)								
50	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
				3495.02	3499.98	3500	19.97	20.00
Channel								
Frequency (MHz)								
40	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
				3495.02	3499.98	3500	19.79	21.3
Channel								
Frequency (MHz)								
30	QPSK	1	1	630666	633332	636000	Tune-up limit (dBm)	MPR (dB)
				3495.02	3499.98	3500	19.87	19.92
Channel								
Frequency (MHz)								
20	QPSK	1	1	3491.02	3499.98	3500	Tune-up limit (dBm)	MPR (dB)
				20.14	20.09	20.15	21.3	0.0



Part27Q_n78(HPUE)_Ant 6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	22.05	3499.98			
100	PV2 BPSK	1	137	23.50			24.3	0.0
100	PV2 BPSK	1	271	22.50				
100	PV2 BPSK	135	0	23.37			24.3	0.0
100	PV2 BPSK	135	69	23.35			24.3	0.0
100	PV2 BPSK	135	138	23.27			24.3	0.0
100	PV2 BPSK	270	0	23.34				
100	QPSK	1	1	22.56				
100	QPSK	1	137	23.53			24.3	0.0
100	QPSK	1	271	22.54				
100	QPSK	135	0	22.80				
100	QPSK	135	69	23.48			24.3	0.0
100	QPSK	135	138	22.76				
100	QPSK	270	0	23.01			23.8	0.5
100	16QAM	1	1	22.46			23.8	0.5
100	64QAM	1	1	20.95			22.3	2.0
100	256QAM	1	1	18.83			20.3	4.6
Channel								
Frequency (MHz)								
90	QPSK	1	1	3495	3499.98	3504.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.92	22.83	22.93	24.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.01	23.07	22.95	24.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.22	23.26	23.18	24.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.92	22.98	22.91	24.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.13	23.18	23.12	24.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.53	23.29	23.27	24.3	0.0



Part270_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. / Freq. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		19.42				
100	Pi2 BPSK	1	137		20.33		21.3	0.0	
100	Pi2 BPSK	1	271		19.43				
100	Pi2 BPSK	135	0		20.17		21.3	0.0	
100	Pi2 BPSK	135	69		20.31		21.3	0.0	
100	Pi2 BPSK	135	138		20.04		21.3	0.0	
100	Pi2 BPSK	270	0		20.08				
100	QPSK	1	1		19.45				
100	QPSK	1	137		20.42		21.3	0.0	
100	QPSK	1	271		19.47				
100	QPSK	135	0		20.12				
100	QPSK	135	69		20.32		21.3	0.0	
100	QPSK	135	138		20.02				
100	QPSK	270	0		20.19		21.3	0.0	
100	16QAM	1	1		19.17		20.8	0.5	
100	64QAM	1	1		19.19		20.8	0.5	
100	256QAM	1	1		18.83		20.3	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.54	19.50	19.56	21.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.81	19.81	19.84	21.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3750.02	3750	3759.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.94	19.95	19.95	21.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	6489.00	65000	65199	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.05	20.01	20.08	21.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.91	19.76	19.90	21.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65232	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.05	20.02	20.00	21.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65266	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.17	20.07	20.08	21.3	0.0	

Part270_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. / Freq. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		22.29				
100	Pi2 BPSK	1	137		23.17		24.3	0.0	
100	Pi2 BPSK	1	271		22.31				
100	Pi2 BPSK	135	0		23.08		24.3	0.0	
100	Pi2 BPSK	135	69		23.12		24.3	0.0	
100	Pi2 BPSK	135	138		22.97		24.3	0.0	
100	Pi2 BPSK	270	0		23.01				
100	QPSK	1	1		22.31				
100	QPSK	1	137		23.32		24.3	0.0	
100	QPSK	1	271		22.38				
100	QPSK	135	0		22.58		24.3	0.0	
100	QPSK	135	69		23.28		24.3	0.0	
100	QPSK	135	138		22.47				
100	QPSK	270	0		22.55		23.8	0.5	
100	16QAM	1	1		21.98		23.8	0.5	
100	64QAM	1	1		20.42		22.3	2.0	
100	256QAM	1	1		18.82		20.3	4.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.51	22.55	22.52	24.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.54	22.58	22.58	24.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3750.02	3750	3759.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.73	22.72	22.80	24.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	6489.00	65000	65199	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.84	22.90	23.00	24.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.58	22.55	22.62	24.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65232	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.75	22.85	22.90	24.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65266	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.27	22.28	23.07	24.3	0.0	



DSI 4

n5_Ant 0						
RFY (MHz)	Modulation	RF Size	FE Offset	Power Level Ch. 1 (mW)	Power Level Ch. 2 (mW)	Power Level Ch. 3 (mW)
Channel						
Frequency (MHz)				16600	16700	16760
20	PIPS-BPSK	1	1	24.03	24.08	24.09
20	PIPS-BPSK	1	26	24.04	24.09	24.1
20	PIPS-BPSK	1	104	24.09	24.05	24.23
20	PIPS-BPSK	00	0	23.83	23.85	23.82
20	PIPS-BPSK	00	24	23.84	23.85	23.82
20	PIPS-BPSK	00	56	23.95	23.89	23.82
20	PIPS-BPSK	00	92	23.97	23.93	23.82
20	QPSK	1	1	24.05	24.07	24.09
20	QPSK	1	26	24.06	24.04	24.1
20	QPSK	1	104	24.09	24.07	24.21
20	QPSK	00	0	23.81	23.87	23.81
20	QPSK	00	24	23.81	23.87	23.81
20	QPSK	00	56	23.92	23.87	23.81
20	QPSK	00	92	23.91	23.87	23.81
20	HDQAM	1	1	23.12	23.22	23.13
20	HDQAM	1	1	23.08	23.02	23.15
20	HDQAM	1	1	20.07	20.22	20.13
Channel						
Frequency (MHz)				141.5	145.5	141.5
Channel				16600	16700	16760
Frequency (MHz)				16600	16700	16760
10	QPSK	1	1	24.45	24.44	24.45
Channel						
Frequency (MHz)				165.30	167.00	169.00
Frequency (MHz)				165.5	165.5	165.5
5	QPSK	1	1	24.42	24.37	24.54

n5_Ant 1						
RFY (MHz)	Modulation	RF Size	FE Offset	Power Level Ch. 1 (mW)	Power Level Ch. 2 (mW)	Power Level Ch. 3 (mW)
Channel						
Frequency (MHz)				16600	16700	16760
20	PIPS-BPSK	1	1	20.32	20.44	20.49
20	PIPS-BPSK	1	26	20.32	20.49	20.49
20	PIPS-BPSK	1	104	20.34	20.39	20.29
20	PIPS-BPSK	00	0	20.34	20.42	20.38
20	PIPS-BPSK	00	24	20.32	20.35	20.38
20	PIPS-BPSK	00	56	20.30	20.38	20.39
20	PIPS-BPSK	00	92	20.30	20.43	20.43
20	QPSK	1	1	20.39	20.34	20.27
20	QPSK	1	26	20.39	20.35	20.42
20	QPSK	1	104	20.39	20.35	20.31
20	QPSK	00	0	20.34	20.43	20.43
20	QPSK	00	24	20.34	20.35	20.38
20	QPSK	00	56	20.33	20.32	20.38
20	QPSK	00	92	20.31	20.35	20.42
20	HDQAM	1	1	20.19	20.21	20.11
20	HDQAM	1	1	20.18	20.28	20.21
20	HDQAM	1	1	18.70	19.81	19.70
Channel						
Frequency (MHz)				141.5	145.5	141.5
Channel				16600	16700	16760
Frequency (MHz)				16600	16700	16760
10	QPSK	1	1	20.25	20.28	20.21
Channel						
Frequency (MHz)				165.30	167.00	169.00
Frequency (MHz)				165.5	165.5	165.5
5	QPSK	1	1	20.21	20.36	20.30

n7_Ant 0						
RFY (MHz)	Modulation	RF Size	FE Offset	Power Level Ch. 1 (mW)	Power Level Ch. 2 (mW)	Power Level Ch. 3 (mW)
Channel						
Frequency (MHz)				54000	50700	50600
60	PIPS-BPSK	1	1	20.18	20.27	19.89
60	PIPS-BPSK	1	104	20.28	20.46	20.42
60	PIPS-BPSK	1	308	19.97	20.14	20.20
60	PIPS-BPSK	00	0	20.07	20.04	20.45
60	PIPS-BPSK	00	104	20.05	20.45	20.45
60	PIPS-BPSK	00	308	20.04	20.38	20.39
60	PIPS-BPSK	135	135	20.04	20.38	20.39
60	PIPS-BPSK	20	20	20.08	20.01	20.43
60	QPSK	1	1	20.19	20.17	20.11
60	QPSK	1	104	20.28	20.00	20.41
60	QPSK	1	308	20.46	20.33	20.29
60	QPSK	00	0	20.01	20.45	20.42
60	QPSK	00	104	20.10	20.01	20.41
60	QPSK	00	308	20.01	20.41	20.41
60	QPSK	135	135	20.01	20.41	20.41
60	QPSK	20	20	20.04	20.02	20.46
60	HDQAM	1	1	19.96	19.80	19.80
60	HDQAM	1	1	19.94	20.02	19.80
60	HDQAM	1	1	18.84	19.36	18.40
Channel						
Frequency (MHz)				3200	3300	3300
Channel				54000	50700	50600
Frequency (MHz)				54000	50700	50600
15	QPSK	1	1	20.13	20.26	20.26
Channel						
Frequency (MHz)				54000	50700	50600
Frequency (MHz)				54000	50700	50600
30	QPSK	1	1	20.16	20.26	20.13
Channel						
Frequency (MHz)				54000	50700	50600
Frequency (MHz)				54000	50700	50600
20	QPSK	1	1	20.19	20.17	20.11
Channel						
Frequency (MHz)				54000	50700	50600
Frequency (MHz)				54000	50700	50600
20	QPSK	1	1	20.13	20.36	20.29
Channel						
Frequency (MHz)				54000	50700	50600
Frequency (MHz)				54000	50700	50600
15	QPSK	1	1	20.14	20.22	20.13
Channel						
Frequency (MHz)				54000	50700	50600
Frequency (MHz)				54000	50700	50600
10	QPSK	1	1	20.13	20.20	20.20
Channel						
Frequency (MHz)				54000	50700	50600
Frequency (MHz)				54000	50700	50600
5	QPSK	1	1	20.02	20.30	20.10



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 519004	Power Middle Ch. / Freq. / 519000	Power High Ch. / Freq. / 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.07	20.05	20.12			
40	PI2 BPSK	1	53	20.48	20.54	20.45	21.5	0.0	
40	PI2 BPSK	1	104	20.18	20.13	20.13			
40	PI2 BPSK	50	0	20.47	20.42	20.38	21.5	0.0	
40	PI2 BPSK	50	28	20.51	20.54	20.41	21.5	0.0	
40	PI2 BPSK	50	56	20.43	20.48	20.55	21.5	0.0	
40	PI2 BPSK	100	0	20.38	20.47	20.46			
40	QPSK	1	1	20.11	20.07	20.02			
40	QPSK	1	53	20.43	20.58	20.45	21.5	0.0	
40	QPSK	1	104	19.98	20.10	20.07			
40	QPSK	50	0	20.30	20.42	20.43			
40	QPSK	50	28	20.48	20.55	20.50	21.5	0.0	
40	QPSK	50	56	20.33	20.45	20.43			
40	QPSK	100	0	20.45	20.48	20.41	21.5	0.0	
40	16QAM	1	1	19.75	19.85	19.88	21.5	0.0	
40	64QAM	1	1	19.83	19.86	19.75	21.5	0.0	
40	256QAM	1	1	19.85	20.00	20.07	21.0	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2585.01	2595	2604.99			
Channel									
Frequency (MHz)									
20	QPSK	1	1	2580	2595	2610			

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 519004	Power Middle Ch. / Freq. / 519000	Power High Ch. / Freq. / 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.48	15.50	15.52			
40	PI2 BPSK	1	53	15.97	16.00	15.94	17.4	0.0	
40	PI2 BPSK	1	104	15.49	15.56	15.49			
40	PI2 BPSK	50	0	15.86	15.94	15.83	17.4	0.0	
40	PI2 BPSK	50	28	15.94	16.06	16.00	17.4	0.0	
40	PI2 BPSK	50	56	15.81	15.91	15.89	17.4	0.0	
40	PI2 BPSK	100	0	15.84	15.96	15.85			
40	QPSK	1	1	15.62	15.69	15.69			
40	QPSK	1	53	15.54	16.00	16.03	17.4	0.0	
40	QPSK	1	104	15.47	15.53	15.43			
40	QPSK	50	0	15.83	15.83	15.81			
40	QPSK	50	28	15.50	16.06	16.07	17.4	0.0	
40	QPSK	50	56	15.81	15.92	15.89			
40	QPSK	100	0	15.90	16.06	16.00	17.4	0.0	
40	16QAM	1	1	15.45	15.45	15.42	17.4	0.0	
40	64QAM	1	1	15.51	15.41	15.44	17.4	0.0	
40	256QAM	1	1	15.97	16.04	16.02	17.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.41	15.45	15.44	17.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.43	15.54	15.40	17.4	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 519004	Power Middle Ch. / Freq. / 519000	Power High Ch. / Freq. / 519996	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.20	15.25	15.25			
40	PI2 BPSK	1	53	15.45	15.50	15.54	17.2	0.0	
40	PI2 BPSK	1	104	15.26	15.30	15.21			
40	PI2 BPSK	50	0	15.43	15.51	15.47	17.2	0.0	
40	PI2 BPSK	50	28	15.54	15.60	15.46	17.2	0.0	
40	PI2 BPSK	50	56	15.51	15.59	15.48	17.2	0.0	
40	PI2 BPSK	100	0	15.40	15.49	15.44			
40	QPSK	1	1	15.23	15.27	15.23			
40	QPSK	1	53	15.37	15.60	15.55	17.2	0.0	
40	QPSK	1	104	15.27	15.35	15.32			
40	QPSK	50	0	15.42	15.48	15.42			
40	QPSK	50	28	15.53	15.65	15.54	17.2	0.0	
40	QPSK	50	56	15.46	15.60	15.48			
40	QPSK	100	0	15.46	15.61	15.47	17.2	0.0	
40	16QAM	1	1	15.23	15.31	15.28	17.2	0.0	
40	64QAM	1	1	15.25	15.30	15.26	17.2	0.0	
40	256QAM	1	1	15.37	15.47	15.38	17.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.24	15.28	15.28	17.2	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.28	15.27	15.29	17.2	0.0	



n38_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2560.02	2595	2599.98			
40	PV2 BPSK	1	1	21.89	21.93	21.98			
40	PV2 BPSK	1	53	22.41	22.55	22.45	23.6	0.0	
40	PV2 BPSK	1	104	22.16	22.17	22.10			
40	PV2 BPSK	50	0	22.35	22.28	22.19	23.6	0.0	
40	PV2 BPSK	50	28	22.52	22.57	22.47	23.6	0.0	
40	PV2 BPSK	50	56	22.28	22.38	22.34	23.6	0.0	
40	PV2 BPSK	100	0	22.39	22.38	22.45			
40	QPSK	1	1	22.00	21.95	21.84			
40	QPSK	1	53	22.48	22.58	22.41	23.6	0.0	
40	QPSK	1	104	21.99	22.11	21.99			
40	QPSK	50	0	22.18	22.25	22.25			
40	QPSK	50	28	22.45	22.52	22.40	23.6	0.0	
40	QPSK	50	56	22.31	22.31	22.25			
40	QPSK	100	0	22.43	22.47	22.34	23.6	0.0	
40	16QAM	1	1	21.84	21.75	21.71	23.6	0.0	
40	64QAM	1	1	20.38	20.36	20.26	22.1	1.5	
40	256QAM	1	1	18.84	18.97	18.96	20.1	3.5	
Channel									
Frequency (MHz)				2585.01	2595	2604.98			
30	QPSK	1	1	21.88	21.94	21.89	23.6	0.0	
Channel									
Frequency (MHz)				2585.03	2595	2604.98			
20	QPSK	1	1	21.91	22.11	22.10	23.6	0.0	

n41_FCC_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2540.01	2592.99	2640			
100	PV2 BPSK	1	1	19.56	19.00	19.53			
100	PV2 BPSK	1	137	20.39	20.50	20.38	21.5	0.0	
100	PV2 BPSK	1	271	19.61	19.69	19.68			
100	PV2 BPSK	135	0	20.28	20.25	20.17	21.5	0.0	
100	PV2 BPSK	135	69	20.53	20.55	20.45	21.5	0.0	
100	PV2 BPSK	135	138	20.24	20.35	20.34	21.5	0.0	
100	PV2 BPSK	270	0	20.21	20.31	20.27			
100	QPSK	1	1	19.53	19.57	19.54			
100	QPSK	1	137	20.50	20.57	20.56	21.5	0.0	
100	QPSK	1	271	19.72	19.66	19.56			
100	QPSK	135	0	20.34	20.39	20.22			
100	QPSK	135	69	20.52	20.55	20.54	21.5	0.0	
100	QPSK	135	138	20.41	20.38	20.27			
100	QPSK	270	0	20.23	20.47	20.26	21.5	0.0	
100	16QAM	1	1	19.52	19.54	19.55	21.5	0.0	
100	64QAM	1	1	19.55	19.55	19.51	21.5	0.0	
100	256QAM	1	1	19.44	19.49	19.45	21.0	0.5	
Channel									
Frequency (MHz)				2641	2652.99	2644.98			
90	QPSK	1	1	19.53	19.58	19.56	21.5	0.0	
Channel									
Frequency (MHz)				2638.02	2652.99	2649.99			
80	QPSK	1	1	19.52	19.58	19.50	21.5	0.0	
Channel									
Frequency (MHz)				2636.00	2652.99	2644.98			
60	QPSK	1	1	19.50	19.51	19.57	21.5	0.0	
Channel									
Frequency (MHz)				2642.04	2652.99	2645.98			
50	QPSK	1	1	19.56	19.52	19.59	21.5	0.0	
Channel									
Frequency (MHz)				2632.02	2652.99	2645.98			
40	QPSK	1	1	19.54	19.51	19.55	21.5	0.0	
Channel									
Frequency (MHz)				2622.00	2652.99	2645.98			
30	QPSK	1	1	19.52	19.59	19.56	21.5	0.0	
Channel									
Frequency (MHz)				2612.04	2652.99	2645.98			
20	QPSK	1	1	19.53	19.53	19.51	21.5	0.0	

n41_FCC_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2540.01	2592.99	2640			
100	PV2 BPSK	1	1	15.93	15.02	15.54			
100	PV2 BPSK	1	137	15.98	16.11	16.09	17.4	0.0	
100	PV2 BPSK	1	271	15.42	15.41	15.44			
100	PV2 BPSK	135	0	16.00	16.05	15.96	17.4	0.0	
100	PV2 BPSK	135	69	16.04	16.10	15.95	17.4	0.0	
100	PV2 BPSK	135	138	15.82	15.89	15.89	17.4	0.0	
100	PV2 BPSK	270	0	15.84	15.94	15.87			
100	QPSK	1	1	15.90	15.95	15.95			
100	QPSK	1	137	16.11	16.15	16.04	17.4	0.0	
100	QPSK	1	271	15.42	15.47	15.45			
100	QPSK	135	0	15.95	16.01	15.95			
100	QPSK	135	69	16.09	16.11	16.08	17.4	0.0	
100	QPSK	135	138	15.85	15.88	15.80			
100	QPSK	270	0	15.78	16.07	15.91	17.4	0.0	
100	16QAM	1	1	15.85	15.43	15.48	17.4	0.0	
100	64QAM	1	1	15.40	15.43	15.44	17.4	0.0	
100	256QAM	1	1	15.39	15.39	15.77	17.4	0.0	
Channel									
Frequency (MHz)				2641	2652.99	2644.98			
90	QPSK	1	1	15.50	15.58	15.48	17.4	0.0	
Channel									
Frequency (MHz)				2638.02	2652.99	2649.99			
80	QPSK	1	1	15.54	15.50	15.53	17.4	0.0	
Channel									
Frequency (MHz)				2636.00	2652.99	2644.98			
60	QPSK	1	1	15.50	15.52	15.54	17.4	0.0	
Channel									
Frequency (MHz)				2642.04	2652.99	2645.98			
50	QPSK	1	1	15.56	15.46	15.51	17.4	0.0	
Channel									
Frequency (MHz)				2632.02	2652.99	2645.98			
40	QPSK	1	1	15.52	15.51	15.49	17.4	0.0	
Channel									
Frequency (MHz)				2622.00	2652.99	2645.98			
30	QPSK	1	1	15.56	15.57	15.41	17.4	0.0	
Channel									
Frequency (MHz)				2612.04	2652.99	2645.98			
20	QPSK	1	1	15.43	15.51	15.47	17.4	0.0	



n41_FCC_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	15.21	15.27	15.29				
100	Pi2 BPSK	1	137	15.81	15.78	15.72	17.2	0.0		
100	Pi2 BPSK	1	271	15.41	15.43	15.42				
100	Pi2 BPSK	136	0	15.45	15.45	15.58	17.2	0.0		
100	Pi2 BPSK	136	69	15.71	15.84	15.85	17.2	0.0		
100	Pi2 BPSK	136	138	15.70	15.80	15.81	17.2	0.0		
100	Pi2 BPSK	270	0	15.68	15.71	15.71				
100	QPSK	1	1	15.25	15.28	15.23				
100	QPSK	1	137	15.73	15.68	15.73	17.2	0.0		
100	QPSK	1	271	15.29	15.42	15.34				
100	QPSK	136	0	15.47	15.48	15.58				
100	QPSK	136	69	15.75	15.84	15.71	17.2	0.0		
100	QPSK	136	138	15.67	15.76	15.64				
100	QPSK	270	0	15.42	15.41	15.59	17.2	0.0		
100	16QAM	1	1	15.20	15.28	15.29	17.2	0.0		
100	16QAM	1	1	15.21	15.27	15.25	17.2	0.0		
100	25QAM	1	1	15.27	15.31	15.34	17.2	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.33	15.34	15.41	17.2	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.42	15.48	15.37	17.2	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.40	15.42	15.30	17.2	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.37	15.41	15.34	17.2	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.49	15.41	15.30	17.2	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.41	15.42	15.38	17.2	0.0		

n41_FCC_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	21.17	21.15	21.10				
100	Pi2 BPSK	1	137	21.84	21.85	22.02	23.1	0.0		
100	Pi2 BPSK	1	271	21.18	21.21	21.11				
100	Pi2 BPSK	136	0	21.86	21.78	21.77	23.1	0.0		
100	Pi2 BPSK	136	69	21.98	21.91	21.99	23.1	0.0		
100	Pi2 BPSK	136	138	21.74	21.83	21.83	23.1	0.0		
100	Pi2 BPSK	270	0	21.76	21.83	21.77				
100	QPSK	1	1	21.11	21.14	21.11				
100	QPSK	1	137	21.84	22.08	21.84	23.1	0.0		
100	QPSK	1	271	21.16	21.27	21.15				
100	QPSK	136	0	21.72	21.79	21.80				
100	QPSK	136	69	22.05	22.05	22.03	23.1	0.0		
100	QPSK	136	138	21.69	21.79	21.73				
100	QPSK	270	0	21.70	21.80	21.87	23.1	0.0		
100	16QAM	1	1	21.17	21.21	21.11	23.1	0.0		
100	16QAM	1	1	20.17	20.19	20.16	22.1	1.0		
100	25QAM	1	1	18.30	18.31	18.22	20.1	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.35	21.32	21.27	23.1	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.31	21.23	21.24	23.1	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.36	21.32	21.19	23.1	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.27	21.34	21.22	23.1	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.20	21.30	21.24	23.1	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.37	21.35	21.20	23.1	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.25	21.20	21.21	23.1	0.0		

Part27Q_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1			3499.98				
100	Pi2 BPSK	1	137			11.82	12.9	0.0		
100	Pi2 BPSK	1	271			11.96				
100	Pi2 BPSK	136	0			11.80	12.9	0.0		
100	Pi2 BPSK	136	69			11.83	12.9	0.0		
100	Pi2 BPSK	136	138			11.84	12.9	0.0		
100	Pi2 BPSK	270	0			11.71				
100	QPSK	1	1			11.31				
100	QPSK	1	137			11.80	12.9	0.0		
100	QPSK	1	271			11.91				
100	QPSK	136	0			11.78				
100	QPSK	136	69			11.83	12.9	0.0		
100	QPSK	136	138			11.83				
100	QPSK	270	0			11.78	12.9	0.0		
100	16QAM	1	1			11.09	12.9	0.0		
100	16QAM	1	1			11.10	12.9	0.0		
100	25QAM	1	1			11.02	12.9	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3350.0	3333.52	3304.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.30	11.24	11.27	12.9	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	11.26	11.24	11.24	12.9	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	11.29	11.10	11.21	12.9	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	11.14	11.22	11.12	12.9	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	11.18	11.15	11.23	12.9	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.25	11.14	11.17	12.9	0.0		



Part27Q_n78(HPUE)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	14.15	3499.98			
100	PV2 BPSK	1	137	14.64			15.9	0.0
100	PV2 BPSK	1	271	14.03				
100	PV2 BPSK	135	0	14.64			15.9	0.0
100	PV2 BPSK	135	69	14.07			15.9	0.0
100	PV2 BPSK	135	138	14.53				
100	PV2 BPSK	270	0	14.54			15.9	0.0
100	QPSK	1	1	14.17				
100	QPSK	1	137	14.69			15.9	0.0
100	QPSK	1	271	13.98				
100	QPSK	135	0	14.50				
100	QPSK	135	69	14.65			15.9	0.0
100	QPSK	135	138	14.50				
100	QPSK	270	0	14.59			15.9	0.0
100	16QAM	1	1	14.37			15.9	0.0
100	16QAM	1	1	14.27			15.9	0.0
100	256QAM	1	1	14.20			15.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.11	14.13	14.08	15.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.01	14.05	14.03	15.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.98	14.09	14.00	15.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.10	14.05	13.95	15.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.95	14.09	13.94	15.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.04	14.03	14.02	15.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.05	13.97	14.03	15.9	0.0



Part270_n78_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	10.95	3750			
100	P12 BPSK	1	137	11.83			12.9	0.0
100	P12 BPSK	1	271	10.95				
100	P12 BPSK	135	0	11.51			12.9	0.0
100	P12 BPSK	135	69	11.71			12.9	0.0
100	P12 BPSK	135	138	11.49			12.9	0.0
100	P12 BPSK	270	0	11.57				
100	QPSK	1	1	10.92				
100	QPSK	1	137	11.72			12.9	0.0
100	QPSK	1	271	10.96				
100	QPSK	135	0	11.55				
100	QPSK	135	69	11.69			12.9	0.0
100	QPSK	135	138	11.51				
100	QPSK	270	0	11.62			12.9	0.0
100	16QAM	1	1	10.98			12.9	0.0
100	64QAM	1	1	10.97			12.9	0.0
100	256QAM	1	1	11.25			12.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3754.98	12.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3759.99	12.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3769.98	12.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3750	3779.99	12.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3710.01	3750	3789.99	12.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3700.01	3750	3799.99	12.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3690.01	3750	3809.99	12.9	0.0

Part270_n78(HPUE)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	13.90	3750			
100	P12 BPSK	1	137	14.61			15.9	0.0
100	P12 BPSK	1	271	13.90				
100	P12 BPSK	135	0	14.51			15.9	0.0
100	P12 BPSK	135	69	14.61			15.9	0.0
100	P12 BPSK	135	138	14.41			15.9	0.0
100	P12 BPSK	270	0	14.48				
100	QPSK	1	1	13.93				
100	QPSK	1	137	14.64			15.9	0.0
100	QPSK	1	271	13.99				
100	QPSK	135	0	14.51				
100	QPSK	135	69	14.62			15.9	0.0
100	QPSK	135	138	14.42				
100	QPSK	270	0	14.38			15.9	0.0
100	16QAM	1	1	14.15			15.9	0.0
100	64QAM	1	1	14.06			15.9	0.0
100	256QAM	1	1	13.92			15.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3754.98	15.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3759.99	15.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3769.98	15.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3750	3779.99	15.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3710.01	3750	3789.99	15.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3700.01	3750	3799.99	15.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3690.01	3750	3809.99	15.9	0.0

Part270_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633332	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	17.25	3499.98			
100	P12 BPSK	1	137	17.25			18.8	0.0
100	P12 BPSK	1	271	17.19				
100	P12 BPSK	135	0	17.85			18.8	0.0
100	P12 BPSK	135	69	17.86			18.8	0.0
100	P12 BPSK	135	138	17.82			18.8	0.0
100	P12 BPSK	270	0	17.83				
100	QPSK	1	1	17.30				
100	QPSK	1	137	17.94			18.8	0.0
100	QPSK	1	271	17.17				
100	QPSK	135	0	17.82				
100	QPSK	135	69	17.91			18.8	0.0
100	QPSK	135	138	17.82				
100	QPSK	270	0	17.89			18.8	0.0
100	16QAM	1	1	17.15			18.8	0.0
100	64QAM	1	1	17.20			18.8	0.0
100	256QAM	1	1	17.72			18.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3495	3499.98	3504.99	18.8	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3490.01	3499.98	3504.99	18.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3480.02	3499.98	3504.99	18.8	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3470.01	3499.98	3504.99	18.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3460.01	3499.98	3504.99	18.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3450.01	3499.98	3504.99	18.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3440.01	3499.98	3504.99	18.8	0.0



Part27Q_n78(HPUE)_Ant 4

Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	19.26	3499.98			
100	PV2 BPSK	1	137	20.84			21.8	0.0
100	PV2 BPSK	1	271	19.86				
100	PV2 BPSK	155	0	20.71			21.8	0.0
100	PV2 BPSK	155	69	20.77			21.8	0.0
100	PV2 BPSK	155	138	20.59				
100	PV2 BPSK	270	0	20.62			21.8	0.0
100	QPSK	1	1	19.92				
100	QPSK	1	137	20.86			21.8	0.0
100	QPSK	1	271	19.85				
100	QPSK	155	0	20.67				
100	QPSK	155	69	20.53			21.8	0.0
100	QPSK	155	138	20.63				
100	QPSK	270	0	20.94			21.8	0.0
100	16QAM	1	1	20.21			21.8	0.0
100	64QAM	1	1	20.07			21.8	0.0
100	256QAM	1	1	20.00			21.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.06	3499.98	3504.99		
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.06	20.03	20.01	21.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.05	3499.98	3519.99		
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.02	19.99	19.98	21.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.02	19.96	20.01	21.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.92	19.91	20.05	21.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.91	20.03	20.05	21.8	0.0



Part270_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.20	3750			
100	PI2 BPSK	1	137	17.46			18.8	0.0
100	PI2 BPSK	1	271	16.72				
100	PI2 BPSK	135	0	17.29			18.8	0.0
100	PI2 BPSK	135	69	17.47			18.8	0.0
100	PI2 BPSK	135	138	17.36			18.8	0.0
100	PI2 BPSK	270	0	17.22				
100	QPSK	1	1	16.69			18.8	0.0
100	QPSK	1	137	17.50				
100	QPSK	1	271	16.79				
100	QPSK	135	0	17.35			18.8	0.0
100	QPSK	135	69	17.48			18.8	0.0
100	QPSK	135	138	17.35			18.8	0.0
100	QPSK	270	0	17.44			18.8	0.0
100	16QAM	1	1	16.45			18.8	0.0
100	64QAM	1	1	16.49			18.8	0.0
100	256QAM	1	1	17.62			18.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.67	3750	3754.98	18.8	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.67	3750	3754.99	18.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.68	3750	3754.98	18.8	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.78	650000	651166	18.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.88	650000	652000	18.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.79	650000	652666	18.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.85	650000	652950	18.8	0.0

Part270_n78(HPUE)_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.40	3750			
100	PI2 BPSK	1	137	20.54			21.8	0.0
100	PI2 BPSK	1	271	19.52				
100	PI2 BPSK	135	0	20.34			21.8	0.0
100	PI2 BPSK	135	69	20.53			21.8	0.0
100	PI2 BPSK	135	138	20.34			21.8	0.0
100	PI2 BPSK	270	0	20.34				
100	QPSK	1	1	19.41			21.8	0.0
100	QPSK	1	137	20.56				
100	QPSK	1	271	19.47				
100	QPSK	135	0	20.36			21.8	0.0
100	QPSK	135	69	20.52			21.8	0.0
100	QPSK	135	138	20.39			21.8	0.0
100	QPSK	270	0	20.44			21.8	0.0
100	16QAM	1	1	19.69			21.8	0.0
100	64QAM	1	1	19.58			21.8	0.0
100	256QAM	1	1	19.82			21.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.69	3750	3754.98	21.8	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.62	3750	3754.99	21.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.69	3750	3754.98	21.8	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.70	650000	651166	21.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.64	650000	652000	21.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.65	650000	652666	21.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.63	650000	652950	21.8	0.0

Part270_n78_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633332	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.70	3699.98			
100	PI2 BPSK	1	137	15.31			16.0	0.0
100	PI2 BPSK	1	271	14.71				
100	PI2 BPSK	135	0	15.26			16.0	0.0
100	PI2 BPSK	135	69	15.34			16.0	0.0
100	PI2 BPSK	135	138	15.32			16.0	0.0
100	PI2 BPSK	270	0	15.25				
100	QPSK	1	1	14.60			16.0	0.0
100	QPSK	1	137	15.35				
100	QPSK	1	271	14.59				
100	QPSK	135	0	15.21			16.0	0.0
100	QPSK	135	69	15.32			16.0	0.0
100	QPSK	135	138	15.21			16.0	0.0
100	QPSK	270	0	15.25			16.0	0.0
100	16QAM	1	1	14.88			16.0	0.0
100	64QAM	1	1	14.80			16.0	0.0
100	256QAM	1	1	14.81			16.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.94	3699.98	3694.99	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.86	3699.98	3694.99	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.89	3699.98	3694.99	16.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.99	633332	633500	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.99	633332	633500	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.89	633332	633500	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.92	633332	633500	16.0	0.0



Part27Q_n78(HPUE)_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	17.62	3499.98			
100	PV2 BPSK	1	137	18.23			19.0	0.0
100	PV2 BPSK	1	271	17.63				
100	PV2 BPSK	155	0	18.17			19.0	0.0
100	PV2 BPSK	155	69	18.22			19.0	0.0
100	PV2 BPSK	155	138	18.20			19.0	0.0
100	PV2 BPSK	270	0	18.18				
100	QPSK	1	1	17.27				
100	QPSK	1	137	18.26			19.0	0.0
100	QPSK	1	271	17.65				
100	QPSK	155	0	18.18			19.0	0.0
100	QPSK	155	69	18.24			19.0	0.0
100	QPSK	155	138	18.19			19.0	0.0
100	QPSK	270	0	18.28			19.0	0.0
100	16QAM	1	1	17.84			19.0	0.0
100	64QAM	1	1	17.70			19.0	0.0
100	256QAM	1	1	17.64			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.81	17.77	17.76	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.74	17.83	17.78	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.78	17.78	17.80	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.80	17.76	17.68	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.73	17.70	17.70	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.77	17.70	17.74	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.44	17.70	17.62	19.0	0.0



Part270_n78_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.44	3750			
100	PI2 BPSK	1	137	15.21			16.0	0.0
100	PI2 BPSK	1	271	14.58				
100	PI2 BPSK	135	0	15.16			16.0	0.0
100	PI2 BPSK	135	69	15.25			16.0	0.0
100	PI2 BPSK	135	138	15.22			16.0	0.0
100	PI2 BPSK	270	0	15.17				
100	QPSK	1	1	14.45				
100	QPSK	1	137	15.30			16.0	0.0
100	QPSK	1	271	14.63				
100	QPSK	135	0	15.11				
100	QPSK	135	69	15.27			16.0	0.0
100	QPSK	135	138	15.17				
100	QPSK	270	0	15.26			16.0	0.0
100	16QAM	1	1	14.59			16.0	0.0
100	64QAM	1	1	14.27			16.0	0.0
100	256QAM	1	1	14.78			16.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.92	3750	3754.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.63	14.56	14.57	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.54	14.53	14.53	16.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.53	14.50	14.63	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.49	14.51	14.54	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.45	14.45	14.49	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.46	14.58	14.55	16.0	0.0

Part270_n78(HPUE)_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.52	3750			
100	PI2 BPSK	1	137	18.31			19.0	0.0
100	PI2 BPSK	1	271	17.69				
100	PI2 BPSK	135	0	18.19			19.0	0.0
100	PI2 BPSK	135	69	18.35			19.0	0.0
100	PI2 BPSK	135	138	18.31			19.0	0.0
100	PI2 BPSK	270	0	18.25				
100	QPSK	1	1	17.44				
100	QPSK	1	137	18.34			19.0	0.0
100	QPSK	1	271	17.58				
100	QPSK	135	0	18.34				
100	QPSK	135	69	18.32			19.0	0.0
100	QPSK	135	138	18.28				
100	QPSK	270	0	18.25			19.0	0.0
100	16QAM	1	1	17.71			19.0	0.0
100	64QAM	1	1	17.56			19.0	0.0
100	256QAM	1	1	17.67			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.92	3750	3754.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.60	17.67	17.73	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.71	17.69	17.75	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.65	17.63	17.66	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.73	17.60	17.74	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.70	17.70	17.74	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.71	17.63	17.77	19.0	0.0

Part270_n78_Ant 6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633332	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	13.12	3499.98			
100	PI2 BPSK	1	137	13.70			14.3	0.0
100	PI2 BPSK	1	271	12.81				
100	PI2 BPSK	135	0	13.87			14.3	0.0
100	PI2 BPSK	135	69	13.70			14.3	0.0
100	PI2 BPSK	135	138	13.45			14.3	0.0
100	PI2 BPSK	270	0	13.53				
100	QPSK	1	1	13.10				
100	QPSK	1	137	13.71			14.3	0.0
100	QPSK	1	271	12.75				
100	QPSK	135	0	13.61				
100	QPSK	135	69	13.58			14.3	0.0
100	QPSK	135	138	13.51				
100	QPSK	270	0	13.61			14.3	0.0
100	16QAM	1	1	12.86			14.3	0.0
100	64QAM	1	1	12.90			14.3	0.0
100	256QAM	1	1	13.48			14.3	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3495	3499.98	3504.99		
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.05	13.07	13.04	14.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.02	13.04	13.02	14.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.02	13.01	12.97	14.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.02	13.01	12.97	14.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.06	13.08	13.03	14.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.98	13.07	12.96	14.3	0.0



Part27Q_n78(HPUE)_Ant 6

Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	15.09	3499.98			
100	PV2 BPSK	1	137	15.67			17.3	0.0
100	PV2 BPSK	1	271	15.79				
100	PV2 BPSK	155	0	18.81			17.3	0.0
100	PV2 BPSK	155	69	18.85			17.3	0.0
100	PV2 BPSK	155	138	18.47				
100	PV2 BPSK	270	0	18.82			17.3	0.0
100	QPSK	1	1	15.24				
100	QPSK	1	137	15.65			17.3	0.0
100	QPSK	1	271	15.74				
100	QPSK	155	0	18.80				
100	QPSK	155	69	18.68			17.3	0.0
100	QPSK	155	138	18.48				
100	QPSK	270	0	18.81			17.3	0.0
100	16QAM	1	1	18.35			17.3	0.0
100	16QAM	1	1	18.25			17.3	0.0
100	25QAM	1	1	18.17			17.3	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.07	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.98	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.10	3499.98	3519.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.10	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.14	3499.98	3539.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.14	3499.98	3549.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.08	3499.98	3559.98	Tune-up limit (dBm)	MPR (dB)



Part270_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 600000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		12.58				
100	Pi2 BPSK	1	137		13.34		14.3	0.0	
100	Pi2 BPSK	1	271		12.48				
100	Pi2 BPSK	135	0		13.29		14.3	0.0	
100	Pi2 BPSK	135	69		13.28		14.3	0.0	
100	Pi2 BPSK	135	138		13.18				
100	Pi2 BPSK	270	0		13.19		14.3	0.0	
100	QPSK	1	1		12.29				
100	QPSK	1	137		13.36		14.3	0.0	
100	QPSK	1	271		12.43				
100	QPSK	135	0		13.22				
100	QPSK	135	69		13.33		14.3	0.0	
100	QPSK	135	138		13.16				
100	QPSK	270	0		13.27		14.3	0.0	
100	16QAM	1	1		12.35		14.3	0.0	
100	64QAM	1	1		12.37		14.3	0.0	
100	256QAM	1	1		12.60		14.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649658	650000	650332	Tune-up limit	MPR	
				3745.92	3750	3754.98			
90	QPSK	1	1	12.51	12.58	12.58	14.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	645334	650000	655666	Tune-up limit	MPR	
				3740.01	3750	3759.99			
80	QPSK	1	1	12.49	12.62	12.58	14.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648998	650000	651002	Tune-up limit	MPR	
				3750.02	3750	3759.98			
60	QPSK	1	1	12.54	12.60	12.46	14.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651666	Tune-up limit	MPR	
				3740.01	3750	3759.99			
50	QPSK	1	1	12.48	12.57	12.50	14.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR	
				3740	3750	3760			
40	QPSK	1	1	12.45	12.50	12.58	14.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647698	650000	652332	Tune-up limit	MPR	
				3745.92	3750	3754.98			
30	QPSK	1	1	12.56	12.48	12.56	14.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
				3740.01	3750	3759.99			
20	QPSK	1	1	12.46	12.52	12.46	14.3	0.0	

Part270_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 600000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		13.72				
100	Pi2 BPSK	1	137		16.47		17.3	0.0	
100	Pi2 BPSK	1	271		13.58				
100	Pi2 BPSK	135	0		16.36		17.3	0.0	
100	Pi2 BPSK	135	69		16.46		17.3	0.0	
100	Pi2 BPSK	135	138		16.33				
100	Pi2 BPSK	270	0		16.35		17.3	0.0	
100	QPSK	1	1		13.63				
100	QPSK	1	137		16.48		17.3	0.0	
100	QPSK	1	271		16.52				
100	QPSK	135	0		16.37				
100	QPSK	135	69		16.45		17.3	0.0	
100	QPSK	135	138		16.30				
100	QPSK	270	0		16.38		17.3	0.0	
100	16QAM	1	1		13.88		17.3	0.0	
100	64QAM	1	1		13.82		17.3	0.0	
100	256QAM	1	1		15.77		17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649658	650000	650332	Tune-up limit	MPR	
				3745.92	3750	3754.98			
90	QPSK	1	1	15.71	15.62	15.73	17.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	645334	650000	655666	Tune-up limit	MPR	
				3740.01	3750	3759.99			
80	QPSK	1	1	15.76	15.71	15.63	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648998	650000	651002	Tune-up limit	MPR	
				3750.02	3750	3759.98			
60	QPSK	1	1	15.74	15.77	15.79	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651666	Tune-up limit	MPR	
				3740.01	3750	3759.99			
50	QPSK	1	1	15.63	15.73	15.68	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR	
				3740	3750	3760			
40	QPSK	1	1	15.59	15.77	15.74	17.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647698	650000	652332	Tune-up limit	MPR	
				3745.92	3750	3754.98			
30	QPSK	1	1	15.69	15.70	15.67	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit	MPR	
				3740.01	3750	3759.99			
20	QPSK	1	1	15.65	15.65	15.68	17.3	0.0	



Default Power for 5G NR SA

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				166800	167300	167800			
20	PI2 BPSK	1	1	24.53	24.58	24.48			
20	PI2 BPSK	1	53	24.34	24.43	24.31	25.5	0.0	
20	PI2 BPSK	1	104	24.30	24.45	24.35			
20	PI2 BPSK	50	0	23.83	23.95	23.92	25.0	0.5	
20	PI2 BPSK	50	28	24.34	24.45	24.42	25.5	0.0	
20	PI2 BPSK	50	56	23.95	23.99	23.82	25.0	0.5	
20	PI2 BPSK	100	0	24.00	24.03	23.92			
20	QPSK	1	1	24.52	24.61	24.57			
20	QPSK	1	53	24.40	24.54	24.44	25.5	0.0	
20	QPSK	1	104	24.26	24.37	24.31			
20	QPSK	50	0	23.31	23.47	23.37	24.5	1.0	
20	QPSK	50	28	24.26	24.53	24.46	25.5	0.0	
20	QPSK	50	56	23.28	23.43	23.28	24.5	1.0	
20	QPSK	100	0	23.44	23.51	23.38			
20	16QAM	1	1	23.12	23.22	23.13	24.5	1.0	
20	64QAM	1	1	21.58	21.63	21.55	23.0	2.5	
20	256QAM	1	1	20.07	20.23	20.13	21.0	4.5	
Channel									
Frequency (MHz)				169300	169300	169300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	24.42	24.45	24.51	25.5	0.0	
Channel									
Frequency (MHz)				166800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.45	24.44	24.40	25.5	0.0	
Channel									
Frequency (MHz)				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	24.42	24.57	24.54	25.5	0.0	

n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				166800	167300	167800			
20	PI2 BPSK	1	1	23.91	24.07	24.00			
20	PI2 BPSK	1	53	24.20	24.25	24.10	25.3	0.0	
20	PI2 BPSK	1	104	23.96	24.07	23.91			
20	PI2 BPSK	50	0	23.53	23.70	23.62	24.8	0.5	
20	PI2 BPSK	50	28	24.14	24.24	24.10	25.3	0.0	
20	PI2 BPSK	50	56	23.42	23.52	23.43	24.8	0.5	
20	PI2 BPSK	100	0	23.86	23.84	23.51			
20	QPSK	1	1	23.88	23.98	23.84			
20	QPSK	1	53	24.06	24.30	24.12	25.3	0.0	
20	QPSK	1	104	23.95	24.05	24.00			
20	QPSK	50	0	23.20	23.23	23.08	24.3	1.0	
20	QPSK	50	28	24.05	24.25	24.10	25.3	0.0	
20	QPSK	50	56	22.87	22.92	22.79	24.3	1.0	
20	QPSK	100	0	23.01	23.10	22.91			
20	16QAM	1	1	22.59	22.73	22.60	24.3	1.0	
20	64QAM	1	1	21.26	21.35	21.25	22.8	2.5	
20	256QAM	1	1	19.86	19.97	19.86	20.8	4.5	
Channel									
Frequency (MHz)				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	24.02	24.07	24.01	25.3	0.0	
Channel									
Frequency (MHz)				166800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.01	24.17	24.05	25.3	0.0	
Channel									
Frequency (MHz)				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.90	24.10	23.99	25.3	0.0	

n7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				505000	507000	509000			
50	PI2 BPSK	1	1	24.63	24.68	24.56			
50	PI2 BPSK	1	135	24.38	24.47	24.30	25.5	0.0	
50	PI2 BPSK	1	268	24.35	24.51	24.42			
50	PI2 BPSK	135	0	24.30	24.34	24.22	25.0	0.5	
50	PI2 BPSK	135	68	24.52	24.58	24.52	25.5	0.0	
50	PI2 BPSK	135	135	24.20	24.28	24.15	25.0	0.5	
50	PI2 BPSK	270	0	24.32	24.34	24.28			
50	QPSK	1	1	24.72	24.77	24.70			
50	QPSK	1	135	24.54	24.66	24.56	25.5	0.0	
50	QPSK	1	268	24.36	24.47	24.42			
50	QPSK	135	0	23.70	23.72	23.61	24.5	1.0	
50	QPSK	135	68	24.67	24.72	24.67	25.5	0.0	
50	QPSK	135	135	23.55	23.72	23.58	24.5	1.0	
50	QPSK	270	0	23.51	23.70	23.58			
50	16QAM	1	1	23.94	23.08	23.07	24.5	1.0	
50	64QAM	1	1	21.61	21.67	21.48	23.0	2.5	
50	256QAM	1	1	20.29	20.31	20.20	21.0	4.5	
Channel									
Frequency (MHz)				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	24.67	24.65	24.66	25.5	0.0	
Channel									
Frequency (MHz)				505000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	24.60	24.72	24.62	25.5	0.0	
Channel									
Frequency (MHz)				505000	507000	515000	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	24.62	24.60	24.57	25.5	0.0	
Channel									
Frequency (MHz)				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.55	24.73	24.54	25.5	0.0	
Channel									
Frequency (MHz)				505000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	24.57	24.63	24.60	25.5	0.0	
Channel									
Frequency (MHz)				507000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.65	24.67	24.67	25.5	0.0	
Channel									
Frequency (MHz)				506000	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	24.61	24.70	24.57	25.5	0.0	



n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2505	2535	2565			
50	PI2 BPSK	1	1	23.30	23.54	23.48			
50	PI2 BPSK	1	135	23.66	23.61	23.68	25.1	0.0	
50	PI2 BPSK	1	268	23.39	23.50	23.41			
50	PI2 BPSK	135	0	23.35	23.44	23.28	24.6	0.5	
50	PI2 BPSK	135	68	23.71	23.80	23.70	25.1	0.0	
50	PI2 BPSK	135	135	23.13	23.28	23.17	24.8	0.5	
50	PI2 BPSK	270	0	23.33	23.43	23.31			
50	QPSK	1	1	23.49	23.56	23.40			
50	QPSK	1	135	23.67	23.72	23.61	25.1	0.0	
50	QPSK	1	268	23.29	23.36	23.22			
50	QPSK	135	0	22.85	22.92	22.80	24.1	1.0	
50	QPSK	135	68	23.56	23.68	23.56	25.1	0.0	
50	QPSK	135	135	22.75	22.80	22.68	24.1	1.0	
50	QPSK	270	0	22.56	22.68	22.56			
50	16QAM	1	1	22.14	22.23	22.14	24.1	1.0	
50	64QAM	1	1	20.68	20.80	20.78	22.8	2.5	
50	256QAM	1	1	18.36	18.40	18.29	20.6	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
40	QPSK	1	1	23.49	23.59	23.53	25.1	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.43	23.60	23.48	25.1	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.47	23.64	23.51	25.1	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
20	QPSK	1	1	23.44	23.67	23.58	25.1	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.47	23.70	23.49	25.1	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.48	23.81	23.52	25.1	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.50	23.57	23.58	25.1	0.0	

n7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2505	2535	2565			
50	PI2 BPSK	1	1	23.82	23.85	23.76			
50	PI2 BPSK	1	135	23.95	24.09	23.92	25.7	0.0	
50	PI2 BPSK	1	268	23.73	23.71	23.75			
50	PI2 BPSK	135	0	23.47	23.62	23.52	25.2	0.5	
50	PI2 BPSK	135	68	24.06	24.17	24.03	26.7	0.0	
50	PI2 BPSK	135	135	23.57	23.66	23.57	25.2	0.5	
50	PI2 BPSK	270	0	23.41	23.56	23.51			
50	QPSK	1	1	23.75	23.82	23.71			
50	QPSK	1	135	23.87	24.19	24.05	25.7	0.0	
50	QPSK	1	268	23.70	23.70	23.72			
50	QPSK	135	0	23.07	23.12	23.08	24.7	1.0	
50	QPSK	135	68	23.90	24.16	24.02	25.7	0.0	
50	QPSK	135	135	23.05	23.13	23.10	24.7	1.0	
50	QPSK	270	0	23.08	23.18	23.02			
50	16QAM	1	1	22.72	22.78	22.71	24.7	1.0	
50	64QAM	1	1	21.22	21.24	21.25	23.2	2.5	
50	256QAM	1	1	18.50	18.67	18.59	21.2	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
40	QPSK	1	1	23.83	24.16	23.94	25.7	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.77	24.09	23.94	25.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.81	24.01	23.88	25.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
20	QPSK	1	1	23.78	24.13	24.01	25.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.73	24.05	23.99	25.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.87	24.09	23.97	25.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.80	24.08	23.98	25.7	0.0	

n7_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2505	2535	2565			
50	PI2 BPSK	1	1	23.32	23.44	23.38			
50	PI2 BPSK	1	135	23.15	23.25	23.20	24.7	0.0	
50	PI2 BPSK	1	268	23.30	23.37	23.35			
50	PI2 BPSK	135	0	22.54	22.66	22.57	24.2	0.5	
50	PI2 BPSK	135	68	23.45	23.49	23.34	24.7	0.0	
50	PI2 BPSK	135	135	22.65	22.73	22.60	24.2	0.5	
50	PI2 BPSK	270	0	22.64	22.77	22.80			
50	QPSK	1	1	23.35	23.56	23.42			
50	QPSK	1	135	23.23	23.40	23.26	24.7	0.0	
50	QPSK	1	268	23.24	23.31	23.19			
50	QPSK	135	0	22.47	22.54	22.43	23.7	1.0	
50	QPSK	135	68	23.31	23.48	23.40	24.7	0.0	
50	QPSK	135	135	22.50	22.58	22.51	23.7	1.0	
50	QPSK	270	0	22.82	22.85	22.49			
50	16QAM	1	1	21.78	21.82	21.78	23.7	1.0	
50	64QAM	1	1	20.23	20.37	20.33	22.2	2.5	
50	256QAM	1	1	18.89	19.02	18.99	20.2	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
40	QPSK	1	1	23.20	23.44	23.40	24.7	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.28	23.49	23.25	24.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.24	23.53	23.30	24.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
20	QPSK	1	1	23.28	23.47	23.27	24.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.30	23.39	23.40	24.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.29	23.38	23.26	24.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.31	23.51	23.24	24.7	0.0	



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	23.71	23.82	23.76			
40	PI2 BPSK	1	108	24.33	24.37	24.22	25.5	0.0	
40	PI2 BPSK	1	214	23.76	23.85	23.79			
40	PI2 BPSK	108	0	23.77	23.92	23.88	25.0	0.5	
40	PI2 BPSK	108	54	24.31	24.40	24.27	25.5	0.9	
40	PI2 BPSK	108	108	23.83	23.97	23.90			
40	PI2 BPSK	216	0	23.80	23.96	23.88	25.0	0.5	
40	QPSK	1	1	23.68	23.76	23.70			
40	QPSK	1	108	24.21	24.42	24.20	25.5	0.0	
40	QPSK	1	214	23.63	23.74	23.68			
40	QPSK	108	0	23.28	23.42	23.25	24.5	1.0	
40	QPSK	108	54	24.21	24.36	24.26	25.5	0.0	
40	QPSK	108	108	23.42	23.46	23.34	24.5	1.0	
40	QPSK	216	0	23.36	23.48	23.35			
40	16QAM	1	1	22.53	22.57	22.54	24.5	1.0	
40	16QAM	1	1	21.01	21.10	21.03	23.0	2.5	
40	256QAM	1	1	19.58	19.67	19.51	21.0	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	24.09	24.38	24.23	25.5	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	24.06	24.39	24.12	25.5	0.0	
Channel				343000	349000	345000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	24.11	24.31	24.13	25.5	0.0	
Channel				343000	349000	350000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1765	(dBm)	(dB)	
10	QPSK	1	1	24.05	24.38	24.26	25.5	0.0	
Channel				342500	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	24.19	24.30	24.14	25.5	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	23.05	23.09	23.03			
40	PI2 BPSK	1	108	23.36	23.53	23.48	24.6	0.0	
40	PI2 BPSK	1	214	23.01	23.04	23.02			
40	PI2 BPSK	108	0	22.91	22.97	22.80	24.1	0.5	
40	PI2 BPSK	108	54	23.40	23.46	23.41	24.6	0.9	
40	PI2 BPSK	108	108	22.98	23.10	22.94			
40	PI2 BPSK	216	0	22.99	23.17	23.05	24.1	0.5	
40	QPSK	1	1	23.09	23.13	23.05			
40	QPSK	1	108	23.37	23.54	23.35	24.6	0.0	
40	QPSK	1	214	23.09	23.13	23.03			
40	QPSK	108	0	22.58	22.51	22.51	23.6	1.0	
40	QPSK	108	54	23.34	23.47	23.30	24.6	0.0	
40	QPSK	108	108	22.57	22.57	22.54	23.6	1.0	
40	QPSK	216	0	22.56	22.59	22.50			
40	16QAM	1	1	22.13	22.23	22.08	23.6	1.0	
40	16QAM	1	1	20.63	20.79	20.72	22.1	2.5	
40	256QAM	1	1	18.64	18.77	18.69	20.1	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	23.25	23.36	23.22	24.6	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	23.30	23.45	23.25	24.6	0.0	
Channel				343000	349000	345000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	23.25	23.41	23.17	24.6	0.0	
Channel				343000	349000	350000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1765	(dBm)	(dB)	
10	QPSK	1	1	23.22	23.42	23.18	24.6	0.0	
Channel				342500	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	23.27	23.47	23.22	24.6	0.0	



n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	23.54	23.63	23.60			
40	PI2 BPSK	1	108	24.06	24.17	24.15	25.1	0.0	
40	PI2 BPSK	1	214	23.65	23.71	23.62			
40	PI2 BPSK	108	0	23.38	23.45	23.42	26.6	0.5	
40	PI2 BPSK	108	54	24.07	24.21	24.09	25.1	0.9	
40	PI2 BPSK	108	108	23.63	23.80	23.71	26.6	0.5	
40	PI2 BPSK	216	0	23.72	23.82	23.80			
40	QPSK	1	1	23.52	23.57	23.44			
40	QPSK	1	108	24.01	24.24	24.12	25.1	0.0	
40	QPSK	1	214	23.46	23.65	23.63			
40	QPSK	108	0	23.04	23.21	23.18	24.1	1.0	
40	QPSK	108	54	24.01	24.22	24.10	25.1	0.0	
40	QPSK	108	108	23.10	23.21	23.12	24.1	1.0	
40	QPSK	216	0	23.07	23.23	23.11			
40	16QAM	1	1	22.33	22.37	22.27	24.1	1.0	
40	64QAM	1	1	20.69	20.85	20.68	22.6	2.5	
40	256QAM	1	1	19.31	19.48	19.30	20.6	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	23.95	24.11	24.01	25.1	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	23.95	24.13	23.95	25.1	0.0	
Channel				343000	349000	345000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	23.96	24.21	24.09	25.1	0.0	
Channel				343000	349000	350000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1765	(dBm)	(dB)	
10	QPSK	1	1	23.92	24.08	23.99	25.1	0.0	
Channel				342000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	23.89	24.09	24.04	25.1	0.0	

n66_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	22.41	22.53	22.49			
40	PI2 BPSK	1	108	23.05	23.11	22.95	23.7	0.0	
40	PI2 BPSK	1	214	22.35	22.52	22.44			
40	PI2 BPSK	108	0	22.52	22.85	22.98	23.2	0.5	
40	PI2 BPSK	108	54	22.91	23.03	22.93	23.7	0.9	
40	PI2 BPSK	108	108	22.56	22.73	22.61	23.2	0.5	
40	PI2 BPSK	216	0	22.68	22.76	22.61			
40	QPSK	1	1	22.29	22.43	22.39			
40	QPSK	1	108	22.96	23.15	23.11	23.7	0.0	
40	QPSK	1	214	22.46	22.53	22.44			
40	QPSK	108	0	22.02	22.15	22.04	22.7	1.0	
40	QPSK	108	54	22.94	23.12	23.06	23.7	0.0	
40	QPSK	108	108	22.12	22.18	22.05	22.7	1.0	
40	QPSK	216	0	22.12	22.20	22.10			
40	16QAM	1	1	21.14	21.27	21.16	22.7	1.0	
40	64QAM	1	1	19.62	19.71	19.54	21.2	2.5	
40	256QAM	1	1	18.14	18.30	18.16	19.2	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	22.90	22.97	23.01	23.7	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	22.84	22.99	23.03	23.7	0.0	
Channel				343000	349000	345000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	22.87	23.09	22.98	23.7	0.0	
Channel				343000	349000	350000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1765	(dBm)	(dB)	
10	QPSK	1	1	22.86	23.02	22.95	23.7	0.0	
Channel				342000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	22.85	23.07	22.93	23.7	0.0	



n38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				518004	519000	519996				
				2590.02	2595	2599.98				
40	Pl2 BPSK	1	1	24.30	24.35	24.17				
40	Pl2 BPSK	1	53	24.80	24.83	24.76	25.5	0.0		
40	Pl2 BPSK	1	104	24.22	24.37	24.25				
40	Pl2 BPSK	50	0	24.03	24.14	24.11	25.0	0.5		
40	Pl2 BPSK	50	28	24.77	24.84	24.69	25.5	0.0		
40	Pl2 BPSK	50	56	24.00	24.18	24.01	25.0	0.5		
40	Pl2 BPSK	100	0	24.18	24.26	24.17				
40	QPSK	1	1	24.17	24.30	24.23				
40	QPSK	1	53	24.75	24.85	24.70	25.5	0.0		
40	QPSK	1	104	24.41	24.51	24.48				
40	QPSK	50	0	23.86	23.89	23.59				
40	QPSK	50	28	23.70	24.82	23.87	25.5	0.0		
40	QPSK	50	56	23.80	23.88	23.52				
40	QPSK	100	0	23.57	23.72	23.54	24.5	1.0		
40	16QAM	1	1	22.96	23.11	23.03	24.5	1.0		
40	16QAM	1	1	21.44	21.61	21.58	23.0	2.5		
40	256QAM	1	1	20.20	20.24	20.12	21.0	4.5		
Channel										
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)		
				2583.01	2585	2584.99				
30	QPSK	1	1	24.59	24.75	24.53	25.5	0.0		
Channel										
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)		
				2580	2595	2610				
20	QPSK	1	1	24.70	24.79	24.63	25.5	0.0		

n38_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				518004	519000	519996				
				2590.02	2595	2599.98				
40	Pl2 BPSK	1	1	23.21	23.26	23.23				
40	Pl2 BPSK	1	53	23.42	23.58	23.44	24.9	0.0		
40	Pl2 BPSK	1	104	23.34	23.50	23.43				
40	Pl2 BPSK	50	0	22.90	22.97	22.80	24.4	0.5		
40	Pl2 BPSK	50	28	23.53	23.62	23.48	24.9	0.0		
40	Pl2 BPSK	50	56	23.07	23.18	23.15	24.4	0.5		
40	Pl2 BPSK	100	0	23.11	23.23	23.06				
40	QPSK	1	1	23.06	23.09	23.05				
40	QPSK	1	53	23.55	23.69	23.53	24.9	0.0		
40	QPSK	1	104	23.12	23.15	23.09				
40	QPSK	50	0	22.37	22.41	22.31				
40	QPSK	50	28	23.54	23.85	23.81	24.9	0.0		
40	QPSK	50	56	22.39	22.42	22.37				
40	QPSK	100	0	22.42	22.50	22.46	23.9	1.0		
40	16QAM	1	1	22.04	22.10	22.09	23.9	1.0		
40	16QAM	1	1	20.53	20.80	20.58	22.4	2.5		
40	256QAM	1	1	18.88	19.04	18.92	20.4	4.5		
Channel										
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)		
				2583.01	2585	2584.99				
30	QPSK	1	1	23.47	23.66	23.37	24.9	0.0		
Channel										
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)		
				2580	2595	2610				
20	QPSK	1	1	23.44	23.57	23.39	24.9	0.0		

n38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				518004	519000	519996				
				2590.02	2595	2599.98				
40	Pl2 BPSK	1	1	23.79	23.75	23.70				
40	Pl2 BPSK	1	53	24.05	24.16	24.06	25.7	0.0		
40	Pl2 BPSK	1	104	24.00	24.14	24.02				
40	Pl2 BPSK	50	0	23.47	23.53	23.43	25.2	0.5		
40	Pl2 BPSK	50	28	24.02	24.20	24.17	25.7	0.0		
40	Pl2 BPSK	50	56	24.18	24.18	24.12	25.2	0.5		
40	Pl2 BPSK	100	0	23.55	23.63	23.55				
40	QPSK	1	1	23.75	23.73	23.75				
40	QPSK	1	53	24.04	24.25	24.10	25.7	0.0		
40	QPSK	1	104	23.72	23.76	23.78				
40	QPSK	50	0	23.01	23.01	23.03				
40	QPSK	50	28	23.00	23.21	23.13	25.7	0.0		
40	QPSK	50	56	23.04	23.09	23.02				
40	QPSK	100	0	23.02	23.13	23.03	24.7	1.0		
40	16QAM	1	1	22.70	22.82	22.74	24.7	1.0		
40	16QAM	1	1	21.22	21.21	21.27	23.2	2.5		
40	256QAM	1	1	19.63	19.67	19.63	21.2	4.5		
Channel										
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)		
				2583.01	2585	2584.99				
30	QPSK	1	1	23.98	24.07	23.97	25.7	0.0		
Channel										
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)		
				2580	2595	2610				
20	QPSK	1	1	24.03	24.19	24.11	25.7	0.0		



n38_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	519000	519996			
				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	23.01	23.05	23.93			
40	PI2 BPSK	1	53	23.52	23.52	23.54	24.6	0.0	
40	PI2 BPSK	1	104	23.03	23.15	23.11			
40	PI2 BPSK	50	0	22.67	22.83	22.72	24.1	0.5	
40	PI2 BPSK	50	26	23.36	23.51	23.43	24.6	0.0	
40	PI2 BPSK	50	56	22.78	22.93	22.77			
40	PI2 BPSK	100	0	22.83	22.95	22.87	24.1	0.5	
40	QPSK	1	1	22.92	22.95	22.87			
40	QPSK	1	53	23.47	23.55	23.54	24.6	0.0	
40	QPSK	1	104	22.99	23.08	22.92			
40	QPSK	50	0	22.27	22.35	22.26			
40	QPSK	50	26	23.47	23.51	23.45	24.6	0.0	
40	QPSK	50	56	22.35	22.41	22.24			
40	QPSK	100	0	22.34	22.43	22.33	23.6	1.0	
40	16QAM	1	1	21.74	21.82	21.71	23.9	1.0	
40	64QAM	1	1	20.17	20.34	20.31	22.1	2.5	
40	256QAM	1	1	18.86	18.92	18.90	20.1	4.5	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2381.01	2595	2604.99	24.6	0.0	
30	QPSK	1	1	23.42	23.35	23.43	24.6	0.0	
Channel									
Frequency (MHz)				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610	24.6	0.0	
20	QPSK	1	1	23.36	23.43	23.41	24.6	0.0	

n41_FCC_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2566.01	2592.99	2540			
100	PI2 BPSK	1	1	23.64	23.68	23.59			
100	PI2 BPSK	1	137	24.38	24.72	24.65	25.5	0.0	
100	PI2 BPSK	1	271	23.66	23.69	23.67			
100	PI2 BPSK	135	0	23.92	24.02	23.91	25.0	0.5	
100	PI2 BPSK	135	69	24.66	24.76	24.65	25.5	0.0	
100	PI2 BPSK	135	138	23.81	23.92	23.87			
100	PI2 BPSK	270	0	23.82	23.89	23.88	25.0	0.5	
100	QPSK	1	1	23.58	23.62	23.58			
100	QPSK	1	137	24.67	24.87	24.71	25.5	0.0	
100	QPSK	1	271	23.57	23.72	23.60			
100	QPSK	135	0	23.53	23.62	23.61			
100	QPSK	135	69	24.55	24.78	24.64	25.5	0.0	
100	QPSK	135	138	23.54	23.58	23.56			
100	QPSK	270	0	23.40	23.56	23.40	24.5	1.0	
100	16QAM	1	1	22.52	22.61	22.58	24.5	1.0	
100	64QAM	1	1	21.06	21.17	21.15	23.0	2.5	
100	256QAM	1	1	19.44	19.56	19.49	21.0	4.5	
Channel									
Frequency (MHz)				508200	518998	528996	Tune-up limit (dBm)	MPR (dB)	
				2541	2592.99	2604.98	24.6	0.0	
50	QPSK	1	1	24.43	24.79	24.61	25.5	0.0	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
				2538.02	2592.99	2548.99	25.5	0.0	
80	QPSK	1	1	24.35	24.74	24.63	25.5	0.0	
Channel									
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
				2526	2592.99	2658.98	25.5	0.0	
80	QPSK	1	1	24.53	24.79	24.67	25.5	0.0	
Channel									
Frequency (MHz)				504204	518998	532996	Tune-up limit (dBm)	MPR (dB)	
				2621.02	2592.99	2654.99	25.5	0.0	
50	QPSK	1	1	24.43	24.78	24.66	25.5	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
				2318.01	2592.99	2670	25.5	0.0	
40	QPSK	1	1	24.43	24.71	24.64	25.5	0.0	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
				2511	2592.99	2674.98	25.5	0.0	
30	QPSK	1	1	24.56	24.80	24.67	25.5	0.0	
Channel									
Frequency (MHz)				2508.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
				2508.02	2592.99	2679.99	25.5	0.0	
20	QPSK	1	1	24.47	24.63	24.66	25.5	0.0	

n41_FCC_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2566.01	2592.99	2540			
100	PI2 BPSK	1	1	23.05	23.10	23.08			
100	PI2 BPSK	1	137	23.56	23.60	23.52	24.9	0.0	
100	PI2 BPSK	1	271	23.01	23.10	23.03			
100	PI2 BPSK	135	0	22.81	22.90	22.76	24.4	0.5	
100	PI2 BPSK	135	69	23.51	23.65	23.60	24.9	0.0	
100	PI2 BPSK	135	138	22.61	22.75	22.62			
100	PI2 BPSK	270	0	22.76	22.82	22.71	24.4	0.5	
100	QPSK	1	1	23.10	23.23	23.17			
100	QPSK	1	137	23.67	23.70	23.60	24.9	0.0	
100	QPSK	1	271	23.19	23.27	23.13			
100	QPSK	135	0	22.38	22.39	22.33			
100	QPSK	135	69	23.47	23.62	23.50	24.9	0.0	
100	QPSK	135	138	22.22	22.26	22.16			
100	QPSK	270	0	22.59	22.65	22.52	23.9	1.0	
100	16QAM	1	1	22.07	22.20	22.16	23.9	1.0	
100	64QAM	1	1	20.59	20.74	20.64	22.4	2.5	
100	256QAM	1	1	18.60	18.70	18.66	20.4	4.5	
Channel									
Frequency (MHz)				508200	518998	528996	Tune-up limit (dBm)	MPR (dB)	
				2541	2592.99	2604.98	24.6	0.0	
50	QPSK	1	1	23.40	23.67	23.48	24.9	0.0	
Channel									
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
				2536.02	2592.99	2548.99	24.9	0.0	
80	QPSK	1	1	23.47	23.64	23.52	24.9	0.0	
Channel									
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
				2526	2592.99	2658.98	24.9	0.0	
80	QPSK	1	1	23.39	23.65	23.44	24.9	0.0	
Channel									
Frequency (MHz)				504204	518998	532996	Tune-up limit (dBm)	MPR (dB)	
				2621.02	2592.99	2654.99	24.9	0.0	
50	QPSK	1	1	23.51	23.59	23.45	24.9	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
				2318.01	2592.99	2670	24.9	0.0	
40	QPSK	1	1	23.43	23.55	23.45	24.9	0.0	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
				2511	2592.99	2674.98	24.9	0.0	
30	QPSK	1	1	23.42	23.57	23.45	24.9	0.0	
Channel									
Frequency (MHz)				2508.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
				2508.02	2592.99	2679.99	24.9	0.0	
20	QPSK	1	1	23.47	23.61	23.59	24.9	0.0	



n41_FCC_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2566.01	2569.99	2540			
Frequency (MHz)									
100	PI2 BPSK	1	1	23.71	23.78	23.76			
100	PI2 BPSK	1	137	24.12	24.16	23.99	25.7	0.0	
100	PI2 BPSK	1	271	23.80	23.82	23.74			
100	PI2 BPSK	135	0	23.52	23.64	23.58	25.2	0.5	
100	PI2 BPSK	135	69	24.12	24.22	24.21	25.7	0.0	
100	PI2 BPSK	135	138	23.57	23.55	23.50			
100	PI2 BPSK	270	0	23.51	23.54	23.51	25.2	0.5	
100	QPSK	1	1	23.76	23.83	23.72			
100	QPSK	1	137	24.07	24.27	24.00	25.7	0.0	
100	QPSK	1	271	23.77	23.81	23.79			
100	QPSK	135	0	23.72	23.32	23.20			
100	QPSK	135	69	24.05	24.21	24.05	25.7	0.0	
100	QPSK	135	138	23.21	23.32	23.23			
100	QPSK	270	0	23.06	23.11	23.02	24.7	1.0	
100	16QAM	1	1	22.73	22.76	22.72	24.7	1.0	
100	64QAM	1	1	21.22	21.34	21.26	23.2	2.5	
100	256QAM	1	1	18.25	18.32	18.29	21.2	4.5	
Channel				509200	518998	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
50	QPSK	1	1	23.95	24.14	24.04	25.7	0.0	
Channel				507204	518998	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	23.46	24.20	23.86	25.7	0.0	
Channel				505200	518998	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2658.98			
60	QPSK	1	1	23.90	24.17	23.94	25.7	0.0	
Channel				503204	518998	529096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.92	24.13	24.01	25.7	0.0	
Channel				501202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.01	24.10	24.01	25.7	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.98	24.18	23.93	25.7	0.0	
Channel				501204	518998	539096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2678.99			
20	QPSK	1	1	23.94	24.14	23.90	25.7	0.0	

n41_FCC_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2566.01	2592.99	2540			
Frequency (MHz)									
100	PI2 BPSK	1	1	22.67	22.65	22.63			
100	PI2 BPSK	1	137	23.42	23.45	23.42	24.6	0.0	
100	PI2 BPSK	1	271	22.66	22.78	22.66			
100	PI2 BPSK	135	0	22.67	22.73	22.66	24.1	0.5	
100	PI2 BPSK	135	69	23.38	23.48	23.33	24.6	0.0	
100	PI2 BPSK	135	138	22.59	22.71	22.68			
100	PI2 BPSK	270	0	22.59	22.75	22.61	24.1	0.5	
100	QPSK	1	1	22.62	22.81	22.66			
100	QPSK	1	137	23.37	23.57	23.30	24.6	0.0	
100	QPSK	1	271	22.61	22.72	22.61			
100	QPSK	135	0	22.32	22.38	22.29			
100	QPSK	135	69	23.25	23.53	23.20	24.6	0.0	
100	QPSK	135	138	22.33	22.48	22.43			
100	QPSK	270	0	22.23	22.30	22.16	23.6	1.0	
100	16QAM	1	1	21.69	21.62	21.61	23.6	1.0	
100	64QAM	1	1	20.17	20.15	20.10	22.1	2.5	
100	256QAM	1	1	18.25	18.40	18.29	20.1	4.5	
Channel				508200	518998	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
50	QPSK	1	1	23.24	23.52	23.19	24.6	0.0	
Channel				507204	518998	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	23.17	23.54	23.20	24.6	0.0	
Channel				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2658.98			
60	QPSK	1	1	23.23	23.53	23.25	24.6	0.0	
Channel				503204	518998	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.24	23.40	23.25	24.6	0.0	
Channel				501202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.14	23.13	23.20	24.6	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.23	23.50	23.22	24.6	0.0	
Channel				501204	518998	539096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2678.99			
20	QPSK	1	1	23.23	23.45	23.23	24.6	0.0	

Part27Q_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3469	3499.98	3500.99			
Frequency (MHz)									
100	PI2 BPSK	1	1		23.54				
100	PI2 BPSK	1	137		24.78		25.4	0.0	
100	PI2 BPSK	1	271		23.52				
100	PI2 BPSK	135	0		24.46		25.4	0.0	
100	PI2 BPSK	135	69		24.62		25.4	0.0	
100	PI2 BPSK	135	138		24.66				
100	PI2 BPSK	270	0		24.65		25.4	0.0	
100	QPSK	1	1		23.97				
100	QPSK	1	137		24.63		25.4	0.0	
100	QPSK	1	271		23.73				
100	QPSK	135	0		24.62				
100	QPSK	135	69		24.61		25.4	0.0	
100	QPSK	135	138		24.60				
100	QPSK	270	0		24.56		24.9	0.5	
100	16QAM	1	1		23.68		24.4	1.0	
100	64QAM	1	1		23.72		24.4	1.0	
100	256QAM	1	1		22.75		23.9	1.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3469	3499.98	3500.99			
50	QPSK	1	1	23.52	23.58	23.53	25.4	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3499.98	3510			
80	QPSK	1	1	23.74	23.73	23.71	25.4	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.99			
60	QPSK	1	1	23.86	23.87	23.78	25.4	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3499.98	3525			
50	QPSK	1	1	23.97	23.93	23.88	25.4	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	23.73	23.72	23.71	25.4	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	24.19	24.11	24.01	25.4	0.0	



Part27Q_n77(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3499.98	3533.32	3566.66			
100	PI2 BPSK	1	137	28.62	28.62	28.62	28.4	0.0	
100	PI2 BPSK	1	271	28.54	28.54	28.54			
100	PI2 BPSK	135	0	28.91	28.91	28.91	27.9	0.5	
100	PI2 BPSK	135	69	28.89	28.89	28.89	28.4	0.0	
100	PI2 BPSK	135	138	28.80	28.80	28.80	27.9	0.5	
100	PI2 BPSK	270	0	28.82	28.82	28.82			
100	QPSK	1	1	28.59	28.59	28.59			
100	QPSK	1	137	27.00	27.00	27.00	28.4	0.0	
100	QPSK	1	271	28.52	28.52	28.52			
100	QPSK	135	0	28.88	28.88	28.88			
100	QPSK	135	69	28.87	28.87	28.87	28.4	0.0	
100	QPSK	135	138	28.50	28.50	28.50			
100	QPSK	270	0	28.50	28.50	28.50	27.4	1.0	
100	16QAM	1	1	24.47	24.47	24.47	25.9	2.5	
100	64QAM	1	1	24.47	24.47	24.47	25.9	2.5	
100	256QAM	1	1	22.40	22.40	22.40	23.9	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63300	63332	63366	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3450.02	3499.98	3549.94	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	28.92	28.76	28.50	28.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631968	633332	634696	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3460.02	3499.98	3539.94	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.98	28.82	28.66	28.4	0.0	

Part27O_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3840	3930			
100	PI2 BPSK	1	137	23.56	23.62	23.59	25.4	0.0	
100	PI2 BPSK	1	271	24.45	24.49	24.42			
100	PI2 BPSK	135	0	23.51	23.71	23.58			
100	PI2 BPSK	135	69	24.15	24.38	24.17	25.4	0.0	
100	PI2 BPSK	135	138	24.27	24.30	24.25	25.4	0.0	
100	PI2 BPSK	270	0	24.20	24.29	24.10			
100	QPSK	1	1	23.58	23.63	23.55			
100	QPSK	1	137	24.50	24.52	24.40	25.4	0.0	
100	QPSK	1	271	23.56	23.73	23.55			
100	QPSK	135	0	24.26	24.26	24.26			
100	QPSK	135	69	24.47	24.50	24.44	25.4	0.0	
100	QPSK	135	138	24.38	24.35	24.28			
100	QPSK	270	0	24.13	24.22	24.21	24.9	0.5	
100	16QAM	1	1	23.07	23.27	23.15	24.4	1.0	
100	64QAM	1	1	23.10	23.21	23.20	24.4	1.0	
100	256QAM	1	1	22.25	22.33	22.22	23.9	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	649688	650000	650312	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.70	23.70	23.63	25.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.85	24.22	24.07	25.4	0.0	

Part27O_n77(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3840	3930			
100	PI2 BPSK	1	137	28.58	28.57	28.64	28.4	0.0	
100	PI2 BPSK	1	271	28.61	28.61	28.62			
100	PI2 BPSK	135	0	28.84	27.04	27.01	27.9	0.5	
100	PI2 BPSK	135	69	27.40	27.45	27.47	28.4	0.0	
100	PI2 BPSK	135	138	27.11	27.12	27.05	27.9	0.5	
100	PI2 BPSK	270	0	28.59	28.54	28.58			
100	QPSK	1	1	28.50	28.52	28.58			
100	QPSK	1	137	27.31	27.48	27.40	28.4	0.0	
100	QPSK	1	271	28.54	28.60	28.60			
100	QPSK	135	0	28.61	28.64	28.61			
100	QPSK	135	69	27.27	27.45	27.37	28.4	0.0	
100	QPSK	135	138	28.53	28.58	28.50			
100	QPSK	270	0	28.29	28.40	28.33	27.4	1.0	
100	16QAM	1	1	24.05	24.18	24.12	25.9	2.5	
100	64QAM	1	1	24.05	24.18	24.12	25.9	2.5	
100	256QAM	1	1	22.02	22.11	22.05	23.9	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	649688	650000	650312	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	28.75	28.70	28.60	28.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	27.12	27.25	27.22	28.4	0.0	



Part27Q_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.52	3499.98					
100	PI2 BPSK	1	137	24.65			25.4	0.0		
100	PI2 BPSK	1	271	23.53						
100	PI2 BPSK	135	0	24.87			25.4	0.0		
100	PI2 BPSK	135	69	24.70			25.4	0.0		
100	PI2 BPSK	135	138	24.62			25.4	0.0		
100	PI2 BPSK	270	0	24.82						
100	QPSK	1	1	23.98						
100	QPSK	1	137	24.72			25.4	0.0		
100	QPSK	1	271	23.59						
100	QPSK	135	0	24.84						
100	QPSK	135	69	24.70			25.4	0.0		
100	QPSK	135	138	24.60						
100	QPSK	270	0	24.54			24.9	0.5		
100	16QAM	1	1	23.21			24.4	1.0		
100	64QAM	1	1	23.25			24.4	1.0		
100	256QAM	1	1	22.34			23.9	1.5		
Channel				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)		
50	QPSK	1	1	23.52	23.65	23.71	25.4	0.0		
Channel				632688	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480.02	3499.98	3510	(dBm)	(dB)		
80	QPSK	1	1	23.81	23.73	23.62	26.4	0.0		
Channel				632500	633332	634068	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)		
60	QPSK	1	1	23.86	23.98	23.62	25.4	0.0		
Channel				631968	633332	635000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3475.02	3499.98	3505	(dBm)	(dB)		
50	QPSK	1	1	24.06	24.11	23.95	25.4	0.0		
Channel				631334	633332	635332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)		
40	QPSK	1	1	23.93	23.92	23.80	25.4	0.0		
Channel				631000	633332	635666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)		
30	QPSK	1	1	23.89	24.12	24.00	25.4	0.0		
Channel				630568	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)		
20	QPSK	1	1	24.30	24.26	24.04	25.4	0.0		

Part27Q_n78(HPUe)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	28.51	3499.98					
100	PI2 BPSK	1	137	28.56			28.4	0.0		
100	PI2 BPSK	1	271	28.57						
100	PI2 BPSK	135	0	28.87			27.9	0.5		
100	PI2 BPSK	135	69	28.92			28.4	0.0		
100	PI2 BPSK	135	138	28.81			27.9	0.5		
100	PI2 BPSK	270	0	28.84						
100	QPSK	1	1	28.65						
100	QPSK	1	137	28.97			28.4	0.0		
100	QPSK	1	271	28.52						
100	QPSK	135	0	28.84						
100	QPSK	135	69	28.95			28.4	0.0		
100	QPSK	135	138	28.51						
100	QPSK	270	0	28.52			27.4	1.0		
100	16QAM	1	1	28.63			27.4	1.0		
100	64QAM	1	1	24.37			25.9	2.5		
100	256QAM	1	1	22.33			23.9	4.5		
Channel				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)		
50	QPSK	1	1	28.75	28.63	28.60	28.4	0.0		
Channel				632688	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480.02	3499.98	3510	(dBm)	(dB)		
80	QPSK	1	1	28.80	28.82	28.82	28.4	0.0		
Channel				632500	633332	634068	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)		
60	QPSK	1	1	28.66	28.73	28.70	28.4	0.0		
Channel				631968	633332	635000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3475.02	3499.98	3505	(dBm)	(dB)		
50	QPSK	1	1	28.65	28.67	28.58	28.4	0.0		
Channel				631334	633332	635332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)		
40	QPSK	1	1	28.73	28.60	28.73	28.4	0.0		
Channel				631000	633332	635666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)		
30	QPSK	1	1	28.87	28.82	28.78	28.4	0.0		
Channel				630568	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)		
20	QPSK	1	1	28.92	28.85	28.90	28.4	0.0		

Part27O_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.54	3750					
100	PI2 BPSK	1	137	24.38			25.4	0.0		
100	PI2 BPSK	1	271	23.53						
100	PI2 BPSK	135	0	24.14			25.4	0.0		
100	PI2 BPSK	135	69	24.36			25.4	0.0		
100	PI2 BPSK	135	138	24.12			25.4	0.0		
100	PI2 BPSK	270	0	24.19						
100	QPSK	1	1	23.50						
100	QPSK	1	137	24.40			25.4	0.0		
100	QPSK	1	271	23.54						
100	QPSK	135	0	24.68						
100	QPSK	135	69	24.37			25.4	0.0		
100	QPSK	135	138	24.21						
100	QPSK	270	0	24.22			24.9	0.5		
100	16QAM	1	1	22.86			24.4	1.0		
100	64QAM	1	1	23.03			24.4	1.0		
100	256QAM	1	1	22.06			23.9	1.5		
Channel				649968	650000	650332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3743.02	3750	3754.98	(dBm)	(dB)		
50	QPSK	1	1	23.57	23.60	23.72	25.4	0.0		
Channel				649334	650000	650666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3740.01	3750	3754.99	(dBm)	(dB)		
80	QPSK	1	1	23.63	23.75	23.72	25.4	0.0		
Channel				649568	650000	651332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3735.02	3750	3764.98	(dBm)	(dB)		
60	QPSK	1	1	23.68	23.87	23.75	25.4	0.0		
Channel				649334	650000	651966	Tune-up limit (dB)	MPR		
Frequency (MHz)				3725.01	3750	3764.99	(dBm)	(dB)		
50	QPSK	1	1	23.85	23.93	24.02	25.4	0.0		
Channel				648000	650000	652000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)		
40	QPSK	1	1	23.75	23.85	23.87	25.4	0.0		
Channel				647668	650000	652332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3715.02	3750	3764.98	(dBm)	(dB)		
30	QPSK	1	1	24.17	24.05	23.85	25.4	0.0		
Channel				647244	650000	652666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3710.01	3750	3769.99	(dBm)	(dB)		
20	QPSK	1	1	24.07	24.21	24.11	25.4	0.0		



Part270_n78(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	28.52	3750					
100	PI2 BPSK	1	137	27.30	3750	3754.98	28.4	0.0		
100	PI2 BPSK	1	271	28.53	3750					
100	PI2 BPSK	135	0	26.75	3750	3759.98	27.9	0.5		
100	PI2 BPSK	135	69	27.32	3750		28.4	0.0		
100	PI2 BPSK	135	138	26.95	3750	3754.98	27.9	0.5		
100	PI2 BPSK	270	0	28.79	3750					
100	QPSK	1	1	26.59	3750					
100	QPSK	1	137	27.42	3750		28.4	0.0		
100	QPSK	1	271	28.53	3750					
100	QPSK	135	0	26.84	3750	3754.98				
100	QPSK	135	69	27.40	3750		28.4	0.0		
100	QPSK	135	138	26.53	3750	3754.98				
100	QPSK	270	0	28.27	3750		27.4	1.0		
100	16QAM	1	1	25.57	3750		27.4	1.0		
100	64QAM	1	1	24.04	3750		25.9	2.5		
100	256QAM	1	1	22.05	3750		23.9	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	28.52	65000	65033.2	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.80	64934	65000	28.4	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.70	64934	65000	28.4	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.89	64934	65000	28.4	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.65	64800	65000	28.4	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	27.01	64768	65000	28.4	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	27.10	64734	65000	28.4	0.0		

Part27Q_n77_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.66	63332	63499.98				
100	PI2 BPSK	1	137	22.35	63332	63499.98	23.3	0.0		
100	PI2 BPSK	1	271	21.45	63332					
100	PI2 BPSK	135	0	22.28	63332	63499.98	23.3	0.0		
100	PI2 BPSK	135	69	22.32	63332		23.3	0.0		
100	PI2 BPSK	135	138	22.22	63332	63499.98	23.3	0.0		
100	PI2 BPSK	270	0	22.24	63332					
100	QPSK	1	1	21.59	63332					
100	QPSK	1	137	22.37	63332		23.3	0.0		
100	QPSK	1	271	21.45	63332					
100	QPSK	135	0	22.32	63332	63499.98				
100	QPSK	135	69	22.35	63332		23.3	0.0		
100	QPSK	135	138	22.27	63332	63499.98				
100	QPSK	270	0	22.30	63332		22.8	0.5		
100	16QAM	1	1	21.41	63332		22.3	1.0		
100	64QAM	1	1	21.39	63332		22.3	1.0		
100	256QAM	1	1	20.34	63332		21.8	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.35	63300	63366	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.57	63268	63332	23.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.99	63268	63332	23.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.72	63199	63332	23.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.52	63134	63332	23.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.02	63068	63332	23.3	0.0		

Part27Q_n77(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	24.32	63068	63332				
100	PI2 BPSK	1	137	25.29	63068	63332	26.3	0.0		
100	PI2 BPSK	1	271	24.30	63068					
100	PI2 BPSK	135	0	24.84	63068	63332	25.8	0.5		
100	PI2 BPSK	135	69	24.99	63068		26.3	0.0		
100	PI2 BPSK	135	138	24.77	63068	63332	25.8	0.5		
100	PI2 BPSK	270	0	24.79	63068					
100	QPSK	1	1	24.57	63068					
100	QPSK	1	137	25.33	63068		26.3	0.0		
100	QPSK	1	271	24.38	63068					
100	QPSK	135	0	24.92	63068	63332				
100	QPSK	135	69	25.30	63068		26.3	0.0		
100	QPSK	135	138	24.30	63068	63332				
100	QPSK	270	0	24.21	63068		25.3	1.0		
100	16QAM	1	1	24.17	63068		25.3	1.0		
100	64QAM	1	1	23.32	63068		23.8	2.5		
100	256QAM	1	1	20.30	63068		21.8	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.52	63068	63332	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.72	63068	63332	26.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.68	63068	63332	26.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.65	63068	63332	26.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.47	63068	63332	26.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.00	63068	63332	26.3	0.0		



Part270_n77_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 659000	Power Middle Ch. / Freq. 659000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.00	21.06	21.04				
100	PI2 BPSK	1	137	22.01	22.12	22.05	23.3	0.0		
100	PI2 BPSK	1	271	21.01	21.16	21.08				
100	PI2 BPSK	135	0	21.73	21.78	21.75	23.3	0.0		
100	PI2 BPSK	135	69	22.04	22.06	22.03	23.3	0.0		
100	PI2 BPSK	135	138	21.89	21.99	21.94				
100	PI2 BPSK	270	0	21.85	21.88	21.86	23.3	0.0		
100	QPSK	1	1	21.02	21.08	21.06				
100	QPSK	1	137	22.07	22.17	22.11	23.3	0.0		
100	QPSK	1	271	21.04	21.27	21.16				
100	QPSK	135	0	21.68	21.80	21.72				
100	QPSK	135	69	21.95	22.15	22.07	23.3	0.0		
100	QPSK	135	138	21.91	21.91	21.88				
100	QPSK	270	0	21.83	21.89	21.87	22.8	0.5		
100	16QAM	1	1	20.87	20.83	20.89	22.3	1.0		
100	64QAM	1	1	20.85	20.89	20.72	22.3	1.0		
100	256QAM	1	1	19.86	19.87	19.84	21.8	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.01	21.05	21.07	23.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.27	21.25	21.31	23.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.24	21.25	21.27	23.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.58	21.61	21.62	23.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.33	21.40	21.43	23.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.31	21.35	21.37	23.3	0.0		

Part270_n77(HPUe)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 659000	Power Middle Ch. / Freq. 659000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	24.09	24.08	24.18				
100	PI2 BPSK	1	137	25.02	25.08	25.02	26.3	0.0		
100	PI2 BPSK	1	271	24.02	24.16	24.02				
100	PI2 BPSK	135	0	24.31	24.32	24.61	25.8	0.5		
100	PI2 BPSK	135	69	25.08	25.07	25.07	26.3	0.0		
100	PI2 BPSK	135	138	24.41	24.56	24.70				
100	PI2 BPSK	270	0	24.31	24.39	24.88	25.8	0.5		
100	QPSK	1	1	24.08	24.12	24.03				
100	QPSK	1	137	25.07	25.15	25.10	26.3	0.0		
100	QPSK	1	271	24.05	24.21	24.29				
100	QPSK	135	0	24.80	24.86	24.04				
100	QPSK	135	69	25.05	25.11	25.08	26.3	0.0		
100	QPSK	135	138	24.05	24.04	24.12				
100	QPSK	270	0	23.82	23.97	23.85	25.3	1.0		
100	16QAM	1	1	23.24	23.26	23.27	25.3	1.0		
100	64QAM	1	1	21.84	21.70	21.79	23.8	2.5		
100	256QAM	1	1	19.82	19.61	19.61	21.8	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.04	24.03	24.21	26.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.10	24.21	24.23	26.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.37	24.41	24.48	26.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.51	24.52	24.56	26.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.23	24.25	24.29	26.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.72	24.73	24.81	26.3	0.0		

Part27Q_n78_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633000	Power High Ch. / Freq. 633000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.55						
100	PI2 BPSK	1	137	22.33			23.3	0.0		
100	PI2 BPSK	1	271	21.31						
100	PI2 BPSK	135	0	22.31			23.3	0.0		
100	PI2 BPSK	135	69	22.30			23.3	0.0		
100	PI2 BPSK	135	138	22.15			23.3	0.0		
100	PI2 BPSK	270	0	22.17						
100	QPSK	1	1	21.68						
100	QPSK	1	137	22.35			23.3	0.0		
100	QPSK	1	271	21.34						
100	QPSK	135	0	22.28						
100	QPSK	135	69	22.32			23.3	0.0		
100	QPSK	135	138	22.09						
100	QPSK	270	0	22.25			22.8	0.5		
100	16QAM	1	1	21.44			22.3	1.0		
100	64QAM	1	1	21.40			22.3	1.0		
100	256QAM	1	1	20.42			21.8	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.54	21.55	21.57	23.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.62	21.70	21.70	23.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.84	21.88	21.89	23.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.99	21.98	21.92	23.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.77	21.72	21.71	23.3	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.95	21.91	21.88	23.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.09	22.06	21.97	23.3	0.0		



Part27Q_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3499.98	24.32					
100	PI2 BPSK	1	137	25.28	24.32		26.3	0.0		
100	PI2 BPSK	1	271	24.34	24.32					
100	PI2 BPSK	135	0	24.79	25.8		25.8	0.5		
100	PI2 BPSK	135	69	25.12	26.3		26.3	0.0		
100	PI2 BPSK	135	138	24.64	25.8		25.8	0.5		
100	PI2 BPSK	270	0	24.74	24.32					
100	QPSK	1	1	24.63	24.32					
100	QPSK	1	137	25.32	26.3		26.3	0.0		
100	QPSK	1	271	24.30	24.32					
100	QPSK	135	0	24.31	26.3		26.3	0.0		
100	QPSK	135	69	25.30	26.3		26.3	0.0		
100	QPSK	135	138	24.32	26.3		26.3	0.0		
100	QPSK	270	0	24.21	25.3		25.3	1.0		
100	16QAM	1	1	23.74	25.3		25.3	1.0		
100	64QAM	1	1	22.35	23.8		23.8	2.5		
100	256QAM	1	1	20.24	21.8		21.8	4.5		
Channel										
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	3499.98	24.45	24.44	26.3	0.0		
Channel										
				630688	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3499.98	24.62	24.62	26.3	0.0		
Channel										
				630500	633332	636066	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	3499.98	24.79	24.72	24.70	26.3	0.0	
Channel										
				631088	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	3499.98	24.87	24.84	24.81	26.3	0.0	
Channel										
				631334	633332	636332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	3499.98	24.91	24.89	24.87	26.3	0.0	
Channel										
				631000	633332	636666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	3499.98	24.86	24.81	24.79	26.3	0.0	
Channel										
				630500	633332	636300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	3499.98	24.97	24.94	24.92	26.3	0.0	

Part27O_n78_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3750	21.02					
100	PI2 BPSK	1	137	21.84	21.02		23.3	0.0		
100	PI2 BPSK	1	271	21.00	21.02					
100	PI2 BPSK	135	0	21.68	23.3		23.3	0.0		
100	PI2 BPSK	135	69	21.90	23.3		23.3	0.0		
100	PI2 BPSK	135	138	21.62	23.3		23.3	0.0		
100	PI2 BPSK	270	0	21.71	21.02					
100	QPSK	1	1	21.01	21.02					
100	QPSK	1	137	21.97	23.3		23.3	0.0		
100	QPSK	1	271	21.03	21.02					
100	QPSK	135	0	21.67	23.3		23.3	0.0		
100	QPSK	135	69	21.94	23.3		23.3	0.0		
100	QPSK	135	138	21.75	23.3		23.3	0.0		
100	QPSK	270	0	21.78	22.8		22.8	0.5		
100	16QAM	1	1	20.82	22.3		22.3	1.0		
100	64QAM	1	1	20.64	22.3		22.3	1.0		
100	256QAM	1	1	19.73	21.8		21.8	1.5		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	3750	21.04	21.00	21.02	23.3	0.0	
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3750	21.01	21.00	21.04	23.3	0.0	
Channel										
				649688	650000	651332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	3750	21.39	21.41	21.44	23.3	0.0	
Channel										
				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	3750	21.44	21.41	21.46	23.3	0.0	
Channel										
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	3750	21.53	21.50	21.54	23.3	0.0	
Channel										
				647688	650000	652332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	3750	21.47	21.45	21.46	23.3	0.0	
Channel										
				647344	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	3750	21.68	21.62	21.67	23.3	0.0	

Part27O_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3750	24.01					
100	PI2 BPSK	1	137	24.97	24.01		26.3	0.0		
100	PI2 BPSK	1	271	24.03	24.01					
100	PI2 BPSK	135	0	24.19	25.8		25.8	0.5		
100	PI2 BPSK	135	69	24.95	26.3		26.3	0.0		
100	PI2 BPSK	135	138	24.22	25.8		25.8	0.5		
100	PI2 BPSK	270	0	24.24	24.01					
100	QPSK	1	1	24.03	24.01					
100	QPSK	1	137	25.00	26.3		26.3	0.0		
100	QPSK	1	271	24.05	24.01					
100	QPSK	135	0	24.01	26.3		26.3	0.0		
100	QPSK	135	69	24.97	26.3		26.3	0.0		
100	QPSK	135	138	24.03	26.3		26.3	0.0		
100	QPSK	270	0	23.78	25.3		25.3	1.0		
100	16QAM	1	1	23.15	25.3		25.3	1.0		
100	64QAM	1	1	21.60	23.8		23.8	2.5		
100	256QAM	1	1	18.91	21.8		21.8	4.5		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	3750	24.12	24.15	24.05	26.3	0.0	
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3750	24.21	24.21	24.22	26.3	0.0	
Channel										
				649688	650000	651332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	3750	24.51	24.54	24.56	26.3	0.0	
Channel										
				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	3750	24.61	24.62	24.60	26.3	0.0	
Channel										
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	3750	24.29	24.32	24.29	26.3	0.0	
Channel										
				647688	650000	652332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	3750	24.55	24.57	24.56	26.3	0.0	
Channel										
				647344	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	3750	24.74	24.79	24.72	26.3	0.0	



Part27Q_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.84					
100	PI2 BPSK	1	137	23.81			24.5	0.0	
100	PI2 BPSK	1	271	22.91					
100	PI2 BPSK	135	0	23.55			24.5	0.0	
100	PI2 BPSK	135	69	23.78			24.5	0.0	
100	PI2 BPSK	135	138	23.59			24.5	0.0	
100	PI2 BPSK	270	0	23.65					
100	QPSK	1	1	22.74					
100	QPSK	1	137	23.84			24.5	0.0	
100	QPSK	1	271	22.78					
100	QPSK	135	0	23.72					
100	QPSK	135	69	23.52			24.5	0.0	
100	QPSK	135	138	23.75					
100	QPSK	270	0	23.85			24.0	0.5	
100	16QAM	1	1	22.82			23.5	1.0	
100	64QAM	1	1	22.86			23.5	1.0	
100	256QAM	1	1	22.22			23.0	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.86	22.87	22.89	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.49	23.02	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.10	23.15	23.19	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.26	23.28	23.34	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.00	23.09	23.12	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.48	23.49	23.51	24.5	0.0	

Part27Q_n77(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.98					
100	PI2 BPSK	1	137	26.79			27.5	0.0	
100	PI2 BPSK	1	271	26.01					
100	PI2 BPSK	135	0	26.21			27.0	0.5	
100	PI2 BPSK	135	69	26.72			27.5	0.0	
100	PI2 BPSK	135	138	26.53			27.0	0.5	
100	PI2 BPSK	270	0	26.29					
100	QPSK	1	1	25.87					
100	QPSK	1	137	26.83			27.5	0.0	
100	QPSK	1	271	26.06					
100	QPSK	135	0	26.23					
100	QPSK	135	69	26.80			27.5	0.0	
100	QPSK	135	138	26.30					
100	QPSK	270	0	26.31			26.5	1.0	
100	16QAM	1	1	26.62			26.5	1.0	
100	64QAM	1	1	24.15			25.0	2.5	
100	256QAM	1	1	22.09			23.0	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.81	25.93	25.94	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.01	26.03	26.07	27.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.09	26.12	26.14	27.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.21	26.23	26.28	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.03	26.13	26.21	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.24	26.27	26.29	27.5	0.0	

Part27O_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.86	22.97	23.01			
100	PI2 BPSK	1	137	23.85	23.91	23.90	24.5	0.0	
100	PI2 BPSK	1	271	23.12	23.20	22.95			
100	PI2 BPSK	135	0	23.65	23.70	23.77	24.5	0.0	
100	PI2 BPSK	135	69	23.82	23.78	23.89	24.5	0.0	
100	PI2 BPSK	135	138	23.75	23.66	23.74	24.5	0.0	
100	PI2 BPSK	270	0	23.75	23.68	23.72			
100	QPSK	1	1	22.84	22.96	22.97			
100	QPSK	1	137	23.87	23.94	23.81	24.5	0.0	
100	QPSK	1	271	23.08	23.11	22.88			
100	QPSK	135	0	23.63	23.75	23.71			
100	QPSK	135	69	23.88	23.91	23.75	24.5	0.0	
100	QPSK	135	138	23.78	23.87	23.87			
100	QPSK	270	0	23.65	23.79	23.69	24.0	0.5	
100	16QAM	1	1	22.69	22.78	22.76	23.5	1.0	
100	64QAM	1	1	22.64	22.78	22.77	23.5	1.0	
100	256QAM	1	1	22.01	22.22	22.15	23.0	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.96	23.01	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.10	23.20	23.23	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.34	23.39	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.41	23.46	23.49	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.23	23.27	23.33	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.46	23.50	23.54	24.5	0.0	



Part270_n77(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.62	25.80	25.94			
100	PI2 BPSK	1	137	26.70	26.84	26.90	27.5	0.0	
100	PI2 BPSK	1	271	25.86	26.03	25.81			
100	PI2 BPSK	135	0	25.94	26.15	26.29	27.0	0.5	
100	PI2 BPSK	135	69	26.81	26.91	26.93	27.5	0.0	
100	PI2 BPSK	135	138	26.18	26.33	26.22	27.0	0.5	
100	PI2 BPSK	270	0	26.02	26.24	26.21			
100	QPSK	1	1	25.71	25.84	25.95			
100	QPSK	1	137	25.81	25.95	25.92	27.5	0.0	
100	QPSK	1	271	25.91	26.06	25.87			
100	QPSK	135	0	25.91	25.97	25.84			
100	QPSK	135	69	25.75	25.92	25.90	27.5	0.0	
100	QPSK	135	138	25.81	26.05	25.81			
100	QPSK	270	0	25.68	26.05	25.77	26.5	1.0	
100	16QAM	1	1	24.97	25.25	25.14	26.5	1.0	
100	64QAM	1	1	23.51	23.73	23.67	25.0	2.5	
100	256QAM	1	1	21.59	21.84	21.74	23.0	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.85	25.90	25.92	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.44	26.42	26.07	27.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.14	26.19	26.21	27.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.21	26.28	26.23	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.04	26.11	26.14	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.26	26.31	26.35	27.5	0.0	

Part27Q_n78_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.70					
100	PI2 BPSK	1	137	23.79			24.5	0.0	
100	PI2 BPSK	1	271	22.81					
100	PI2 BPSK	135	0	23.38			24.5	0.0	
100	PI2 BPSK	135	69	23.67			24.5	0.0	
100	PI2 BPSK	135	138	23.46			24.5	0.0	
100	PI2 BPSK	270	0	23.37					
100	QPSK	1	1	22.84					
100	QPSK	1	137	23.82			24.5	0.0	
100	QPSK	1	271	22.90					
100	QPSK	135	0	23.67					
100	QPSK	135	69	23.50			24.5	0.0	
100	QPSK	135	138	23.73					
100	QPSK	270	0	23.72			24.0	0.5	
100	16QAM	1	1	22.69			23.5	1.0	
100	64QAM	1	1	22.71			23.5	1.0	
100	256QAM	1	1	22.13			23.0	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.64	22.68	22.51	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.80	22.81	22.65	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.94	23.00	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.11	23.16	23.19	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.40	23.42	23.45	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.13	23.18	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.60	23.63	23.69	24.5	0.0	

Part27Q_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.76					
100	PI2 BPSK	1	137	26.72			27.5	0.0	
100	PI2 BPSK	1	271	25.71					
100	PI2 BPSK	135	0	25.95			27.0	0.5	
100	PI2 BPSK	135	69	26.71			27.5	0.0	
100	PI2 BPSK	135	138	26.05			27.0	0.5	
100	PI2 BPSK	270	0	25.95					
100	QPSK	1	1	25.84					
100	QPSK	1	137	26.78			27.5	0.0	
100	QPSK	1	271	25.91					
100	QPSK	135	0	26.20					
100	QPSK	135	69	26.75			27.5	0.0	
100	QPSK	135	138	26.27					
100	QPSK	270	0	26.16			26.5	1.0	
100	16QAM	1	1	25.50			26.5	1.0	
100	64QAM	1	1	23.97			25.0	2.5	
100	256QAM	1	1	21.92			23.0	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.85	25.91	25.91	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.71	25.74	25.77	27.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.98	26.00	26.05	27.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.01	26.07	26.09	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.82	25.91	25.94	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.34	26.40	26.48	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.53	26.55	26.59	27.5	0.0	



Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.67	3750					
100	PI2 BPSK	1	137	23.72			24.5	0.0		
100	PI2 BPSK	1	271	23.02						
100	PI2 BPSK	135	0	23.54			24.5	0.0		
100	PI2 BPSK	135	69	23.70			24.5	0.0		
100	PI2 BPSK	135	138	23.61			24.5	0.0		
100	PI2 BPSK	270	0	23.54						
100	QPSK	1	1	22.75						
100	QPSK	1	137	23.76			24.5	0.0		
100	QPSK	1	271	22.78						
100	QPSK	135	0	23.46						
100	QPSK	135	69	23.75			24.5	0.0		
100	QPSK	135	138	23.57						
100	QPSK	270	0	23.53			24.0	0.5		
100	16QAM	1	1	22.42			23.5	1.0		
100	64QAM	1	1	22.43			23.5	1.0		
100	256QAM	1	1	21.88			23.0	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.81	64988	65032	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.81	64988	65032	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.04	64934	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.23	64800	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.01	64768	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.25	64724	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.41	64724	65000	Tune-up limit (dB)	MPR (dB)		

Part270_n78(HPUe)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	25.70	3750					
100	PI2 BPSK	1	137	26.78			27.5	0.0		
100	PI2 BPSK	1	271	25.86						
100	PI2 BPSK	135	0	26.01			27.0	0.5		
100	PI2 BPSK	135	69	26.75			27.5	0.0		
100	PI2 BPSK	135	138	26.14			27.0	0.5		
100	PI2 BPSK	270	0	26.13						
100	QPSK	1	1	25.67						
100	QPSK	1	137	26.80			27.5	0.0		
100	QPSK	1	271	25.71						
100	QPSK	135	0	26.02						
100	QPSK	135	69	26.78			27.5	0.0		
100	QPSK	135	138	26.09						
100	QPSK	270	0	26.08			26.5	1.0		
100	16QAM	1	1	25.36			26.5	1.0		
100	64QAM	1	1	23.79			25.0	2.5		
100	256QAM	1	1	21.62			23.0	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.81	64988	65032	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.01	64934	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.23	64800	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.44	64680	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.15	64724	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	26.45	64724	65000	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.62	64724	65000	Tune-up limit (dB)	MPR (dB)		

Part27Q_n77_Ant 6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.84	3499.98					
100	PI2 BPSK	1	137	20.97			21.8	0.0		
100	PI2 BPSK	1	271	19.92						
100	PI2 BPSK	135	0	20.68			21.8	0.0		
100	PI2 BPSK	135	69	20.93			21.8	0.0		
100	PI2 BPSK	135	138	20.62			21.8	0.0		
100	PI2 BPSK	270	0	20.67						
100	QPSK	1	1	20.08						
100	QPSK	1	137	21.00			21.8	0.0		
100	QPSK	1	271	20.18						
100	QPSK	135	0	20.88						
100	QPSK	135	69	20.97			21.8	0.0		
100	QPSK	135	138	20.84						
100	QPSK	270	0	20.80			21.3	0.5		
100	16QAM	1	1	19.91			20.8	1.0		
100	64QAM	1	1	19.95			20.8	1.0		
100	256QAM	1	1	18.00			20.3	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.22	63000	63332	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.30	63068	63332	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.54	63068	63332	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.68	63068	63332	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.45	63068	63332	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.63	63068	63332	Tune-up limit (dB)	MPR (dB)		



Part27Q_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3499.98	633332	633332			
100	PI2 BPSK	1	1	23.03					
100	PI2 BPSK	1	137	23.37			24.8	0.0	
100	PI2 BPSK	1	271	22.99					
100	PI2 BPSK	135	0	23.80			24.3	0.5	
100	PI2 BPSK	135	69	23.96			24.8	0.0	
100	PI2 BPSK	135	138	23.76			24.3	0.5	
100	PI2 BPSK	270	0	23.79					
100	QPSK	1	1	23.14					
100	QPSK	1	137	24.00			24.8	0.0	
100	QPSK	1	271	23.19					
100	QPSK	135	0	22.97					
100	QPSK	135	69	23.98			24.8	0.0	
100	QPSK	135	138	22.99					
100	QPSK	270	0	22.95			23.8	1.0	
100	16QAM	1	1	22.41			23.8	1.0	
100	64QAM	1	1	20.83			22.3	2.5	
100	256QAM	1	1	18.81			20.3	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.21	633332	633986	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.40	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.45	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.55	633332	636986	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.34	633332	636986	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.75	633332	636986	Tune-up limit (dBm)	MPR (dB)	

Part27O_n77_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	660000	660000			
100	PI2 BPSK	1	137	19.98					
100	PI2 BPSK	1	137	20.85			21.8	0.0	
100	PI2 BPSK	1	271	19.98					
100	PI2 BPSK	135	0	20.65			21.8	0.0	
100	PI2 BPSK	135	69	20.85			21.8	0.0	
100	PI2 BPSK	135	138	20.61			21.8	0.0	
100	PI2 BPSK	270	0	20.63					
100	QPSK	1	1	20.16					
100	QPSK	1	137	20.88			21.8	0.0	
100	QPSK	1	271	20.04					
100	QPSK	135	0	20.76					
100	QPSK	135	69	20.88			21.8	0.0	
100	QPSK	135	138	20.64					
100	QPSK	270	0	20.66			21.3	0.5	
100	16QAM	1	1	19.83			20.8	1.0	
100	64QAM	1	1	19.80			20.8	1.0	
100	256QAM	1	1	18.82			20.3	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.23	660000	662332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.43	660000	662666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.48	660000	664666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.73	660000	664999	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.53	660000	664999	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.84	660000	664999	Tune-up limit (dBm)	MPR (dB)	

Part27O_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	660000	660000			
100	PI2 BPSK	1	137	23.11					
100	PI2 BPSK	1	137	23.80			24.8	0.0	
100	PI2 BPSK	1	271	22.98					
100	PI2 BPSK	135	0	23.54			24.3	0.5	
100	PI2 BPSK	135	69	23.75			24.8	0.0	
100	PI2 BPSK	135	138	23.28			24.3	0.5	
100	PI2 BPSK	270	0	23.41					
100	QPSK	1	1	22.99					
100	QPSK	1	137	23.85			24.8	0.0	
100	QPSK	1	271	22.99					
100	QPSK	135	0	22.88					
100	QPSK	135	69	23.81			24.8	0.0	
100	QPSK	135	138	22.86					
100	QPSK	270	0	22.86			23.8	1.0	
100	16QAM	1	1	22.44			23.8	1.0	
100	64QAM	1	1	20.80			22.3	2.5	
100	256QAM	1	1	18.56			20.3	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.27	660000	662332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.30	660000	662666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.44	660000	664666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.58	660000	664999	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.33	660000	664999	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.63	660000	664999	Tune-up limit (dBm)	MPR (dB)	



Part27Q_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633332					
100	Pl/2 BPSK	1	1	19.84	3499.98				
100	Pl/2 BPSK	1	137	20.95			21.8	0.0	
100	Pl/2 BPSK	1	211	19.90					
100	Pl/2 BPSK	135	0	20.63			21.8	0.0	
100	Pl/2 BPSK	135	69	20.92					
100	Pl/2 BPSK	135	138	20.51			21.8	0.0	
100	Pl/2 BPSK	270	0	20.51					
100	QPSK	1	1	19.96					
100	QPSK	1	137	20.96			21.8	0.0	
100	QPSK	1	271	20.01					
100	QPSK	135	0	20.74					
100	QPSK	135	69	20.95			21.8	0.0	
100	QPSK	135	138	20.75					
100	QPSK	270	0	20.70			21.3	0.5	
100	16QAM	1	1	19.81			20.8	1.0	
100	16QAM	1	1	19.84			20.8	1.0	
100	256QAM	1	1	18.89			20.3	1.5	
Channel									
Frequency (MHz)				633000			633668		
Frequency (MHz)				3495			3499.98		
90	QPSK	1	1	20.05	20.11	20.07	21.8	0.0	
Channel									
Frequency (MHz)				630968			634000		
Frequency (MHz)				3490.02			3495.98		
80	QPSK	1	1	20.18	20.20	20.22	21.8	0.0	
Channel									
Frequency (MHz)				632000			634668		
Frequency (MHz)				3480			3499.98		
60	QPSK	1	1	20.41	20.43	20.42	21.8	0.0	
Channel									
Frequency (MHz)				631688			635000		
Frequency (MHz)				3479.02			3499.98		
50	QPSK	1	1	20.53	20.54	20.52	21.8	0.0	
Channel									
Frequency (MHz)				631334			636332		
Frequency (MHz)				3470.01			3499.98		
40	QPSK	1	1	20.31	20.33	20.34	21.8	0.0	
Channel									
Frequency (MHz)				631000			636668		
Frequency (MHz)				3465			3499.98		
30	QPSK	1	1	20.48	20.51	20.48	21.8	0.0	
Channel									
Frequency (MHz)				630668			635000		
Frequency (MHz)				3460.02			3499.98		
20	QPSK	1	1	20.65	20.68	20.64	21.8	0.0	

Part27Q_n78(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633332					
100	Pl/2 BPSK	1	1	23.06					
100	Pl/2 BPSK	1	137	23.90			24.8	0.0	
100	Pl/2 BPSK	1	271	22.86					
100	Pl/2 BPSK	135	0	23.72			24.3	0.5	
100	Pl/2 BPSK	135	69	23.87					
100	Pl/2 BPSK	135	138	23.74			24.3	0.5	
100	Pl/2 BPSK	270	0	23.77					
100	QPSK	1	1	23.06					
100	QPSK	1	137	23.96			24.8	0.0	
100	QPSK	1	271	23.00					
100	QPSK	135	0	23.92					
100	QPSK	135	69	23.93			24.8	0.0	
100	QPSK	135	138	22.84					
100	QPSK	270	0	22.83			23.8	1.0	
100	16QAM	1	1	22.52			23.8	1.0	
100	16QAM	1	1	20.76			22.3	2.5	
100	256QAM	1	1	18.77			20.3	4.5	
Channel									
Frequency (MHz)				633000			633668		
Frequency (MHz)				3495			3499.98		
90	QPSK	1	1	23.24	23.22	23.21	24.8	0.0	
Channel									
Frequency (MHz)				630968			634000		
Frequency (MHz)				3490.02			3495.98		
80	QPSK	1	1	23.42	23.40	23.39	24.8	0.0	
Channel									
Frequency (MHz)				632000			634668		
Frequency (MHz)				3480			3499.98		
60	QPSK	1	1	23.58	23.56	23.52	24.8	0.0	
Channel									
Frequency (MHz)				631688			635000		
Frequency (MHz)				3479.02			3499.98		
50	QPSK	1	1	23.76	23.72	23.71	24.8	0.0	
Channel									
Frequency (MHz)				631334			636332		
Frequency (MHz)				3470.01			3499.98		
40	QPSK	1	1	23.49	23.45	23.43	24.8	0.0	
Channel									
Frequency (MHz)				631000			636668		
Frequency (MHz)				3465			3499.98		
30	QPSK	1	1	23.66	23.64	23.61	24.8	0.0	
Channel									
Frequency (MHz)				630668			635000		
Frequency (MHz)				3460.02			3499.98		
20	QPSK	1	1	23.88	23.81	23.78	24.8	0.0	



Part270_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	19.90	20.83	21.8	21.8	0.0	
100	PI/2 BPSK	1	137	19.94	20.83	21.8	21.8	0.0	
100	PI/2 BPSK	1	211	20.82	20.83	21.8	21.8	0.0	
100	PI/2 BPSK	135	0	20.80	20.83	21.8	21.8	0.0	
100	PI/2 BPSK	135	69	20.82	20.83	21.8	21.8	0.0	
100	PI/2 BPSK	135	138	20.80	20.83	21.8	21.8	0.0	
100	PI/2 BPSK	270	0	19.96	20.83	21.8	21.8	0.0	
100	QPSK	1	1	19.96	20.83	21.8	21.8	0.0	
100	QPSK	1	137	20.85	20.83	21.8	21.8	0.0	
100	QPSK	1	271	19.81	20.83	21.8	21.8	0.0	
100	QPSK	135	0	20.74	20.83	21.8	21.8	0.0	
100	QPSK	135	69	20.82	20.83	21.8	21.8	0.0	
100	QPSK	135	138	20.59	20.83	21.8	21.8	0.0	
100	QPSK	270	0	20.87	20.83	21.3	21.3	0.5	
100	16QAM	1	1	19.72	20.83	20.8	20.8	1.0	
100	16QAM	1	1	19.76	20.83	20.8	20.8	1.0	
100	256QAM	1	1	18.80	20.83	20.3	20.3	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65032	21.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	21.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.44	20.44	20.46	21.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.63	20.60	20.62	21.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.58	20.56	20.57	21.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.71	20.66	20.63	21.8	0.0	

Part270_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	22.92	23.77	24.8	24.8	0.0	
100	PI/2 BPSK	1	137	22.91	23.77	24.8	24.8	0.0	
100	PI/2 BPSK	135	0	23.98	23.83	24.3	24.3	0.5	
100	PI/2 BPSK	135	69	23.93	23.83	24.8	24.8	0.0	
100	PI/2 BPSK	135	138	23.44	23.83	24.3	24.3	0.5	
100	PI/2 BPSK	270	0	23.49	23.83	24.8	24.8	0.0	
100	QPSK	1	1	22.88	23.79	24.8	24.8	0.0	
100	QPSK	1	137	22.82	23.79	24.8	24.8	0.0	
100	QPSK	1	271	22.82	23.79	24.8	24.8	0.0	
100	QPSK	135	0	23.80	23.75	24.8	24.8	0.0	
100	QPSK	135	69	23.75	23.75	24.8	24.8	0.0	
100	QPSK	135	138	22.85	23.75	24.8	24.8	0.0	
100	QPSK	270	0	22.80	23.75	24.8	24.8	1.0	
100	16QAM	1	1	22.16	23.75	23.8	23.8	1.0	
100	16QAM	1	1	22.61	23.75	22.3	22.3	2.5	
100	256QAM	1	1	18.50	20.3	20.3	20.3	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64934	65000	65066	21.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	21.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.22	23.24	23.35	24.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.38	23.42	23.55	24.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.05	23.12	23.14	24.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.30	23.33	23.38	24.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.44	23.50	23.53	24.8	0.0	



n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				824	836.5	849			
20	PI2 BPSK	1	1	24.53	24.58	24.48			
20	PI2 BPSK	1	53	24.34	24.43	24.31	25.5	0.0	
20	PI2 BPSK	1	104	24.30	24.45	24.35			
20	PI2 BPSK	50	0	23.83	23.95	23.92	25.0	0.5	
20	PI2 BPSK	50	28	24.34	24.45	24.42	25.5	0.0	
20	PI2 BPSK	50	56	23.95	23.99	23.82	25.0	0.5	
20	PI2 BPSK	100	0	24.00	24.03	23.92			
20	QPSK	1	1	24.52	24.61	24.57			
20	QPSK	1	53	24.40	24.54	24.44	25.5	0.0	
20	QPSK	1	104	24.26	24.37	24.31			
20	QPSK	50	0	23.31	23.47	23.37	24.5	1.0	
20	QPSK	50	28	24.39	24.53	24.46	25.5	0.0	
20	QPSK	50	56	23.28	23.43	23.28	24.5	1.0	
20	QPSK	100	0	23.44	23.51	23.38			
20	16QAM	1	1	23.12	23.22	23.13	24.5	1.0	
20	64QAM	1	1	21.58	21.63	21.55	23.0	2.5	
20	256QAM	1	1	20.07	20.23	20.13	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.42	24.45	24.51	25.5	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.45	24.44	24.40	25.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	24.42	24.57	24.54	25.5	0.0	

DS10									
n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				824	836.5	849			
20	PI2 BPSK	1	1	23.45	23.56	23.41			
20	PI2 BPSK	1	53	23.71	23.76	23.63	24.8	0.0	
20	PI2 BPSK	1	104	23.46	23.58	23.52			
20	PI2 BPSK	50	0	23.57	23.61	23.57	24.8	0.0	
20	PI2 BPSK	50	28	23.86	23.76	23.86	24.8	0.0	
20	PI2 BPSK	50	56	23.40	23.48	23.39	24.8	0.0	
20	PI2 BPSK	100	0	23.58	23.63	23.54			
20	QPSK	1	1	23.34	23.47	23.36			
20	QPSK	1	53	23.59	23.60	23.51	24.8	0.0	
20	QPSK	1	104	23.44	23.47	23.39			
20	QPSK	50	0	23.07	23.11	23.04	24.3	0.5	
20	QPSK	50	28	23.71	23.74	23.73	24.8	0.0	
20	QPSK	50	56	23.05	23.18	23.15	24.3	0.5	
20	QPSK	100	0	23.17	23.25	23.16			
20	16QAM	1	1	22.86	22.76	22.84	24.3	0.5	
20	64QAM	1	1	21.31	21.36	21.28	22.8	2.0	
20	256QAM	1	1	19.78	19.91	19.87	20.8	4.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.38	23.41	23.41	24.8	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.32	23.43	23.40	24.8	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.37	23.49	23.52	24.8	0.0	

n7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2472	2477	2474			
50	PI2 BPSK	1	1	24.63	24.68	24.56			
50	PI2 BPSK	1	135	24.38	24.47	24.30	25.5	0.0	
50	PI2 BPSK	1	268	24.35	24.51	24.42			
50	PI2 BPSK	135	0	24.30	24.34	24.22	25.0	0.5	
50	PI2 BPSK	135	68	24.52	24.58	24.52	25.5	0.0	
50	PI2 BPSK	135	135	24.20	24.28	24.15	25.0	0.5	
50	PI2 BPSK	270	0	24.32	24.34	24.28			
50	QPSK	1	1	24.72	24.77	24.70			
50	QPSK	1	135	24.54	24.66	24.56	25.5	0.0	
50	QPSK	1	268	24.36	24.47	24.42			
50	QPSK	135	0	23.70	23.72	23.61	24.5	1.0	
50	QPSK	135	68	24.67	24.72	24.67	25.5	0.0	
50	QPSK	135	135	23.55	23.72	23.58	24.5	1.0	
50	QPSK	270	0	23.51	23.70	23.58			
50	16QAM	1	1	23.94	23.08	23.07	24.5	1.0	
50	64QAM	1	1	21.61	21.67	21.48	23.0	2.5	
50	256QAM	1	1	20.29	20.31	20.20	21.0	4.5	
Channel				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2490	2495	2490			
40	QPSK	1	1	24.67	24.65	24.56	25.5	0.0	
Channel				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2475	2475	2475			
30	QPSK	1	1	24.60	24.72	24.62	25.5	0.0	
Channel				505500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2472.5	2475	2477.5			
25	QPSK	1	1	24.62	24.60	24.57	25.5	0.0	
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2470	2475	2475			
20	QPSK	1	1	24.55	24.73	24.54	25.5	0.0	
Channel				501000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2477.5	2475	2472.5			
15	QPSK	1	1	24.57	24.63	24.60	25.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2495	2495	2495			
10	QPSK	1	1	24.65	24.67	24.67	25.5	0.0	
Channel				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.5	2495	2497.5			
5	QPSK	1	1	24.61	24.70	24.57	25.5	0.0	



n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	18.37	18.47	18.44			
50	PI2 BPSK	1	135	18.51	18.61	18.57	20.1	0.0	
50	PI2 BPSK	1	268	18.12	18.18	18.16			
50	PI2 BPSK	135	0	18.59	18.69	18.66	20.1	0.0	
50	PI2 BPSK	135	68	18.61	18.66	18.63	20.1	0.0	
50	PI2 BPSK	135	135	18.44	18.55	18.50			
50	PI2 BPSK	270	0	18.52	18.63	18.55	20.1	0.0	
50	QPSK	1	1	18.31	18.39	18.29			
50	QPSK	1	135	18.07	18.71	18.01	20.1	0.0	
50	QPSK	1	268	18.16	18.16	18.15			
50	QPSK	135	0	18.57	18.63	18.55	20.1	0.0	
50	QPSK	135	68	18.64	18.65	18.55	20.1	0.0	
50	QPSK	135	135	18.53	18.56	18.52	20.1	0.0	
50	QPSK	270	0	18.58	18.62	18.54			
50	16QAM	1	1	18.17	18.14	18.15	20.1	0.0	
50	16QAM	1	1	18.15	18.18	18.18	20.1	0.0	
50	256QAM	1	1	18.59	18.70	18.64	20.1	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2525	2535	2550			
40	QPSK	1	1	18.27	18.38	18.30	20.1	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2555			
30	QPSK	1	1	18.36	18.39	18.42	20.1	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.27	18.47	18.38	20.1	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
20	QPSK	1	1	18.31	18.34	18.37	20.1	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.29	18.35	18.34	20.1	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.35	18.40	18.30	20.1	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.22	18.33	18.37	20.1	0.0	

n7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	17.35	17.34	17.30			
50	PI2 BPSK	1	135	17.46	17.46	17.43	19.2	0.0	
50	PI2 BPSK	1	268	17.38	17.33	17.33			
50	PI2 BPSK	135	0	17.39	17.34	17.32	19.2	0.0	
50	PI2 BPSK	135	68	17.37	17.39	17.32	19.2	0.0	
50	PI2 BPSK	135	135	17.36	17.41	17.35			
50	PI2 BPSK	270	0	17.37	17.34	17.31	19.2	0.0	
50	QPSK	1	1	17.36	17.33	17.30			
50	QPSK	1	135	17.45	17.47	17.35	19.2	0.0	
50	QPSK	1	268	17.33	17.35	17.31			
50	QPSK	135	0	17.30	17.31	17.34	19.2	0.0	
50	QPSK	135	68	17.36	17.42	17.40	19.2	0.0	
50	QPSK	135	135	17.35	17.39	17.40	19.2	0.0	
50	QPSK	270	0	17.31	17.35	17.32			
50	16QAM	1	1	17.34	17.35	17.33	19.2	0.0	
50	16QAM	1	1	17.33	17.32	17.34	19.2	0.0	
50	256QAM	1	1	17.42	17.45	17.40	19.2	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2525	2535	2550			
40	QPSK	1	1	17.36	17.35	17.30	19.2	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2555			
30	QPSK	1	1	17.23	17.31	17.25	19.2	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	17.32	17.30	17.30	19.2	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
20	QPSK	1	1	17.32	17.30	17.33	19.2	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.23	17.31	17.30	19.2	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	17.31	17.35	17.30	19.2	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	17.36	17.30	17.35	19.2	0.0	

n7_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	23.32	23.44	23.38			
50	PI2 BPSK	1	135	23.15	23.25	23.20	24.7	0.0	
50	PI2 BPSK	1	268	23.30	23.37	23.35			
50	PI2 BPSK	135	0	22.24	22.66	22.57	24.2	0.5	
50	PI2 BPSK	135	68	23.45	23.49	23.34	24.7	0.0	
50	PI2 BPSK	135	135	22.65	22.73	22.60			
50	PI2 BPSK	270	0	22.64	22.77	22.80	24.2	0.5	
50	QPSK	1	1	23.35	23.56	23.42			
50	QPSK	1	135	23.23	23.40	23.26	24.7	0.0	
50	QPSK	1	268	23.24	23.31	23.19			
50	QPSK	135	0	22.47	22.54	22.43	23.7	1.0	
50	QPSK	135	68	23.31	23.48	23.40	24.7	0.0	
50	QPSK	135	135	22.50	22.58	22.51	23.7	1.0	
50	QPSK	270	0	22.52	22.65	22.49			
50	16QAM	1	1	21.78	21.82	21.78	23.7	1.0	
50	16QAM	1	1	20.23	20.37	20.33	22.2	2.5	
50	256QAM	1	1	18.89	19.02	18.99	20.2	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2525	2535	2550			
40	QPSK	1	1	23.20	23.44	23.40	24.7	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2555			
30	QPSK	1	1	23.28	23.49	23.25	24.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.24	23.53	23.30	24.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
20	QPSK	1	1	23.28	23.47	23.27	24.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.30	23.39	23.40	24.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.29	23.38	23.26	24.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.31	23.51	23.24	24.7	0.0	



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1769			
40	PI2 BPSK	1	1	2371	2382	2376			
40	PI2 BPSK	1	108	2433	2437	2422	25.5	0.0	
40	PI2 BPSK	1	214	2376	2385	2379			
40	PI2 BPSK	108	0	2377	2392	2388	25.0	0.5	
40	PI2 BPSK	108	54	2431	2440	2427	25.5	0.9	
40	PI2 BPSK	108	108	2383	2397	2390			
40	PI2 BPSK	216	0	2380	2396	2388	25.0	0.5	
40	QPSK	1	1	2368	2376	2370			
40	QPSK	1	108	2421	2442	2420	25.5	0.0	
40	QPSK	1	214	2363	2374	2368			
40	QPSK	108	0	2328	2342	2325	24.5	1.0	
40	QPSK	108	54	2421	2436	2426	25.5	0.0	
40	QPSK	108	108	2342	2346	2334	24.5	1.0	
40	QPSK	216	0	2336	2348	2335			
40	16QAM	1	1	2283	2287	2284	24.5	1.0	
40	16QAM	1	1	2101	2110	2103	23.0	2.5	
40	256QAM	1	1	1958	1967	1951	21.0	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
30	QPSK	1	1	2409	2438	2423	25.5	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	2406	2439	2412	25.5	0.0	
Channel				343000	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	2411	2431	2413	25.5	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	2405	2438	2426	25.5	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	2419	2430	2414	25.5	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1769			
40	PI2 BPSK	1	1	1600	1600	1602			
40	PI2 BPSK	1	108	1650	1652	1650	17.6	0.0	
40	PI2 BPSK	1	214	1606	1613	1609			
40	PI2 BPSK	108	0	1649	1651	1651	17.6	0.0	
40	PI2 BPSK	108	54	1655	1656	1648	17.6	0.0	
40	PI2 BPSK	108	108	1637	1638	1632	17.6	0.0	
40	PI2 BPSK	216	0	1600	1608	1600			
40	QPSK	1	1	1604	1601	1603			
40	QPSK	1	108	1646	1639	1632	17.6	0.0	
40	QPSK	1	214	1602	1613	1607			
40	QPSK	108	0	1646	1654	1652	17.6	0.0	
40	QPSK	108	54	1642	1636	1636	17.6	0.0	
40	QPSK	108	108	1661	1674	1665	17.6	0.0	
40	QPSK	216	0	1650	1660	1655			
40	16QAM	1	1	1601	1601	1617	17.6	0.0	
40	16QAM	1	1	1614	1600	1608	17.6	0.0	
40	256QAM	1	1	1633	1633	1629	17.6	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	1606	1602	1607	17.6	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	1601	1601	1605	17.6	0.0	
Channel				343000	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	1607	1601	1604	17.6	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	1588	1589	1597	17.6	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	1593	1588	1594	17.6	0.0	



n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	20.10	20.13	20.06			
40	PI2 BPSK	1	108	20.72	20.74	20.71	21.6	0.0	
40	PI2 BPSK	1	214	20.26	20.27	20.24			
40	PI2 BPSK	108	0	20.71	20.77	20.78	21.6	0.0	
40	PI2 BPSK	108	54	20.77	20.76	20.77	21.6	0.0	
40	PI2 BPSK	108	108	20.76	20.83	20.76	21.6	0.0	
40	PI2 BPSK	216	0	20.83	20.84	20.84			
40	QPSK	1	1	20.03	20.05	20.02			
40	QPSK	1	108	20.53	20.55	20.51	21.6	0.0	
40	QPSK	1	214	20.16	20.27	20.27			
40	QPSK	108	0	20.67	20.69	20.67	21.6	0.0	
40	QPSK	108	54	20.74	20.83	20.81	21.6	0.0	
40	QPSK	108	108	20.76	20.82	20.80	21.6	0.0	
40	QPSK	216	0	20.81	20.82	20.80			
40	16QAM	1	1	19.81	19.86	19.85	21.6	0.0	
40	16QAM	1	1	19.77	19.83	19.80	21.6	0.0	
40	256QAM	1	1	19.41	19.40	19.32	20.6	1.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1765			
30	QPSK	1	1	20.10	20.11	19.97	21.6	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.06	20.00	20.03	21.6	0.0	
Channel				343000	349000	345000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.99	20.05	19.93	21.6	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.06	20.07	19.93	21.6	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.95	20.04	19.95	21.6	0.0	

n66_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	22.41	22.53	22.49			
40	PI2 BPSK	1	108	23.05	23.11	22.95	23.7	0.0	
40	PI2 BPSK	1	214	22.35	22.52	22.44			
40	PI2 BPSK	108	0	22.52	22.85	22.98	23.2	0.5	
40	PI2 BPSK	108	54	22.91	23.03	22.93	23.7	0.0	
40	PI2 BPSK	108	108	22.56	22.73	22.81	23.2	0.5	
40	PI2 BPSK	216	0	22.68	22.76	22.61			
40	QPSK	1	1	22.29	22.43	22.39			
40	QPSK	1	108	22.56	23.15	23.11	23.7	0.0	
40	QPSK	1	214	22.46	22.53	22.44			
40	QPSK	108	0	22.02	22.15	22.04	22.7	1.0	
40	QPSK	108	54	22.34	23.12	23.16	23.7	0.0	
40	QPSK	108	108	22.12	22.18	22.05	22.7	1.0	
40	QPSK	216	0	22.12	22.20	22.10			
40	16QAM	1	1	21.14	21.27	21.16	22.7	1.0	
40	16QAM	1	1	19.62	19.71	19.54	21.2	2.5	
40	256QAM	1	1	18.14	18.30	18.16	19.2	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1765			
30	QPSK	1	1	22.90	22.97	23.01	23.7	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.84	22.99	23.03	23.7	0.0	
Channel				343000	349000	345000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.87	23.09	22.98	23.7	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.86	23.02	22.95	23.7	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.85	23.07	22.93	23.7	0.0	



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				519004	519000	519996			
				2590.02	2595	2599.98			
Frequency (MHz)									
40	Pl2 BPSK	1	1	24.39	24.35	24.17			
40	Pl2 BPSK	1	53	24.89	24.83	24.76	25.5	0.0	
40	Pl2 BPSK	1	104	24.22	24.37	24.25			
40	Pl2 BPSK	50	0	24.03	24.14	24.11	25.0	0.5	
40	Pl2 BPSK	50	28	24.77	24.84	24.69	25.5	0.0	
40	Pl2 BPSK	50	56	24.00	24.16	24.01	25.0	0.5	
40	Pl2 BPSK	100	0	24.18	24.26	24.17			
40	QPSK	1	1	24.17	24.30	24.23			
40	QPSK	1	53	24.75	24.85	24.76	25.5	0.0	
40	QPSK	1	104	24.41	24.51	24.48			
40	QPSK	50	0	23.86	23.89	23.59			
40	QPSK	50	28	23.75	24.82	23.87	25.5	0.0	
40	QPSK	50	56	23.80	23.88	23.52			
40	QPSK	100	0	23.57	23.72	23.54	24.5	1.0	
40	16QAM	1	1	22.96	23.11	23.03	24.5	1.0	
40	16QAM	1	1	21.44	21.61	21.58	23.0	2.5	
40	256QAM	1	1	20.20	20.24	20.12	21.0	4.5	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	24.59	24.75	24.53	25.5	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	24.70	24.79	24.63	25.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519996			
				2590.02	2595	2599.98			
Frequency (MHz)									
40	Pl2 BPSK	1	1	18.04	18.05	18.01			
40	Pl2 BPSK	1	53	18.50	18.49	18.48	19.9	0.0	
40	Pl2 BPSK	1	104	18.01	18.06	18.01			
40	Pl2 BPSK	50	0	18.44	18.43	18.42	19.9	0.0	
40	Pl2 BPSK	50	28	18.45	18.46	18.41	19.9	0.0	
40	Pl2 BPSK	50	56	18.35	18.35	18.29	19.9	0.0	
40	Pl2 BPSK	100	0	18.40	18.45	18.40			
40	QPSK	1	1	18.04	18.09	18.04			
40	QPSK	1	53	18.54	18.50	18.48	19.9	0.0	
40	QPSK	1	104	18.12	18.00	18.05			
40	QPSK	50	0	18.36	18.35	18.35			
40	QPSK	50	28	18.42	18.49	18.44	19.9	0.0	
40	QPSK	50	56	18.36	18.36	18.38			
40	QPSK	100	0	18.34	18.39	18.37	19.9	0.0	
40	16QAM	1	1	18.04	18.00	18.01	19.9	0.0	
40	16QAM	1	1	18.02	18.01	18.07	19.9	0.0	
40	256QAM	1	1	18.37	18.39	18.31	19.5	0.0	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	18.03	18.01	18.10	19.9	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	18.02	18.03	18.06	19.9	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519998			
				2590.02	2595	2599.98			
Frequency (MHz)									
40	Pl2 BPSK	1	1	17.78	17.70	17.79			
40	Pl2 BPSK	1	53	18.26	18.19	18.10	19.7	0.0	
40	Pl2 BPSK	1	104	17.93	17.82	17.79			
40	Pl2 BPSK	50	0	17.95	18.06	17.96	19.7	0.0	
40	Pl2 BPSK	50	28	18.23	18.18	18.09	19.7	0.0	
40	Pl2 BPSK	50	56	18.12	18.23	18.21	19.7	0.0	
40	Pl2 BPSK	100	0	18.18	18.15	18.11			
40	QPSK	1	1	17.78	17.76	17.78			
40	QPSK	1	53	18.25	18.27	18.17	19.7	0.0	
40	QPSK	1	104	17.79	17.83	17.81			
40	QPSK	50	0	17.99	18.02	18.05			
40	QPSK	50	28	18.15	18.24	18.15	19.7	0.0	
40	QPSK	50	56	18.12	18.16	18.14			
40	QPSK	100	0	18.04	18.21	17.98	19.7	0.0	
40	16QAM	1	1	17.74	17.70	17.70	18.7	0.0	
40	16QAM	1	1	17.73	17.75	17.78	19.7	0.0	
40	256QAM	1	1	18.02	18.04	17.98	19.7	0.0	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	17.79	17.87	17.83	19.7	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	17.78	17.79	17.88	19.7	0.0	



n38_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				5190.02	5190.00	5199.98			
40	PI2 BPSK	1	1	23.01	23.06	23.93			
40	PI2 BPSK	1	53	23.52	23.52	23.54	24.6	0.0	
40	PI2 BPSK	1	104	23.03	23.18	23.11			
40	PI2 BPSK	50	0	22.67	22.83	22.72	24.1	0.5	
40	PI2 BPSK	50	26	23.36	23.51	23.43	24.6	0.0	
40	PI2 BPSK	50	56	22.78	22.93	22.77			
40	PI2 BPSK	100	0	22.83	22.96	22.87	24.1	0.5	
40	QPSK	1	1	22.92	22.95	22.87			
40	QPSK	1	53	23.47	23.55	23.54	24.6	0.0	
40	QPSK	1	104	22.99	23.08	22.92			
40	QPSK	50	0	22.77	22.86	22.76			
40	QPSK	50	26	23.47	23.51	23.45	24.6	0.0	
40	QPSK	50	56	22.35	22.41	22.24			
40	QPSK	100	0	22.34	22.43	22.33	23.6	1.0	
40	16QAM	1	1	21.74	21.82	21.71	23.6	1.0	
40	64QAM	1	1	20.17	20.34	20.31	22.1	2.5	
40	256QAM	1	1	18.86	18.92	18.90	20.1	4.5	
Channel									
Frequency (MHz)				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.42	23.36	23.43	24.6	0.0	
Channel									
Frequency (MHz)				5160.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.36	23.43	23.41	24.6	0.0	

n41_FCC_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2566.01	2592.99	2540			
100	PI2 BPSK	1	1	23.64	23.68	23.59			
100	PI2 BPSK	1	137	24.38	24.72	24.65	25.5	0.0	
100	PI2 BPSK	1	271	23.66	23.69	23.67			
100	PI2 BPSK	135	0	23.92	24.02	23.91	25.0	0.5	
100	PI2 BPSK	135	69	24.66	24.76	24.65	25.5	0.0	
100	PI2 BPSK	135	138	23.81	23.92	23.87			
100	PI2 BPSK	270	0	23.82	23.89	23.88	25.0	0.5	
100	QPSK	1	1	23.58	23.62	23.58			
100	QPSK	1	137	24.67	24.87	24.71	25.5	0.0	
100	QPSK	1	271	23.67	23.72	23.60			
100	QPSK	135	0	23.53	23.62	23.61			
100	QPSK	135	69	24.55	24.78	24.64	25.5	0.0	
100	QPSK	135	138	23.54	23.58	23.56			
100	QPSK	270	0	23.40	23.56	23.40	24.5	1.0	
100	16QAM	1	1	22.52	22.61	22.58	24.5	1.0	
100	64QAM	1	1	21.06	21.17	21.15	23.0	2.5	
100	256QAM	1	1	19.44	19.56	19.49	21.0	4.5	
Channel									
Frequency (MHz)				508200	518998	529996	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	24.43	24.79	24.61	25.5	0.0	
Channel									
Frequency (MHz)				507204	518998	529996	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.35	24.74	24.63	25.5	0.0	
Channel									
Frequency (MHz)				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	24.53	24.79	24.67	25.5	0.0	
Channel									
Frequency (MHz)				504204	518998	532996	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	24.43	24.78	24.66	25.5	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	24.13	24.29	24.10	25.5	0.0	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	24.56	24.80	24.67	25.5	0.0	
Channel									
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.47	24.63	24.66	25.5	0.0	

n41_FCC_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2566.01	2592.99	2540			
100	PI2 BPSK	1	1	18.00	18.02	18.09			
100	PI2 BPSK	1	137	18.63	18.61	18.49	19.9	0.0	
100	PI2 BPSK	1	271	18.04	17.92	17.92			
100	PI2 BPSK	135	0	18.44	18.49	18.38	19.9	0.0	
100	PI2 BPSK	135	69	18.57	18.68	18.69	19.9	0.0	
100	PI2 BPSK	135	138	18.34	18.39	18.33			
100	PI2 BPSK	270	0	18.33	18.40	18.38	19.9	0.0	
100	QPSK	1	1	17.97	18.01	18.03			
100	QPSK	1	137	18.62	18.70	18.60	19.9	0.0	
100	QPSK	1	271	18.05	18.07	17.96			
100	QPSK	135	0	18.46	18.47	18.40			
100	QPSK	135	69	18.55	18.68	18.64	19.9	0.0	
100	QPSK	135	138	18.28	18.41	18.31			
100	QPSK	270	0	18.31	18.64	18.43	19.9	0.0	
100	16QAM	1	1	17.89	18.02	18.00	19.9	0.0	
100	64QAM	1	1	18.05	18.03	18.08	19.9	0.0	
100	256QAM	1	1	18.25	18.20	18.27	19.9	0.0	
Channel									
Frequency (MHz)				508200	518998	529996	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	18.06	18.02	18.00	19.9	0.0	
Channel									
Frequency (MHz)				507204	518998	529996	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.91	17.92	18.03	19.9	0.0	
Channel									
Frequency (MHz)				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.96	18.08	18.01	19.9	0.0	
Channel									
Frequency (MHz)				504204	518998	532996	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	17.95	17.99	18.10	19.9	0.0	
Channel									
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	17.83	18.02	17.98	19.9	0.0	
Channel									
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.95	18.00	17.97	19.9	0.0	
Channel									
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.92	17.98	18.09	19.9	0.0	



n41_FCC_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
				2566.01	2569.99	2540				
Frequency (MHz)										
100	PI2 BPSK	1	1	15.21	15.27	15.22				
100	PI2 BPSK	1	137	15.81	15.78	15.72	17.2	0.0		
100	PI2 BPSK	1	271	15.41	15.43	15.42				
100	PI2 BPSK	135	0	15.65	15.85	15.58	17.2	0.0		
100	PI2 BPSK	135	69	15.71	15.84	15.85	17.2	0.0		
100	PI2 BPSK	135	138	15.70	15.80	15.81				
100	PI2 BPSK	270	0	15.68	15.71	15.71	17.2	0.0		
100	QPSK	1	1	15.25	15.28	15.23				
100	QPSK	1	137	15.75	15.88	15.75	17.2	0.0		
100	QPSK	1	271	15.29	15.42	15.34				
100	QPSK	135	0	15.67	15.88	15.58				
100	QPSK	135	69	15.75	15.84	15.71	17.2	0.0		
100	QPSK	135	138	15.67	15.76	15.64				
100	QPSK	270	0	15.62	15.81	15.59	17.2	0.0		
100	16QAM	1	1	15.26	15.26	15.29	17.2	0.0		
100	64QAM	1	1	15.21	15.27	15.25	17.2	0.0		
100	256QAM	1	1	15.57	15.61	15.54	17.2	0.0		
Channel				509200	518998	528996	Tune-up limit (dB)	MPR		
Frequency (MHz)				2541	2592.99	2644.98				
50	QPSK	1	1	15.33	15.35	15.41	17.2	0.0		
Channel				507204	518998	529998	Tune-up limit (dB)	MPR		
Frequency (MHz)				2538.02	2592.99	2648.99				
80	QPSK	1	1	15.33	15.34	15.41	17.2	0.0		
Channel				505200	518998	531998	Tune-up limit (dB)	MPR		
Frequency (MHz)				2526	2592.99	2658.98				
60	QPSK	1	1	15.42	15.48	15.37	17.2	0.0		
Channel				503202	518998	534000	Tune-up limit (dB)	MPR		
Frequency (MHz)				2516.01	2592.99	2670				
40	QPSK	1	1	15.37	15.41	15.34	17.2	0.0		
Channel				502200	518998	534996	Tune-up limit (dB)	MPR		
Frequency (MHz)				2511	2592.99	2674.98				
30	QPSK	1	1	15.48	15.41	15.30	17.2	0.0		
Channel				501204	518998	535998	Tune-up limit (dB)	MPR		
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	15.41	15.42	15.38	17.2	0.0		

n41_FCC_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
				2566.01	2592.99	2540				
Frequency (MHz)										
100	PI2 BPSK	1	1	22.67	22.65	22.63				
100	PI2 BPSK	1	137	23.42	23.45	23.42	24.6	0.0		
100	PI2 BPSK	1	271	22.66	22.78	22.66				
100	PI2 BPSK	135	0	22.67	22.73	22.66	24.1	0.5		
100	PI2 BPSK	135	69	23.38	23.48	23.33	24.6	0.0		
100	PI2 BPSK	135	138	22.59	22.71	22.68				
100	PI2 BPSK	270	0	22.59	22.75	22.61	24.1	0.5		
100	QPSK	1	1	22.62	22.61	22.66				
100	QPSK	1	137	23.37	23.57	23.32	24.6	0.0		
100	QPSK	1	271	22.61	22.72	22.61				
100	QPSK	135	0	22.32	22.38	22.29				
100	QPSK	135	69	23.25	23.53	23.35	24.6	0.0		
100	QPSK	135	138	22.33	22.48	22.43				
100	QPSK	270	0	22.23	22.30	22.16	23.6	1.0		
100	16QAM	1	1	21.69	21.62	21.61	23.6	1.0		
100	64QAM	1	1	20.77	20.15	20.70	22.1	2.5		
100	256QAM	1	1	18.25	18.40	18.29	20.1	4.5		
Channel				508200	518998	528996	Tune-up limit (dB)	MPR		
Frequency (MHz)				2541	2592.99	2644.98				
50	QPSK	1	1	23.24	23.52	23.19	24.6	0.0		
Channel				507204	518998	529998	Tune-up limit (dB)	MPR		
Frequency (MHz)				2538.02	2592.99	2648.99				
80	QPSK	1	1	23.17	23.54	23.20	24.6	0.0		
Channel				505200	518998	531998	Tune-up limit (dB)	MPR		
Frequency (MHz)				2526	2592.99	2658.98				
60	QPSK	1	1	23.23	23.53	23.25	24.6	0.0		
Channel				503202	518998	534000	Tune-up limit (dB)	MPR		
Frequency (MHz)				2516.01	2592.99	2670				
40	QPSK	1	1	23.14	23.53	23.25	24.6	0.0		
Channel				502200	518998	534996	Tune-up limit (dB)	MPR		
Frequency (MHz)				2511	2592.99	2674.98				
30	QPSK	1	1	23.23	23.50	23.22	24.6	0.0		
Channel				501204	518998	535998	Tune-up limit (dB)	MPR		
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	23.23	23.45	23.23	24.6	0.0		

Part27Q_n77_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
				3499.98						
Frequency (MHz)										
100	PI2 BPSK	1	1		14.68					
100	PI2 BPSK	1	137		15.24		15.9	0.0		
100	PI2 BPSK	1	271		14.20					
100	PI2 BPSK	135	0		15.17		15.9	0.0		
100	PI2 BPSK	135	69		15.32		15.9	0.0		
100	PI2 BPSK	135	138		15.18		15.9	0.0		
100	PI2 BPSK	270	0		15.19		15.9	0.0		
100	QPSK	1	1		14.65					
100	QPSK	1	137		15.37		15.9	0.0		
100	QPSK	1	271		14.53					
100	QPSK	135	0		15.19					
100	QPSK	135	69		15.35		15.9	0.0		
100	QPSK	135	138		15.17					
100	QPSK	270	0		15.33		15.9	0.0		
100	16QAM	1	1		14.28		15.9	0.0		
100	64QAM	1	1		14.49		15.9	0.0		
100	256QAM	1	1		15.02		15.9	0.0		
Channel				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3499	3499.98	3500.98				
50	QPSK	1	1	14.36	14.43	14.27	15.9	0.0		
Channel				632668	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3490.02	3499.98	3510				
80	QPSK	1	1	14.10	14.14	14.14	15.9	0.0		
Channel				632000	633332	634668	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480	3499.98	3519.98				
60	QPSK	1	1	14.25	14.24	14.18	15.9	0.0		
Channel				631498	633332	635000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.02	3499.98	3529.98				
50	QPSK	1	1	14.27	14.22	14.18	15.9	0.0		
Channel				631334	633332	635332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.01	3499.98	3539.98				
40	QPSK	1	1	14.27	14.22	14.18	15.9	0.0		
Channel				630668	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1	14.64	14.61	14.39	15.9	0.0		



Part27Q_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.11			18.9	0.0		
100	PI2 BPSK	1	137	17.81						
100	PI2 BPSK	1	271	17.84						
100	PI2 BPSK	135	0	17.78			18.9	0.0		
100	PI2 BPSK	135	69	17.85			18.9	0.0		
100	PI2 BPSK	135	138	17.68			18.9	0.0		
100	PI2 BPSK	270	0	17.74						
100	QPSK	1	1	17.08						
100	QPSK	1	137	17.91			18.9	0.0		
100	QPSK	1	271	18.98						
100	QPSK	135	0	17.79						
100	QPSK	135	69	17.88			18.9	0.0		
100	QPSK	135	138	17.68						
100	QPSK	270	0	17.74			18.9	0.0		
100	16QAM	1	1	17.38			18.9	0.0		
100	64QAM	1	1	17.29			18.9	0.0		
100	256QAM	1	1	17.20			18.9	0.0		
Channel										
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.20	17.15	17.15	18.9	0.0		
Channel										
				630688	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	17.41	17.23	17.23	18.9	0.0		
Channel										
				630500	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	17.35	17.21	17.01	18.9	0.0		
Channel										
				631088	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.37	17.33	17.03	18.9	0.0		
Channel										
				631334	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	17.22	17.18	17.07	18.9	0.0		
Channel										
				630688	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	17.43	17.19	17.21	18.9	0.0		

Part27O_n77_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	14.29	14.29	14.29	15.9	0.0		
100	PI2 BPSK	1	137	14.32	15.04	14.92				
100	PI2 BPSK	1	271	14.26	14.23	14.15				
100	PI2 BPSK	135	0	14.97	15.02	15.04	15.9	0.0		
100	PI2 BPSK	135	69	15.11	15.05	14.92	15.9	0.0		
100	PI2 BPSK	135	138	14.85	14.93	14.93	15.9	0.0		
100	PI2 BPSK	270	0	14.93	14.94	14.81				
100	QPSK	1	1	14.34	14.40	14.46				
100	QPSK	1	137	15.07	15.16	14.93	15.9	0.0		
100	QPSK	1	271	14.37	14.38	14.42				
100	QPSK	135	0	14.96	15.01	14.88				
100	QPSK	135	69	15.05	15.14	14.91	15.9	0.0		
100	QPSK	135	138	14.86	14.95	14.84				
100	QPSK	270	0	14.87	15.12	14.96	15.9	0.0		
100	16QAM	1	1	14.93	14.16	14.14	15.9	0.0		
100	64QAM	1	1	14.20	14.23	14.20	15.9	0.0		
100	256QAM	1	1	14.77	14.75	14.81	15.9	0.0		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	14.18	14.00	14.09	15.9	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	14.14	14.21	14.15	15.9	0.0		
Channel										
				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	14.27	14.41	14.46	15.9	0.0		
Channel										
				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	14.48	14.48	14.50	15.9	0.0		
Channel										
				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	14.13	14.20	14.17	15.9	0.0		
Channel										
				647334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	14.29	14.64	14.54	15.9	0.0		

Part27O_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.37	17.42	17.45	18.9	0.0		
100	PI2 BPSK	1	137	18.09	18.09	18.14				
100	PI2 BPSK	1	271	17.19	17.29	17.28				
100	PI2 BPSK	135	0	18.04	18.05	18.05	18.9	0.0		
100	PI2 BPSK	135	69	18.17	18.19	18.13	18.9	0.0		
100	PI2 BPSK	135	138	17.98	18.00	17.93	18.9	0.0		
100	PI2 BPSK	270	0	18.07	18.01	17.97				
100	QPSK	1	1	17.37	17.35	17.31				
100	QPSK	1	137	18.05	18.23	18.01	18.9	0.0		
100	QPSK	1	271	17.33	17.29	17.28				
100	QPSK	135	0	18.03	18.01	17.95				
100	QPSK	135	69	18.05	18.20	18.01	18.9	0.0		
100	QPSK	135	138	17.91	17.96	17.98				
100	QPSK	270	0	18.05	18.14	18.00	18.9	0.0		
100	16QAM	1	1	17.60	17.61	17.51	18.9	0.0		
100	64QAM	1	1	17.42	17.53	17.47	18.9	0.0		
100	256QAM	1	1	17.47	17.52	17.56	18.9	0.0		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.06	17.19	17.20	18.9	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	17.12	17.20	17.12	18.9	0.0		
Channel										
				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	17.38	17.38	17.44	18.9	0.0		
Channel										
				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.55	17.58	17.44	18.9	0.0		
Channel										
				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	17.31	17.35	17.12	18.9	0.0		
Channel										
				647334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	17.58	17.62	17.62	18.9	0.0		



Part27Q_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	14.73						
100	PI2 BPSK	1	137	15.27			15.9	0.0		
100	PI2 BPSK	1	271	14.28						
100	PI2 BPSK	135	0	15.28			15.9	0.0		
100	PI2 BPSK	135	69	15.32			15.9	0.0		
100	PI2 BPSK	135	138	15.13			15.9	0.0		
100	PI2 BPSK	270	0	15.14						
100	QPSK	1	1	14.70						
100	QPSK	1	137	15.34			15.9	0.0		
100	QPSK	1	271	14.53						
100	QPSK	135	0	15.19						
100	QPSK	135	69	15.31			15.9	0.0		
100	QPSK	135	138	15.12						
100	QPSK	270	0	15.21			15.9	0.0		
100	16QAM	1	1	14.80			15.9	0.0		
100	64QAM	1	1	14.84			15.9	0.0		
100	256QAM	1	1	15.16			15.9	0.0		
Channel				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3495	349986	350481				
50	QPSK	1	1	14.62	14.53	14.51	15.9	0.0		
Channel				630688	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3490.02	3499.98	3510				
80	QPSK	1	1	14.72	14.71	14.51	15.9	0.0		
Channel				630500	633332	634666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480	3499.98	3519.99				
60	QPSK	1	1	14.77	14.93	14.60	15.9	0.0		
Channel				631088	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3475.02	3499.98	3505				
50	QPSK	1	1	15.04	15.02	14.82	15.9	0.0		
Channel				631334	633332	636332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.01	3499.98	3529.98				
40	QPSK	1	1	14.84	14.80	14.72	15.9	0.0		
Channel				631000	633332	636666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3465	3499.98	3534.99				
30	QPSK	1	1	14.80	15.01	14.99	15.9	0.0		
Channel				630568	633332	637000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1	15.17	15.13	15.02	15.9	0.0		

Part27Q_n78(HPU)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.14						
100	PI2 BPSK	1	137	17.67			18.9	0.0		
100	PI2 BPSK	1	271	16.86						
100	PI2 BPSK	135	0	17.80			18.9	0.0		
100	PI2 BPSK	135	69	17.87			18.9	0.0		
100	PI2 BPSK	135	138	17.69			18.9	0.0		
100	PI2 BPSK	270	0	17.72						
100	QPSK	1	1	17.12						
100	QPSK	1	137	17.90			18.9	0.0		
100	QPSK	1	271	16.53						
100	QPSK	135	0	17.78						
100	QPSK	135	69	17.88			18.9	0.0		
100	QPSK	135	138	17.73						
100	QPSK	270	0	17.85			18.9	0.0		
100	16QAM	1	1	17.37			18.9	0.0		
100	64QAM	1	1	17.29			18.9	0.0		
100	256QAM	1	1	17.25			18.9	0.0		
Channel				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3495	349986	350481				
50	QPSK	1	1	17.61	17.57	17.56	18.9	0.0		
Channel				632688	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480.02	3499.98	3510				
80	QPSK	1	1	17.22	17.72	17.72	18.9	0.0		
Channel				630500	633332	634666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480	3499.98	3519.99				
60	QPSK	1	1	17.51	17.55	17.51	18.9	0.0		
Channel				631088	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3475.02	3499.98	3505				
50	QPSK	1	1	17.48	17.56	17.48	18.9	0.0		
Channel				631334	633332	636332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.01	3499.98	3529.98				
40	QPSK	1	1	17.63	17.69	17.62	18.9	0.0		
Channel				631000	633332	636666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3465	3499.98	3534.99				
30	QPSK	1	1	17.76	17.66	17.65	18.9	0.0		
Channel				630568	633332	637000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1	17.76	17.65	17.68	18.9	0.0		

Part27O_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	14.14						
100	PI2 BPSK	1	137	14.91			15.9	0.0		
100	PI2 BPSK	1	271	14.28						
100	PI2 BPSK	135	0	14.71			15.9	0.0		
100	PI2 BPSK	135	69	14.62			15.9	0.0		
100	PI2 BPSK	135	138	14.88			15.9	0.0		
100	PI2 BPSK	270	0	14.73						
100	QPSK	1	1	14.15						
100	QPSK	1	137	14.98			15.9	0.0		
100	QPSK	1	271	14.22						
100	QPSK	135	0	14.65						
100	QPSK	135	69	14.55			15.9	0.0		
100	QPSK	135	138	14.80						
100	QPSK	270	0	14.87			15.9	0.0		
100	16QAM	1	1	14.04			15.9	0.0		
100	64QAM	1	1	14.07			15.9	0.0		
100	256QAM	1	1	14.49			15.9	0.0		
Channel				649968	650000	650332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3743.02	3750	3754.98				
50	QPSK	1	1	14.04	14.07	14.30	15.9	0.0		
Channel				649334	650000	650666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3740.01	3750	3759.99				
80	QPSK	1	1	14.18	14.18	14.10	15.9	0.0		
Channel				648668	650000	651332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3730.02	3750	3769.98				
60	QPSK	1	1	14.09	14.33	14.14	15.9	0.0		
Channel				648334	650000	651998	Tune-up limit (dB)	MPR		
Frequency (MHz)				3725.01	3750	3774.99				
50	QPSK	1	1	14.28	14.35	14.50	15.9	0.0		
Channel				648000	650000	652000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	14.17	14.31	14.40	15.9	0.0		
Channel				647668	650000	652332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3715.02	3750	3784.98				
30	QPSK	1	1	14.62	14.51	14.31	15.9	0.0		
Channel				647334	650000	652666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3710.01	3750	3789.99				
20	QPSK	1	1	14.45	14.60	14.50	15.9	0.0		



Part270_n78(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.14	17.14					
100	PI2 BPSK	1	137	17.99	17.99		18.9	0.0		
100	PI2 BPSK	1	271	17.45	17.45					
100	PI2 BPSK	135	0	17.85	17.85		18.9	0.0		
100	PI2 BPSK	135	69	18.00	18.00		18.9	0.0		
100	PI2 BPSK	135	138	18.05	18.05		18.9	0.0		
100	PI2 BPSK	270	0	17.85	17.85					
100	QPSK	1	1	17.00	17.00					
100	QPSK	1	137	18.07	18.07		18.9	0.0		
100	QPSK	1	271	17.31	17.31					
100	QPSK	135	0	17.78	17.78					
100	QPSK	135	69	18.05	18.05		18.9	0.0		
100	QPSK	135	138	18.01	18.01					
100	QPSK	270	0	17.85	17.85		18.9	0.0		
100	16QAM	1	1	17.22	17.22		18.9	0.0		
100	64QAM	1	1	17.13	17.13		18.9	0.0		
100	256QAM	1	1	17.08	17.08		18.9	0.0		
Channel										
				649898	650000	650332	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	17.07	17.06	17.23	18.9	0.0		
Channel										
				649334	650000	650066	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
80	QPSK	1	1	17.02	17.00	17.21	18.9	0.0		
Channel										
				649666	650000	651332	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
60	QPSK	1	1	17.15	17.14	17.08	18.9	0.0		
Channel										
				649334	650000	651666	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	17.35	17.51	17.59	18.9	0.0		
Channel										
				648000	650000	652000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	17.42	17.50	17.60	18.9	0.0		
Channel										
				647666	650000	652332	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
30	QPSK	1	1	17.41	17.34	17.26	18.9	0.0		
Channel										
				647334	650000	652666	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	17.49	17.60	17.36	18.9	0.0		

Part27Q_n77_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.28	18.28					
100	PI2 BPSK	1	137	18.82	18.82		19.8	0.0		
100	PI2 BPSK	1	271	18.06	18.06					
100	PI2 BPSK	135	0	18.78	18.78		19.8	0.0		
100	PI2 BPSK	135	69	18.93	18.93		19.8	0.0		
100	PI2 BPSK	135	138	18.68	18.68		19.8	0.0		
100	PI2 BPSK	270	0	18.77	18.77					
100	QPSK	1	1	18.26	18.26					
100	QPSK	1	137	18.95	18.95		19.8	0.0		
100	QPSK	1	271	18.14	18.14					
100	QPSK	135	0	18.83	18.83					
100	QPSK	135	69	18.91	18.91		19.8	0.0		
100	QPSK	135	138	18.73	18.73					
100	QPSK	270	0	18.86	18.86		19.8	0.0		
100	16QAM	1	1	18.11	18.11		19.8	0.0		
100	64QAM	1	1	18.14	18.14		19.8	0.0		
100	256QAM	1	1	18.17	18.17		19.8	0.0		
Channel										
				633000	633332	633666	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	17.96	18.01	17.89	19.8	0.0		
Channel										
				632668	633332	634000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
80	QPSK	1	1	17.85	18.20	18.18	19.8	0.0		
Channel										
				632000	633332	634666	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
60	QPSK	1	1	18.51	18.44	18.33	19.8	0.0		
Channel										
				631668	633332	635000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	18.14	18.34	18.27	19.8	0.0		
Channel										
				631334	633332	635332	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	18.27	18.29	18.20	19.8	0.0		
Channel										
				630668	633332	636000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	18.51	18.67	18.49	19.8	0.0		

Part27Q_n77(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.06	21.06					
100	PI2 BPSK	1	137	21.82	21.82		22.8	0.0		
100	PI2 BPSK	1	271	20.83	20.83					
100	PI2 BPSK	135	0	21.72	21.72		22.8	0.0		
100	PI2 BPSK	135	69	21.78	21.78		22.8	0.0		
100	PI2 BPSK	135	138	21.66	21.66		22.8	0.0		
100	PI2 BPSK	270	0	21.84	21.84					
100	QPSK	1	1	20.98	20.98					
100	QPSK	1	137	21.87	21.87		22.8	0.0		
100	QPSK	1	271	20.84	20.84					
100	QPSK	135	0	21.73	21.73					
100	QPSK	135	69	21.85	21.85		22.8	0.0		
100	QPSK	135	138	21.83	21.83					
100	QPSK	270	0	21.81	21.81		22.8	0.0		
100	16QAM	1	1	21.29	21.29		22.8	0.0		
100	64QAM	1	1	21.13	21.13		22.8	0.0		
100	256QAM	1	1	20.10	20.10		21.8	1.0		
Channel										
				632000	633332	633666	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	20.96	20.94	20.82	22.8	0.0		
Channel										
				632668	633332	634000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
80	QPSK	1	1	21.23	21.10	21.08	22.8	0.0		
Channel										
				632000	633332	634666	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
60	QPSK	1	1	21.11	21.23	21.03	22.8	0.0		
Channel										
				631668	633332	635000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	21.16	21.23	21.41	22.8	0.0		
Channel										
				631334	633332	635332	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	21.15	21.10	20.98	22.8	0.0		
Channel										
				630668	633332	636000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	21.42	21.47	21.46	22.8	0.0		



Part270_n77_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.50	17.67	17.66			
100	PI2 BPSK	1	137	18.26	18.48	18.39	19.8	0.0	
100	PI2 BPSK	1	271	17.50	17.66	17.73			
100	PI2 BPSK	135	0	18.08	18.27	18.17	19.8	0.0	
100	PI2 BPSK	135	69	18.23	18.52	18.42	19.8	0.0	
100	PI2 BPSK	135	138	18.26	18.46	18.33			
100	PI2 BPSK	270	0	18.11	18.33	18.17	19.8	0.0	
100	QPSK	1	1	17.53	17.64	17.55			
100	QPSK	1	137	18.42	18.66	18.50	19.8	0.0	
100	QPSK	1	271	17.68	17.89	17.71			
100	QPSK	135	0	17.99	18.24	18.15			
100	QPSK	135	69	18.45	18.63	18.55	19.8	0.0	
100	QPSK	135	138	18.14	18.42	18.26			
100	QPSK	270	0	18.36	18.57	18.39	19.8	0.0	
100	16QAM	1	1	17.51	17.57	17.55	19.8	0.0	
100	64QAM	1	1	17.51	17.53	17.52	19.8	0.0	
100	256QAM	1	1	17.82	18.03	17.87	19.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.61	17.56	17.62	19.8	0.0	
Channel									
Frequency (MHz)									
649334	QPSK	1	1	649334	650000	650000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.61	17.71	17.60	19.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.66	17.71	17.73	19.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.07	18.11	18.10	19.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.84	17.85	17.80	19.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.77	17.86	17.87	19.8	0.0	

Part270_n77(HPUe)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.51	20.53	20.53			
100	PI2 BPSK	1	137	21.20	21.42	21.32	22.8	0.0	
100	PI2 BPSK	1	271	20.50	20.50	20.51			
100	PI2 BPSK	135	0	20.98	21.18	20.98	22.8	0.0	
100	PI2 BPSK	135	69	21.22	21.43	21.22	22.8	0.0	
100	PI2 BPSK	135	138	20.95	21.26	21.09			
100	PI2 BPSK	270	0	21.02	21.24	21.14	22.8	0.0	
100	QPSK	1	1	20.52	20.58	20.50			
100	QPSK	1	137	21.37	21.53	21.42	22.8	0.0	
100	QPSK	1	271	20.51	20.53	20.51			
100	QPSK	135	0	20.91	21.16	20.98			
100	QPSK	135	69	21.30	21.49	21.35	22.8	0.0	
100	QPSK	135	138	20.99	21.27	21.16			
100	QPSK	270	0	21.19	21.43	21.33	22.8	0.0	
100	16QAM	1	1	20.54	20.58	20.50	22.8	0.0	
100	64QAM	1	1	20.51	20.61	20.52	22.8	0.0	
100	256QAM	1	1	19.50	19.56	19.51	21.8	1.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.50	20.53	20.50	22.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.85	20.60	20.70	22.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.81	20.88	20.95	22.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.94	21.04	20.98	22.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.21	21.25	21.24	22.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.17	21.12	21.26	22.8	0.0	

Part27Q_n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		18.81				
100	PI2 BPSK	1	137		19.36		20.3	0.0	
100	PI2 BPSK	1	271		18.69				
100	PI2 BPSK	135	0		19.33		20.3	0.0	
100	PI2 BPSK	135	69		19.32		20.3	0.0	
100	PI2 BPSK	135	138		19.14		20.3	0.0	
100	PI2 BPSK	270	0		19.23				
100	QPSK	1	1		18.83				
100	QPSK	1	137		19.43		20.3	0.0	
100	QPSK	1	271		18.56				
100	QPSK	135	0		19.31				
100	QPSK	135	69		19.38		20.3	0.0	
100	QPSK	135	138		19.15				
100	QPSK	270	0		19.31		20.3	0.0	
100	16QAM	1	1		18.57		20.3	0.0	
100	64QAM	1	1		18.61		20.3	0.0	
100	256QAM	1	1		18.20		20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	633000	633332	633866	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.82	18.82	18.72	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.78	18.81	18.86	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.90	18.99	18.87	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3465	3465.98	3500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.67	18.69	18.69	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.02	19.02	18.87	20.3	0.0	



Part27Q_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3499.98	3500.02	3500.02				
100	PI2 BPSK	1	137	22.23	22.23	22.23	23.3	0.0		
100	PI2 BPSK	1	271	21.38	21.38	21.38				
100	PI2 BPSK	135	0	22.16	22.16	22.16	23.3	0.0		
100	PI2 BPSK	135	69	22.21	22.21	22.21	23.3	0.0		
100	PI2 BPSK	135	138	22.07	22.07	22.07	23.3	0.0		
100	PI2 BPSK	270	0	22.12	22.12	22.12				
100	QPSK	1	1	21.47	21.47	21.47				
100	QPSK	1	137	22.36	22.36	22.36	23.3	0.0		
100	QPSK	1	271	21.35	21.35	21.35				
100	QPSK	135	0	22.17	22.17	22.17				
100	QPSK	135	69	22.32	22.32	22.32	23.3	0.0		
100	QPSK	135	138	22.03	22.03	22.03				
100	QPSK	270	0	22.24	22.24	22.24	23.3	0.0		
100	16QAM	1	1	21.73	21.73	21.73	23.3	0.0		
100	64QAM	1	1	21.67	21.67	21.67	23.3	0.0		
100	256QAM	1	1	20.34	20.34	20.34	21.8	1.5		
Channel										
				633000	633332	633996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.59	21.53	21.53	23.3	0.0		
Channel										
				630688	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3450.02	3459.98	3510				
80	QPSK	1	1	21.54	21.54	21.60	23.3	0.0		
Channel										
				630500	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	3460	3469.98	3519.99				
60	QPSK	1	1	21.77	21.71	21.68	23.3	0.0		
Channel										
				631088	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.86	21.75	21.75	23.3	0.0		
Channel										
				631334	633332	635032	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	3470.01	3469.98	3529.98				
40	QPSK	1	1	21.57	21.50	21.63	23.3	0.0		
Channel										
				631000	633332	635066	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	3465	3469.98	3534.99				
30	QPSK	1	1	21.82	21.76	21.79	23.3	0.0		
Channel										
				630968	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	21.98	21.95	21.95	23.3	0.0		

Part27O_n78_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.41	18.41	18.41				
100	PI2 BPSK	1	137	19.01	19.01	19.01	20.3	0.0		
100	PI2 BPSK	1	271	18.35	18.35	18.35				
100	PI2 BPSK	135	0	18.83	18.83	18.83	20.3	0.0		
100	PI2 BPSK	135	69	18.97	18.97	18.97	20.3	0.0		
100	PI2 BPSK	135	138	18.92	18.92	18.92	20.3	0.0		
100	PI2 BPSK	270	0	18.89	18.89	18.89				
100	QPSK	1	1	18.35	18.35	18.35				
100	QPSK	1	137	18.07	18.07	18.07	20.3	0.0		
100	QPSK	1	271	18.31	18.31	18.31				
100	QPSK	135	0	18.88	18.88	18.88				
100	QPSK	135	69	19.04	19.04	19.04	20.3	0.0		
100	QPSK	135	138	18.91	18.91	18.91				
100	QPSK	270	0	18.88	18.88	18.88	20.3	0.0		
100	16QAM	1	1	18.33	18.33	18.33	20.3	0.0		
100	64QAM	1	1	18.38	18.38	18.38	20.3	0.0		
100	256QAM	1	1	18.62	18.62	18.62	20.3	0.0		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	18.38	18.35	18.31	20.3	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99				
80	QPSK	1	1	18.32	18.32	18.32	20.3	0.0		
Channel										
				648666	650000	651332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	3750.02	3750	3769.98				
60	QPSK	1	1	18.56	18.51	18.54	20.3	0.0		
Channel										
				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	18.67	18.58	18.65	20.3	0.0		
Channel										
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	3720	3750	3760				
40	QPSK	1	1	18.45	18.51	18.44	20.3	0.0		
Channel										
				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	3715.02	3750	3784.98				
30	QPSK	1	1	18.61	18.63	18.65	20.3	0.0		
Channel										
				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	18.88	18.75	18.84	20.3	0.0		

Part27O_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.36	21.36	21.36				
100	PI2 BPSK	1	137	21.96	21.96	21.96	23.3	0.0		
100	PI2 BPSK	1	271	21.30	21.30	21.30				
100	PI2 BPSK	135	0	21.74	21.74	21.74	23.3	0.0		
100	PI2 BPSK	135	69	21.98	21.98	21.98	23.3	0.0		
100	PI2 BPSK	135	138	21.84	21.84	21.84	23.3	0.0		
100	PI2 BPSK	270	0	21.79	21.79	21.79				
100	QPSK	1	1	21.38	21.38	21.38				
100	QPSK	1	137	21.99	21.99	21.99	23.3	0.0		
100	QPSK	1	271	21.34	21.34	21.34				
100	QPSK	135	0	21.73	21.73	21.73				
100	QPSK	135	69	21.98	21.98	21.98	23.3	0.0		
100	QPSK	135	138	21.78	21.78	21.78				
100	QPSK	270	0	21.81	21.81	21.81	23.3	0.0		
100	16QAM	1	1	21.38	21.38	21.38	23.3	0.0		
100	64QAM	1	1	21.34	21.34	21.34	23.3	0.0		
100	256QAM	1	1	18.85	18.85	18.85	21.8	1.5		
Channel										
				649988	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.42	21.37	21.39	23.3	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99				
80	QPSK	1	1	21.32	21.40	21.48	23.3	0.0		
Channel										
				648666	650000	651332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	3750.02	3750	3769.98				
60	QPSK	1	1	21.68	21.77	21.79	23.3	0.0		
Channel										
				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.73	21.84	21.77	23.3	0.0		
Channel										
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	3720	3750	3760				
40	QPSK	1	1	21.48	21.52	21.40	23.3	0.0		
Channel										
				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	3715.02	3750	3784.98				
30	QPSK	1	1	21.67	21.78	21.78	23.3	0.0		
Channel										
				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	21.89	21.92	21.82	23.3	0.0		



Part27Q_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.19					
100	PI2 BPSK	1	137	18.91			17.5	0.0	
100	PI2 BPSK	1	271	18.31					
100	PI2 BPSK	135	0	18.80			17.5	0.0	
100	PI2 BPSK	135	69	18.88			17.5	0.0	
100	PI2 BPSK	135	138	18.87			17.5	0.0	
100	PI2 BPSK	270	0	18.92					
100	QPSK	1	1	18.23					
100	QPSK	1	137	18.96			17.5	0.0	
100	QPSK	1	271	18.33					
100	QPSK	135	0	18.78					
100	QPSK	135	69	18.81			17.5	0.0	
100	QPSK	135	138	18.88					
100	QPSK	270	0	18.88			17.5	0.0	
100	16QAM	1	1	18.00			17.5	0.0	
100	64QAM	1	1	15.98			17.5	0.0	
100	256QAM	1	1	16.58			17.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3456	3499.98	3543.96			
50	QPSK	1	1	15.82	15.75	16.00	17.5	0.0	
Channel				630688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3450.02	3499.98	3510			
80	QPSK	1	1	15.40	15.42	15.49	17.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	16.12	16.08	16.18	17.5	0.0	
Channel				631688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3499.98	3505			
50	QPSK	1	1	16.28	16.31	16.29	17.5	0.0	
Channel				631334	633332	636332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.02	16.00	16.00	17.5	0.0	
Channel				630688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	16.40	16.52	16.52	17.5	0.0	

Part27Q_n77(HPUe)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.25					
100	PI2 BPSK	1	137	19.94			20.5	0.0	
100	PI2 BPSK	1	271	19.34					
100	PI2 BPSK	135	0	19.89			20.5	0.0	
100	PI2 BPSK	135	69	19.91			20.5	0.0	
100	PI2 BPSK	135	138	19.95			20.5	0.0	
100	PI2 BPSK	270	0	19.91					
100	QPSK	1	1	19.23					
100	QPSK	1	137	20.03			20.5	0.0	
100	QPSK	1	271	19.31					
100	QPSK	135	0	19.91					
100	QPSK	135	69	20.00			20.5	0.0	
100	QPSK	135	138	19.93					
100	QPSK	270	0	19.95			20.5	0.0	
100	16QAM	1	1	18.50			20.5	0.0	
100	64QAM	1	1	18.38			20.5	0.0	
100	256QAM	1	1	19.34			20.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3456	3499.98	3543.96			
50	QPSK	1	1	19.46	19.49	19.56	20.5	0.0	
Channel				632688	633332	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480.02	3499.98	3510			
80	QPSK	1	1	19.42	19.47	19.58	20.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	19.59	19.61	19.55	20.5	0.0	
Channel				631688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3499.98	3505			
50	QPSK	1	1	19.69	19.77	19.70	20.5	0.0	
Channel				631334	633332	636332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.52	19.54	19.63	20.5	0.0	
Channel				630688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.70	19.72	19.79	20.5	0.0	

Part27O_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.03	18.09	18.04			
100	PI2 BPSK	1	137	18.86	18.92	18.89	17.5	0.0	
100	PI2 BPSK	1	271	18.37	18.34	18.39			
100	PI2 BPSK	135	0	18.77	18.74	18.78	17.5	0.0	
100	PI2 BPSK	135	69	18.82	18.89	18.89	17.5	0.0	
100	PI2 BPSK	135	138	18.82	18.84	18.81	17.5	0.0	
100	PI2 BPSK	270	0	18.78	18.75	18.87			
100	QPSK	1	1	15.98	16.03	16.03			
100	QPSK	1	137	16.87	16.96	16.90	17.5	0.0	
100	QPSK	1	271	16.21	16.30	16.35			
100	QPSK	135	0	16.82	16.79	16.83			
100	QPSK	135	69	16.88	16.94	16.92	17.5	0.0	
100	QPSK	135	138	16.78	16.85	16.74			
100	QPSK	270	0	16.88	16.89	16.75	17.5	0.0	
100	16QAM	1	1	15.73	15.88	15.93	17.5	0.0	
100	64QAM	1	1	15.98	15.89	15.78	17.5	0.0	
100	256QAM	1	1	16.39	16.42	16.36	17.5	0.0	
Channel				649988	650000	650232	Tune-up limit (dB)	MPR	
Frequency (MHz)				3743.02	3840	3928.96			
80	QPSK	1	1	16.13	16.16	16.09	17.5	0.0	
Channel				649334	650000	650966	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	16.33	16.32	16.37	17.5	0.0	
Channel				649688	650000	650332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	1	16.48	16.51	16.52	17.5	0.0	
Channel				648834	650000	650966	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	16.52	16.57	16.53	17.5	0.0	
Channel				648000	650000	650000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.27	16.33	16.38	17.5	0.0	
Channel				647334	650000	650966	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3840	3969.99			
20	QPSK	1	1	16.47	16.60	16.61	17.5	0.0	



Part270_n77(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.11	19.09	19.01	20.5	0.0		
100	PI2 BPSK	1	137	19.89	19.93	19.84				
100	PI2 BPSK	1	271	19.24	19.36	19.43				
100	PI2 BPSK	135	0	19.63	19.76	19.81	20.5	0.0		
100	PI2 BPSK	135	69	19.85	19.84	19.88	20.5	0.0		
100	PI2 BPSK	135	138	19.78	19.91	19.78	20.5	0.0		
100	PI2 BPSK	270	0	19.82	19.82	19.83				
100	QPSK	1	1	19.06	19.00	18.96				
100	QPSK	1	137	19.78	19.98	19.85	20.5	0.0		
100	QPSK	1	271	19.15	19.22	19.23	20.5	0.0		
100	QPSK	135	0	19.74	19.72	19.87				
100	QPSK	135	69	19.74	19.96	19.80				
100	QPSK	135	138	19.66	19.87	19.78	20.5	0.0		
100	QPSK	270	0	19.82	19.82	19.86	20.5	0.0		
100	16QAM	1	1	19.21	19.23	19.19	20.5	0.0		
100	64QAM	1	1	19.22	19.20	19.21	20.5	0.0		
100	256QAM	1	1	18.99	19.11	19.05	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.24	19.22	19.26	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.29	19.34	19.33	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.39	19.40	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.37	19.49	19.56	20.5	0.0		

Part27Q_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.48			18.0	0.0		
100	PI2 BPSK	1	137	17.27						
100	PI2 BPSK	1	271	18.26						
100	PI2 BPSK	135	0	17.03			18.0	0.0		
100	PI2 BPSK	135	69	17.23			18.0	0.0		
100	PI2 BPSK	135	138	17.14			18.0	0.0		
100	PI2 BPSK	270	0	17.69						
100	QPSK	1	1	18.87						
100	QPSK	1	137	17.40			18.0	0.0		
100	QPSK	1	271	18.91			18.0	0.0		
100	QPSK	135	0	17.67						
100	QPSK	135	69	17.26						
100	QPSK	135	138	17.18			18.0	0.0		
100	QPSK	270	0	17.24			18.0	0.0		
100	16QAM	1	1	17.67			18.0	0.0		
100	64QAM	1	1	17.62			18.0	0.0		
100	256QAM	1	1	17.69			18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.22	18.24	18.17	18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3480.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.20	18.31	18.23	18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.65	18.69	18.65	18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3470.01	3499.98	3509.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.56	18.69	18.73	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.10	17.13	17.12	18.0	0.0		

Part27Q_n78(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.52			21.0	0.0		
100	PI2 BPSK	1	137	20.30						
100	PI2 BPSK	1	271	19.60						
100	PI2 BPSK	135	0	20.15			21.0	0.0		
100	PI2 BPSK	135	69	20.28			21.0	0.0		
100	PI2 BPSK	135	138	20.26			21.0	0.0		
100	PI2 BPSK	270	0	20.18						
100	QPSK	1	1	19.47						
100	QPSK	1	137	20.37			21.0	0.0		
100	QPSK	1	271	19.54			21.0	0.0		
100	QPSK	135	0	20.16						
100	QPSK	135	69	20.34						
100	QPSK	135	138	20.21			21.0	0.0		
100	QPSK	270	0	20.30			21.0	0.0		
100	16QAM	1	1	19.78			21.0	0.0		
100	64QAM	1	1	19.70			21.0	0.0		
100	256QAM	1	1	18.65			21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.25	19.40	19.19	21.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3480.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.52	19.48	19.59	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.43	19.59	19.62	21.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3470.01	3499.98	3509.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.84	19.88	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.05	19.96	20.11	21.0	0.0		



Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.50	3750					
100	PI2 BPSK	1	137	17.23	3750	3784.98	18.0	0.0		
100	PI2 BPSK	1	271	16.82	3750	3784.98				
100	PI2 BPSK	135	0	17.11	3750		18.0	0.0		
100	PI2 BPSK	135	69	17.22	3750		18.0	0.0		
100	PI2 BPSK	135	138	17.19	3750		18.0	0.0		
100	PI2 BPSK	270	0	17.18	3750					
100	QPSK	1	1	16.43	3750					
100	QPSK	1	137	17.33	3750		18.0	0.0		
100	QPSK	1	271	16.59	3750					
100	QPSK	135	0	17.18	3750					
100	QPSK	135	69	17.31	3750		18.0	0.0		
100	QPSK	135	138	17.21	3750					
100	QPSK	270	0	17.13	3750		18.0	0.0		
100	16QAM	1	1	16.18	3750		18.0	0.0		
100	64QAM	1	1	16.22	3750		18.0	0.0		
100	256QAM	1	1	16.85	3750		18.0	0.0		
Channel										
				64988	65000	65032	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	16.43	3750	3784.98	18.0	0.0		
Channel										
				64934	65000	65066	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
80	QPSK	1	1	16.85	3750	3784.98	18.0	0.0		
Channel										
				3750.02	3750	3769.98	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
60	QPSK	1	1	16.79	3750	3769.98	18.0	0.0		
Channel										
				64834	65000	65166	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	17.02	3750	3769.98	18.0	0.0		
Channel										
				64800	65000	65200	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	17.20	3750	3769.98	18.0	0.0		
Channel										
				64768	65000	65232	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
30	QPSK	1	1	16.96	3750	3769.98	18.0	0.0		
Channel										
				64734	65000	65266	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	17.14	3750	3769.98	18.0	0.0		

Part270_n78(HPUe)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.58	3750					
100	PI2 BPSK	1	137	20.39	3750	3784.98	21.0	0.0		
100	PI2 BPSK	1	271	19.72	3750	3784.98				
100	PI2 BPSK	135	0	20.28	3750		21.0	0.0		
100	PI2 BPSK	135	69	20.37	3750		21.0	0.0		
100	PI2 BPSK	135	138	20.30	3750		21.0	0.0		
100	PI2 BPSK	270	0	20.28	3750					
100	QPSK	1	1	19.45	3750					
100	QPSK	1	137	20.43	3750		21.0	0.0		
100	QPSK	1	271	19.60	3750					
100	QPSK	135	0	20.20	3750					
100	QPSK	135	69	20.41	3750		21.0	0.0		
100	QPSK	135	138	20.28	3750					
100	QPSK	270	0	20.38	3750		21.0	0.0		
100	16QAM	1	1	19.73	3750		21.0	0.0		
100	64QAM	1	1	19.65	3750		21.0	0.0		
100	256QAM	1	1	19.58	3750		21.0	0.0		
Channel										
				64988	65000	65032	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	19.38	3750	3784.98	21.0	0.0		
Channel										
				64934	65000	65066	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
80	QPSK	1	1	19.35	3750	3784.98	21.0	0.0		
Channel										
				3750.02	3750	3769.98	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
60	QPSK	1	1	19.74	3750	3769.98	21.0	0.0		
Channel										
				64834	65000	65166	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	19.88	3750	3769.98	21.0	0.0		
Channel										
				64800	65000	65200	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	19.65	3750	3769.98	21.0	0.0		
Channel										
				64768	65000	65232	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
30	QPSK	1	1	19.93	3750	3769.98	21.0	0.0		
Channel										
				64734	65000	65266	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	20.12	3750	3769.98	21.0	0.0		

Part27Q_n77_Ant 6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	16.00	3499.98					
100	PI2 BPSK	1	137	16.55	3499.98	3534.96	17.3	0.0		
100	PI2 BPSK	1	271	15.99	3499.98	3534.96				
100	PI2 BPSK	135	0	16.54	3499.98		17.3	0.0		
100	PI2 BPSK	135	69	16.54	3499.98		17.3	0.0		
100	PI2 BPSK	135	138	16.48	3499.98		17.3	0.0		
100	PI2 BPSK	270	0	16.50	3499.98					
100	QPSK	1	1	16.04	3499.98					
100	QPSK	1	137	16.63	3499.98		17.3	0.0		
100	QPSK	1	271	15.91	3499.98					
100	QPSK	135	0	16.54	3499.98					
100	QPSK	135	69	16.61	3499.98		17.3	0.0		
100	QPSK	135	138	16.53	3499.98					
100	QPSK	270	0	16.58	3499.98		17.3	0.0		
100	16QAM	1	1	15.78	3499.98		17.3	0.0		
100	64QAM	1	1	15.81	3499.98		17.3	0.0		
100	256QAM	1	1	16.43	3499.98		17.3	0.0		
Channel										
				63300	63332	63366	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	15.75	3499.98	3534.96	17.3	0.0		
Channel										
				63268	63332	63400	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
80	QPSK	1	1	15.72	3499.98	3534.96	17.3	0.0		
Channel										
				3499.98	3499.98	3510	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
60	QPSK	1	1	16.03	3499.98	3510	17.3	0.0		
Channel										
				63168	63332	63500	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
50	QPSK	1	1	16.14	3499.98	3510	17.3	0.0		
Channel										
				63134	63332	63532	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	15.90	3499.98	3510	17.3	0.0		
Channel										
				63068	63332	63600	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	16.35	3499.98	3510	17.3	0.0		



Part27Q_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.76					
100	PI2 BPSK	1	137	19.43			20.3	0.0	
100	PI2 BPSK	1	271	18.77					
100	PI2 BPSK	135	0	19.30			20.3	0.0	
100	PI2 BPSK	135	69	19.48			20.3	0.0	
100	PI2 BPSK	135	138	19.22			20.3	0.0	
100	PI2 BPSK	270	0	19.29					
100	QPSK	1	1	19.53					
100	QPSK	1	137	19.55			20.3	0.0	
100	QPSK	1	271	18.59					
100	QPSK	135	0	19.44					
100	QPSK	135	69	19.51			20.3	0.0	
100	QPSK	135	138	19.34					
100	QPSK	270	0	19.47			20.3	0.0	
100	16QAM	1	1	18.81			20.3	0.0	
100	64QAM	1	1	18.83			20.3	0.0	
100	256QAM	1	1	18.78			20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.84	18.73	18.84	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.76	18.81	18.83	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.93	18.92	19.03	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.07	19.11	19.10	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.79	19.81	19.82	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.29	19.22	19.31	20.3	0.0	

Part27O_n77_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.96	15.71	15.60			
100	PI2 BPSK	1	137	16.33	16.18	16.18	17.3	0.0	
100	PI2 BPSK	1	271	15.57	15.51	15.50			
100	PI2 BPSK	135	0	16.32	16.15	16.11	17.3	0.0	
100	PI2 BPSK	135	69	16.34	16.21	16.19	17.3	0.0	
100	PI2 BPSK	135	138	16.13	15.98	15.92	17.3	0.0	
100	PI2 BPSK	270	0	16.31	16.21	16.15			
100	QPSK	1	1	15.91	15.84	15.79			
100	QPSK	1	137	16.47	16.20	16.13	17.3	0.0	
100	QPSK	1	271	15.55	15.51	15.50			
100	QPSK	135	0	16.41	16.26	16.05			
100	QPSK	135	69	16.44	16.27	16.15	17.3	0.0	
100	QPSK	135	138	16.17	16.02	16.08			
100	QPSK	270	0	16.41	16.29	16.22	17.3	0.0	
100	16QAM	1	1	16.10	16.07	16.07	17.3	0.0	
100	64QAM	1	1	16.11	16.02	16.03	17.3	0.0	
100	256QAM	1	1	16.13	16.07	16.04	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.79	15.58	15.60	17.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.85	15.71	16.23	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.06	15.85	15.72	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.27	15.93	15.79	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.94	15.69	15.62	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.29	16.15	15.83	17.3	0.0	

Part27O_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.70	18.54	18.58			
100	PI2 BPSK	1	137	19.34	19.32	19.33	20.3	0.0	
100	PI2 BPSK	1	271	18.82	18.50	18.50			
100	PI2 BPSK	135	0	19.31	19.22	19.24	20.3	0.0	
100	PI2 BPSK	135	69	19.26	19.26	19.23	20.3	0.0	
100	PI2 BPSK	135	138	19.09	19.11	19.08	20.3	0.0	
100	PI2 BPSK	270	0	19.12	19.04	19.03			
100	QPSK	1	1	18.61	18.50	18.50			
100	QPSK	1	137	19.36	19.30	19.30	20.3	0.0	
100	QPSK	1	271	18.55	18.57	18.53			
100	QPSK	135	0	19.31	19.26	19.24			
100	QPSK	135	69	19.35	19.28	19.25	20.3	0.0	
100	QPSK	135	138	19.09	19.11	19.06			
100	QPSK	270	0	19.16	19.14	19.12	20.3	0.0	
100	16QAM	1	1	18.83	18.84	18.73	20.3	0.0	
100	64QAM	1	1	18.77	18.87	18.57	20.3	0.0	
100	256QAM	1	1	18.69	18.66	18.69	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.62	18.56	18.51	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.81	18.83	18.83	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.86	18.81	18.56	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.03	18.82	18.60	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.86	18.60	18.55	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.09	18.97	18.73	20.3	0.0	



Part27Q_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl/2 BPSK	1	1	15.90	16.33	16.79	17.3	0.0	
100	Pl/2 BPSK	1	137	16.49	16.92	17.38	17.3	0.0	
100	Pl/2 BPSK	1	271	16.75	17.18	17.64	17.3	0.0	
100	Pl/2 BPSK	135	0	16.44	16.87	17.33	17.3	0.0	
100	Pl/2 BPSK	135	69	16.56	16.99	17.45	17.3	0.0	
100	Pl/2 BPSK	135	138	16.34	16.77	17.23	17.3	0.0	
100	Pl/2 BPSK	270	0	16.36	16.79	17.25	17.3	0.0	
100	QPSK	1	1	15.88	16.31	16.77	17.3	0.0	
100	QPSK	1	137	16.56	16.99	17.45	17.3	0.0	
100	QPSK	1	271	16.79	17.22	17.68	17.3	0.0	
100	QPSK	135	0	16.47	16.90	17.36	17.3	0.0	
100	QPSK	135	69	16.54	16.97	17.43	17.3	0.0	
100	QPSK	135	138	16.37	16.80	17.26	17.3	0.0	
100	QPSK	270	0	16.49	16.92	17.38	17.3	0.0	
100	16QAM	1	1	15.67	16.10	16.56	17.3	0.0	
100	16QAM	1	1	15.68	16.11	16.57	17.3	0.0	
100	256QAM	1	1	16.31	16.74	17.20	17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.66	15.92	15.79	17.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.70	15.96	15.77	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.24	16.21	16.23	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.33	16.25	16.35	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.12	16.08	16.16	17.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.27	16.33	16.27	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.36	16.44	16.48	17.3	0.0	

Part27Q_n78(HPUe)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl/2 BPSK	1	1	18.54	18.97	19.43	20.3	0.0	
100	Pl/2 BPSK	1	137	19.46	19.89	20.35	20.3	0.0	
100	Pl/2 BPSK	1	271	19.40	19.83	20.29	20.3	0.0	
100	Pl/2 BPSK	135	0	19.28	19.71	20.17	20.3	0.0	
100	Pl/2 BPSK	135	69	19.36	19.79	20.25	20.3	0.0	
100	Pl/2 BPSK	135	138	19.19	19.62	20.08	20.3	0.0	
100	Pl/2 BPSK	270	0	19.25	19.68	20.14	20.3	0.0	
100	QPSK	1	1	18.92	19.35	19.81	20.3	0.0	
100	QPSK	1	137	19.47	19.90	20.36	20.3	0.0	
100	QPSK	1	271	19.32	19.75	20.21	20.3	0.0	
100	QPSK	135	0	19.26	19.69	20.15	20.3	0.0	
100	QPSK	135	69	19.44	19.87	20.33	20.3	0.0	
100	QPSK	135	138	19.25	19.68	20.14	20.3	0.0	
100	QPSK	270	0	19.37	19.80	20.26	20.3	0.0	
100	16QAM	1	1	18.76	19.19	19.65	20.3	0.0	
100	16QAM	1	1	18.72	19.15	19.61	20.3	0.0	
100	256QAM	1	1	18.63	19.06	19.52	20.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.33	18.49	18.38	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.54	18.57	18.57	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.82	18.79	18.69	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.92	18.86	18.92	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.07	18.09	18.02	20.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.77	18.81	18.80	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.04	18.92	18.89	20.3	0.0	



Part270_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1		15.76				
100	Pl2 BPSK	1	137		16.31	3784.98	17.3	0.0	
100	Pl2 BPSK	1	211		16.40				
100	Pl2 BPSK	135	0		16.32		17.3	0.0	
100	Pl2 BPSK	135	69		16.42				
100	Pl2 BPSK	135	138		16.20		17.3	0.0	
100	Pl2 BPSK	270	0		16.29				
100	QPSK	1	1		15.74				
100	QPSK	1	137		16.45		17.3	0.0	
100	QPSK	1	211		16.42				
100	QPSK	135	0		16.30				
100	QPSK	135	69		16.43		17.3	0.0	
100	QPSK	135	138		16.19				
100	QPSK	270	0		16.36		17.3	0.0	
100	16QAM	1	1		16.48		17.3	0.0	
100	16QAM	1	1		16.54		17.3	0.0	
100	256QAM	1	1		16.15		17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65032	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.11	16.14	16.12	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.25	16.22	16.27	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.02	16.04	16.06	17.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.30	16.28	16.24	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.40	16.36	16.37	17.3	0.0	

Part270_n78(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1		18.42				
100	Pl2 BPSK	1	137		18.36	3784.98	20.3	0.0	
100	Pl2 BPSK	1	211		18.45				
100	Pl2 BPSK	135	0		18.23		20.3	0.0	
100	Pl2 BPSK	135	69		18.21				
100	Pl2 BPSK	135	138		18.10		20.3	0.0	
100	Pl2 BPSK	270	0		18.17				
100	QPSK	1	1		18.46				
100	QPSK	1	137		18.35		20.3	0.0	
100	QPSK	1	211		18.41				
100	QPSK	135	0		18.24				
100	QPSK	135	69		18.33		20.3	0.0	
100	QPSK	135	138		18.06				
100	QPSK	270	0		18.28		20.3	0.0	
100	16QAM	1	1		18.61		20.3	0.0	
100	16QAM	1	1		18.57		20.3	0.0	
100	256QAM	1	1		18.52		20.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65032	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.63	18.70	18.86	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.86	18.92	19.07	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.53	18.59	18.56	20.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.74	18.75	18.83	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.93	18.99	18.95	20.3	0.0	



n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.53	24.58	24.48			
20	PI2 BPSK	1	53	24.34	24.43	24.31	25.5	0.0	
20	PI2 BPSK	1	104	24.30	24.45	24.35			
20	PI2 BPSK	50	0	23.83	23.95	23.92	25.0	0.5	
20	PI2 BPSK	50	28	24.34	24.45	24.42	25.5	0.0	
20	PI2 BPSK	50	56	23.95	23.99	23.82	25.0	0.5	
20	PI2 BPSK	100	0	24.00	24.03	23.92			
20	QPSK	1	1	24.52	24.61	24.57			
20	QPSK	1	53	24.40	24.54	24.44	25.5	0.0	
20	QPSK	1	104	24.06	24.37	24.31			
20	QPSK	50	0	23.31	23.47	23.37	24.5	1.0	
20	QPSK	50	28	24.39	24.53	24.46	25.5	0.0	
20	QPSK	50	56	23.28	23.43	23.28	24.5	1.0	
20	QPSK	100	0	23.44	23.51	23.38			
20	16QAM	1	1	23.12	23.22	23.13	24.5	1.0	
20	64QAM	1	1	21.58	21.63	21.55	23.0	2.5	
20	256QAM	1	1	20.07	20.23	20.13	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
15	QPSK	1	1	24.42	24.45	24.51	25.5	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.01	24.17	24.05	25.3	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	24.42	24.57	24.54	25.5	0.0	

DS1									
n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.91	24.07	24.00			
20	PI2 BPSK	1	53	24.20	24.25	24.10	25.3	0.0	
20	PI2 BPSK	1	104	23.96	24.07	23.91			
20	PI2 BPSK	50	0	23.53	23.70	23.62	24.8	0.5	
20	PI2 BPSK	50	28	24.14	24.24	24.10	25.3	0.0	
20	PI2 BPSK	50	56	23.42	23.52	23.43	24.8	0.5	
20	PI2 BPSK	100	0	23.56	23.64	23.51			
20	QPSK	1	1	23.88	23.98	23.84			
20	QPSK	1	53	24.06	24.30	24.12	25.3	0.0	
20	QPSK	1	104	23.95	24.05	24.00			
20	QPSK	50	0	23.20	23.23	23.08	24.3	1.0	
20	QPSK	50	28	24.05	24.25	24.10	25.3	0.0	
20	QPSK	50	56	22.87	22.92	22.79	24.3	1.0	
20	QPSK	100	0	23.01	23.10	22.91			
20	16QAM	1	1	22.59	22.73	22.60	24.3	1.0	
20	64QAM	1	1	21.26	21.35	21.25	22.8	2.5	
20	256QAM	1	1	19.86	19.97	19.86	20.8	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
15	QPSK	1	1	24.02	24.07	24.01	25.3	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.01	24.17	24.05	25.3	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.90	24.10	23.99	25.3	0.0	

n7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	20.07	20.71	20.47			
50	PI2 BPSK	1	135	21.00	21.02	21.03	22.0	0.0	
50	PI2 BPSK	1	268	20.08	20.71	20.85			
50	PI2 BPSK	135	0	20.99	21.10	21.11	22.0	0.0	
50	PI2 BPSK	135	68	21.09	21.12	21.11	22.0	0.0	
50	PI2 BPSK	135	135	21.08	21.10	20.98	22.0	0.0	
50	PI2 BPSK	270	0	21.03	21.12	21.03			
50	QPSK	1	1	21.11	21.14	21.09			
50	QPSK	1	135	21.08	21.13	20.86	22.0	0.0	
50	QPSK	1	268	20.72	20.75	20.74			
50	QPSK	135	0	21.02	21.07	21.03	22.0	0.0	
50	QPSK	135	68	21.05	21.11	21.04	22.0	0.0	
50	QPSK	135	135	21.02	21.08	21.00	22.0	0.0	
50	QPSK	270	0	21.04	21.10	21.06			
50	16QAM	1	1	20.39	20.51	20.53	22.0	0.0	
50	64QAM	1	1	20.56	20.54	20.44	22.0	0.0	
50	256QAM	1	1	20.13	20.18	20.15	21.0	1.0	
Channel				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2535	2535	2535			
40	QPSK	1	1	20.59	20.83	20.59	22.0	0.0	
Channel				506000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2535	2535	2535			
30	QPSK	1	1	20.52	20.52	20.60	22.0	0.0	
Channel				505500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2527.5	2535	2542.5			
25	QPSK	1	1	20.67	20.65	20.61	22.0	0.0	
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2527.5	2535	2542.5			
20	QPSK	1	1	20.52	20.71	20.55	22.0	0.0	
Channel				505000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2527.5	2535	2542.5			
15	QPSK	1	1	20.58	20.54	20.60	22.0	0.0	
Channel				507000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.56	20.65	20.67	22.0	0.0	
Channel				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.66	20.67	20.55	22.0	0.0	



n7_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505000	507000	509000				
Frequency (MHz)				2525	2535	2545				
50	PI2 BPSK	1	1	19.92	19.92	19.97				
50	PI2 BPSK	1	135	20.13	20.18	20.13	21.6	0.0		
50	PI2 BPSK	1	268	19.66	19.74	19.78				
50	PI2 BPSK	135	0	20.12	20.25	20.19	21.6	0.0		
50	PI2 BPSK	135	68	20.15	20.25	20.19	21.6	0.0		
50	PI2 BPSK	135	135	20.11	20.19	20.11	21.6	0.0		
50	PI2 BPSK	270	0	20.22	20.23	20.14				
50	QPSK	1	1	19.86	19.94	19.79				
50	QPSK	1	135	20.16	20.39	20.11	21.6	0.0		
50	QPSK	1	268	19.84	19.76	19.78				
50	QPSK	135	0	20.15	20.25	20.12	21.6	0.0		
50	QPSK	135	68	20.20	20.31	20.15	21.6	0.0		
50	QPSK	135	135	20.07	20.12	20.05				
50	QPSK	270	0	20.17	20.21	20.15	21.6	0.0		
50	16QAM	1	1	19.88	19.72	19.84	21.6	0.0		
50	64QAM	1	1	19.73	19.71	19.73	21.6	0.0		
50	256QAM	1	1	19.70	19.33	19.21	20.6	1.0		
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2550	2535	2550				
40	QPSK	1	1	19.78	19.81	19.87	21.6	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2515	2535	2555				
30	QPSK	1	1	19.72	19.92	19.81	21.6	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2512.5	2535	2557.5				
25	QPSK	1	1	19.69	19.84	19.85	21.6	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
20	QPSK	1	1	19.81	19.90	19.88	21.6	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
15	QPSK	1	1	19.80	19.88	19.82	21.6	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	1	19.78	19.78	19.84	21.6	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	19.72	19.77	19.78	21.6	0.0		

n7_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505000	507000	509000				
Frequency (MHz)				2525	2535	2545				
50	PI2 BPSK	1	1	19.93	19.93	19.93				
50	PI2 BPSK	1	135	20.13	20.09	20.01	21.7	0.0		
50	PI2 BPSK	1	268	19.92	19.92	19.95				
50	PI2 BPSK	135	0	20.03	20.04	19.96	21.7	0.0		
50	PI2 BPSK	135	68	20.14	20.10	20.13	21.7	0.0		
50	PI2 BPSK	135	135	20.11	20.15	20.09	21.7	0.0		
50	PI2 BPSK	270	0	20.12	20.14	20.04				
50	QPSK	1	1	20.02	19.97	19.96				
50	QPSK	1	135	20.15	20.17	20.03	21.7	0.0		
50	QPSK	1	268	19.95	19.90	19.92				
50	QPSK	135	0	20.09	20.10	20.12	21.7	0.0		
50	QPSK	135	68	20.13	20.16	20.14	21.7	0.0		
50	QPSK	135	135	20.06	20.15	20.05				
50	QPSK	270	0	20.03	20.11	20.04	21.7	0.0		
50	16QAM	1	1	19.91	19.91	19.96	21.7	0.0		
50	64QAM	1	1	19.92	19.90	19.94	21.7	0.0		
50	256QAM	1	1	19.83	19.56	19.58	21.2	0.5		
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2550	2535	2550				
40	QPSK	1	1	19.96	20.08	19.90	21.7	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2515	2535	2555				
30	QPSK	1	1	19.87	20.04	19.86	21.7	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2512.5	2535	2557.5				
25	QPSK	1	1	19.91	20.06	19.94	21.7	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
20	QPSK	1	1	19.94	20.05	19.93	21.7	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2565				
15	QPSK	1	1	19.84	20.07	19.97	21.7	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	1	20.01	19.94	20.03	21.7	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	20.01	19.98	19.97	21.7	0.0		

n7_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505000	507000	509000				
Frequency (MHz)				2525	2535	2545				
50	PI2 BPSK	1	1	22.04	22.19	22.15				
50	PI2 BPSK	1	135	22.32	22.44	22.31	23.7	0.0		
50	PI2 BPSK	1	268	22.02	22.14	22.10				
50	PI2 BPSK	135	0	22.39	22.51	22.48	23.7	0.0		
50	PI2 BPSK	135	68	22.49	22.53	22.53	23.7	0.0		
50	PI2 BPSK	135	135	22.51	22.51	22.47	23.7	0.0		
50	PI2 BPSK	270	0	22.82	22.54	22.51				
50	QPSK	1	1	22.47	22.55	22.48				
50	QPSK	1	135	22.33	22.39	22.30	23.7	0.0		
50	QPSK	1	268	22.06	22.02	22.12				
50	QPSK	135	0	22.43	22.51	22.37	23.7	0.0		
50	QPSK	135	68	22.47	22.52	22.51	23.7	0.0		
50	QPSK	135	135	22.42	22.49	22.34				
50	QPSK	270	0	22.49	22.54	22.53	23.7	0.0		
50	16QAM	1	1	21.74	21.85	21.77	23.7	0.0		
50	64QAM	1	1	20.38	20.38	20.31	22.2	1.5		
50	256QAM	1	1	19.00	19.01	18.95	20.2	3.5		
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2550	2535	2550				
40	QPSK	1	1	22.00	22.07	22.11	23.7	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2515	2535	2555				
30	QPSK	1	1	22.04	22.16	22.08	23.7	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2512.5	2535	2557.5				
25	QPSK	1	1	21.97	22.17	22.01	23.7	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
20	QPSK	1	1	21.93	22.15	22.02	23.7	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2565				
15	QPSK	1	1	21.95	22.04	22.12	23.7	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	1	21.92	22.19	22.01	23.7	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	21.97	22.10	22.11	23.7	0.0		



n66_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				346000	349000	352000	
Frequency (MHz)				1720	1745	1770	
40	PI2 BPSK	1	1	19.08	19.14	19.07	21.0
40	PI2 BPSK	1	108	19.64	19.71	19.66	21.0
40	PI2 BPSK	1	214	19.91	19.16	19.16	21.0
40	PI2 BPSK	108	0	19.55	19.66	19.64	21.0
40	PI2 BPSK	108	54	19.72	19.68	19.69	21.0
40	PI2 BPSK	108	108	19.63	19.73	19.74	21.0
40	PI2 BPSK	216	0	19.66	19.72	19.74	21.0
40	QPSK	1	1	19.02	19.08	19.06	21.0
40	QPSK	1	108	19.10	19.77	19.05	21.0
40	QPSK	1	214	19.13	19.15	19.15	21.0
40	QPSK	108	0	19.47	19.59	19.63	21.0
40	QPSK	108	54	19.54	19.76	19.70	21.0
40	QPSK	108	108	19.60	19.71	19.84	21.0
40	QPSK	216	0	19.65	19.73	19.71	21.0
40	16QAM	1	1	19.02	19.02	19.01	21.0
40	64QAM	1	1	19.05	19.00	19.00	21.0
40	256QAM	1	1	19.57	19.54	19.49	21.0
Channel				345000	349000	353000	MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	19.02	19.03	19.04	21.0
Channel				344000	346000	354000	MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	19.06	19.00	19.03	21.0
Channel				343500	349000	354500	MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	19.06	19.01	19.01	21.0
Channel				343000	349000	355000	MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	19.06	18.99	18.99	21.0
Channel				342500	349000	355500	MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	18.96	19.01	19.01	21.0

n66_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				346000	349000	352000	
Frequency (MHz)				1720	1745	1770	
40	PI2 BPSK	1	1	18.51	18.50	18.54	20.1
40	PI2 BPSK	1	108	19.01	19.02	19.04	20.1
40	PI2 BPSK	1	214	18.60	18.56	18.54	20.1
40	PI2 BPSK	108	0	18.88	18.98	18.85	20.1
40	PI2 BPSK	108	54	18.90	18.89	19.01	20.1
40	PI2 BPSK	108	108	18.55	18.16	19.16	20.1
40	PI2 BPSK	216	0	19.05	19.13	19.01	20.1
40	QPSK	1	1	18.55	18.51	18.53	20.1
40	QPSK	1	108	18.55	19.17	18.05	20.1
40	QPSK	1	214	18.53	18.50	18.55	20.1
40	QPSK	108	0	18.84	18.92	18.80	20.1
40	QPSK	108	54	18.10	19.14	18.12	20.1
40	QPSK	108	108	19.05	19.13	19.09	20.1
40	QPSK	216	0	18.98	19.13	19.05	20.1
40	16QAM	1	1	18.55	18.52	18.56	20.1
40	64QAM	1	1	18.50	18.55	18.52	20.1
40	256QAM	1	1	18.50	18.65	18.61	20.1
Channel				345000	349000	353000	MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	18.57	18.57	18.54	20.1
Channel				344000	346000	354000	MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	18.50	18.51	18.55	20.1
Channel				343500	349000	354500	MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	18.50	18.59	18.59	20.1
Channel				343000	349000	355000	MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	18.40	18.48	18.40	20.1
Channel				342500	349000	355500	MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	18.44	18.49	18.50	20.1



n66_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				346000	349000	352000	
Frequency (MHz)				1720	1745	1770	
40	PI2 BPSK	1	1	22.45	22.55	22.65	
40	PI2 BPSK	1	108	23.18	23.18	23.23	24.1
40	PI2 BPSK	1	214	22.70	22.69	22.71	
40	PI2 BPSK	108	0	23.12	23.22	23.25	24.1
40	PI2 BPSK	108	54	23.21	23.17	23.86	24.1
40	PI2 BPSK	108	108	23.25	23.35	23.29	
40	PI2 BPSK	216	0	23.33	23.35	23.23	24.1
40	QPSK	1	1	22.56	22.52	22.46	
40	QPSK	1	108	23.13	23.26	23.21	24.1
40	QPSK	1	214	22.65	22.67	22.72	
40	QPSK	108	0	23.06	23.13	23.03	24.1
40	QPSK	108	54	23.16	23.35	23.22	24.1
40	QPSK	108	108	23.15	23.34	23.17	24.1
40	QPSK	216	0	23.22	23.31	23.19	
40	16QAM	1	1	22.54	22.27	22.20	24.1
40	64QAM	1	1	20.73	20.88	20.74	22.6
40	256QAM	1	1	18.19	18.34	18.32	20.6
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.41	22.45	22.40	24.1
Channel				344000	346000	348000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.36	22.54	22.48	24.1
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	22.36	22.40	22.45	24.1
Channel				343000	349000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.44	22.51	22.41	24.1
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.40	22.40	22.46	24.1

n66_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				346000	349000	352000	
Frequency (MHz)				1725	1745	1760	
40	PI2 BPSK	1	1	21.54	21.54	21.58	
40	PI2 BPSK	1	108	22.10	22.12	22.04	22.7
40	PI2 BPSK	1	214	21.61	21.59	21.58	
40	PI2 BPSK	108	0	22.12	22.14	22.00	22.7
40	PI2 BPSK	108	54	22.07	22.86	22.01	22.7
40	PI2 BPSK	108	108	22.09	22.78	22.12	
40	PI2 BPSK	216	0	22.10	22.15	22.06	22.7
40	QPSK	1	1	21.31	21.44	21.36	
40	QPSK	1	108	21.85	22.17	22.01	22.7
40	QPSK	1	214	21.62	21.59	21.60	
40	QPSK	108	0	21.93	22.10	22.00	22.7
40	QPSK	108	54	21.96	22.15	22.04	22.7
40	QPSK	108	108	21.94	22.10	22.02	22.7
40	QPSK	216	0	21.91	22.11	22.03	
40	16QAM	1	1	21.28	21.23	21.20	22.7
40	64QAM	1	1	18.63	18.78	18.76	21.2
40	256QAM	1	1	18.25	18.27	18.29	19.2
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	21.43	21.48	21.50	22.7
Channel				344000	346000	348000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	21.43	21.54	21.45	22.7
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	21.42	21.46	21.46	22.7
Channel				343000	349000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	21.53	21.43	21.53	22.7
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	21.52	21.50	21.50	22.7



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519996			
				2590.02	2595	2599.98			
Frequency (MHz)									
40	Pl2 BPSK	1	1	20.07	20.05	20.12	21.5	0.0	
40	Pl2 BPSK	1	53	20.48	20.54	20.45			
40	Pl2 BPSK	1	104	20.18	20.13	20.13			
40	Pl2 BPSK	50	0	20.47	20.42	20.38	21.5	0.0	
40	Pl2 BPSK	50	28	20.51	20.54	20.41	21.5	0.0	
40	Pl2 BPSK	50	56	20.43	20.48	20.55	21.5	0.0	
40	Pl2 BPSK	100	0	20.36	20.47	20.46			
40	QPSK	1	1	20.11	20.07	20.02	21.5	0.0	
40	QPSK	1	53	20.41	20.56	20.45			
40	QPSK	1	104	19.98	20.10	20.07			
40	QPSK	50	0	20.30	20.42	20.43	21.5	0.0	
40	QPSK	50	28	20.46	20.55	20.50	21.5	0.0	
40	QPSK	50	56	20.33	20.45	20.43	21.5	0.0	
40	QPSK	100	0	20.43	20.49	20.41	21.5	0.0	
40	16QAM	1	1	18.76	18.85	18.86	21.5	0.0	
40	16QAM	1	1	18.93	18.86	18.75	21.5	0.0	
40	256QAM	1	1	18.95	20.00	20.07	21.0	0.5	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	20.00	19.96	20.03	21.5	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	20.01	19.92	20.08	21.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519996			
				2590.02	2595	2599.98			
Frequency (MHz)									
40	Pl2 BPSK	1	1	19.04	19.00	19.05	20.9	0.0	
40	Pl2 BPSK	1	53	19.50	19.49	19.45			
40	Pl2 BPSK	1	104	19.11	19.07	19.09			
40	Pl2 BPSK	50	0	19.42	19.36	19.37	20.9	0.0	
40	Pl2 BPSK	50	28	19.49	19.52	19.49	20.9	0.0	
40	Pl2 BPSK	50	56	19.27	19.36	19.31	20.9	0.0	
40	Pl2 BPSK	100	0	19.29	19.39	19.41			
40	QPSK	1	1	19.02	19.05	19.02	20.9	0.0	
40	QPSK	1	53	19.41	19.53	19.46			
40	QPSK	1	104	19.03	19.02	19.08			
40	QPSK	50	0	19.24	19.36	19.40	20.9	0.0	
40	QPSK	50	28	19.45	19.51	19.40	20.9	0.0	
40	QPSK	50	56	19.27	19.39	19.35	20.9	0.0	
40	QPSK	100	0	19.28	19.36	19.29	20.9	0.0	
40	16QAM	1	1	18.05	18.01	18.06	20.9	0.0	
40	16QAM	1	1	18.16	18.09	18.07	20.9	0.0	
40	256QAM	1	1	18.87	18.94	19.01	20.4	0.5	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	19.04	19.02	19.04	20.9	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	19.04	19.01	19.00	20.9	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519996			
				2590.02	2595	2599.98			
Frequency (MHz)									
40	Pl2 BPSK	1	1	18.33	18.22	18.25	20.2	0.0	
40	Pl2 BPSK	1	53	18.52	18.53	18.45			
40	Pl2 BPSK	1	104	18.33	18.22	18.23			
40	Pl2 BPSK	50	0	18.42	18.64	18.40	20.2	0.0	
40	Pl2 BPSK	50	28	18.69	18.55	18.51	20.2	0.0	
40	Pl2 BPSK	50	56	18.59	18.58	18.58	20.2	0.0	
40	Pl2 BPSK	100	0	18.55	18.69	18.55			
40	QPSK	1	1	18.20	18.33	18.27	20.2	0.0	
40	QPSK	1	53	18.70	18.75	18.70			
40	QPSK	1	104	18.25	18.29	18.25			
40	QPSK	50	0	18.47	18.48	18.42	20.2	0.0	
40	QPSK	50	28	18.54	18.71	18.60	20.2	0.0	
40	QPSK	50	56	18.62	18.52	18.40	20.2	0.0	
40	QPSK	100	0	18.46	18.66	18.27	20.2	0.0	
40	16QAM	1	1	18.29	18.25	18.22	20.2	0.0	
40	16QAM	1	1	18.20	18.23	18.26	20.2	0.0	
40	256QAM	1	1	18.31	18.57	18.31	20.2	0.0	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	18.29	18.27	18.25	20.2	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	18.24	18.28	18.27	20.2	0.0	



n38_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				516004	516000	516996				
Frequency (MHz)				2560.02	2595	2599.98				
40	PI2 BPSK	1	1	21.86	21.93	21.88				
40	PI2 BPSK	1	53	22.41	22.55	22.46	23.6	0.0		
40	PI2 BPSK	1	104	22.16	22.17	22.10				
40	PI2 BPSK	50	0	22.52	22.28	22.19	23.6	0.0		
40	PI2 BPSK	50	28	22.52	22.57	22.47	23.6	0.0		
40	PI2 BPSK	50	56	22.28	22.38	22.34				
40	PI2 BPSK	100	0	22.39	22.38	22.45	23.6	0.0		
40	QPSK	1	1	22.00	21.96	21.94				
40	QPSK	1	53	22.44	22.58	22.44	23.6	0.0		
40	QPSK	1	104	21.99	22.11	21.99				
40	QPSK	50	0	22.18	22.25	22.25				
40	QPSK	50	28	22.45	22.52	22.40	23.6	0.0		
40	QPSK	50	56	22.31	22.31	22.25				
40	QPSK	100	0	22.43	22.47	22.34	23.6	0.0		
40	8QAM	1	1	21.84	21.78	21.71	23.6	0.0		
40	8QAM	1	1	20.38	20.38	20.26	22.1	1.5		
40	256QAM	1	1	18.84	18.97	18.96	20.1	3.5		
Channel										
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2563.01	2595	2628.99				
30	QPSK	1	1	21.90	21.92	21.88	23.6	0.0		
Channel										
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2560	2595	2610				
20	QPSK	1	1	21.82	21.83	21.85	23.6	0.0		

n41_FCC_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2546.01	2592.99	2640				
100	PI2 BPSK	1	1	19.56	19.60	19.58				
100	PI2 BPSK	1	137	20.39	20.50	20.38	21.5	0.0		
100	PI2 BPSK	1	271	19.61	19.69	19.68				
100	PI2 BPSK	135	0	20.28	20.25	20.17	21.5	0.0		
100	PI2 BPSK	135	69	20.53	20.55	20.45	21.5	0.0		
100	PI2 BPSK	135	138	20.24	20.35	20.34	21.5	0.0		
100	PI2 BPSK	270	0	20.21	20.31	20.27	21.5	0.0		
100	QPSK	1	1	19.53	19.57	19.54				
100	QPSK	1	137	20.51	20.57	20.50	21.5	0.0		
100	QPSK	1	271	19.72	19.66	19.56				
100	QPSK	135	0	20.34	20.28	20.22				
100	QPSK	135	69	20.52	20.55	20.44	21.5	0.0		
100	QPSK	135	138	20.41	20.38	20.27				
100	QPSK	270	0	20.23	20.47	20.26	21.5	0.0		
100	8QAM	1	1	19.52	19.54	19.56	21.5	0.0		
100	8QAM	1	1	19.55	19.55	19.51	21.5	0.0		
100	256QAM	1	1	19.44	19.49	19.45	21.0	0.5		
Channel										
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2641.98				
90	QPSK	1	1	19.53	19.58	19.56	21.5	0.0		
Channel										
Frequency (MHz)				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2592.99	2643.98				
80	QPSK	1	1	19.52	19.58	19.50	21.5	0.0		
Channel										
Frequency (MHz)				2536	2592.99	2643.98	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.50	19.51	19.57	21.5	0.0		
Channel										
Frequency (MHz)				504204	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2522.02	2592.99	2643.98				
50	QPSK	1	1	19.56	19.52	19.59	21.5	0.0		
Channel										
Frequency (MHz)				503202	518598	530000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2516.01	2592.99	2610				
40	QPSK	1	1	19.54	19.51	19.53	21.5	0.0		
Channel										
Frequency (MHz)				502200	518598	530996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2511	2592.99	2614.98				
30	QPSK	1	1	19.52	19.59	19.56	21.5	0.0		
Channel										
Frequency (MHz)				501204	518598	530996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506.02	2592.99	2619.99				
20	QPSK	1	1	19.53	19.53	19.51	21.5	0.0		

n41_FCC_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2546.01	2592.99	2640				
100	PI2 BPSK	1	1	19.09	19.05	18.98				
100	PI2 BPSK	1	137	19.57	19.59	19.61	20.9	0.0		
100	PI2 BPSK	1	271	19.00	19.92	19.98				
100	PI2 BPSK	135	0	19.46	19.42	19.46	20.9	0.0		
100	PI2 BPSK	135	69	19.57	19.61	19.58	20.9	0.0		
100	PI2 BPSK	135	138	19.35	19.39	19.45	20.9	0.0		
100	PI2 BPSK	270	0	19.47	19.40	19.34				
100	QPSK	1	1	18.96	19.02	19.04				
100	QPSK	1	137	19.54	19.62	19.52	20.9	0.0		
100	QPSK	1	271	18.91	18.94	18.91				
100	QPSK	135	0	19.42	19.43	19.34				
100	QPSK	135	69	19.55	19.60	19.51	20.9	0.0		
100	QPSK	135	138	19.33	19.36	19.36				
100	QPSK	270	0	19.42	19.45	19.36	20.9	0.0		
100	8QAM	1	1	18.92	18.96	18.95	20.9	0.0		
100	8QAM	1	1	18.94	18.97	18.96	20.9	0.0		
100	256QAM	1	1	18.71	18.72	18.77	20.4	0.5		
Channel										
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2641.98				
90	QPSK	1	1	19.08	19.09	19.00	20.9	0.0		
Channel										
Frequency (MHz)				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2592.99	2643.98				
80	QPSK	1	1	19.06	19.07	18.97	20.9	0.0		
Channel										
Frequency (MHz)				2536	2592.99	2643.98	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.15	19.03	19.01	20.9	0.0		
Channel										
Frequency (MHz)				504204	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2522.02	2592.99	2643.98				
50	QPSK	1	1	19.13	19.01	18.94	20.9	0.0		
Channel										
Frequency (MHz)				503202	518598	530000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2516.01	2592.99	2610				
40	QPSK	1	1	19.15	19.03	19.01	20.9	0.0		
Channel										
Frequency (MHz)				502200	518598	530996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2511	2592.99	2614.98				
30	QPSK	1	1	19.13	19.07	19.02	20.9	0.0		
Channel										
Frequency (MHz)				501204	518598	530996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506.02	2592.99	2619.99				
20	QPSK	1	1	19.08	19.08	18.91	20.9	0.0		



n41_FCC_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2566.01	2562.99	2640			
100	PI2 BPSK	1	1	17.25	17.38	17.28			
100	PI2 BPSK	1	137	17.74	17.74	17.74	19.2	0.0	
100	PI2 BPSK	1	211	17.24	17.32	17.21			
100	PI2 BPSK	135	0	17.57	17.65	17.71	19.2	0.0	
100	PI2 BPSK	135	69	17.79	17.86	17.76	19.2	0.0	
100	PI2 BPSK	135	138	17.65	17.78	17.69	19.2	0.0	
100	PI2 BPSK	210	0	17.70	17.75	17.69			
100	QPSK	1	1	17.29	17.24	17.29			
100	QPSK	1	137	17.69	17.69	17.76	19.2	0.0	
100	QPSK	1	271	17.35	17.29	17.31			
100	QPSK	135	0	17.71	17.70	17.70			
100	QPSK	135	69	17.63	17.65	17.75	19.2	0.0	
100	QPSK	135	138	17.82	17.78	17.65			
100	QPSK	270	0	17.84	17.81	17.69	19.2	0.0	
100	16QAM	1	1	17.27	17.32	17.25	19.2	0.0	
100	64QAM	1	1	17.24	17.20	17.24	19.2	0.0	
100	256QAM	1	1	17.40	17.44	17.45	19.2	0.0	
Channel									
Frequency (MHz)				5092.00	5189.88	5299.96	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
50	QPSK	1	1	17.25	17.27	17.25	19.2	0.0	
Channel									
Frequency (MHz)				5072.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	17.26	17.32	17.31	19.2	0.0	
Channel									
Frequency (MHz)				5052.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2658.98			
60	QPSK	1	1	17.25	17.38	17.29	19.2	0.0	
Channel									
Frequency (MHz)				5032.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.24	17.24	17.25	19.2	0.0	
Channel									
Frequency (MHz)				5022.00	5189.88	5299.96	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.24	17.30	17.31	19.2	0.0	
Channel									
Frequency (MHz)				5012.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.27	17.34	17.29	19.2	0.0	

n41_FCC_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2566.01	2562.99	2640			
100	PI2 BPSK	1	1	21.17	21.15	21.10			
100	PI2 BPSK	1	137	21.84	21.85	22.02	23.1	0.0	
100	PI2 BPSK	1	211	21.18	21.21	21.11			
100	PI2 BPSK	135	0	21.68	21.78	21.77	23.1	0.0	
100	PI2 BPSK	135	69	21.98	21.91	21.99	23.1	0.0	
100	PI2 BPSK	135	138	21.74	21.83	21.83	23.1	0.0	
100	PI2 BPSK	210	0	21.76	21.83	21.77			
100	QPSK	1	1	21.11	21.14	21.11			
100	QPSK	1	137	21.84	22.08	21.84	23.1	0.0	
100	QPSK	1	271	21.16	21.27	21.15			
100	QPSK	135	0	21.72	21.79	21.80			
100	QPSK	135	69	22.03	22.05	22.05	23.1	0.0	
100	QPSK	135	138	21.69	21.79	21.73			
100	QPSK	270	0	21.70	21.87	21.87	23.1	0.0	
100	16QAM	1	1	21.17	21.21	21.11	23.1	0.0	
100	64QAM	1	1	20.17	20.19	20.16	22.1	1.0	
100	256QAM	1	1	18.39	18.33	18.32	20.1	3.0	
Channel									
Frequency (MHz)				5092.00	5189.88	5299.96	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
50	QPSK	1	1	21.25	21.32	21.27	23.1	0.0	
Channel									
Frequency (MHz)				5072.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	21.31	21.32	21.24	23.1	0.0	
Channel									
Frequency (MHz)				5052.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2658.98			
60	QPSK	1	1	21.36	21.32	21.19	23.1	0.0	
Channel									
Frequency (MHz)				5032.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.24	21.33	21.24	23.1	0.0	
Channel									
Frequency (MHz)				5022.00	5189.88	5299.96	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.37	21.35	21.20	23.1	0.0	
Channel									
Frequency (MHz)				5012.04	5189.88	5299.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.25	21.29	21.21	23.1	0.0	

Part27Q_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	17.17					
100	PI2 BPSK	1	137	17.81			18.4	0.0	
100	PI2 BPSK	1	211	17.05					
100	PI2 BPSK	135	0	17.78			18.4	0.0	
100	PI2 BPSK	135	69	17.83			18.4	0.0	
100	PI2 BPSK	135	138	17.67			18.4	0.0	
100	PI2 BPSK	210	0	17.72					
100	QPSK	1	1	17.13					
100	QPSK	1	137	17.86			18.4	0.0	
100	QPSK	1	271	17.75					
100	QPSK	135	0	17.74					
100	QPSK	135	69	17.82			18.4	0.0	
100	QPSK	135	138	17.67					
100	QPSK	270	0	17.78			18.4	0.0	
100	16QAM	1	1	16.84			18.4	0.0	
100	64QAM	1	1	16.88			18.4	0.0	
100	256QAM	1	1	17.51			18.4	0.0	
Channel									
Frequency (MHz)				6330.00	6333.32	6336.66	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499	3499.98	3504.99			
50	QPSK	1	1	16.69	16.79	16.66	18.4	0.0	
Channel									
Frequency (MHz)				6306.68	6333.32	6340.00	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	16.66	16.61	16.63	18.4	0.0	
Channel									
Frequency (MHz)				6300.00	6333.32	6346.66	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	16.77	16.78	16.69	18.4	0.0	
Channel									
Frequency (MHz)				6319.68	6333.32	6350.00	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.74	16.70	16.65	18.4	0.0	
Channel									
Frequency (MHz)				6313.34	6333.32	6353.32	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	17.06	16.98	16.92	18.4	0.0	



Part27Q_n77(HPUe)_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	19.50				
100	Pl2 BPSK	1	137	20.35			21.4	0.0
100	Pl2 BPSK	1	271	19.51				
100	Pl2 BPSK	135	0	20.22			21.4	0.0
100	Pl2 BPSK	135	69	20.38			21.4	0.0
100	Pl2 BPSK	135	138	20.23			21.4	0.0
100	Pl2 BPSK	270	0	20.24				
100	QPSK	1	1	19.51				
100	QPSK	1	137	20.45			21.4	0.0
100	QPSK	1	271	19.50				
100	QPSK	135	0	20.22			21.4	0.0
100	QPSK	135	69	20.43				
100	QPSK	135	138	20.23				
100	QPSK	270	0	20.20			21.4	0.0
100	16QAM	1	1	19.55			21.4	0.0
100	16QAM	1	1	19.53			21.4	0.0
100	256QAM	1	1	19.50			21.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.69	19.60	19.50	21.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.10	19.17	19.52	21.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.89	19.69	19.51	21.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631960	633332	633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3474.02	3469.98	3505	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.89	19.73	19.70	21.4	0.0

Part27O_n77_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	17.02	17.00	17.35		
100	Pl2 BPSK	1	137	17.82	17.70	17.79	18.4	0.0
100	Pl2 BPSK	1	271	16.96	17.10	17.14		
100	Pl2 BPSK	135	0	17.50	17.65	17.67	18.4	0.0
100	Pl2 BPSK	135	69	17.84	17.82	17.73	18.4	0.0
100	Pl2 BPSK	135	138	17.62	17.75	17.77	18.4	0.0
100	Pl2 BPSK	270	0	17.51	17.65	17.53		
100	QPSK	1	1	16.94	16.96	16.94		
100	QPSK	1	137	17.71	17.85	17.68	18.4	0.0
100	QPSK	1	271	17.90	17.01	17.85		
100	QPSK	135	0	17.52	17.63	17.51		
100	QPSK	135	69	17.70	17.81	17.65	18.4	0.0
100	QPSK	135	138	17.84	17.68	17.62		
100	QPSK	270	0	17.48	17.58	17.56	18.4	0.0
100	16QAM	1	1	16.74	16.69	16.63	18.4	0.0
100	16QAM	1	1	16.69	16.72	16.68	18.4	0.0
100	256QAM	1	1	17.24	17.25	17.15	18.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.70	16.50	16.56	18.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.08	16.07	16.62	18.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	649668	650000	653332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.85	16.90	16.93	18.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.95	17.02	16.89	18.4	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	649000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.65	16.75	16.03	18.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	654666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.79	17.22	17.04	18.4	0.0

Part27O_n77(HPUe)_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	19.72	19.73	19.71		
100	Pl2 BPSK	1	137	20.65	20.67	20.69	21.4	0.0
100	Pl2 BPSK	1	271	19.73	19.70	19.61		
100	Pl2 BPSK	135	0	20.46	20.52	20.52	21.4	0.0
100	Pl2 BPSK	135	69	20.68	20.66	20.63	21.4	0.0
100	Pl2 BPSK	135	138	20.41	20.52	20.41	21.4	0.0
100	Pl2 BPSK	270	0	20.51	20.48	20.40		
100	QPSK	1	1	19.62	19.61	19.58		
100	QPSK	1	137	20.55	20.70	20.63	21.4	0.0
100	QPSK	1	271	19.64	19.66	19.59		
100	QPSK	135	0	20.44	20.42	20.39		
100	QPSK	135	69	20.54	20.65	20.50	21.4	0.0
100	QPSK	135	138	20.37	20.47	20.36		
100	QPSK	270	0	20.27	20.61	20.29	21.4	0.0
100	16QAM	1	1	19.76	19.79	19.76	21.4	0.0
100	16QAM	1	1	19.81	19.78	19.74	21.4	0.0
100	256QAM	1	1	19.71	19.68	19.71	21.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.57	19.67	19.54	21.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.59	19.68	19.60	21.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	649668	650000	653332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.77	19.96	19.87	21.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.06	20.12	19.99	21.4	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	649000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.93	19.92	19.68	21.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	654666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.12	20.13	20.15	21.4	0.0



Part27Q_n78_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.88				
100	PI2 BPSK	1	137	16.63			17.4	0.0
100	PI2 BPSK	1	271	15.76				
100	PI2 BPSK	135	0	16.46			17.4	0.0
100	PI2 BPSK	135	69	16.83			17.4	0.0
100	PI2 BPSK	135	138	16.47			17.4	0.0
100	PI2 BPSK	270	0	16.43				
100	QPSK	1	1	15.86				
100	QPSK	1	137	16.73			17.4	0.0
100	QPSK	1	271	15.88				
100	QPSK	135	0	16.55			17.4	0.0
100	QPSK	135	69	16.08				
100	QPSK	135	138	16.51			17.4	0.0
100	QPSK	270	0	16.65			17.4	0.0
100	8QAM	1	1	15.76			17.4	0.0
100	8QAM	1	1	15.82			17.4	0.0
100	256QAM	1	1	16.38			17.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.58	15.57	15.72	17.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.83	15.88	15.60	17.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.83	15.88	15.60	17.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.97	16.04	15.95	17.4	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.78	15.52	15.73	17.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.81	16.11	15.88	17.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.28	16.16	15.91	17.4	0.0

Part27Q_n78(HPUe)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.62				
100	PI2 BPSK	1	137	16.25			20.4	0.0
100	PI2 BPSK	1	271	16.52				
100	PI2 BPSK	135	0	16.24			20.4	0.0
100	PI2 BPSK	135	69	16.30			20.4	0.0
100	PI2 BPSK	135	138	16.18			20.4	0.0
100	PI2 BPSK	270	0	16.19				
100	QPSK	1	1	16.05				
100	QPSK	1	137	16.36			20.4	0.0
100	QPSK	1	271	16.42				
100	QPSK	135	0	16.05			20.4	0.0
100	QPSK	135	69	16.33				
100	QPSK	135	138	16.35			20.4	0.0
100	QPSK	270	0	16.32			20.4	0.0
100	8QAM	1	1	16.94			20.4	0.0
100	8QAM	1	1	16.85			20.4	0.0
100	256QAM	1	1	16.80			20.4	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.82	16.54	16.83	20.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.76	16.83	16.72	20.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.61	16.69	16.62	20.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.58	16.58	16.56	20.4	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.72	16.93	16.83	20.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.82	16.76	16.73	20.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.92	16.84	16.81	20.4	0.0

Part270_n78_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.52				
100	PI2 BPSK	1	137	16.57			17.4	0.0
100	PI2 BPSK	1	271	15.79				
100	PI2 BPSK	135	0	16.22			17.4	0.0
100	PI2 BPSK	135	69	16.58			17.4	0.0
100	PI2 BPSK	135	138	16.39			17.4	0.0
100	PI2 BPSK	270	0	16.43				
100	QPSK	1	1	15.51				
100	QPSK	1	137	16.64			17.4	0.0
100	QPSK	1	271	15.88				
100	QPSK	135	0	16.17			17.4	0.0
100	QPSK	135	69	16.81				
100	QPSK	135	138	16.32			17.4	0.0
100	QPSK	270	0	16.55			17.4	0.0
100	8QAM	1	1	15.54			17.4	0.0
100	8QAM	1	1	15.56			17.4	0.0
100	256QAM	1	1	16.12			17.4	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.51	15.83	15.57	17.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.57	15.88	15.71	17.4	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.63	15.82	15.72	17.4	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.77	15.88	15.92	17.4	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.74	15.72	15.93	17.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.13	15.96	15.81	17.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.07	16.14	15.88	17.4	0.0



Part270_n78(HPUe)_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.63	650000	650332		
100	PI2 BPSK	1	137	19.62	378.66	378.66	20.4	0.0
100	PI2 BPSK	1	211	19.03				
100	PI2 BPSK	135	0	19.36			20.4	0.0
100	PI2 BPSK	135	69	19.81			20.4	0.0
100	PI2 BPSK	135	138	19.64			20.4	0.0
100	PI2 BPSK	270	0	19.54				
100	QPSK	1	1	18.55				
100	QPSK	1	137	19.73			20.4	0.0
100	QPSK	1	271	18.97				
100	QPSK	135	0	19.41				
100	QPSK	135	69	19.68			20.4	0.0
100	QPSK	135	138	19.83				
100	QPSK	270	0	19.65			20.4	0.0
100	16QAM	1	1	19.44			20.4	0.0
100	16QAM	1	1	18.69			20.4	0.0
100	256QAM	1	1	18.68			20.4	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649688	650000	650332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.02	3750	3759.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.62	650000	650332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.89	650000	650332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	647968	650000	650332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.92	650000	650332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.00	650000	650332	Tune-up limit (dBm)	MPR (dB)

Part27Q_n77_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.32	633000	633332		
100	PI2 BPSK	1	137	20.21	3499.98	3499.98	21.3	0.0
100	PI2 BPSK	1	211	19.31				
100	PI2 BPSK	135	0	20.03			21.3	0.0
100	PI2 BPSK	135	69	20.16			21.3	0.0
100	PI2 BPSK	135	138	19.96			21.3	0.0
100	PI2 BPSK	270	0	20.00				
100	QPSK	1	1	19.34				
100	QPSK	1	137	20.27			21.3	0.0
100	QPSK	1	271	19.32				
100	QPSK	135	0	19.99				
100	QPSK	135	69	20.25			21.3	0.0
100	QPSK	135	138	19.97				
100	QPSK	270	0	20.22			21.3	0.0
100	16QAM	1	1	19.49			21.3	0.0
100	16QAM	1	1	19.32			21.3	0.0
100	256QAM	1	1	19.66			21.3	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3490.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.17	633000	633332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.71	633000	633332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.00	633000	633332	Tune-up limit (dBm)	MPR (dB)

Part27Q_n77(HPUe)_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.53	633000	633332		
100	PI2 BPSK	1	137	23.29	3499.98	3499.98	24.3	0.0
100	PI2 BPSK	1	211	22.35				
100	PI2 BPSK	135	0	23.22			24.3	0.0
100	PI2 BPSK	135	69	23.26			24.3	0.0
100	PI2 BPSK	135	138	23.16			24.3	0.0
100	PI2 BPSK	270	0	23.21				
100	QPSK	1	1	22.45				
100	QPSK	1	137	23.37			24.3	0.0
100	QPSK	1	271	22.48				
100	QPSK	135	0	23.26				
100	QPSK	135	69	23.34			24.3	0.0
100	QPSK	135	138	23.17				
100	QPSK	270	0	23.28			24.3	0.0
100	16QAM	1	1	22.71			24.3	0.0
100	16QAM	1	1	22.13			23.8	0.5
100	256QAM	1	1	20.11			21.8	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3490.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.04	633000	633332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.58	633000	633332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.01	633000	633332	Tune-up limit (dBm)	MPR (dB)



Part270_n77_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3760	3840	3920		
100	PI2 BPSK	1	1	19.17	19.17	19.01	21.3	0.0
100	PI2 BPSK	1	137	19.78	19.83	19.73		
100	PI2 BPSK	1	271	19.15	19.15	19.10		
100	PI2 BPSK	135	0	19.69	19.73	19.73	21.3	0.0
100	PI2 BPSK	135	69	19.76	19.82	19.72	21.3	0.0
100	PI2 BPSK	135	138	19.83	19.88	19.81	21.3	0.0
100	PI2 BPSK	270	0	19.68	19.77	19.79		
100	QPSK	1	1	19.10	19.15	19.11		
100	QPSK	1	137	19.50	19.53	19.52	21.3	0.0
100	QPSK	1	271	19.20	19.22	19.13		
100	QPSK	135	0	19.70	19.74	19.66		
100	QPSK	135	69	19.52	19.58	19.56	21.3	0.0
100	QPSK	135	138	19.81	19.88	19.77		
100	QPSK	270	0	19.88	19.88	19.79	21.3	0.0
100	16QAM	1	1	19.01	19.03	19.02	21.3	0.0
100	16QAM	1	1	19.05	19.08	19.03	21.3	0.0
100	256QAM	1	1	19.36	19.27	19.12	21.3	0.0
Channel								
Frequency (MHz)				649688	656000	662332	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3743.02	3840	3924.98	21.3	0.0
Channel								
Frequency (MHz)				649334	656000	662686	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3929.99	21.3	0.0
Channel								
Frequency (MHz)				3740.01	3840	3929.99	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.13	19.22	19.25	21.3	0.0
Channel								
Frequency (MHz)				649334	656000	662686	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.48	19.56	19.63	21.3	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.40	19.44	19.43	21.3	0.0
Channel								
Frequency (MHz)				647334	656000	664666	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.22	19.27	19.33	21.3	0.0

Part270_n77(HPUe)_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3760	3840	3920		
100	PI2 BPSK	1	1	22.00	22.04	22.28	24.3	0.0
100	PI2 BPSK	1	137	22.75	22.83	22.76		
100	PI2 BPSK	1	271	22.08	22.08	22.04		
100	PI2 BPSK	135	0	22.57	22.63	22.65	24.3	0.0
100	PI2 BPSK	135	69	22.79	22.86	22.79	24.3	0.0
100	PI2 BPSK	135	138	22.72	22.82	22.82	24.3	0.0
100	PI2 BPSK	270	0	22.72	22.71	22.81		
100	QPSK	1	1	22.02	22.03	22.01		
100	QPSK	1	137	22.84	22.94	22.94	24.3	0.0
100	QPSK	1	271	22.07	22.06	22.02		
100	QPSK	135	0	22.71	22.71	22.71		
100	QPSK	135	69	22.58	22.92	22.87	24.3	0.0
100	QPSK	135	138	22.77	22.83	22.76		
100	QPSK	270	0	22.82	22.86	22.78	24.3	0.0
100	16QAM	1	1	22.00	22.04	22.09	24.3	0.0
100	16QAM	1	1	21.55	21.59	21.61	23.8	0.5
100	256QAM	1	1	19.58	19.53	19.58	21.8	2.5
Channel								
Frequency (MHz)				649688	656000	662332	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3743.02	3840	3924.98	24.3	0.0
Channel								
Frequency (MHz)				649334	656000	662686	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3929.99	24.3	0.0
Channel								
Frequency (MHz)				3740.01	3840	3929.99	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.27	22.40	22.43	24.3	0.0
Channel								
Frequency (MHz)				649334	656000	662686	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.45	22.51	22.54	24.3	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.19	22.24	22.30	24.3	0.0
Channel								
Frequency (MHz)				647334	656000	664666	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.62	22.74	22.71	24.3	0.0

Part270_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	PI2 BPSK	1	1	19.49			21.3	0.0
100	PI2 BPSK	1	137	20.16				
100	PI2 BPSK	1	271	19.51				
100	PI2 BPSK	135	0	20.16			21.3	0.0
100	PI2 BPSK	135	69	20.17			21.3	0.0
100	PI2 BPSK	135	138	20.01			21.3	0.0
100	PI2 BPSK	270	0	20.07				
100	QPSK	1	1	19.48				
100	QPSK	1	137	20.26			21.3	0.0
100	QPSK	1	271	19.88				
100	QPSK	135	0	20.13				
100	QPSK	135	69	20.22			21.3	0.0
100	QPSK	135	138	19.98				
100	QPSK	270	0	20.20			21.3	0.0
100	16QAM	1	1	19.35			21.3	0.0
100	16QAM	1	1	19.31			21.3	0.0
100	256QAM	1	1	19.88			21.3	0.0
Channel								
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3496	3499.98	3504.98	21.3	0.0
Channel								
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3499.98	3510	21.3	0.0
Channel								
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.87	19.80	19.89	21.3	0.0
Channel								
Frequency (MHz)				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.90	19.95	19.95	21.3	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.74	19.68	19.84	21.3	0.0
Channel								
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.86	19.81	19.86	21.3	0.0
Channel								
Frequency (MHz)				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.02	20.08	19.94	21.3	0.0



Part27Q_n78(HPUe)_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.51				
100	PI2 BPSK	1	137	23.28			24.3	0.0
100	PI2 BPSK	1	211	22.33				
100	PI2 BPSK	135	0	23.17			24.3	0.0
100	PI2 BPSK	135	69	23.22			24.3	0.0
100	PI2 BPSK	135	138	23.08			24.3	0.0
100	PI2 BPSK	270	0	23.13				
100	QPSK	1	1	22.46				
100	QPSK	1	137	23.31			24.3	0.0
100	QPSK	1	271	22.38				
100	QPSK	135	0	23.16			24.3	0.0
100	QPSK	135	69	23.27				
100	QPSK	135	138	23.04			24.3	0.0
100	QPSK	270	0	23.24			24.3	0.0
100	16QAM	1	1	22.79			24.3	0.0
100	16QAM	1	1	22.12			23.8	0.5
100	256QAM	1	1	20.07			21.8	2.5
Channel								
Frequency (MHz)								
633000				633332	633666		Tune-up limit (dBm)	MPR (dB)
3485				3488.68	3528.68			
90	QPSK	1	1	22.63	22.48	22.51	24.3	0.0
Channel								
Frequency (MHz)								
632668				633332	634000		Tune-up limit (dBm)	MPR (dB)
3480.02				3489.98	3510			
80	QPSK	1	1	22.03	22.24	22.53	24.3	0.0
Channel								
Frequency (MHz)								
632000				633332	633666		Tune-up limit (dBm)	MPR (dB)
3480				3489.98	3519.98			
60	QPSK	1	1	22.74	22.66	22.62	24.3	0.0
Channel								
Frequency (MHz)								
631960				633332	633000		Tune-up limit (dBm)	MPR (dB)
3475.02				3489.98	3505			
50	QPSK	1	1	22.87	22.75	22.71	24.3	0.0
Channel								
Frequency (MHz)								
631334				633332	633332		Tune-up limit (dBm)	MPR (dB)
3470.01				3489.98	3523.98			
40	QPSK	1	1	22.05	22.07	22.07	24.3	0.0
Channel								
Frequency (MHz)								
631000				633332	633666		Tune-up limit (dBm)	MPR (dB)
3465				3489.98	3534.98			
30	QPSK	1	1	22.77	22.78	22.72	24.3	0.0
Channel								
Frequency (MHz)								
630668				633332	633000		Tune-up limit (dBm)	MPR (dB)
3460.02				3489.98	3540			
20	QPSK	1	1	22.87	22.92	22.83	24.3	0.0

Part27O_n78_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.95				
100	PI2 BPSK	1	137	19.85			21.3	0.0
100	PI2 BPSK	1	211	19.03				
100	PI2 BPSK	135	0	19.85			21.3	0.0
100	PI2 BPSK	135	69	19.82			21.3	0.0
100	PI2 BPSK	135	138	19.72			21.3	0.0
100	PI2 BPSK	270	0	19.79				
100	QPSK	1	1	19.98				
100	QPSK	1	137	19.92			21.3	0.0
100	QPSK	1	271	19.04				
100	QPSK	135	0	19.82			21.3	0.0
100	QPSK	135	69	19.87				
100	QPSK	135	138	19.73			21.3	0.0
100	QPSK	270	0	19.85			21.3	0.0
100	16QAM	1	1	18.84			21.3	0.0
100	16QAM	1	1	18.83			21.3	0.0
100	256QAM	1	1	19.42			21.3	0.0
Channel								
Frequency (MHz)								
649668				650000	650332		Tune-up limit (dBm)	MPR (dB)
3743.02				3750	3784.98			
90	QPSK	1	1	19.32	19.34	19.34	21.3	0.0
Channel								
Frequency (MHz)								
649334				650000	650666		Tune-up limit (dBm)	MPR (dB)
3740.01				3750	3759.98			
80	QPSK	1	1	19.24	19.31	19.33	21.3	0.0
Channel								
Frequency (MHz)								
649668				650000	651332		Tune-up limit (dBm)	MPR (dB)
3730.02				3750	3769.98			
60	QPSK	1	1	19.38	19.33	19.35	21.3	0.0
Channel								
Frequency (MHz)								
649334				650000	651966		Tune-up limit (dBm)	MPR (dB)
3725.01				3750	3774.98			
50	QPSK	1	1	19.47	19.37	19.41	21.3	0.0
Channel								
Frequency (MHz)								
649000				650000	652000		Tune-up limit (dBm)	MPR (dB)
3720				3750	3760			
40	QPSK	1	1	19.25	19.33	19.23	21.3	0.0
Channel								
Frequency (MHz)								
647968				650000	652332		Tune-up limit (dBm)	MPR (dB)
3715.02				3750	3784.98			
30	QPSK	1	1	19.39	19.48	19.42	21.3	0.0
Channel								
Frequency (MHz)								
647334				650000	652666		Tune-up limit (dBm)	MPR (dB)
3710.01				3750	3789.98			
20	QPSK	1	1	19.71	19.04	19.82	21.3	0.0

Part27O_n78(HPUe)_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.23				
100	PI2 BPSK	1	137	22.79			24.3	0.0
100	PI2 BPSK	1	211	22.28				
100	PI2 BPSK	135	0	22.86			24.3	0.0
100	PI2 BPSK	135	69	22.78			24.3	0.0
100	PI2 BPSK	135	138	22.78			24.3	0.0
100	PI2 BPSK	270	0	22.86				
100	QPSK	1	1	22.26				
100	QPSK	1	137	22.89			24.3	0.0
100	QPSK	1	271	22.29				
100	QPSK	135	0	22.84			24.3	0.0
100	QPSK	135	69	22.88				
100	QPSK	135	138	22.74			24.3	0.0
100	QPSK	270	0	22.85			24.3	0.0
100	16QAM	1	1	22.24			24.3	0.0
100	16QAM	1	1	21.76			23.8	0.5
100	256QAM	1	1	19.75			21.8	2.5
Channel								
Frequency (MHz)								
649668				650000	650332		Tune-up limit (dBm)	MPR (dB)
3743.02				3750	3784.98			
90	QPSK	1	1	22.30	22.37	22.34	24.3	0.0
Channel								
Frequency (MHz)								
649334				650000	650666		Tune-up limit (dBm)	MPR (dB)
3740.01				3750	3759.98			
80	QPSK	1	1	22.31	22.31	22.45	24.3	0.0
Channel								
Frequency (MHz)								
649668				650000	651332		Tune-up limit (dBm)	MPR (dB)
3730.02				3750	3769.98			
60	QPSK	1	1	22.48	22.53	22.52	24.3	0.0
Channel								
Frequency (MHz)								
649334				650000	651966		Tune-up limit (dBm)	MPR (dB)
3725.01				3750	3774.98			
50	QPSK	1	1	22.57	22.59	22.56	24.3	0.0
Channel								
Frequency (MHz)								
649000				650000	652000		Tune-up limit (dBm)	MPR (dB)
3720				3750	3760			
40	QPSK	1	1	22.29	22.33	22.21	24.3	0.0
Channel								
Frequency (MHz)								
647968				650000	652332		Tune-up limit (dBm)	MPR (dB)
3715.02				3750	3784.98			
30	QPSK	1	1	22.50	22.60	22.54	24.3	0.0
Channel								
Frequency (MHz)								
647334				650000	652666		Tune-up limit (dBm)	MPR (dB)
3710.01				3750	3789.98			
20	QPSK	1	1	22.76	22.70	22.69	24.3	0.0



Part27Q_n77_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	19.82	3499.98			
100	Pl2 BPSK	1	137	20.85			21.5	0.0
100	Pl2 BPSK	1	211	20.00				
100	Pl2 BPSK	135	0	20.61			21.5	0.0
100	Pl2 BPSK	135	69	20.86			21.5	0.0
100	Pl2 BPSK	135	138	20.74			21.5	0.0
100	Pl2 BPSK	270	0	20.85				
100	QPSK	1	1	20.27				
100	QPSK	1	137	20.96			21.5	0.0
100	QPSK	1	271	20.41				
100	QPSK	135	0	20.86			21.5	0.0
100	QPSK	135	69	20.92				
100	QPSK	135	138					
100	QPSK	270	0	20.88			21.5	0.0
100	16QAM	1	1	20.05			21.5	0.0
100	16QAM	1	1	20.08			21.5	0.0
100	256QAM	1	1	20.10			21.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3498.98	3502.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3490.02	3499.98	3510		
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.06	20.15	20.23	21.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631860	63332	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3475.02	3499.98	3525		
Channel								
Frequency (MHz)								
20	QPSK	1	1	630968	63332	636000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.40	20.51	20.43	21.5	0.0

Part27Q_n77(HPUe)_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	22.92	3499.98			
100	Pl2 BPSK	1	137	23.85			24.5	0.0
100	Pl2 BPSK	1	211	23.03				
100	Pl2 BPSK	135	0	23.76			24.5	0.0
100	Pl2 BPSK	135	69	23.81			24.5	0.0
100	Pl2 BPSK	135	138	23.82			24.5	0.0
100	Pl2 BPSK	270	0	23.76				
100	QPSK	1	1	22.87				
100	QPSK	1	137	23.93			24.5	0.0
100	QPSK	1	271	23.03				
100	QPSK	135	0	23.74			24.5	0.0
100	QPSK	135	69	23.90				
100	QPSK	135	138	23.82				
100	QPSK	270	0	23.83			24.5	0.0
100	16QAM	1	1	23.12			24.5	0.0
100	16QAM	1	1	23.04			24.5	0.0
100	256QAM	1	1	23.10			24.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3498.98	3502.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3490.02	3499.98	3510		
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.04	23.11	23.17	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631860	63332	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3470.01	3499.98	3519.98		
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.22	23.18	23.22	24.5	0.0

Part270_n77_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	19.79	19.83	19.78		
100	Pl2 BPSK	1	137	20.89	20.88	20.79	21.5	0.0
100	Pl2 BPSK	1	211	20.06	20.01	19.99		
100	Pl2 BPSK	135	0	20.70	20.65	20.56	21.5	0.0
100	Pl2 BPSK	135	69	20.76	20.89	20.85	21.5	0.0
100	Pl2 BPSK	135	138	20.73	20.81	20.74	21.5	0.0
100	Pl2 BPSK	270	0	20.79	20.75	20.81		
100	QPSK	1	1	19.85	19.80	19.70		
100	QPSK	1	137	20.94	20.95	20.79	21.5	0.0
100	QPSK	1	271	20.01	20.01	19.88		
100	QPSK	135	0	20.83	20.83	20.67		
100	QPSK	135	69	20.93	20.92	20.77	21.5	0.0
100	QPSK	135	138	20.72	20.76	20.68		
100	QPSK	270	0	20.59	20.84	20.71	21.5	0.0
100	16QAM	1	1	19.53	19.56	19.58	21.5	0.0
100	16QAM	1	1	19.80	19.58	19.58	21.5	0.0
100	256QAM	1	1	20.01	20.13	20.09	21.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.00	3840	3934.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3938.98		
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.90	19.96	19.92	21.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3720.01	3840	3936		
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.04	20.14	20.15	21.5	0.0



Part270_n77(HPUE)_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	22.88	22.98	22.87	24.5	0.0
100	Pi/2 BPSK	1	137	23.85	23.97	23.92		
100	Pi/2 BPSK	1	221	23.15	23.11	23.09		
100	Pi/2 BPSK	135	0	23.72	23.73	23.59	24.5	0.0
100	Pi/2 BPSK	135	69	23.87	23.88	23.86	24.5	0.0
100	Pi/2 BPSK	135	138	23.78	23.85	23.81	24.5	0.0
100	Pi/2 BPSK	270	0	23.92	23.80	23.78	24.5	0.0
100	QPSK	1	1	22.78	22.88	22.91	24.5	0.0
100	QPSK	1	137	23.51	24.03	23.74	24.5	0.0
100	QPSK	1	271	23.03	23.08	22.99	24.5	0.0
100	QPSK	135	0	23.87	23.70	23.87	24.5	0.0
100	QPSK	135	69	23.91	23.95	23.91	24.5	0.0
100	QPSK	135	138	23.85	23.85	23.81	24.5	0.0
100	QPSK	270	0	23.89	23.91	23.89	24.5	0.0
100	16QAM	1	1	22.95	23.07	22.93	24.5	0.0
100	16QAM	1	1	22.89	23.03	22.96	24.5	0.0
100	256QAM	1	1	21.34	21.45	21.44	23.0	1.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.57	22.91	22.59	24.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.52	22.08	22.58	24.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.73	22.79	22.72	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.78	22.81	22.80	24.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.55	22.68	22.76	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.82	22.88	22.90	24.5	0.0

Part27Q_n78_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1		3499.98		21.0	0.0
100	Pi/2 BPSK	1	137		19.62			
100	Pi/2 BPSK	1	271		20.38			
100	Pi/2 BPSK	135	0		19.66		21.0	0.0
100	Pi/2 BPSK	135	69		20.21		21.0	0.0
100	Pi/2 BPSK	135	138		20.42		21.0	0.0
100	Pi/2 BPSK	270	0		20.33		21.0	0.0
100	QPSK	1	1		20.26		21.0	0.0
100	QPSK	1	137		19.66		21.0	0.0
100	QPSK	1	271		20.44		21.0	0.0
100	QPSK	135	0		19.70		21.0	0.0
100	QPSK	135	69		20.23		21.0	0.0
100	QPSK	135	138		20.41		21.0	0.0
100	QPSK	270	0		20.31		21.0	0.0
100	16QAM	1	1		19.44		21.0	0.0
100	16QAM	1	1		19.43		21.0	0.0
100	256QAM	1	1		20.06		21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.19	19.23	19.36	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.21	19.29	19.26	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.40	19.43	19.51	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.62	19.68	19.65	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.54	19.63	19.67	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.54	19.63	19.67	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.14	20.09	20.16	21.0	0.0

Part27Q_n78(HPUE)_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1		3499.98		24.0	0.0
100	Pi/2 BPSK	1	137		22.32			
100	Pi/2 BPSK	1	271		23.19			
100	Pi/2 BPSK	135	0		22.36		24.0	0.0
100	Pi/2 BPSK	135	69		23.08		24.0	0.0
100	Pi/2 BPSK	135	138		23.17		24.0	0.0
100	Pi/2 BPSK	270	0		23.15		24.0	0.0
100	QPSK	1	1		23.08		24.0	0.0
100	QPSK	1	137		23.30		24.0	0.0
100	QPSK	1	271		22.32		24.0	0.0
100	QPSK	135	0		23.08		24.0	0.0
100	QPSK	135	69		23.28		24.0	0.0
100	QPSK	135	138		23.18		24.0	0.0
100	QPSK	270	0		23.21		24.0	0.0
100	16QAM	1	1		22.48		24.0	0.0
100	16QAM	1	1		22.40		24.0	0.0
100	256QAM	1	1		21.33		23.0	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.47	22.47	22.56	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.42	22.46	22.47	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.51	22.47	22.50	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.54	22.60	22.55	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.55	22.53	22.45	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.79	22.83	23.01	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.99	23.00	23.04	24.0	0.0



Part270_n78_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3760								
100	PI2 BPSK	1	1	19.46				
100	PI2 BPSK	1	137	20.30			21.0	0.0
100	PI2 BPSK	1	271	19.60				
100	PI2 BPSK	135	0	20.17			21.0	0.0
100	PI2 BPSK	135	69	20.25			21.0	0.0
100	PI2 BPSK	135	138	20.19			21.0	0.0
100	PI2 BPSK	270	0	20.15				
100	QPSK	1	1	19.42				
100	QPSK	1	137	20.38			21.0	0.0
100	QPSK	1	271	19.57				
100	QPSK	135	0	20.09				
100	QPSK	135	69	20.32			21.0	0.0
100	QPSK	135	138					
100	QPSK	270	0	20.26			21.0	0.0
100	16QAM	1	1	19.22			21.0	0.0
100	16QAM	1	1	19.28			21.0	0.0
100	256QAM	1	1	19.81			21.0	0.0
Channel								
Frequency (MHz)								
649688								
80	QPSK	1	1	649688	650000	650332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3740.01								
80	QPSK	1	1	19.49	19.04	19.01	21.0	0.0
Channel								
Frequency (MHz)								
3730.02								
60	QPSK	1	1	19.77	19.83	19.87	21.0	0.0
Channel								
Frequency (MHz)								
3724.01								
50	QPSK	1	1	19.97	20.08	20.04	21.0	0.0
Channel								
Frequency (MHz)								
3720								
40	QPSK	1	1	19.53	19.51	19.95	21.0	0.0
Channel								
Frequency (MHz)								
3715.02								
30	QPSK	1	1	20.00	20.09	20.19	21.0	0.0
Channel								
Frequency (MHz)								
3710.01								
20	QPSK	1	1	20.14	20.24	20.31	21.0	0.0

Part270_n78(HPUE)_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3760								
100	PI2 BPSK	1	1	22.24				
100	PI2 BPSK	1	137	23.24			24.0	0.0
100	PI2 BPSK	1	271	22.40				
100	PI2 BPSK	135	0	23.08			24.0	0.0
100	PI2 BPSK	135	69	23.23			24.0	0.0
100	PI2 BPSK	135	138	23.21			24.0	0.0
100	PI2 BPSK	270	0	23.18				
100	QPSK	1	1	22.18				
100	QPSK	1	137	23.26			24.0	0.0
100	QPSK	1	271	22.31				
100	QPSK	135	0	23.06				
100	QPSK	135	69	23.26			24.0	0.0
100	QPSK	135	138	23.17				
100	QPSK	270	0	23.22			24.0	0.0
100	16QAM	1	1	22.47			24.0	0.0
100	16QAM	1	1	22.33			24.0	0.0
100	256QAM	1	1	21.23			24.0	1.0
Channel								
Frequency (MHz)								
649688								
80	QPSK	1	1	649688	650000	650332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3740.01								
80	QPSK	1	1	22.58	22.52	22.82	24.0	0.0
Channel								
Frequency (MHz)								
3730.02								
60	QPSK	1	1	22.72	22.71	22.71	24.0	0.0
Channel								
Frequency (MHz)								
3724.01								
50	QPSK	1	1	22.97	22.97	23.02	24.0	0.0
Channel								
Frequency (MHz)								
3720								
40	QPSK	1	1	22.61	22.70	22.63	24.0	0.0
Channel								
Frequency (MHz)								
3715.02								
30	QPSK	1	1	22.88	22.83	22.99	24.0	0.0
Channel								
Frequency (MHz)								
3710.01								
20	QPSK	1	1	23.07	23.10	23.19	24.0	0.0

Part270_n77_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3499.98								
100	PI2 BPSK	1	1	19.82				
100	PI2 BPSK	1	137	20.44			21.3	0.0
100	PI2 BPSK	1	271	19.81				
100	PI2 BPSK	135	0	20.38			21.3	0.0
100	PI2 BPSK	135	69	20.46			21.3	0.0
100	PI2 BPSK	135	138	20.31			21.3	0.0
100	PI2 BPSK	270	0	20.35				
100	QPSK	1	1	19.84				
100	QPSK	1	137	20.53			21.3	0.0
100	QPSK	1	271	19.81				
100	QPSK	135	0	20.33				
100	QPSK	135	69	20.45			21.3	0.0
100	QPSK	135	138	20.24				
100	QPSK	270	0	20.31			21.3	0.0
100	16QAM	1	1	19.43			20.8	0.5
100	16QAM	1	1	19.42			20.8	0.5
100	256QAM	1	1	19.01			20.3	1.0
Channel								
Frequency (MHz)								
633000								
80	QPSK	1	1	633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3480.02								
80	QPSK	1	1	19.83	19.82	19.84	21.3	0.0
Channel								
Frequency (MHz)								
3480.02								
60	QPSK	1	1	19.96	19.97	19.93	21.3	0.0
Channel								
Frequency (MHz)								
3474.01								
50	QPSK	1	1	20.13	20.12	20.08	21.3	0.0
Channel								
Frequency (MHz)								
3470								
40	QPSK	1	1	19.97	19.84	20.01	21.3	0.0
Channel								
Frequency (MHz)								
3460.02								
20	QPSK	1	1	20.26	20.29	20.33	21.3	0.0



Part27Q_n77(HPUe)_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PlZ BPSK	1	1	3499.98	3500	3500		
100	PlZ BPSK	1	137	22.64	22.64	22.64	24.3	0.0
100	PlZ BPSK	1	211	22.60	22.60	22.60	24.3	0.0
100	PlZ BPSK	135	0	23.38	23.38	23.38	24.3	0.0
100	PlZ BPSK	135	69	23.39	23.39	23.39	24.3	0.0
100	PlZ BPSK	135	138	23.28	23.28	23.28	24.3	0.0
100	PlZ BPSK	270	0	22.26	22.26	22.26	23.8	0.5
100	QPSK	1	1	22.57	22.57	22.57	22.3	2.0
100	QPSK	1	137	23.54	23.54	23.54	24.3	0.0
100	QPSK	1	271	22.48	22.48	22.48	24.3	0.0
100	QPSK	135	0	22.86	22.86	22.86	23.8	0.5
100	QPSK	135	69	23.46	23.46	23.46	24.3	0.0
100	QPSK	135	138	22.76	22.76	22.76	23.8	0.5
100	QPSK	270	0	22.86	22.86	22.86	23.8	0.5
100	8QAM	1	1	20.77	20.77	20.77	20.8	2.0
100	8QAM	1	1	18.85	18.85	18.85	20.3	4.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	633000	633332	633666		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3480.02	3489.98	3510		
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.84	23.00	23.03	24.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.02	23.08	23.00	24.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633332	635332		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3470.01	3489.98	3509.98		
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.24	23.21	23.21	24.3	0.0

Part27O_n77_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PlZ BPSK	1	1	3790	3840	3900		
100	PlZ BPSK	1	137	19.65	19.51	19.37	21.3	0.0
100	PlZ BPSK	1	271	20.47	20.21	20.18	21.3	0.0
100	PlZ BPSK	135	0	20.30	19.38	19.30	21.3	0.0
100	PlZ BPSK	135	69	20.42	20.27	20.27	21.3	0.0
100	PlZ BPSK	135	138	20.16	19.97	19.96	21.3	0.0
100	PlZ BPSK	270	0	20.24	20.07	20.01	21.3	0.0
100	QPSK	1	1	19.66	19.53	19.46	21.3	0.0
100	QPSK	1	137	20.48	20.26	20.00	21.3	0.0
100	QPSK	1	271	19.31	19.35	19.34	21.3	0.0
100	QPSK	135	0	20.32	20.15	19.98	21.3	0.0
100	QPSK	135	69	20.41	20.25	19.95	21.3	0.0
100	QPSK	135	138	20.19	20.02	19.95	21.3	0.0
100	QPSK	270	0	20.22	20.02	19.82	21.3	0.0
100	8QAM	1	1	19.36	19.26	19.23	20.8	0.5
100	8QAM	1	1	18.43	18.27	18.22	20.8	0.5
100	8QAM	1	1	18.88	18.87	18.88	20.3	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649668	650000	652332		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3939.98		
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.17	19.01	20.24	21.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.15	19.89	19.82	21.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648334	650000	652666		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.30	20.05	19.83	21.3	0.0

Part27O_n77(HPUe)_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PlZ BPSK	1	1	3790	3840	3900		
100	PlZ BPSK	1	137	23.00	22.81	22.44	24.3	0.0
100	PlZ BPSK	1	271	22.40	22.43	22.35	24.3	0.0
100	PlZ BPSK	135	0	23.44	23.32	23.03	24.3	0.0
100	PlZ BPSK	135	69	23.49	23.36	23.03	24.3	0.0
100	PlZ BPSK	135	138	23.28	23.12	23.00	24.3	0.0
100	PlZ BPSK	270	0	22.42	22.30	22.06	24.3	0.0
100	QPSK	1	1	22.80	22.57	22.30	24.3	0.0
100	QPSK	1	137	23.51	23.19	23.00	24.3	0.0
100	QPSK	1	271	22.31	22.36	22.30	24.3	0.0
100	QPSK	135	0	22.91	22.75	22.36	24.3	0.0
100	QPSK	135	69	23.50	23.14	23.05	24.3	0.0
100	QPSK	135	138	22.86	22.84	22.50	24.3	0.0
100	QPSK	270	0	22.77	22.66	22.61	23.8	0.5
100	8QAM	1	1	22.31	22.30	22.07	23.8	0.5
100	8QAM	1	1	20.76	20.80	20.50	22.3	2.0
100	8QAM	1	1	18.64	18.61	18.50	20.3	4.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649668	650000	652332		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3939.98		
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.09	22.80	22.54	24.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.97	22.85	22.83	24.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648334	650000	652666		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3710.01	3840	3969.98		
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.07	23.05	22.77	24.3	0.0



Part27Q_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63332					
Frequency (MHz)				3499.98					
100	Pl2 BPSK	1	1	19.59			21.3	0.0	
100	Pl2 BPSK	1	137	20.47					
100	Pl2 BPSK	1	211	19.53					
100	Pl2 BPSK	135	0	20.33			21.3	0.0	
100	Pl2 BPSK	135	69	20.41			21.3	0.0	
100	Pl2 BPSK	135	138	20.27			21.3	0.0	
100	Pl2 BPSK	270	0	20.25					
100	QPSK	1	1	19.62					
100	QPSK	1	137	20.51			21.3	0.0	
100	QPSK	1	271	19.58					
100	QPSK	135	0	20.32					
100	QPSK	135	69	20.47			21.3	0.0	
100	QPSK	135	138	20.23					
100	QPSK	270	0	20.24			21.3	0.0	
100	16QAM	1	1	19.36			20.8	0.5	
100	16QAM	1	1	19.40			20.8	0.5	
100	256QAM	1	1	19.06			20.3	1.0	
Channel				63300					
Frequency (MHz)				3499.98					
90	QPSK	1	1	19.68	19.04	19.73	21.3	0.0	
Channel				63068					
Frequency (MHz)				3499.98					
80	QPSK	1	1	19.59	19.68	19.76	21.3	0.0	
Channel				63300					
Frequency (MHz)				3480.02					
60	QPSK	1	1	19.84	19.88	19.84	21.3	0.0	
Channel				63168					
Frequency (MHz)				3499.98					
50	QPSK	1	1	20.02	19.97	20.00	21.3	0.0	
Channel				63134					
Frequency (MHz)				3470.01					
40	QPSK	1	1	19.75	19.93	19.79	21.3	0.0	
Channel				63100					
Frequency (MHz)				3465					
30	QPSK	1	1	19.87	19.92	19.91	21.3	0.0	
Channel				63068					
Frequency (MHz)				3460.02					
20	QPSK	1	1	20.14	20.09	20.15	21.3	0.0	

Part27Q_n78(HPUe)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63332					
Frequency (MHz)				3499.98					
100	Pl2 BPSK	1	1	22.85					
100	Pl2 BPSK	1	137	23.50			24.3	0.0	
100	Pl2 BPSK	1	271	22.63					
100	Pl2 BPSK	135	0	23.37			24.3	0.0	
100	Pl2 BPSK	135	69	23.36			24.3	0.0	
100	Pl2 BPSK	135	138	23.27			24.3	0.0	
100	Pl2 BPSK	270	0	23.34					
100	QPSK	1	1	22.96					
100	QPSK	1	137	23.53			24.3	0.0	
100	QPSK	1	271	22.84					
100	QPSK	135	0	22.83					
100	QPSK	135	69	23.48			24.3	0.0	
100	QPSK	135	138	22.76					
100	QPSK	270	0	23.01			23.8	0.5	
100	16QAM	1	1	22.48			23.8	0.5	
100	16QAM	1	1	20.95			22.3	2.0	
100	256QAM	1	1	18.83			20.3	4.0	
Channel				63300					
Frequency (MHz)				3499.98					
90	QPSK	1	1	22.71	22.80	22.77	24.3	0.0	
Channel				63068					
Frequency (MHz)				3480.02					
80	QPSK	1	1	22.96	22.83	22.83	24.3	0.0	
Channel				63300					
Frequency (MHz)				3480					
60	QPSK	1	1	23.01	23.07	22.95	24.3	0.0	
Channel				63168					
Frequency (MHz)				3499.98					
50	QPSK	1	1	23.22	23.26	23.18	24.3	0.0	
Channel				63134					
Frequency (MHz)				3470.01					
40	QPSK	1	1	22.92	22.98	22.91	24.3	0.0	
Channel				63100					
Frequency (MHz)				3465					
30	QPSK	1	1	23.13	23.16	23.12	24.3	0.0	
Channel				63068					
Frequency (MHz)				3460.02					
20	QPSK	1	1	23.33	23.29	23.27	24.3	0.0	



Part270_n78_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
650000									
100	PlZ BPSK	1	1		19.42				
100	PlZ BPSK	1	137		20.33		21.3	0.0	
100	PlZ BPSK	1	271		19.43				
100	PlZ BPSK	135	0		20.17		21.3	0.0	
100	PlZ BPSK	135	69		20.31			0.0	
100	PlZ BPSK	135	138		20.04		21.3	0.0	
100	PlZ BPSK	270	0		20.08				
100	QPSK	1	1		19.45				
100	QPSK	1	137		20.42		21.3	0.0	
100	QPSK	1	271		19.47				
100	QPSK	135	0		20.12				
100	QPSK	135	69		20.32		21.3	0.0	
100	QPSK	135	138		20.02				
100	QPSK	270	0		20.15		21.3	0.0	
100	HQAM	1	1		19.17		20.8	0.5	
100	HQAM	1	1		19.19		20.8	0.5	
100	256QAM	1	1		18.93		20.3	1.0	
Channel									
Frequency (MHz)									
649668									
650000									
650332									
Tune-up limit (dBm)									
MPR									
3745.02									
3750									
3764.98									
90									
QPSK									
1									
1									
19.54									
19.50									
19.56									
21.3									
0.0									
Channel									
Frequency (MHz)									
649334									
650000									
650666									
Tune-up limit (dBm)									
MPR									
3740.01									
3750									
3759.99									
80									
QPSK									
1									
1									
19.31									
19.01									
19.34									
21.3									
0.0									
Channel									
Frequency (MHz)									
649668									
650000									
651332									
Tune-up limit (dBm)									
MPR									
3730.02									
3750									
3769.98									
60									
QPSK									
1									
1									
19.84									
19.95									
19.95									
21.3									
0.0									
Channel									
Frequency (MHz)									
649334									
650000									
651996									
Tune-up limit (dBm)									
MPR									
3725.01									
3750									
3774.99									
50									
QPSK									
1									
1									
20.05									
20.01									
20.08									
21.3									
0.0									
Channel									
Frequency (MHz)									
648000									
650000									
652000									
Tune-up limit (dBm)									
MPR									
3720									
3750									
3780									
40									
QPSK									
1									
1									
19.51									
19.76									
19.50									
21.3									
0.0									
Channel									
Frequency (MHz)									
647668									
650000									
652332									
Tune-up limit (dBm)									
MPR									
3715.02									
3750									
3764.98									
30									
QPSK									
1									
1									
20.06									
20.02									
20.00									
21.3									
0.0									
Channel									
Frequency (MHz)									
647334									
650000									
652666									
Tune-up limit (dBm)									
MPR									
3710.01									
3750									
3789.99									
20									
QPSK									
1									
1									
20.17									
20.07									
20.08									
21.3									
0.0									

Part270_n78(HPUE)_Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
650000									
100	PlZ BPSK	1	1		22.38				
100	PlZ BPSK	1	137		23.17		24.3	0.0	
100	PlZ BPSK	1	271		22.31				
100	PlZ BPSK	135	0		23.08		24.3	0.0	
100	PlZ BPSK	135	69		23.12		24.3	0.0	
100	PlZ BPSK	135	138		22.97		24.3	0.0	
100	PlZ BPSK	270	0		23.01				
100	QPSK	1	1		22.33				
100	QPSK	1	137		23.32		24.3	0.0	
100	QPSK	1	271		22.38				
100	QPSK	135	0		22.58				
100	QPSK	135	69		23.28		24.3	0.0	
100	QPSK	135	138		22.47				
100	QPSK	270	0		22.85		23.8	0.5	
100	HQAM	1	1		21.98		23.8	0.5	
100	HQAM	1	1		20.42		22.3	2.0	
100	256QAM	1	1		18.36		20.3	4.0	
Channel									
Frequency (MHz)									
649668									
650000									
650332									
Tune-up limit (dBm)									
MPR									
3745.02									
3750									
3764.98									
90									
QPSK									
1									
1									
22.51									
22.59									
22.52									
24.3									
0.0									
Channel									
Frequency (MHz)									
649334									
650000									
650666									
Tune-up limit (dBm)									
MPR									
3740.01									
3750									
3759.99									
80									
QPSK									
1									
1									
22.54									
22.38									
22.88									
24.3									
0.0									
Channel									
Frequency (MHz)									
649668									
650000									
651332									
Tune-up limit (dBm)									
MPR									
3730.02									
3750									
3769.98									
60									
QPSK									
1									
1									
22.73									
22.72									
22.80									
24.3									
0.0									
Channel									
Frequency (MHz)									
649334									
650000									
651996									
Tune-up limit (dBm)									
MPR									
3725.01									
3750									
3774.99									
50									
QPSK									
1									
1									
22.84									
22.90									
23.00									
24.3									
0.0									
Channel									
Frequency (MHz)									
648000									
650000									
652000									
Tune-up limit (dBm)									
MPR									
3720									
3750									
3780									
40									
QPSK									
1									
1									
22.58									
22.55									
22.62									
24.3									
0.0									
Channel									
Frequency (MHz)									
647668									
650000									
652332									
Tune-up limit (dBm)									
MPR									
3715.02									
3750									
3764.98									
30									
QPSK									
1									
1									
22.76									
22.85									
22.90									
24.3									
0.0									
Channel									
Frequency (MHz)									
647334									
650000									
652666									
Tune-up limit (dBm)									
MPR									
3710.01									
3750									
3789.99									
20									
QPSK									
1									
1									
22.97									
22.96									
23.07									
24.3									
0.0									



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.53	24.58	24.48			
20	PI2 BPSK	1	53	24.34	24.43	24.31	25.5	0.0	
20	PI2 BPSK	1	104	24.30	24.45	24.35			
20	PI2 BPSK	50	0	23.83	23.95	23.92	25.0	0.5	
20	PI2 BPSK	50	28	24.34	24.45	24.42	25.5	0.0	
20	PI2 BPSK	50	56	23.95	23.99	23.82	25.0	0.5	
20	PI2 BPSK	100	0	24.00	24.03	23.92			
20	QPSK	1	1	24.52	24.61	24.57			
20	QPSK	1	53	24.40	24.54	24.44	25.5	0.0	
20	QPSK	1	104	24.06	24.37	24.31			
20	QPSK	50	0	23.31	23.47	23.37	24.5	1.0	
20	QPSK	50	28	24.30	24.53	24.46	25.5	0.0	
20	QPSK	50	56	23.28	23.43	23.28	24.5	1.0	
20	QPSK	100	0	23.44	23.51	23.38			
20	16QAM	1	1	23.12	23.22	23.13	24.5	1.0	
20	64QAM	1	1	21.58	21.63	21.55	23.0	2.5	
20	256QAM	1	1	20.07	20.23	20.13	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.42	24.45	24.51	25.5	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.45	24.44	24.40	25.5	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	24.42	24.57	24.54	25.5	0.0	

DS13									
n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.91	24.07	24.00			
20	PI2 BPSK	1	53	24.20	24.25	24.10	25.3	0.0	
20	PI2 BPSK	1	104	23.96	24.07	23.91			
20	PI2 BPSK	50	0	23.53	23.70	23.62	24.8	0.5	
20	PI2 BPSK	50	28	24.14	24.24	24.10	25.3	0.0	
20	PI2 BPSK	50	56	23.42	23.52	23.43	24.8	0.5	
20	PI2 BPSK	100	0	23.56	23.64	23.51			
20	QPSK	1	1	23.88	23.98	23.84			
20	QPSK	1	53	24.06	24.30	24.12	25.3	0.0	
20	QPSK	1	104	23.95	24.05	24.00			
20	QPSK	50	0	23.20	23.23	23.08	24.3	1.0	
20	QPSK	50	28	24.05	24.25	24.10	25.3	0.0	
20	QPSK	50	56	22.87	22.92	22.79	24.3	1.0	
20	QPSK	100	0	23.01	23.10	22.91			
20	16QAM	1	1	22.59	22.73	22.60	24.3	1.0	
20	64QAM	1	1	21.26	21.35	21.25	22.8	2.5	
20	256QAM	1	1	19.86	19.97	19.86	20.8	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.02	24.07	24.01	25.3	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.01	24.17	24.05	25.3	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.90	24.10	23.99	25.3	0.0	

n7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	23.11	23.27	23.14			
50	PI2 BPSK	1	135	23.60	23.59	23.61	24.5	0.0	
50	PI2 BPSK	1	268	23.20	23.33	23.24			
50	PI2 BPSK	135	0	23.53	23.68	23.65	24.5	0.0	
50	PI2 BPSK	135	68	23.55	23.68	23.71	24.5	0.0	
50	PI2 BPSK	135	135	23.61	23.69	23.64	24.5	0.0	
50	PI2 BPSK	270	0	23.55	23.65	23.57			
50	QPSK	1	1	23.62	23.72	23.57			
50	QPSK	1	135	23.51	23.57	23.56	24.5	0.0	
50	QPSK	1	268	23.31	23.30	23.21			
50	QPSK	135	0	23.70	23.71	23.65	24.5	0.0	
50	QPSK	135	68	23.61	23.68	23.54	24.5	0.0	
50	QPSK	135	135	23.65	23.70	23.69	24.5	0.0	
50	QPSK	270	0	23.56	23.69	23.54			
50	16QAM	1	1	23.92	23.06	23.04	24.5	0.0	
50	64QAM	1	1	21.47	21.58	21.53	23.0	1.5	
50	256QAM	1	1	20.21	20.20	20.06	21.0	3.5	
Channel				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530	2535	2560			
40	QPSK	1	1	23.30	23.27	23.11	24.5	0.0	
Channel				506000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.24	23.22	23.02	24.5	0.0	
Channel				505500	507000	515500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2577.5			
25	QPSK	1	1	23.24	23.20	23.05	24.5	0.0	
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.22	23.20	23.09	24.5	0.0	
Channel				505000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2572.5			
15	QPSK	1	1	23.30	23.24	23.15	24.5	0.0	
Channel				505000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.27	23.15	23.04	24.5	0.0	
Channel				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.23	23.18	23.04	24.5	0.0	



n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2505	2535	2565			
50	PI2 BPSK	1	1	23.30	23.44	23.48			
50	PI2 BPSK	1	135	23.66	23.61	23.68	25.1	0.0	
50	PI2 BPSK	1	268	23.38	23.50	23.41			
50	PI2 BPSK	135	0	23.35	23.44	23.28	24.6	0.5	
50	PI2 BPSK	135	68	23.71	23.80	23.70	25.1	0.0	
50	PI2 BPSK	135	135	23.13	23.28	23.17	24.8	0.5	
50	PI2 BPSK	270	0	23.33	23.43	23.31			
50	QPSK	1	1	23.49	23.56	23.40			
50	QPSK	1	135	23.17	23.72	23.01	25.1	0.0	
50	QPSK	1	268	23.29	23.38	23.22			
50	QPSK	135	0	22.85	22.92	22.80	24.1	1.0	
50	QPSK	135	68	23.50	23.68	23.50	25.1	0.0	
50	QPSK	135	135	22.75	22.80	22.68	24.1	1.0	
50	QPSK	270	0	22.56	22.68	22.56			
50	16QAM	1	1	22.14	22.23	22.14	24.1	1.0	
50	64QAM	1	1	20.68	20.80	20.78	22.8	2.5	
50	256QAM	1	1	18.36	18.40	18.29	20.6	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2520	2535	2550	(dB)	(dB)	
40	QPSK	1	1	23.49	23.59	23.53	25.1	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555	(dB)	(dB)	
30	QPSK	1	1	23.43	23.60	23.48	25.1	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dB)	(dB)	
25	QPSK	1	1	23.47	23.64	23.51	25.1	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dB)	(dB)	
20	QPSK	1	1	23.44	23.67	23.58	25.1	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dB)	(dB)	
15	QPSK	1	1	23.47	23.70	23.49	25.1	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2500	2535	2566	(dB)	(dB)	
10	QPSK	1	1	23.48	23.81	23.52	25.1	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2492.5	2535	2561.5	(dB)	(dB)	
5	QPSK	1	1	23.50	23.57	23.58	25.1	0.0	

n7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2505	2535	2565			
50	PI2 BPSK	1	1	23.29	23.22	23.29			
50	PI2 BPSK	1	135	23.34	23.45	23.49	25.2	0.0	
50	PI2 BPSK	1	268	23.28	23.21	23.24			
50	PI2 BPSK	135	0	23.49	23.58	23.47	25.2	0.0	
50	PI2 BPSK	135	68	23.51	23.86	23.60	25.2	0.0	
50	PI2 BPSK	135	135	23.61	23.60	23.59	25.2	0.0	
50	PI2 BPSK	270	0	23.68	23.69	23.51			
50	QPSK	1	1	23.20	23.22	23.24			
50	QPSK	1	135	23.17	23.62	23.05	25.2	0.0	
50	QPSK	1	268	23.29	23.25	23.25			
50	QPSK	135	0	22.89	23.01	22.88	24.7	0.5	
50	QPSK	135	68	23.50	23.62	23.51	25.2	0.0	
50	QPSK	135	135	23.16	23.11	23.11	24.7	0.5	
50	QPSK	270	0	22.88	23.01	22.90			
50	16QAM	1	1	22.72	22.71	22.78	24.7	0.5	
50	64QAM	1	1	21.21	21.23	21.21	23.2	2.0	
50	256QAM	1	1	18.58	18.58	18.50	21.2	4.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2520	2535	2550	(dB)	(dB)	
40	QPSK	1	1	23.29	23.26	23.26	25.2	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555	(dB)	(dB)	
30	QPSK	1	1	23.25	23.29	23.25	25.2	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dB)	(dB)	
25	QPSK	1	1	23.28	23.21	23.29	25.2	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dB)	(dB)	
20	QPSK	1	1	23.22	23.27	23.27	25.2	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dB)	(dB)	
15	QPSK	1	1	23.23	23.25	23.24	25.2	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2500	2535	2566	(dB)	(dB)	
10	QPSK	1	1	23.21	23.33	23.29	25.2	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2492.5	2535	2561.5	(dB)	(dB)	
5	QPSK	1	1	23.24	23.31	23.23	25.2	0.0	

n7_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2505	2535	2565			
50	PI2 BPSK	1	1	23.32	23.44	23.38			
50	PI2 BPSK	1	135	23.15	23.25	23.20	24.7	0.0	
50	PI2 BPSK	1	268	23.30	23.37	23.35			
50	PI2 BPSK	135	0	22.54	22.66	22.57	24.2	0.5	
50	PI2 BPSK	135	68	23.45	23.49	23.34	24.7	0.0	
50	PI2 BPSK	135	135	22.65	22.73	22.60	24.2	0.5	
50	PI2 BPSK	270	0	22.64	22.77	22.80			
50	QPSK	1	1	23.35	23.56	23.42			
50	QPSK	1	135	23.23	23.40	23.26	24.7	0.0	
50	QPSK	1	268	23.24	23.31	23.19			
50	QPSK	135	0	22.47	22.54	22.43	23.7	1.0	
50	QPSK	135	68	23.31	23.48	23.40	24.7	0.0	
50	QPSK	135	135	22.50	22.58	22.51	23.7	1.0	
50	QPSK	270	0	22.82	22.85	22.49			
50	16QAM	1	1	21.78	21.82	21.78	23.7	1.0	
50	64QAM	1	1	20.23	20.37	20.33	22.2	2.5	
50	256QAM	1	1	18.89	19.02	18.99	20.2	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2520	2535	2550	(dB)	(dB)	
40	QPSK	1	1	23.20	23.44	23.40	24.7	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555	(dB)	(dB)	
30	QPSK	1	1	23.28	23.49	23.25	24.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dB)	(dB)	
25	QPSK	1	1	23.24	23.53	23.30	24.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dB)	(dB)	
20	QPSK	1	1	23.28	23.47	23.27	24.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dB)	(dB)	
15	QPSK	1	1	23.30	23.39	23.40	24.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2500	2535	2566	(dB)	(dB)	
10	QPSK	1	1	23.29	23.38	23.26	24.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2492.5	2535	2561.5	(dB)	(dB)	
5	QPSK	1	1	23.31	23.51	23.24	24.7	0.0	



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1770			
40	PI2 BPSK	1	1	23.71	23.82	23.76			
40	PI2 BPSK	1	108	24.33	24.37	24.22	25.5	0.0	
40	PI2 BPSK	1	214	23.76	23.85	23.79			
40	PI2 BPSK	108	0	23.77	23.92	23.88	25.0	0.5	
40	PI2 BPSK	108	54	24.31	24.40	24.27	25.5	0.9	
40	PI2 BPSK	108	108	23.83	23.97	23.90			
40	PI2 BPSK	216	0	23.80	23.96	23.88	25.0	0.5	
40	QPSK	1	1	23.68	23.76	23.70			
40	QPSK	1	108	24.21	24.42	24.20	25.5	0.0	
40	QPSK	1	214	23.63	23.74	23.68			
40	QPSK	108	0	23.28	23.42	23.25	24.5	1.0	
40	QPSK	108	54	24.21	24.36	24.26	25.5	0.0	
40	QPSK	108	108	23.42	23.46	23.34	24.5	1.0	
40	QPSK	216	0	23.39	23.48	23.35			
40	16QAM	1	1	22.83	22.97	22.94	24.5	1.0	
40	16QAM	1	1	21.01	21.10	21.03	23.0	2.5	
40	256QAM	1	1	19.58	19.67	19.51	21.0	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
30	QPSK	1	1	24.09	24.38	24.23	25.5	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	24.06	24.39	24.12	25.5	0.0	
Channel				343000	349000	345000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	24.11	24.31	24.13	25.5	0.0	
Channel				343000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	24.05	24.38	24.26	25.5	0.0	
Channel				342000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	24.19	24.30	24.14	25.5	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1770			
40	PI2 BPSK	1	1	22.00	22.00	22.02			
40	PI2 BPSK	1	108	22.39	22.54	22.51	23.6	0.0	
40	PI2 BPSK	1	214	22.02	22.11	22.15			
40	PI2 BPSK	108	0	22.50	22.45	22.42	23.6	0.0	
40	PI2 BPSK	108	54	22.44	22.56	22.56	23.6	0.0	
40	PI2 BPSK	108	108	22.69	22.68	22.54			
40	PI2 BPSK	216	0	22.65	22.67	22.62	23.6	0.0	
40	QPSK	1	1	22.05	22.01	22.04			
40	QPSK	1	108	22.54	22.70	22.63	23.6	0.0	
40	QPSK	1	214	22.08	22.02	22.12			
40	QPSK	108	0	22.38	22.42	22.41	23.6	0.0	
40	QPSK	108	54	22.63	22.69	22.61	23.6	0.0	
40	QPSK	108	108	22.85	22.88	22.89			
40	QPSK	216	0	22.83	22.83	22.80	23.6	0.0	
40	16QAM	1	1	22.06	22.02	22.03	23.6	0.0	
40	16QAM	1	1	20.65	20.61	20.60	22.1	1.5	
40	256QAM	1	1	18.77	18.74	18.62	20.1	3.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
30	QPSK	1	1	22.01	22.02	22.05	23.6	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	22.04	22.01	22.03	23.6	0.0	
Channel				343000	349000	345000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	22.05	22.01	22.03	23.6	0.0	
Channel				343000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	21.90	21.96	21.96	23.6	0.0	
Channel				342000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	21.90	21.97	21.96	23.6	0.0	



n66_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				346000	349000	352000	
Frequency (MHz)				1720	1745	1770	
40	PI2 BPSK	1	1	23.06	23.10	23.03	24.6
40	PI2 BPSK	1	108	23.77	23.82	23.68	24.6
40	PI2 BPSK	1	214	23.37	23.38	23.40	24.6
40	PI2 BPSK	108	0	23.85	23.81	23.85	24.6
40	PI2 BPSK	108	54	23.76	23.82	23.80	24.6
40	PI2 BPSK	108	108	23.80	23.85	23.78	24.6
40	PI2 BPSK	216	0	23.83	23.88	23.81	24.6
40	QPSK	1	1	22.99	23.01	22.86	24.6
40	QPSK	1	108	23.82	23.88	23.84	24.6
40	QPSK	1	214	23.23	23.18	23.21	24.1
40	QPSK	108	0	23.05	23.16	23.08	24.1
40	QPSK	108	54	23.66	23.66	23.65	24.6
40	QPSK	108	108	23.28	23.40	23.28	24.1
40	QPSK	216	0	23.31	23.34	23.25	24.1
40	16QAM	1	1	22.11	22.24	22.16	24.1
40	64QAM	1	1	20.74	20.81	20.72	22.6
40	256QAM	1	1	19.30	19.32	19.36	20.6
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.95	23.14	22.97	24.6
Channel				344000	346000	348000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.99	23.10	22.88	24.6
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	23.00	23.06	22.99	24.6
Channel				343000	349000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	23.06	23.11	22.96	24.6
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	23.00	23.13	23.04	24.6

n66_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				346000	349000	352000	
Frequency (MHz)				1720	1745	1760	
40	PI2 BPSK	1	1	22.41	22.53	22.49	23.7
40	PI2 BPSK	1	108	23.05	23.11	22.95	23.7
40	PI2 BPSK	1	214	22.35	22.52	22.44	23.2
40	PI2 BPSK	108	0	22.52	22.65	22.58	23.2
40	PI2 BPSK	108	54	22.91	23.03	22.98	23.7
40	PI2 BPSK	108	108	22.56	22.73	22.61	23.2
40	PI2 BPSK	216	0	22.68	22.76	22.61	23.2
40	QPSK	1	1	22.29	22.43	22.39	23.7
40	QPSK	1	108	22.95	23.15	23.11	23.7
40	QPSK	1	214	22.40	22.53	22.44	22.7
40	QPSK	108	0	22.02	22.15	22.04	22.7
40	QPSK	108	54	22.94	23.10	23.09	23.7
40	QPSK	108	108	22.12	22.18	22.05	22.7
40	QPSK	216	0	22.12	22.20	22.10	22.7
40	16QAM	1	1	21.14	21.27	21.16	22.7
40	64QAM	1	1	19.62	19.71	19.64	21.2
40	256QAM	1	1	18.14	18.30	18.16	19.2
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.90	22.97	23.01	23.7
Channel				344000	346000	348000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.84	22.89	23.03	23.7
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	22.87	23.09	22.98	23.7
Channel				343000	349000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.86	23.02	22.95	23.7
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.85	23.07	22.93	23.7



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	519000	519996			
				2590.02	2595	2599.98			
40	Pliz BPSK	1	1	23.03	23.12	23.03			
40	Pliz BPSK	1	53	23.57	23.62	23.62	24.5	0.0	
40	Pliz BPSK	1	104	23.10	23.23	23.22			
40	Pliz BPSK	50	0	23.40	23.47	23.34	24.5	0.0	
40	Pliz BPSK	50	28	23.48	23.62	23.56	24.5	0.0	
40	Pliz BPSK	50	56	23.50	23.46	23.41	24.5	0.0	
40	Pliz BPSK	100	0	23.50	23.55	23.58			
40	QPSK	1	1	22.98	23.05	22.99			
40	QPSK	1	53	23.54	23.63	23.51	24.5	0.0	
40	QPSK	1	104	23.08	23.18	23.04			
40	QPSK	50	0	23.42	23.45	23.46			
40	QPSK	50	28	23.55	23.56	23.53	24.5	0.0	
40	QPSK	50	56	23.35	23.47	23.51			
40	QPSK	100	0	23.38	23.45	23.33	24.5	0.0	
40	16QAM	1	1	22.78	22.84	22.70	24.5	0.0	
40	16QAM	1	1	21.50	21.47	21.34	23.0	1.5	
40	256QAM	1	1	20.12	20.08	20.05	21.0	3.5	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2584.01	2595	2604.99			
30	QPSK	1	1	22.97	23.02	23.04	24.5	0.0	
Channel									
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
20	QPSK	1	1	23.00	23.13	22.92	24.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	519000	519996			
				2590.02	2595	2599.98			
40	Pliz BPSK	1	1	23.21	23.26	23.23			
40	Pliz BPSK	1	53	23.42	23.58	23.44	24.9	0.0	
40	Pliz BPSK	1	104	23.34	23.50	23.43			
40	Pliz BPSK	50	0	22.90	22.97	22.80	24.4	0.5	
40	Pliz BPSK	50	28	23.53	23.62	23.48	24.9	0.0	
40	Pliz BPSK	50	56	23.07	23.18	23.15	24.4	0.5	
40	Pliz BPSK	100	0	23.11	23.23	23.06			
40	QPSK	1	1	23.06	23.09	23.05			
40	QPSK	1	53	23.59	23.69	23.53	24.9	0.0	
40	QPSK	1	104	23.12	23.15	23.09			
40	QPSK	50	0	22.37	22.41	22.31			
40	QPSK	50	28	23.54	23.65	23.61	24.9	0.0	
40	QPSK	50	56	22.39	22.42	22.37			
40	QPSK	100	0	22.42	22.50	22.46	23.9	1.0	
40	16QAM	1	1	22.04	22.10	22.09	23.9	1.0	
40	16QAM	1	1	20.53	20.60	20.58	22.4	2.5	
40	256QAM	1	1	18.88	19.04	18.92	20.4	4.5	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2604.01	2615	2624.99			
30	QPSK	1	1	23.47	23.66	23.37	24.9	0.0	
Channel									
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
20	QPSK	1	1	23.44	23.57	23.39	24.9	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	519000	519996			
				2590.02	2595	2599.98			
40	Pliz BPSK	1	1	22.72	22.74	22.76			
40	Pliz BPSK	1	53	23.11	23.21	23.23	24.7	0.0	
40	Pliz BPSK	1	104	22.83	22.81	22.77			
40	Pliz BPSK	50	0	23.08	23.07	22.93	24.7	0.0	
40	Pliz BPSK	50	28	23.19	23.27	23.25	24.7	0.0	
40	Pliz BPSK	50	56	23.19	23.25	23.24	24.7	0.0	
40	Pliz BPSK	100	0	23.22	23.18	23.21			
40	QPSK	1	1	22.72	22.78	22.71			
40	QPSK	1	53	23.19	23.28	23.23	24.7	0.0	
40	QPSK	1	104	22.80	22.82	22.75			
40	QPSK	50	0	22.90	23.04	22.92			
40	QPSK	50	28	23.17	23.27	23.00	24.7	0.0	
40	QPSK	50	56	23.12	23.21	23.15			
40	QPSK	100	0	23.17	23.18	23.09	24.7	0.0	
40	16QAM	1	1	22.84	22.86	22.84	24.7	0.0	
40	16QAM	1	1	21.29	21.38	21.26	23.2	1.5	
40	256QAM	1	1	19.20	19.29	19.27	21.2	3.5	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2604.01	2615	2624.99			
30	QPSK	1	1	22.85	22.84	22.87	24.7	0.0	
Channel									
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
20	QPSK	1	1	22.83	22.85	22.86	24.7	0.0	



n38_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2560.02	2565	2569.98			
40	PI2 BPSK	1	1	22.52	22.56	22.56			
40	PI2 BPSK	1	53	23.21	23.20	23.12	24.1	0.0	
40	PI2 BPSK	1	104	22.83	22.80	22.67			
40	PI2 BPSK	50	0	22.79	22.82	22.79	24.1	0.0	
40	PI2 BPSK	50	28	23.02	23.05	23.05	24.1	0.0	
40	PI2 BPSK	50	56	22.91	22.88	22.88			
40	PI2 BPSK	100	0	22.83	22.89	22.84	24.1	0.0	
40	QPSK	1	1	22.43	22.52	22.56			
40	QPSK	1	53	23.05	23.21	23.09	24.1	0.0	
40	QPSK	1	104	22.70	22.68	22.67			
40	QPSK	50	0	22.28	22.28	22.22			
40	QPSK	50	28	22.95	23.18	23.02	24.1	0.0	
40	QPSK	50	56	22.26	22.34	22.38			
40	QPSK	100	0	22.43	22.57	22.24	23.6	0.5	
40	16QAM	1	1	21.65	21.70	21.73	23.6	0.5	
40	64QAM	1	1	20.24	20.30	20.33	22.1	2.0	
40	256QAM	1	1	18.88	18.92	18.85	20.1	4.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2568.01	2569	2569.99			
30	QPSK	1	1	22.44	22.53	22.53	24.1	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2560	2565	2610			
20	QPSK	1	1	22.46	22.51	22.43	24.1	0.0	

n41_FCC_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518998	529000			
Frequency (MHz)				2566.01	2569.99	2540			
100	PI2 BPSK	1	1	22.17	22.19	22.22			
100	PI2 BPSK	1	137	23.10	23.14	23.07	24.0	0.0	
100	PI2 BPSK	1	271	22.25	22.34	22.34			
100	PI2 BPSK	135	0	22.84	22.93	22.89	24.0	0.0	
100	PI2 BPSK	135	69	23.22	23.24	23.15	24.0	0.0	
100	PI2 BPSK	135	138	22.97	22.96	22.80			
100	PI2 BPSK	270	0	23.00	22.97	22.90	24.0	0.0	
100	QPSK	1	1	22.25	22.26	22.11			
100	QPSK	1	137	23.22	23.25	23.24	24.0	0.0	
100	QPSK	1	271	22.16	22.20	22.34			
100	QPSK	135	0	22.85	22.91	22.89			
100	QPSK	135	69	23.10	23.22	23.20	24.0	0.0	
100	QPSK	135	138	22.84	22.96	22.83			
100	QPSK	270	0	22.84	22.95	22.87	24.0	0.0	
100	16QAM	1	1	21.05	21.20	21.03	24.0	0.0	
100	64QAM	1	1	21.01	21.03	21.08	23.0	1.0	
100	256QAM	1	1	19.44	19.59	19.50	21.0	3.0	
Channel				508200	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2569.99	2644.98			
90	QPSK	1	1	22.09	22.18	22.16	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2569.99	2649.99			
80	QPSK	1	1	22.11	22.15	22.12	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2569.99	2659.98			
60	QPSK	1	1	22.16	22.12	22.20	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2569.99	2664.99			
50	QPSK	1	1	22.15	22.08	22.20	24.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2569.99	2670			
40	QPSK	1	1	22.09	22.12	22.15	24.0	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2569.99	2674.98			
30	QPSK	1	1	22.14	22.10	22.14	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2569.99	2679.99			
20	QPSK	1	1	22.05	22.14	22.21	24.0	0.0	

n41_FCC_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				508202	518998	529000			
Frequency (MHz)				2566.01	2569.99	2540			
100	PI2 BPSK	1	1	23.05	23.10	23.08			
100	PI2 BPSK	1	137	23.26	23.60	23.52	24.9	0.0	
100	PI2 BPSK	1	271	23.01	23.10	23.03			
100	PI2 BPSK	135	0	22.81	22.90	22.76	24.4	0.5	
100	PI2 BPSK	135	69	23.51	23.65	23.60	24.9	0.0	
100	PI2 BPSK	135	138	22.61	22.75	22.62			
100	PI2 BPSK	270	0	22.76	22.82	22.71	24.4	0.5	
100	QPSK	1	1	23.10	23.23	23.17			
100	QPSK	1	137	23.57	23.70	23.60	24.9	0.0	
100	QPSK	1	271	23.19	23.27	23.13			
100	QPSK	135	0	23.32	23.39	23.33			
100	QPSK	135	69	23.47	23.62	23.50	24.9	0.0	
100	QPSK	135	138	22.22	22.26	22.16			
100	QPSK	270	0	22.59	22.55	22.52	23.9	1.0	
100	16QAM	1	1	22.07	22.20	22.16	23.9	1.0	
100	64QAM	1	1	20.59	20.74	20.64	22.4	2.5	
100	256QAM	1	1	18.60	18.70	18.66	20.4	4.5	
Channel				508200	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2569.99	2644.98			
90	QPSK	1	1	23.40	23.67	23.48	24.9	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2569.99	2649.99			
80	QPSK	1	1	23.47	23.64	23.52	24.9	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2569.99	2659.98			
60	QPSK	1	1	23.39	23.65	23.44	24.9	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2569.99	2664.99			
50	QPSK	1	1	23.51	23.59	23.45	24.9	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2569.99	2670			
40	QPSK	1	1	23.49	23.55	23.45	24.9	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2569.99	2674.98			
30	QPSK	1	1	23.42	23.57	23.45	24.9	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2569.99	2679.99			
20	QPSK	1	1	23.47	23.61	23.56	24.9	0.0	



n41_FCC_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2666.02	2666.99	2667.00				
100	PI2 BPSK	1	1	22.25	22.25	22.26				
100	PI2 BPSK	1	137	22.68	22.74	22.73	24.2	0.0		
100	PI2 BPSK	1	271	22.25	22.35	22.33				
100	PI2 BPSK	135	0	22.50	22.55	22.42	24.2	0.0		
100	PI2 BPSK	135	69	22.73	22.80	22.81	24.2	0.0		
100	PI2 BPSK	135	138	22.73	22.71	22.73	24.2	0.0		
100	PI2 BPSK	270	0	22.68	22.64	22.53				
100	QPSK	1	1	22.24	22.20	22.35				
100	QPSK	1	137	22.65	22.82	22.65	24.2	0.0		
100	QPSK	1	271	22.25	22.31	22.25				
100	QPSK	135	0	22.54	22.57	22.62				
100	QPSK	135	69	22.70	22.78	22.70	24.2	0.0		
100	QPSK	135	138	22.56	22.65	22.63				
100	QPSK	270	0	22.55	22.75	22.52	24.2	0.0		
100	16QAM	1	1	22.22	22.22	22.27	24.2	0.0		
100	64QAM	1	1	21.24	21.20	21.29	23.2	1.0		
100	256QAM	1	1	18.45	18.43	18.48	21.2	3.0		
Channel										
Frequency (MHz)				508200	518998	528998	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	22.35	22.25	22.23	24.2	0.0		
Channel										
Frequency (MHz)				507204	518998	528998	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	22.24	22.34	22.21	24.2	0.0		
Channel										
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	25.28	25.92	26.99	24.2	0.0		
Channel										
Frequency (MHz)				503204	518998	534998	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	22.24	22.28	22.34	24.2	0.0		
Channel										
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	22.22	22.34	22.25	24.2	0.0		
Channel										
Frequency (MHz)				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.23	22.34	22.25	24.2	0.0		
Channel										
Frequency (MHz)				2666.02	2666.99	2679.99	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	22.25	22.31	22.26	24.2	0.0		

n41_FCC_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2666.01	2666.99	2667.00				
100	PI2 BPSK	1	1	22.67	22.65	22.63				
100	PI2 BPSK	1	137	23.42	23.45	23.42	24.6	0.0		
100	PI2 BPSK	1	271	22.66	22.78	22.66				
100	PI2 BPSK	135	0	22.67	22.73	22.66	24.1	0.5		
100	PI2 BPSK	135	69	23.38	23.48	23.33	24.6	0.0		
100	PI2 BPSK	135	138	22.59	22.71	22.68	24.1	0.5		
100	PI2 BPSK	270	0	22.59	22.75	22.61				
100	QPSK	1	1	22.62	22.61	22.66				
100	QPSK	1	137	23.31	23.57	23.32	24.6	0.0		
100	QPSK	1	271	22.61	22.72	22.61				
100	QPSK	135	0	22.32	22.39	22.29				
100	QPSK	135	69	23.25	23.53	23.30	24.6	0.0		
100	QPSK	135	138	22.33	22.48	22.43				
100	QPSK	270	0	22.23	22.20	22.16	23.6	1.0		
100	16QAM	1	1	21.69	21.62	21.61	23.6	1.0		
100	64QAM	1	1	20.17	20.15	20.10	22.1	2.5		
100	256QAM	1	1	18.25	18.40	18.29	20.1	4.5		
Channel										
Frequency (MHz)				508200	518998	528998	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	23.24	23.52	23.19	24.6	0.0		
Channel										
Frequency (MHz)				507204	518998	528998	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	23.17	23.54	23.20	24.6	0.0		
Channel										
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	23.23	23.53	23.25	24.6	0.0		
Channel										
Frequency (MHz)				503204	518998	534998	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	23.24	23.40	23.25	24.6	0.0		
Channel										
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	23.14	23.53	23.25	24.6	0.0		
Channel										
Frequency (MHz)				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	23.23	23.50	23.22	24.6	0.0		
Channel										
Frequency (MHz)				2666.02	2666.99	2679.99	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	23.23	23.45	23.23	24.6	0.0		

Part27Q_n77_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3499.98	3499.98	3499.98				
100	PI2 BPSK	1	1		19.84					
100	PI2 BPSK	1	137		20.85		21.4	0.0		
100	PI2 BPSK	1	271		19.86					
100	PI2 BPSK	135	0		20.73		21.4	0.0		
100	PI2 BPSK	135	69		20.88		21.4	0.0		
100	PI2 BPSK	135	138		20.66		21.4	0.0		
100	PI2 BPSK	270	0		20.65					
100	QPSK	1	1		19.85					
100	QPSK	1	137		20.95		21.4	0.0		
100	QPSK	1	271		19.86					
100	QPSK	135	0		20.71					
100	QPSK	135	69		20.51		21.4	0.0		
100	QPSK	135	138		20.65					
100	QPSK	270	0		20.78		21.4	0.0		
100	16QAM	1	1		19.82		21.4	0.0		
100	64QAM	1	1		19.74		21.4	0.0		
100	256QAM	1	1		20.26		21.4	0.0		
Channel										
Frequency (MHz)				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.79	19.81	19.85	21.4	0.0		
Channel										
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	19.60	19.71	19.68	21.4	0.0		
Channel										
Frequency (MHz)				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	19.79	19.82	19.66	21.4	0.0		
Channel										
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	19.91	19.85	19.84	21.4	0.0		
Channel										
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	19.69	19.70	19.68	21.4	0.0		
Channel										
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	20.07	20.02	19.89	21.4	0.0		



Part27Q_n77(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.43					
100	PI2 BPSK	1	137	23.25			24.4	0.0	
100	PI2 BPSK	1	271	22.42					
100	PI2 BPSK	135	0	23.20			24.4	0.0	
100	PI2 BPSK	135	69	23.34			24.4	0.0	
100	PI2 BPSK	135	138	23.14			24.4	0.0	
100	PI2 BPSK	270	0	23.15					
100	QPSK	1	1	22.54					
100	QPSK	1	137	23.37			24.4	0.0	
100	QPSK	1	271	22.45					
100	QPSK	135	0	23.14					
100	QPSK	135	69	23.33			24.4	0.0	
100	QPSK	135	138	23.10					
100	QPSK	270	0	23.12			24.4	0.0	
100	16QAM	1	1	22.96			24.4	0.0	
100	64QAM	1	1	22.01			23.4	1.0	
100	256QAM	1	1	19.92			21.4	3.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.78	22.85	22.65	24.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.77	22.91	22.54	24.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.80	22.60	22.50	24.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.84	22.71	22.50	24.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.73	22.61	22.55	24.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.97	22.74	22.65	24.4	0.0	

Part27O_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.69	19.71	19.66			
100	PI2 BPSK	1	137	20.73	20.68	20.62	21.4	0.0	
100	PI2 BPSK	1	271	19.76	19.75	19.75			
100	PI2 BPSK	135	0	20.46	20.53	20.50	21.4	0.0	
100	PI2 BPSK	135	69	20.69	20.73	20.64	21.4	0.0	
100	PI2 BPSK	135	138	20.56	20.59	20.59	21.4	0.0	
100	PI2 BPSK	270	0	20.48	20.49	20.47			
100	QPSK	1	1	19.74	19.70	19.55			
100	QPSK	1	137	20.61	20.77	20.60	21.4	0.0	
100	QPSK	1	271	19.61	19.76	19.73			
100	QPSK	135	0	20.42	20.47	20.51			
100	QPSK	135	69	20.50	20.74	20.50	21.4	0.0	
100	QPSK	135	138	20.41	20.56	20.54			
100	QPSK	270	0	20.50	20.60	20.47	21.4	0.0	
100	16QAM	1	1	19.25	19.29	19.27	21.4	0.0	
100	64QAM	1	1	19.56	19.51	19.53	21.4	0.0	
100	256QAM	1	1	19.95	20.04	19.90	21.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.70	19.50	19.51	21.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.59	19.77	19.58	21.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.82	19.88	19.91	21.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.56	19.96	19.90	21.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.70	19.75	19.60	21.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.76	20.20	20.02	21.4	0.0	

Part27O_n77(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.69	22.72	22.69			
100	PI2 BPSK	1	137	23.26	23.63	23.71	24.4	0.0	
100	PI2 BPSK	1	271	22.64	22.73	22.74			
100	PI2 BPSK	135	0	23.57	23.61	23.47	24.4	0.0	
100	PI2 BPSK	135	69	23.65	23.61	23.71	24.4	0.0	
100	PI2 BPSK	135	138	23.64	23.63	23.50	24.4	0.0	
100	PI2 BPSK	270	0	23.59	23.58	23.53			
100	QPSK	1	1	22.49	22.59	22.49			
100	QPSK	1	137	23.53	23.75	23.57	24.4	0.0	
100	QPSK	1	271	22.54	22.65	22.50			
100	QPSK	135	0	23.39	23.47	23.48			
100	QPSK	135	69	23.50	23.72	23.55	24.4	0.0	
100	QPSK	135	138	23.49	23.60	23.52			
100	QPSK	270	0	23.31	23.64	23.37	24.4	0.0	
100	16QAM	1	1	22.58	22.59	22.45	24.4	0.0	
100	64QAM	1	1	21.74	21.75	21.77	23.4	1.0	
100	256QAM	1	1	19.53	19.67	19.66	21.4	3.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.60	22.62	22.50	24.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.73	22.75	22.59	24.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.74	22.94	22.82	24.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.03	23.12	23.03	24.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.91	22.90	22.74	24.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.09	23.18	23.10	24.4	0.0	



Part27Q_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		20.11					
100	PI2 BPSK	1	137		20.76		21.4	0.0		
100	PI2 BPSK	1	271		18.84					
100	PI2 BPSK	135	0		20.75		21.4	0.0		
100	PI2 BPSK	135	69		20.73		21.4	0.0		
100	PI2 BPSK	135	138		20.65		21.4	0.0		
100	PI2 BPSK	270	0		20.72					
100	QPSK	1	1		20.10					
100	QPSK	1	137		20.85		21.4	0.0		
100	QPSK	1	271		19.88					
100	QPSK	135	0		20.89					
100	QPSK	135	69		20.81		21.4	0.0		
100	QPSK	135	138		20.64					
100	QPSK	270	0		20.66		21.4	0.0		
100	16QAM	1	1		19.88		21.4	0.0		
100	64QAM	1	1		19.92		21.4	0.0		
100	256QAM	1	1		20.53		20.9	0.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.91	20.08	19.96	21.4	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.11	20.08	19.84	21.4	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.16	20.26	19.89	21.4	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.37	20.47	20.31	21.4	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.25	20.32	20.10	21.4	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.28	20.30	20.30	21.4	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.65	20.60	20.37	21.4	0.0		

Part27Q_n78(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		22.45					
100	PI2 BPSK	1	137		20.76		24.4	0.0		
100	PI2 BPSK	1	271		22.41					
100	PI2 BPSK	135	0		23.20		24.4	0.0		
100	PI2 BPSK	135	69		23.22		24.4	0.0		
100	PI2 BPSK	135	138		23.05		24.4	0.0		
100	PI2 BPSK	270	0		23.09					
100	QPSK	1	1		22.40					
100	QPSK	1	137		23.36		24.4	0.0		
100	QPSK	1	271		22.48					
100	QPSK	135	0		23.19					
100	QPSK	135	69		23.31		24.4	0.0		
100	QPSK	135	138		23.10					
100	QPSK	270	0		23.14		24.4	0.0		
100	16QAM	1	1		22.55		24.4	0.0		
100	64QAM	1	1		22.49		24.4	0.0		
100	256QAM	1	1		21.86		23.9	0.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.60	22.64	22.60	24.4	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.81	22.77	22.71	24.4	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.50	22.67	22.58	24.4	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.64	22.58	22.52	24.4	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.71	22.75	22.70	24.4	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.85	22.74	22.76	24.4	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.86	22.74	22.77	24.4	0.0		

Part27O_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		19.60					
100	PI2 BPSK	1	137		20.53		21.4	0.0		
100	PI2 BPSK	1	271		19.88					
100	PI2 BPSK	135	0		20.27		21.4	0.0		
100	PI2 BPSK	135	69		20.51		21.4	0.0		
100	PI2 BPSK	135	138		20.58		21.4	0.0		
100	PI2 BPSK	270	0		20.41					
100	QPSK	1	1		19.50					
100	QPSK	1	137		20.62		21.4	0.0		
100	QPSK	1	271		19.85					
100	QPSK	135	0		20.22					
100	QPSK	135	69		20.58		21.4	0.0		
100	QPSK	135	138		20.46					
100	QPSK	270	0		20.51		21.4	0.0		
100	16QAM	1	1		19.58		21.4	0.0		
100	64QAM	1	1		19.51		21.4	0.0		
100	256QAM	1	1		20.03		21.4	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.53	19.60	19.78	21.4	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.50	19.70	19.62	21.4	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.58	19.84	19.68	21.4	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.74	19.88	19.93	21.4	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.65	19.50	19.91	21.4	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.00	20.03	19.60	21.4	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.98	20.11	20.06	21.4	0.0		



Part270_n78(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.59	3750					
100	PI2 BPSK	1	137	23.42			24.4	0.0		
100	PI2 BPSK	1	271	22.28						
100	PI2 BPSK	135	0	23.17			24.4	0.0		
100	PI2 BPSK	135	69	23.38			24.4	0.0		
100	PI2 BPSK	135	138	23.38					24.4	0.0
100	PI2 BPSK	270	0	23.28						
100	QPSK	1	1	22.53						
100	QPSK	1	137	23.51			24.4	0.0		
100	QPSK	1	271	22.56						
100	QPSK	135	0	23.13						
100	QPSK	135	69	23.43			24.4	0.0		
100	QPSK	135	138	23.36						
100	QPSK	270	0	23.38			24.4	0.0		
100	16QAM	1	1	22.85			24.4	0.0		
100	64QAM	1	1	22.69			24.4	0.0		
100	256QAM	1	1	22.09			23.9	0.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.50	64968	63000				
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.54	64934	63000				
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.87	64968	63000				
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.83	64800	63000				
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.74	64768	63000				
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.05	64768	63000				
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.06	64768	63000				

Part270_n77_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.66	43332	3499.98				
100	PI2 BPSK	1	137	22.35			23.3	0.0		
100	PI2 BPSK	1	271	21.45						
100	PI2 BPSK	135	0	22.28			23.3	0.0		
100	PI2 BPSK	135	69	22.32			23.3	0.0		
100	PI2 BPSK	135	138	22.22					23.3	0.0
100	PI2 BPSK	270	0	22.24						
100	QPSK	1	1	21.59						
100	QPSK	1	137	22.37			23.3	0.0		
100	QPSK	1	271	21.45						
100	QPSK	135	0	22.32						
100	QPSK	135	69	22.35			23.3	0.0		
100	QPSK	135	138	22.27						
100	QPSK	270	0	22.20			22.8	0.5		
100	16QAM	1	1	21.41			22.3	1.0		
100	64QAM	1	1	21.39			22.3	1.0		
100	256QAM	1	1	20.34			21.8	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.35	63300	63332				
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.57	63068	63332				
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.99	63068	63332				
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.72	63134	63332				
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.82	63134	63332				
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.02	63068	63332				

Part270_n77(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	24.32	63068	63332				
100	PI2 BPSK	1	137	25.29			26.3	0.0		
100	PI2 BPSK	1	271	24.30						
100	PI2 BPSK	135	0	24.84			25.8	0.5		
100	PI2 BPSK	135	69	24.99			26.3	0.0		
100	PI2 BPSK	135	138	24.77					25.8	0.5
100	PI2 BPSK	270	0	24.78						
100	QPSK	1	1	24.57						
100	QPSK	1	137	25.33			26.3	0.0		
100	QPSK	1	271	24.38						
100	QPSK	135	0	24.22						
100	QPSK	135	69	25.30			26.3	0.0		
100	QPSK	135	138	24.50						
100	QPSK	270	0	24.21			25.3	1.0		
100	16QAM	1	1	24.17			25.3	1.0		
100	64QAM	1	1	23.32			23.8	2.5		
100	256QAM	1	1	20.30			21.8	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.52	63068	63332				
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.72	63068	63332				
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.68	63068	63332				
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.65	63134	63332				
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.67	63134	63332				
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.00	63068	63332				



Part270_n77_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.00	21.06	21.04				
100	PI2 BPSK	1	137	22.01	22.12	22.05	23.3	0.0		
100	PI2 BPSK	1	271	21.01	21.16	21.08				
100	PI2 BPSK	135	0	21.73	21.78	21.75	23.3	0.0		
100	PI2 BPSK	135	69	22.04	22.06	22.03	23.3	0.0		
100	PI2 BPSK	135	138	21.89	21.89	21.84	23.3	0.0		
100	PI2 BPSK	270	0	21.85	21.85	21.85				
100	QPSK	1	1	21.02	21.08	21.06				
100	QPSK	1	137	22.00	22.17	22.11	23.3	0.0		
100	QPSK	1	271	21.04	21.27	21.16				
100	QPSK	135	0	21.68	21.89	21.72				
100	QPSK	135	69	21.58	22.15	22.07	23.3	0.0		
100	QPSK	135	138	21.91	21.91	21.99				
100	QPSK	270	0	21.83	21.99	21.87	22.8	0.5		
100	16QAM	1	1	20.87	20.83	20.69	22.3	1.0		
100	64QAM	1	1	20.85	20.89	20.72	22.3	1.0		
100	256QAM	1	1	19.67	19.84	19.84	21.8	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.01	21.05	21.07	23.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.87	21.27	21.31	23.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.24	21.25	21.27	23.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.58	21.61	21.62	23.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.35	21.40	21.43	23.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.31	21.35	21.37	23.3	0.0		

Part270_n77(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	24.09	24.08	24.18				
100	PI2 BPSK	1	137	25.02	25.08	25.02	26.3	0.0		
100	PI2 BPSK	1	271	24.02	24.18	24.02				
100	PI2 BPSK	135	0	24.31	24.32	24.61	25.8	0.5		
100	PI2 BPSK	135	69	25.08	25.07	25.07	26.3	0.0		
100	PI2 BPSK	135	138	24.41	24.56	24.70	25.8	0.5		
100	PI2 BPSK	270	0	24.31	24.29	24.68				
100	QPSK	1	1	24.08	24.12	24.03				
100	QPSK	1	137	25.04	25.13	25.10	26.3	0.0		
100	QPSK	1	271	24.05	24.21	24.29				
100	QPSK	135	0	24.00	24.06	24.04				
100	QPSK	135	69	25.02	25.11	25.05	26.3	0.0		
100	QPSK	135	138	24.05	24.04	24.12				
100	QPSK	270	0	23.82	23.97	23.95	25.3	1.0		
100	16QAM	1	1	23.24	23.26	23.27	25.3	1.0		
100	64QAM	1	1	21.64	21.70	21.79	23.8	2.5		
100	256QAM	1	1	19.62	19.61	19.61	21.8	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.04	24.03	24.21	26.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.10	24.21	24.29	26.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.37	24.41	24.48	26.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.51	24.52	24.56	26.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.23	24.26	24.29	26.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.72	24.73	24.81	26.3	0.0		

Part27Q_n78_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.55						
100	PI2 BPSK	1	137	22.33			23.3	0.0		
100	PI2 BPSK	1	271	21.31						
100	PI2 BPSK	135	0	22.31			23.3	0.0		
100	PI2 BPSK	135	69	22.30			23.3	0.0		
100	PI2 BPSK	135	138	22.15			23.3	0.0		
100	PI2 BPSK	270	0	22.17						
100	QPSK	1	1	21.66						
100	QPSK	1	137	22.35			23.3	0.0		
100	QPSK	1	271	21.34						
100	QPSK	135	0	22.28						
100	QPSK	135	69	22.32			23.3	0.0		
100	QPSK	135	138	22.09						
100	QPSK	270	0	22.25			22.8	0.5		
100	16QAM	1	1	21.44			22.3	1.0		
100	64QAM	1	1	21.40			22.3	1.0		
100	256QAM	1	1	20.42			21.8	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.54	21.55	21.57	23.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.60	21.70	21.78	23.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.84	21.88	21.89	23.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.99	21.96	21.92	23.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.77	21.72	21.71	23.3	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.95	21.91	21.83	23.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.09	22.06	21.97	23.3	0.0		



Part27Q_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	24.32						
100	PI2 BPSK	1	137	25.28			26.3	0.0		
100	PI2 BPSK	1	271	24.34						
100	PI2 BPSK	135	0	24.70			25.8	0.5		
100	PI2 BPSK	135	69	25.12			26.3	0.0		
100	PI2 BPSK	135	138	24.64			25.8	0.5		
100	PI2 BPSK	270	0	24.74						
100	QPSK	1	1	24.63						
100	QPSK	1	137	25.32			26.3	0.0		
100	QPSK	1	271	24.30						
100	QPSK	135	0	24.31						
100	QPSK	135	69	25.30			26.3	0.0		
100	QPSK	135	138	24.32						
100	QPSK	270	0	24.21			25.3	1.0		
100	16QAM	1	1	23.74			25.3	1.0		
100	64QAM	1	1	22.35			23.8	2.5		
100	256QAM	1	1	20.24			21.8	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.53	24.45	24.44	26.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.85	24.63	24.62	26.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.79	24.72	24.70	26.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.87	24.84	24.81	26.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.84	24.62	24.61	26.3	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.86	24.81	24.79	26.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.97	24.94	24.92	26.3	0.0		

Part27O_n78_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.02						
100	PI2 BPSK	1	137	21.84			23.3	0.0		
100	PI2 BPSK	1	271	21.00						
100	PI2 BPSK	135	0	21.60			23.3	0.0		
100	PI2 BPSK	135	69	21.90			23.3	0.0		
100	PI2 BPSK	135	138	21.62			23.3	0.0		
100	PI2 BPSK	270	0	21.71						
100	QPSK	1	1	21.01						
100	QPSK	1	137	21.97			23.3	0.0		
100	QPSK	1	271	21.03						
100	QPSK	135	0	21.67						
100	QPSK	135	69	21.34			23.3	0.0		
100	QPSK	135	138	21.75						
100	QPSK	270	0	21.78			22.8	0.5		
100	16QAM	1	1	20.82			22.3	1.0		
100	64QAM	1	1	20.64			22.3	1.0		
100	256QAM	1	1	18.73			21.8	1.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.04	21.00	21.02	23.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.01	21.00	21.04	23.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.30	21.41	21.44	23.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.44	21.41	21.46	23.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.31	21.32	21.34	23.3	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.47	21.45	21.46	23.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.68	21.62	21.67	23.3	0.0		

Part27O_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	24.01						
100	PI2 BPSK	1	137	24.97			26.3	0.0		
100	PI2 BPSK	1	271	24.03						
100	PI2 BPSK	135	0	24.19			25.8	0.5		
100	PI2 BPSK	135	69	24.95			26.3	0.0		
100	PI2 BPSK	135	138	24.22			25.8	0.5		
100	PI2 BPSK	270	0	24.24						
100	QPSK	1	1	24.03						
100	QPSK	1	137	25.00			26.3	0.0		
100	QPSK	1	271	24.05						
100	QPSK	135	0	24.01						
100	QPSK	135	69	24.97			26.3	0.0		
100	QPSK	135	138	24.03						
100	QPSK	270	0	23.78			25.3	1.0		
100	16QAM	1	1	23.15			25.3	1.0		
100	64QAM	1	1	21.80			23.8	2.5		
100	256QAM	1	1	19.51			21.8	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.12	24.15	24.05	26.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.21	24.31	24.32	26.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.51	24.54	24.56	26.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.61	24.62	24.60	26.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.29	24.32	24.28	26.3	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.55	24.67	24.56	26.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.74	24.79	24.72	26.3	0.0		



Part27Q_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.37	21.27	21.48	22.0	0.0	
100	PI2 BPSK	1	137	20.42	21.27	21.48	22.0	0.0	
100	PI2 BPSK	1	271	20.42	21.27	21.48	22.0	0.0	
100	PI2 BPSK	135	0	21.16	21.25	21.29	22.0	0.0	
100	PI2 BPSK	135	69	21.25	21.25	21.29	22.0	0.0	
100	PI2 BPSK	135	138	21.24	21.24	21.24	22.0	0.0	
100	PI2 BPSK	270	0	21.08	21.08	21.08	22.0	0.0	
100	QPSK	1	1	20.40	20.40	20.40	22.0	0.0	
100	QPSK	1	137	21.33	21.33	21.33	22.0	0.0	
100	QPSK	1	271	20.46	20.46	20.46	22.0	0.0	
100	QPSK	135	0	21.18	21.18	21.18	22.0	0.0	
100	QPSK	135	69	21.31	21.31	21.31	22.0	0.0	
100	QPSK	135	138	21.26	21.26	21.26	22.0	0.0	
100	QPSK	270	0	21.17	21.17	21.17	22.0	0.0	
100	16QAM	1	1	20.37	20.37	20.37	22.0	0.0	
100	64QAM	1	1	20.34	20.34	20.34	22.0	0.0	
100	256QAM	1	1	20.78	20.78	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.45	20.47	20.46	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.53	20.51	20.56	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.57	20.65	20.73	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.72	20.77	20.86	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.50	20.62	20.54	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.96	21.03	20.94	22.0	0.0	

Part27Q_n77(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.44	24.26	24.26	25.0	0.0	
100	PI2 BPSK	1	137	23.52	24.26	24.26	25.0	0.0	
100	PI2 BPSK	1	271	23.52	24.26	24.26	25.0	0.0	
100	PI2 BPSK	135	0	24.12	24.21	24.21	25.0	0.0	
100	PI2 BPSK	135	69	24.21	24.21	24.21	25.0	0.0	
100	PI2 BPSK	135	138	24.23	24.23	24.23	25.0	0.0	
100	PI2 BPSK	270	0	23.90	23.90	23.90	25.0	0.0	
100	QPSK	1	1	23.35	23.35	23.35	25.0	0.0	
100	QPSK	1	137	24.38	24.38	24.38	25.0	0.0	
100	QPSK	1	271	23.52	23.52	23.52	25.0	0.0	
100	QPSK	135	0	24.15	24.15	24.15	25.0	0.0	
100	QPSK	135	69	24.35	24.35	24.35	25.0	0.0	
100	QPSK	135	138	24.27	24.27	24.27	25.0	0.0	
100	QPSK	270	0	24.21	24.21	24.21	25.0	0.0	
100	16QAM	1	1	23.60	23.60	23.60	25.0	0.0	
100	64QAM	1	1	23.55	23.55	23.55	25.0	0.0	
100	256QAM	1	1	23.46	23.46	23.46	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.43	23.44	23.32	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.39	23.43	23.48	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.50	23.58	23.67	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.66	23.69	23.77	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.51	23.59	23.62	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.72	23.77	23.77	25.0	0.0	

Part27O_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.33	20.43	20.39	22.0	0.0	
100	PI2 BPSK	1	137	21.48	21.51	21.49	22.0	0.0	
100	PI2 BPSK	1	271	20.65	20.62	20.48	22.0	0.0	
100	PI2 BPSK	135	0	21.17	21.20	21.09	22.0	0.0	
100	PI2 BPSK	135	69	21.48	21.49	21.47	22.0	0.0	
100	PI2 BPSK	135	138	21.31	21.34	21.24	22.0	0.0	
100	PI2 BPSK	270	0	21.22	21.25	21.30	22.0	0.0	
100	QPSK	1	1	20.57	20.57	20.58	22.0	0.0	
100	QPSK	1	137	21.51	21.53	21.43	22.0	0.0	
100	QPSK	1	271	20.63	20.70	20.72	22.0	0.0	
100	QPSK	135	0	21.30	21.23	21.19	22.0	0.0	
100	QPSK	135	69	21.45	21.50	21.35	22.0	0.0	
100	QPSK	135	138	21.41	21.46	21.31	22.0	0.0	
100	QPSK	270	0	21.25	21.36	21.34	22.0	0.0	
100	16QAM	1	1	20.13	20.29	20.14	22.0	0.0	
100	64QAM	1	1	20.28	20.35	20.28	22.0	0.0	
100	256QAM	1	1	20.82	20.84	20.86	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.58	20.43	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.63	20.61	20.68	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.83	20.91	20.82	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.90	20.92	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.67	20.78	20.75	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.88	20.97	21.06	22.0	0.0	



Part270_n77(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.42	23.54	23.58				
100	PI2 BPSK	1	137	24.45	24.45	24.45	25.0	0.0		
100	PI2 BPSK	1	271	23.89	23.90	23.78				
100	PI2 BPSK	135	0	24.14	24.22	24.21	25.0	0.0		
100	PI2 BPSK	135	69	24.47	24.50	24.42	25.0	0.0		
100	PI2 BPSK	135	138	24.34	24.34	24.19				
100	PI2 BPSK	270	0	24.26	24.36	24.37	25.0	0.0		
100	QPSK	1	1	24.31	24.43	24.38				
100	QPSK	1	137	24.35	24.52	24.45	25.0	0.0		
100	QPSK	1	271	23.59	23.68	23.62				
100	QPSK	135	0	24.14	24.25	24.28				
100	QPSK	135	69	24.45	24.45	24.45	25.0	0.0		
100	QPSK	135	138	24.26	24.38	24.23				
100	QPSK	270	0	24.38	24.39	24.21	25.0	0.0		
100	16QAM	1	1	23.66	23.70	23.66	25.0	0.0		
100	64QAM	1	1	23.73	23.71	23.69	25.0	0.0		
100	256QAM	1	1	21.73	21.71	21.73	23.0	2.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.45	23.50	23.59	25.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.43	23.50	23.58	25.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.64	23.60	23.66	25.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.75	23.73	23.74	25.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.51	23.57	23.56	25.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.80	23.85	23.76	25.0	0.0		

Part27Q_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1							
100	PI2 BPSK	1	137	22.24			23.0	0.0		
100	PI2 BPSK	1	271	21.44						
100	PI2 BPSK	135	0	22.20			23.0	0.0		
100	PI2 BPSK	135	69	22.28			23.0	0.0		
100	PI2 BPSK	135	138	22.21						
100	PI2 BPSK	270	0	22.18			23.0	0.0		
100	QPSK	1	1	21.36						
100	QPSK	1	137	21.39			23.0	0.0		
100	QPSK	1	271	22.59						
100	QPSK	135	0	22.15						
100	QPSK	135	69	22.35			23.0	0.0		
100	QPSK	135	138	22.20						
100	QPSK	270	0	22.25			23.0	0.0		
100	16QAM	1	1	21.15			23.0	0.0		
100	64QAM	1	1	21.19			23.0	0.0		
100	256QAM	1	1	21.80			23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.25	21.22	21.21	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.33	21.22	21.33	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.39	21.43	21.45	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.63	21.69	21.70	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.59	21.59	21.56	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.56	21.71	21.65	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.03	22.16	22.22	23.0	0.0		

Part27Q_n78(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1							
100	PI2 BPSK	1	137	24.40			26.0	0.0		
100	PI2 BPSK	1	271	24.44						
100	PI2 BPSK	135	0	25.16			26.0	0.0		
100	PI2 BPSK	135	69	25.17			26.0	0.0		
100	PI2 BPSK	135	138	25.28						
100	PI2 BPSK	270	0	25.17			26.0	0.0		
100	QPSK	1	1	24.36						
100	QPSK	1	137	25.39			26.0	0.0		
100	QPSK	1	271	24.42						
100	QPSK	135	0	25.16						
100	QPSK	135	69	25.36			26.0	0.0		
100	QPSK	135	138	25.23						
100	QPSK	270	0	25.28			26.0	0.0		
100	16QAM	1	1	24.27			26.0	0.0		
100	64QAM	1	1	23.50			25.0	1.0		
100	256QAM	1	1	21.46			23.0	3.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.38	24.47	24.53	26.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.19	24.21	24.20	26.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.42	24.46	24.46	26.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.55	24.57	24.51	26.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.23	24.29	24.43	26.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.60	24.65	24.62	26.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.05	24.99	25.11	26.0	0.0		



Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.21	21.21	21.21				
100	PI2 BPSK	1	137	22.14	22.14	22.14	23.0	0.0		
100	PI2 BPSK	1	271	21.35	21.35	21.35				
100	PI2 BPSK	135	0	22.05	22.05	22.05	23.0	0.0		
100	PI2 BPSK	135	69	22.13	22.13	22.13	23.0	0.0		
100	PI2 BPSK	135	138	22.10	22.10	22.10	23.0	0.0		
100	PI2 BPSK	270	0	21.98	21.98	21.98				
100	QPSK	1	1	21.17	21.17	21.17				
100	QPSK	1	137	22.28	22.28	22.28	23.0	0.0		
100	QPSK	1	271	21.34	21.34	21.34				
100	QPSK	135	0	21.97	21.97	21.97				
100	QPSK	135	69	22.23	22.23	22.23	23.0	0.0		
100	QPSK	135	138	22.09	22.09	22.09				
100	QPSK	270	0	22.04	22.04	22.04	23.0	0.0		
100	16QAM	1	1	21.08	21.08	21.08	23.0	0.0		
100	64QAM	1	1	21.16	21.16	21.16	23.0	0.0		
100	256QAM	1	1	21.53	21.53	21.53	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.14	21.25	21.00	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.84	21.24	21.38	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.45	21.50	21.59	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.66	21.73	21.82	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.43	21.55	21.56	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.65	21.73	21.81	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.93	21.97	21.90	23.0	0.0		

Part270_n78(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	24.26	24.26	24.26				
100	PI2 BPSK	1	137	25.35	25.35	25.35	26.0	0.0		
100	PI2 BPSK	1	271	24.39	24.39	24.39				
100	PI2 BPSK	135	0	25.08	25.08	25.08	26.0	0.0		
100	PI2 BPSK	135	69	25.32	25.32	25.32	26.0	0.0		
100	PI2 BPSK	135	138	25.15	25.15	25.15	26.0	0.0		
100	PI2 BPSK	270	0	25.19	25.19	25.19				
100	QPSK	1	1	24.21	24.21	24.21				
100	QPSK	1	137	25.38	25.38	25.38	26.0	0.0		
100	QPSK	1	271	24.38	24.38	24.38				
100	QPSK	135	0	25.12	25.12	25.12				
100	QPSK	135	69	25.35	25.35	25.35	26.0	0.0		
100	QPSK	135	138	25.18	25.18	25.18				
100	QPSK	270	0	25.27	25.27	25.27	26.0	0.0		
100	16QAM	1	1	24.47	24.47	24.47	26.0	0.0		
100	64QAM	1	1	24.33	24.33	24.33	25.0	1.0		
100	256QAM	1	1	24.21	24.21	24.21	23.0	3.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.25	24.23	24.23	26.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.23	24.27	24.22	26.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.47	24.47	24.40	26.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.60	24.69	24.69	26.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.32	24.43	24.43	26.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.65	24.70	24.73	26.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.82	24.77	24.81	26.0	0.0		

Part27Q_n77_Ant 6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.62	19.62	19.62				
100	PI2 BPSK	1	137	20.44	20.44	20.44	21.3	0.0		
100	PI2 BPSK	1	271	19.61	19.61	19.61				
100	PI2 BPSK	135	0	20.38	20.38	20.38	21.3	0.0		
100	PI2 BPSK	135	69	20.46	20.46	20.46	21.3	0.0		
100	PI2 BPSK	135	138	20.31	20.31	20.31	21.3	0.0		
100	PI2 BPSK	270	0	20.35	20.35	20.35				
100	QPSK	1	1	19.64	19.64	19.64				
100	QPSK	1	137	20.53	20.53	20.53	21.3	0.0		
100	QPSK	1	271	19.61	19.61	19.61				
100	QPSK	135	0	20.33	20.33	20.33				
100	QPSK	135	69	20.49	20.49	20.49	21.3	0.0		
100	QPSK	135	138	20.24	20.24	20.24				
100	QPSK	270	0	20.21	20.21	20.21	21.3	0.0		
100	16QAM	1	1	19.43	19.43	19.43	20.8	0.5		
100	64QAM	1	1	19.42	19.42	19.42	20.8	0.5		
100	256QAM	1	1	19.01	19.01	19.01	20.3	1.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.85	19.83	19.76	21.3	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.83	19.82	19.84	21.3	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.98	19.97	19.93	21.3	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.13	20.12	20.08	21.3	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.97	19.84	19.82	21.3	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.28	20.29	20.33	21.3	0.0		



Part27Q_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.64					
100	PI2 BPSK	1	137	23.49			24.3	0.0	
100	PI2 BPSK	1	271	22.60					
100	PI2 BPSK	135	0	23.38			24.3	0.0	
100	PI2 BPSK	135	69	23.39			24.3	0.0	
100	PI2 BPSK	135	138	23.28			24.3	0.0	
100	PI2 BPSK	270	0	23.30					
100	QPSK	1	1	22.57					
100	QPSK	1	137	23.54			24.3	0.0	
100	QPSK	1	271	22.48					
100	QPSK	135	0	23.88					
100	QPSK	135	69	23.48			24.3	0.0	
100	QPSK	135	138	22.78					
100	QPSK	270	0	22.86			23.8	0.5	
100	16QAM	1	1	22.28			23.8	0.5	
100	64QAM	1	1	20.77			22.3	2.0	
100	256QAM	1	1	18.85			20.3	4.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.75	22.84	22.74	24.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3499.98	3510	24.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.84	23.00	23.03	24.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.02	23.08	23.00	24.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.77	22.88	22.82	24.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.24	23.21	23.21	24.3	0.0	

Part27O_n77_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.65	19.51	19.37			
100	PI2 BPSK	1	137	20.47	20.21	20.18	21.3	0.0	
100	PI2 BPSK	1	271	19.30	19.38	19.30			
100	PI2 BPSK	135	0	20.33	20.18	20.11	21.3	0.0	
100	PI2 BPSK	135	69	20.42	20.27	20.27	21.3	0.0	
100	PI2 BPSK	135	138	20.16	19.97	19.96	21.3	0.0	
100	PI2 BPSK	270	0	20.24	20.07	20.01			
100	QPSK	1	1	19.66	19.53	19.46			
100	QPSK	1	137	20.48	20.20	20.00	21.3	0.0	
100	QPSK	1	271	19.31	19.35	19.34			
100	QPSK	135	0	20.32	20.15	19.98			
100	QPSK	135	69	20.41	20.25	19.95	21.3	0.0	
100	QPSK	135	138	20.19	20.02	19.95			
100	QPSK	270	0	20.22	20.02	19.82	21.3	0.0	
100	16QAM	1	1	19.38	19.26	19.23	20.8	0.5	
100	64QAM	1	1	19.43	19.27	19.22	20.8	0.5	
100	256QAM	1	1	18.88	18.87	18.88	20.3	1.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.73	19.69	19.64	21.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3840	3939.99	21.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.11	19.89	19.62	21.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.15	19.97	19.83	21.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.00	19.74	19.56	21.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.30	20.05	19.83	21.3	0.0	

Part27O_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.00	22.81	22.44			
100	PI2 BPSK	1	137	23.50	23.32	23.00	24.3	0.0	
100	PI2 BPSK	1	271	22.40	22.45	22.35			
100	PI2 BPSK	135	0	23.44	23.32	23.03	24.3	0.0	
100	PI2 BPSK	135	69	23.49	23.36	23.03	24.3	0.0	
100	PI2 BPSK	135	138	23.26	23.12	23.00	24.3	0.0	
100	PI2 BPSK	270	0	23.42	23.20	23.08			
100	QPSK	1	1	22.80	22.57	22.30			
100	QPSK	1	137	23.51	23.19	23.00	24.3	0.0	
100	QPSK	1	271	22.31	22.36	22.30			
100	QPSK	135	0	22.91	22.75	22.38			
100	QPSK	135	69	23.50	23.14	23.05	24.3	0.0	
100	QPSK	135	138	22.86	22.54	22.50			
100	QPSK	270	0	22.77	22.66	22.61	23.8	0.5	
100	16QAM	1	1	22.31	22.20	22.07	22.8	0.5	
100	64QAM	1	1	20.78	20.80	20.50	22.3	2.0	
100	256QAM	1	1	18.64	18.61	18.50	20.3	4.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.84	22.84	22.50	24.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3840	3939.99	21.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.85	22.70	22.59	24.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.97	22.86	22.63	24.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.75	22.65	22.52	24.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.07	23.05	22.77	24.3	0.0	



Part27Q_n78_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				3499.98			
100	Pl2 BPSK	1	1	19.59			21.3
100	Pl2 BPSK	1	137	20.47			0.0
100	Pl2 BPSK	1	211	19.55			
100	Pl2 BPSK	135	0	20.33			21.3
100	Pl2 BPSK	135	69	20.41			0.0
100	Pl2 BPSK	135	138	20.27			21.3
100	Pl2 BPSK	230	0	20.25			0.0
100	QPSK	1	1	19.62			
100	QPSK	1	137	20.51			21.3
100	QPSK	1	271	19.58			
100	QPSK	135	0	20.32			21.3
100	QPSK	135	69	20.47			0.0
100	QPSK	135	138	20.23			
100	QPSK	270	0	20.24			21.3
100	16QAM	1	1	19.36			20.8
100	16QAM	1	1	19.40			0.5
100	256QAM	1	1	19.06			20.3
100	256QAM	1	1	20.3			1.0
Channel							
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3466	3499.98	3504.98	MPR (dB)
90	QPSK	1	1	19.68	19.84	19.73	21.3
Channel							
Frequency (MHz)				630668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	MPR (dB)
80	QPSK	1	1	19.59	19.65	19.75	21.3
Channel							
Frequency (MHz)				635000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	MPR (dB)
60	QPSK	1	1	19.84	19.88	19.84	21.3
Channel							
Frequency (MHz)				631668	633332	633000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3505	MPR (dB)
50	QPSK	1	1	20.02	19.97	20.00	21.3
Channel							
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3471.01	3499.98	3509.98	MPR (dB)
40	QPSK	1	1	19.75	19.80	19.79	21.3
Channel							
Frequency (MHz)				631000	633332	636666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	MPR (dB)
30	QPSK	1	1	19.37	19.92	19.91	21.3
Channel							
Frequency (MHz)				630668	633332	633000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	MPR (dB)
20	QPSK	1	1	20.14	20.09	20.15	21.3

Part27Q_n78(HPUE)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				3499.98			
100	Pl2 BPSK	1	1	22.65			24.3
100	Pl2 BPSK	1	137	23.50			0.0
100	Pl2 BPSK	1	211	22.60			
100	Pl2 BPSK	135	0	23.37			24.3
100	Pl2 BPSK	135	69	23.35			0.0
100	Pl2 BPSK	135	138	23.27			24.3
100	Pl2 BPSK	230	0	23.34			0.0
100	QPSK	1	1	22.56			
100	QPSK	1	137	23.53			24.3
100	QPSK	1	271	22.54			
100	QPSK	135	0	22.83			24.3
100	QPSK	135	69	23.46			0.0
100	QPSK	135	138	22.76			
100	QPSK	270	0	23.01			23.8
100	16QAM	1	1	22.48			23.8
100	16QAM	1	1	22.95			2.0
100	256QAM	1	1	18.83			20.3
100	256QAM	1	1	20.3			4.0
Channel							
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3466	3499.98	3504.98	MPR (dB)
90	QPSK	1	1	22.71	22.80	22.77	24.3
Channel							
Frequency (MHz)				630668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	MPR (dB)
80	QPSK	1	1	22.56	22.63	22.63	24.3
Channel							
Frequency (MHz)				635000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	MPR (dB)
60	QPSK	1	1	23.01	23.07	22.95	24.3
Channel							
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3505	MPR (dB)
50	QPSK	1	1	23.22	23.26	23.18	24.3
Channel							
Frequency (MHz)				631334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3471.01	3499.98	3509.98	MPR (dB)
40	QPSK	1	1	22.92	22.98	22.91	24.3
Channel							
Frequency (MHz)				631000	633332	636666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	MPR (dB)
30	QPSK	1	1	23.13	23.18	23.12	24.3
Channel							
Frequency (MHz)				630668	633332	633000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	MPR (dB)
20	QPSK	1	1	23.33	23.29	23.27	24.3



Part270_n78_Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
65000							
100	Pl2 BPSK	1	1	19.42			
100	Pl2 BPSK	1	137	20.33			21.3
100	Pl2 BPSK	1	211	19.43			0.0
100	Pl2 BPSK	135	0	20.17			21.3
100	Pl2 BPSK	135	69	20.31			0.0
100	Pl2 BPSK	135	138	20.04			21.3
100	Pl2 BPSK	230	0	20.08			0.0
100	QPSK	1	1	19.45			
100	QPSK	1	137	20.42			21.3
100	QPSK	1	271	19.47			
100	QPSK	135	0	20.12			21.3
100	QPSK	135	69	20.32			0.0
100	QPSK	135	138	20.02			21.3
100	QPSK	270	0	20.15			0.0
100	16QAM	1	1	19.17			20.8
100	16QAM	1	1	19.19			0.5
100	256QAM	1	1	19.93			20.3
100	256QAM	1	1	20.3			1.0
Channel							
Frequency (MHz)							
64968							
65000							
65032							
Tune-up limit (dBm)							
MPR (dB)							
90	QPSK	1	1	19.54	19.50	19.86	21.3
Channel							
Frequency (MHz)							
64934							
65000							
65066							
Tune-up limit (dBm)							
MPR (dB)							
80	QPSK	1	1	19.21	19.21	19.94	21.3
Channel							
Frequency (MHz)							
64968							
65000							
65132							
Tune-up limit (dBm)							
MPR (dB)							
60	QPSK	1	1	19.84	19.85	19.95	21.3
Channel							
Frequency (MHz)							
64934							
65000							
65166							
Tune-up limit (dBm)							
MPR (dB)							
50	QPSK	1	1	20.05	20.01	20.08	21.3
Channel							
Frequency (MHz)							
64900							
65000							
65200							
Tune-up limit (dBm)							
MPR (dB)							
40	QPSK	1	1	19.91	19.76	19.90	21.3
Channel							
Frequency (MHz)							
64768							
65000							
65232							
Tune-up limit (dBm)							
MPR (dB)							
30	QPSK	1	1	20.06	20.02	20.00	21.3
Channel							
Frequency (MHz)							
64934							
65000							
65266							
Tune-up limit (dBm)							
MPR (dB)							
20	QPSK	1	1	20.17	20.07	20.08	21.3

Part270_n78(HPUE)_Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
3760							
100	Pl2 BPSK	1	1	22.38			
100	Pl2 BPSK	1	137	23.17			24.3
100	Pl2 BPSK	1	271	22.31			0.0
100	Pl2 BPSK	135	0	23.08			24.3
100	Pl2 BPSK	135	69	23.12			0.0
100	Pl2 BPSK	135	138	22.97			24.3
100	Pl2 BPSK	230	0	23.01			0.0
100	QPSK	1	1	22.33			
100	QPSK	1	137	23.32			24.3
100	QPSK	1	271	22.38			0.0
100	QPSK	135	0	22.58			24.3
100	QPSK	135	69	23.28			0.0
100	QPSK	135	138	22.47			24.3
100	QPSK	270	0	22.55			0.5
100	16QAM	1	1	21.98			23.8
100	16QAM	1	1	20.42			2.0
100	256QAM	1	1	18.36			4.0
100	256QAM	1	1	20.3			1.0
Channel							
Frequency (MHz)							
64968							
65000							
65032							
Tune-up limit (dBm)							
MPR (dB)							
90	QPSK	1	1	22.51	22.56	22.52	24.3
Channel							
Frequency (MHz)							
64934							
65000							
65066							
Tune-up limit (dBm)							
MPR (dB)							
80	QPSK	1	1	22.54	22.58	22.68	24.3
Channel							
Frequency (MHz)							
64968							
65000							
65132							
Tune-up limit (dBm)							
MPR (dB)							
60	QPSK	1	1	22.73	22.72	22.80	24.3
Channel							
Frequency (MHz)							
64934							
65000							
65166							
Tune-up limit (dBm)							
MPR (dB)							
50	QPSK	1	1	22.84	22.90	23.00	24.3
Channel							
Frequency (MHz)							
64900							
65000							
65200							
Tune-up limit (dBm)							
MPR (dB)							
40	QPSK	1	1	22.58	22.55	22.82	24.3
Channel							
Frequency (MHz)							
64768							
65000							
65232							
Tune-up limit (dBm)							
MPR (dB)							
30	QPSK	1	1	22.76	22.86	22.90	24.3
Channel							
Frequency (MHz)							
64934							
65000							
65266							
Tune-up limit (dBm)							
MPR (dB)							
20	QPSK	1	1	22.97	22.96	23.07	24.3



n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.53	24.58	24.48			
20	PI2 BPSK	1	53	24.34	24.43	24.31	25.5	0.0	
20	PI2 BPSK	1	104	24.30	24.45	24.35			
20	PI2 BPSK	50	0	23.83	23.95	23.92	25.0	0.5	
20	PI2 BPSK	50	28	24.34	24.45	24.42	25.5	0.0	
20	PI2 BPSK	50	56	23.95	23.99	23.82	25.0	0.5	
20	PI2 BPSK	100	0	24.00	24.03	23.92			
20	QPSK	1	1	24.52	24.61	24.57			
20	QPSK	1	53	24.40	24.54	24.44	25.5	0.0	
20	QPSK	1	104	24.26	24.37	24.31			
20	QPSK	50	0	23.31	23.47	23.37	24.5	1.0	
20	QPSK	50	28	24.39	24.53	24.46	25.5	0.0	
20	QPSK	50	56	23.28	23.43	23.28	24.5	1.0	
20	QPSK	100	0	23.44	23.51	23.38			
20	16QAM	1	1	23.12	23.22	23.13	24.5	1.0	
20	64QAM	1	1	21.58	21.63	21.55	23.0	2.5	
20	256QAM	1	1	20.07	20.23	20.13	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.42	24.45	24.51	25.5	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.45	24.44	24.40	25.5	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	24.42	24.57	24.54	25.5	0.0	

DS4									
n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.45	23.56	23.41			
20	PI2 BPSK	1	53	23.71	23.76	23.63	24.8	0.0	
20	PI2 BPSK	1	104	23.46	23.58	23.52			
20	PI2 BPSK	50	0	23.57	23.61	23.57	24.8	0.0	
20	PI2 BPSK	50	28	23.86	23.76	23.86	24.8	0.0	
20	PI2 BPSK	50	56	23.40	23.48	23.39	24.8	0.0	
20	PI2 BPSK	100	0	23.58	23.63	23.54			
20	QPSK	1	1	23.34	23.47	23.36			
20	QPSK	1	53	23.59	23.60	23.51	24.8	0.0	
20	QPSK	1	104	23.44	23.47	23.39			
20	QPSK	50	0	23.07	23.11	23.04	24.3	0.5	
20	QPSK	50	28	23.71	23.74	23.73	24.8	0.0	
20	QPSK	50	56	23.05	23.18	23.15	24.3	0.5	
20	QPSK	100	0	23.17	23.25	23.16			
20	16QAM	1	1	22.86	22.76	22.84	24.3	0.5	
20	64QAM	1	1	21.31	21.36	21.28	22.8	2.0	
20	256QAM	1	1	19.78	19.91	19.87	20.8	4.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.38	23.41	23.41	24.8	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.32	23.43	23.40	24.8	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.37	23.49	23.52	24.8	0.0	

n7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	20.07	20.71	20.47			
50	PI2 BPSK	1	135	21.00	21.02	21.03	22.0	0.0	
50	PI2 BPSK	1	268	20.08	20.71	20.85			
50	PI2 BPSK	135	0	20.99	21.10	21.11	22.0	0.0	
50	PI2 BPSK	135	68	21.09	21.12	21.11	22.0	0.0	
50	PI2 BPSK	135	135	21.08	21.10	20.98	22.0	0.0	
50	PI2 BPSK	270	0	21.03	21.12	21.03			
50	QPSK	1	1	21.11	21.14	21.09			
50	QPSK	1	135	21.08	21.13	20.86	22.0	0.0	
50	QPSK	1	268	20.72	20.75	20.74			
50	QPSK	135	0	21.02	21.07	21.03	22.0	0.0	
50	QPSK	135	68	21.05	21.11	21.04	22.0	0.0	
50	QPSK	135	135	21.02	21.08	21.00	22.0	0.0	
50	QPSK	270	0	21.04	21.10	21.06			
50	16QAM	1	1	20.39	20.51	20.53	22.0	0.0	
50	64QAM	1	1	20.56	20.54	20.44	22.0	0.0	
50	256QAM	1	1	20.13	20.18	20.15	21.0	1.0	
Channel				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530	2535	2560			
40	QPSK	1	1	20.59	20.83	20.59	22.0	0.0	
Channel				506000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2535	2535	2565			
30	QPSK	1	1	20.52	20.52	20.60	22.0	0.0	
Channel				505500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2527.5	2535	2577.5			
25	QPSK	1	1	20.67	20.65	20.61	22.0	0.0	
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2527.5	2535	2572.5			
20	QPSK	1	1	20.52	20.71	20.55	22.0	0.0	
Channel				505000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2527.5	2535	2572.5			
15	QPSK	1	1	20.58	20.54	20.60	22.0	0.0	
Channel				507000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.56	20.65	20.67	22.0	0.0	
Channel				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.66	20.67	20.55	22.0	0.0	



n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	18.37	18.47	18.44			
50	PI2 BPSK	1	135	18.51	18.61	18.57	20.1	0.0	
50	PI2 BPSK	1	268	18.12	18.18	18.16			
50	PI2 BPSK	135	0	18.59	18.69	18.66	20.1	0.0	
50	PI2 BPSK	135	68	18.61	18.66	18.63	20.1	0.0	
50	PI2 BPSK	135	135	18.44	18.55	18.50			
50	PI2 BPSK	270	0	18.52	18.63	18.55	20.1	0.0	
50	QPSK	1	1	18.31	18.39	18.29			
50	QPSK	1	135	18.07	18.71	18.01	20.1	0.0	
50	QPSK	1	268	18.16	18.16	18.15			
50	QPSK	135	0	18.57	18.63	18.55	20.1	0.0	
50	QPSK	135	68	18.64	18.65	18.56	20.1	0.0	
50	QPSK	135	135	18.53	18.56	18.52	20.1	0.0	
50	QPSK	270	0	18.56	18.62	18.54			
50	16QAM	1	1	18.17	18.14	18.15	20.1	0.0	
50	64QAM	1	1	18.15	18.18	18.18	20.1	0.0	
50	256QAM	1	1	18.59	18.70	18.64	20.1	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2525	2535	2550			
40	QPSK	1	1	18.27	18.36	18.30	20.1	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2565			
30	QPSK	1	1	18.36	18.39	18.42	20.1	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2567.5			
25	QPSK	1	1	18.27	18.47	18.38	20.1	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
20	QPSK	1	1	18.31	18.34	18.37	20.1	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.26	18.35	18.34	20.1	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2566			
10	QPSK	1	1	18.35	18.40	18.30	20.1	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.5	2535	2561.5			
5	QPSK	1	1	18.22	18.33	18.37	20.1	0.0	

n7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	17.35	17.34	17.30			
50	PI2 BPSK	1	135	17.46	17.46	17.43	19.2	0.0	
50	PI2 BPSK	1	268	17.38	17.33	17.33			
50	PI2 BPSK	135	0	17.39	17.34	17.32	19.2	0.0	
50	PI2 BPSK	135	68	17.37	17.39	17.32	19.2	0.0	
50	PI2 BPSK	135	135	17.36	17.41	17.35			
50	PI2 BPSK	270	0	17.37	17.34	17.31	19.2	0.0	
50	QPSK	1	1	17.36	17.33	17.30			
50	QPSK	1	135	17.45	17.47	17.35	19.2	0.0	
50	QPSK	1	268	17.33	17.35	17.31			
50	QPSK	135	0	17.30	17.31	17.34	19.2	0.0	
50	QPSK	135	68	17.36	17.42	17.40	19.2	0.0	
50	QPSK	135	135	17.35	17.39	17.40	19.2	0.0	
50	QPSK	270	0	17.31	17.35	17.32			
50	16QAM	1	1	17.34	17.35	17.33	19.2	0.0	
50	64QAM	1	1	17.33	17.32	17.34	19.2	0.0	
50	256QAM	1	1	17.42	17.45	17.40	19.2	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	17.36	17.35	17.30	19.2	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2565			
30	QPSK	1	1	17.23	17.31	17.25	19.2	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2567.5			
25	QPSK	1	1	17.32	17.30	17.30	19.2	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
20	QPSK	1	1	17.32	17.30	17.33	19.2	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.23	17.31	17.30	19.2	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2566			
10	QPSK	1	1	17.31	17.35	17.30	19.2	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.5	2535	2561.5			
5	QPSK	1	1	17.36	17.30	17.35	19.2	0.0	

n7_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	22.04	22.19	22.15			
50	PI2 BPSK	1	135	22.32	22.44	22.31	23.7	0.0	
50	PI2 BPSK	1	268	22.02	22.14	22.10			
50	PI2 BPSK	135	0	22.29	22.51	22.48	23.7	0.0	
50	PI2 BPSK	135	68	22.49	22.63	22.63	23.7	0.0	
50	PI2 BPSK	135	135	22.51	22.51	22.47			
50	PI2 BPSK	270	0	22.52	22.54	22.51	23.7	0.0	
50	QPSK	1	1	22.47	22.55	22.48			
50	QPSK	1	135	22.23	22.28	22.30	23.7	0.0	
50	QPSK	1	268	22.05	22.05	22.12			
50	QPSK	135	0	22.43	22.51	22.37	23.7	0.0	
50	QPSK	135	68	22.47	22.52	22.51	23.7	0.0	
50	QPSK	135	135	22.42	22.49	22.34	23.7	0.0	
50	QPSK	270	0	22.49	22.54	22.63			
50	16QAM	1	1	21.74	21.85	21.77	23.7	0.0	
50	64QAM	1	1	20.38	20.38	20.31	23.2	1.5	
50	256QAM	1	1	18.00	18.01	18.95	20.2	3.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	22.00	22.07	22.11	23.7	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2565			
30	QPSK	1	1	22.04	22.16	22.08	23.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2567.5			
25	QPSK	1	1	21.97	22.17	22.01	23.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
20	QPSK	1	1	21.93	22.15	22.02	23.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.85	22.04	22.12	23.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2566			
10	QPSK	1	1	21.92	22.19	22.01	23.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.5	2535	2561.5			
5	QPSK	1	1	21.97	22.10	22.11	23.7	0.0	



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	19.08	19.14	19.07			
40	PI2 BPSK	1	108	19.64	19.71	19.66	21.0	0.0	
40	PI2 BPSK	1	214	19.01	19.16	19.16			
40	PI2 BPSK	108	0	19.55	19.66	19.64	21.0	0.0	
40	PI2 BPSK	108	54	19.72	19.69	19.59	21.0	0.0	
40	PI2 BPSK	108	108	19.63	19.73	19.74			
40	PI2 BPSK	216	0	19.66	19.72	19.74	21.0	0.0	
40	QPSK	1	1	19.02	19.08	19.06			
40	QPSK	1	108	19.70	19.77	19.69	21.0	0.0	
40	QPSK	1	214	19.15	19.15	19.15			
40	QPSK	108	0	19.47	19.59	19.63	21.0	0.0	
40	QPSK	108	54	19.64	19.75	19.70	21.0	0.0	
40	QPSK	108	108	19.60	19.71	19.64	21.0	0.0	
40	QPSK	216	0	19.65	19.73	19.71			
40	16QAM	1	1	19.02	19.02	19.01	21.0	0.0	
40	16QAM	1	1	19.05	19.00	19.00	21.0	0.0	
40	256QAM	1	1	19.57	19.54	19.49	21.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1765			
30	QPSK	1	1	19.02	19.03	19.04	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.06	19.00	19.03	21.0	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.06	19.01	19.01	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.06	18.99	18.99	21.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.95	19.01	19.01	21.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	16.00	16.00	16.02			
40	PI2 BPSK	1	108	16.50	16.52	16.50	17.6	0.0	
40	PI2 BPSK	1	214	16.06	16.13	16.09			
40	PI2 BPSK	108	0	16.49	16.51	16.51	17.6	0.0	
40	PI2 BPSK	108	54	16.55	16.56	16.48	17.6	0.0	
40	PI2 BPSK	108	108	16.77	16.78	16.72	17.6	0.0	
40	PI2 BPSK	216	0	16.80	16.86	16.70			
40	QPSK	1	1	16.04	16.01	16.03			
40	QPSK	1	108	16.49	16.79	16.52	17.6	0.0	
40	QPSK	1	214	16.12	16.13	16.07			
40	QPSK	108	0	16.46	16.54	16.52	17.6	0.0	
40	QPSK	108	54	16.62	16.76	16.66	17.6	0.0	
40	QPSK	108	108	16.61	16.74	16.65	17.6	0.0	
40	QPSK	216	0	16.50	16.60	16.65			
40	16QAM	1	1	16.01	16.01	16.17	17.6	0.0	
40	16QAM	1	1	16.14	16.00	16.08	17.6	0.0	
40	256QAM	1	1	16.33	16.33	16.29	17.6	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1765			
30	QPSK	1	1	16.06	16.02	16.07	17.6	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.01	16.01	16.05	17.6	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.07	16.01	16.04	17.6	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.88	15.89	15.97	17.6	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.93	15.88	15.94	17.6	0.0	



n66_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1720	1745	1770		
40	PI2 BPSK	1	1	20.10	20.15	20.06		
40	PI2 BPSK	1	108	20.72	20.74	20.71	21.6	0.0
40	PI2 BPSK	1	214	20.26	20.27	20.24		
40	PI2 BPSK	108	0	20.71	20.77	20.78	21.6	0.0
40	PI2 BPSK	108	54	20.77	20.76	20.77	21.6	0.0
40	PI2 BPSK	108	108	20.76	20.83	20.76		
40	PI2 BPSK	216	0	20.83	20.84	20.84	21.6	0.0
40	QPSK	1	1	20.03	20.05	20.02		
40	QPSK	1	108	20.83	20.85	20.78	21.6	0.0
40	QPSK	1	214	20.18	20.27	20.27		
40	QPSK	108	0	20.87	20.89	20.87	21.6	0.0
40	QPSK	108	54	20.78	20.83	20.81	21.6	0.0
40	QPSK	108	108	20.76	20.82	20.80	21.6	0.0
40	QPSK	216	0	20.81	20.82	20.80		
40	16QAM	1	1	19.81	19.86	19.85	21.6	0.0
40	64QAM	1	1	19.77	19.83	19.80	21.6	0.0
40	256QAM	1	1	19.41	19.40	19.32	20.6	1.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	20.10	20.11	19.97	21.6	0.0
Channel				344000	346000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	20.06	20.00	20.03	21.6	0.0
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	19.99	20.05	19.93	21.6	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	20.06	20.07	19.93	21.6	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	19.96	20.04	19.96	21.6	0.0

n66_Ant 3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1725	1745	1760		
40	PI2 BPSK	1	1	21.54	21.54	21.58		
40	PI2 BPSK	1	108	22.10	22.12	22.04	22.7	0.0
40	PI2 BPSK	1	214	21.61	21.59	21.58		
40	PI2 BPSK	108	0	22.12	22.14	22.00	22.7	0.0
40	PI2 BPSK	108	54	22.07	22.06	22.01	22.7	0.0
40	PI2 BPSK	108	108	22.09	22.10	22.12	22.7	0.0
40	PI2 BPSK	216	0	22.10	22.10	22.08		
40	QPSK	1	1	21.31	21.44	21.36		
40	QPSK	1	108	21.85	22.17	22.01	22.7	0.0
40	QPSK	1	214	21.62	21.59	21.60		
40	QPSK	108	0	21.93	22.10	22.00	22.7	0.0
40	QPSK	108	54	21.96	22.15	22.04	22.7	0.0
40	QPSK	108	108	21.94	22.10	22.02	22.7	0.0
40	QPSK	216	0	21.91	22.11	22.03		
40	16QAM	1	1	21.28	21.23	21.20	22.7	0.0
40	64QAM	1	1	19.83	19.78	19.76	21.6	1.5
40	256QAM	1	1	18.25	18.27	18.29	19.2	3.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	21.43	21.48	21.50	22.7	0.0
Channel				344000	346000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	21.43	21.54	21.45	22.7	0.0
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	21.42	21.46	21.46	22.7	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	21.53	21.43	21.53	22.7	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	21.52	21.50	21.50	22.7	0.0



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519996			
				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	20.07	20.05	20.12	21.5	0.0	
40	Pl2 BPSK	1	53	20.48	20.54	20.45			
40	Pl2 BPSK	1	104	20.18	20.13	20.13			
40	Pl2 BPSK	50	0	20.47	20.42	20.38	21.5	0.0	
40	Pl2 BPSK	50	28	20.51	20.54	20.41	21.5	0.0	
40	Pl2 BPSK	50	56	20.43	20.48	20.56	21.5	0.0	
40	Pl2 BPSK	100	0	20.36	20.47	20.46			
40	QPSK	1	1	20.11	20.07	20.02	21.5	0.0	
40	QPSK	1	53	20.41	20.56	20.45			
40	QPSK	1	104	19.98	20.10	20.07			
40	QPSK	50	0	20.30	20.42	20.43			
40	QPSK	50	28	20.46	20.55	20.50	21.5	0.0	
40	QPSK	50	56	20.33	20.45	20.43			
40	QPSK	100	0	20.43	20.49	20.41	21.5	0.0	
40	16QAM	1	1	18.76	18.85	18.86	21.5	0.0	
40	16QAM	1	1	18.93	18.86	18.75	21.5	0.0	
40	256QAM	1	1	18.95	20.00	20.07	21.0	0.5	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2593.01	2595	2594.99			
30	QPSK	1	1	20.00	19.96	20.03	21.5	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
20	QPSK	1	1	20.01	19.92	20.08	21.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519996			
				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	18.04	18.05	18.01	19.9	0.0	
40	Pl2 BPSK	1	53	18.50	18.49	18.48			
40	Pl2 BPSK	1	104	18.01	18.06	18.01			
40	Pl2 BPSK	50	0	18.44	18.43	18.42	19.9	0.0	
40	Pl2 BPSK	50	28	18.45	18.46	18.41	19.9	0.0	
40	Pl2 BPSK	50	56	18.35	18.35	18.29	19.9	0.0	
40	Pl2 BPSK	100	0	18.40	18.45	18.40			
40	QPSK	1	1	18.04	18.09	18.04	19.9	0.0	
40	QPSK	1	53	18.44	18.50	18.46			
40	QPSK	1	104	18.12	18.00	18.05			
40	QPSK	50	0	18.36	18.35	18.35			
40	QPSK	50	28	18.42	18.49	18.44	19.9	0.0	
40	QPSK	50	56	18.36	18.36	18.38			
40	QPSK	100	0	18.34	18.39	18.37	19.9	0.0	
40	16QAM	1	1	18.04	18.00	18.01	19.9	0.0	
40	16QAM	1	1	18.02	18.01	18.07	19.9	0.0	
40	256QAM	1	1	18.37	18.39	18.31	19.5	0.0	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2593.01	2595	2594.99			
30	QPSK	1	1	18.03	18.01	18.10	19.9	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
20	QPSK	1	1	18.02	18.03	18.06	19.9	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				518004	519000	519998			
				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	17.78	17.70	17.79	19.7	0.0	
40	Pl2 BPSK	1	53	18.26	18.19	18.10			
40	Pl2 BPSK	1	104	17.90	17.82	17.79			
40	Pl2 BPSK	50	0	17.95	18.06	17.96	19.7	0.0	
40	Pl2 BPSK	50	28	18.23	18.18	18.09	19.7	0.0	
40	Pl2 BPSK	50	56	18.12	18.23	18.21	19.7	0.0	
40	Pl2 BPSK	100	0	18.18	18.15	18.11			
40	QPSK	1	1	17.78	17.76	17.78	19.7	0.0	
40	QPSK	1	53	18.23	18.27	18.17			
40	QPSK	1	104	17.78	17.83	17.81			
40	QPSK	50	0	17.99	18.02	18.06			
40	QPSK	50	28	18.15	18.24	18.15	19.7	0.0	
40	QPSK	50	56	18.12	18.16	18.14			
40	QPSK	100	0	18.04	18.21	17.98	19.7	0.0	
40	16QAM	1	1	17.74	17.70	17.70	18.7	0.0	
40	16QAM	1	1	17.73	17.75	17.78	19.7	0.0	
40	256QAM	1	1	18.02	18.04	17.98	19.7	0.0	
Channel									
				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2593.01	2595	2594.99			
30	QPSK	1	1	17.79	17.87	17.83	19.7	0.0	
Channel									
				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
				2580	2595	2610			
20	QPSK	1	1	17.78	17.79	17.88	19.7	0.0	



n38_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				51904	51900	51996			
Frequency (MHz)				2560.02	2556	2599.98			
40	PI2 BPSK	1	1	21.86	21.93	21.88			
40	PI2 BPSK	1	53	22.41	22.55	22.45	23.6	0.0	
40	PI2 BPSK	1	104	22.16	22.17	22.10			
40	PI2 BPSK	50	0	22.35	22.28	22.19	23.6	0.0	
40	PI2 BPSK	50	26	22.52	22.57	22.47	23.6	0.0	
40	PI2 BPSK	50	56	22.28	22.38	22.34			
40	PI2 BPSK	100	0	22.39	22.39	22.45	23.6	0.0	
40	QPSK	1	1	22.00	21.98	21.84			
40	QPSK	1	53	22.45	22.58	22.45	23.6	0.0	
40	QPSK	1	104	21.99	22.11	21.99			
40	QPSK	50	0	22.16	22.26	22.25			
40	QPSK	50	26	22.45	22.52	22.45	23.6	0.0	
40	QPSK	50	56	22.31	22.31	22.25			
40	QPSK	100	0	22.43	22.47	22.34	23.6	0.0	
40	16QAM	1	1	21.84	21.78	21.71	23.6	0.0	
40	64QAM	1	1	20.38	20.38	20.26	22.1	1.5	
40	256QAM	1	1	18.84	18.97	18.96	20.1	3.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2581.01	2556	2604.99			
30	QPSK	1	1	21.80	21.82	21.83	23.6	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2580	2556	2610			
20	QPSK	1	1	21.82	21.93	21.85	23.6	0.0	

n41_FCC_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50902	51898	52900			
Frequency (MHz)				2566.01	2592.99	2640			
100	PI2 BPSK	1	1	19.56	19.60	19.58			
100	PI2 BPSK	1	137	20.39	20.50	20.38	21.5	0.0	
100	PI2 BPSK	1	271	19.61	19.69	19.69			
100	PI2 BPSK	135	0	20.28	20.25	20.17	21.5	0.0	
100	PI2 BPSK	135	69	20.53	20.55	20.45	21.5	0.0	
100	PI2 BPSK	135	138	20.24	20.35	20.34			
100	PI2 BPSK	270	0	20.21	20.31	20.27	21.5	0.0	
100	QPSK	1	1	19.53	19.57	19.54			
100	QPSK	1	137	20.57	20.57	20.50	21.5	0.0	
100	QPSK	1	271	19.72	19.66	19.56			
100	QPSK	135	0	20.34	20.28	20.22			
100	QPSK	135	69	20.52	20.55	20.54	21.5	0.0	
100	QPSK	135	138	20.41	20.38	20.27			
100	QPSK	270	0	20.23	20.47	20.26	21.5	0.0	
100	16QAM	1	1	19.52	19.54	19.58	21.5	0.0	
100	64QAM	1	1	19.55	19.55	19.51	21.5	0.0	
100	256QAM	1	1	18.44	18.49	18.45	21.0	0.5	
Channel				508200	518998	529996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
50	QPSK	1	1	19.53	19.58	19.56	21.5	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	19.52	19.53	19.50	21.5	0.0	
Channel				505200	518998	531996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2526	2592.99	2658.98			
80	QPSK	1	1	19.50	19.51	19.57	21.5	0.0	
Channel				504204	518998	532996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.56	19.52	19.59	21.5	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	19.54	19.51	19.55	21.5	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.52	19.59	19.56	21.5	0.0	
Channel				501204	518998	535996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.53	19.53	19.51	21.5	0.0	

n41_FCC_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50902	51898	52900			
Frequency (MHz)				2566.01	2592.99	2640			
100	PI2 BPSK	1	1	18.00	18.02	18.09			
100	PI2 BPSK	1	137	18.63	18.61	18.49	19.9	0.0	
100	PI2 BPSK	1	271	18.04	17.92	17.92			
100	PI2 BPSK	135	0	18.44	18.49	18.38	19.9	0.0	
100	PI2 BPSK	135	69	18.57	18.68	18.69	19.9	0.0	
100	PI2 BPSK	135	138	18.34	18.39	18.33			
100	PI2 BPSK	270	0	18.33	18.40	18.38	19.9	0.0	
100	QPSK	1	1	17.97	18.01	18.03			
100	QPSK	1	137	18.67	18.70	18.60	19.9	0.0	
100	QPSK	1	271	18.05	18.07	17.96			
100	QPSK	135	0	18.44	18.47	18.40			
100	QPSK	135	69	18.55	18.68	18.64	19.9	0.0	
100	QPSK	135	138	18.29	18.41	18.31			
100	QPSK	270	0	18.31	18.64	18.43	19.9	0.0	
100	16QAM	1	1	17.89	18.02	18.00	19.9	0.0	
100	64QAM	1	1	18.05	18.03	18.08	19.9	0.0	
100	256QAM	1	1	18.25	18.20	18.27	19.9	0.0	
Channel				508200	518998	529996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
50	QPSK	1	1	18.06	18.02	18.00	19.9	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	17.91	17.92	18.03	19.9	0.0	
Channel				505200	518998	531996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2526	2592.99	2658.98			
80	QPSK	1	1	17.96	18.08	18.01	19.9	0.0	
Channel				504204	518998	532996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.96	17.99	18.10	19.9	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	17.93	18.02	17.98	19.9	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.95	18.00	17.97	19.9	0.0	
Channel				501204	518998	535996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.92	17.98	18.09	19.9	0.0	



n41_FCC_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2566.02	5189.98	5369.99			
Frequency (MHz)				2566.01	2592.99	2540			
100	PI2 BPSK	1	1	15.21	15.27	15.22			
100	PI2 BPSK	1	137	15.81	15.78	15.72	17.2	0.0	
100	PI2 BPSK	1	271	15.41	15.43	15.42			
100	PI2 BPSK	135	0	15.65	15.85	15.58	17.2	0.0	
100	PI2 BPSK	135	69	15.71	15.84	15.85	17.2	0.0	
100	PI2 BPSK	135	138	15.70	15.80	15.81			
100	PI2 BPSK	270	0	15.68	15.71	15.71	17.2	0.0	
100	QPSK	1	1	15.25	15.28	15.23			
100	QPSK	1	137	15.75	15.88	15.75	17.2	0.0	
100	QPSK	1	271	15.29	15.42	15.34			
100	QPSK	135	0	15.67	15.88	15.58			
100	QPSK	135	69	15.75	15.84	15.71	17.2	0.0	
100	QPSK	135	138	15.67	15.76	15.64			
100	QPSK	270	0	15.62	15.81	15.59	17.2	0.0	
100	16QAM	1	1	15.26	15.26	15.29	17.2	0.0	
100	64QAM	1	1	15.21	15.27	15.25	17.2	0.0	
100	256QAM	1	1	15.57	15.61	15.54	17.2	0.0	
Channel				509200	518998	528996	Tune-up limit (dB)	MPR	
Frequency (MHz)				254	2592.99	2644.98			
50	QPSK	1	1	15.33	15.35	15.41	17.2	0.0	
Channel				507204	518998	528996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	15.33	15.34	15.41	17.2	0.0	
Channel				505200	518998	531996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2526	2592.99	2658.98			
60	QPSK	1	1	15.42	15.48	15.37	17.2	0.0	
Channel				504204	518998	532996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.40	15.42	15.30	17.2	0.0	
Channel				503202	518998	534000	Tune-up limit (dB)	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.37	15.41	15.34	17.2	0.0	
Channel				502200	518998	534996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.48	15.41	15.30	17.2	0.0	
Channel				501204	518998	535996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.41	15.42	15.38	17.2	0.0	

n41_FCC_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2566.01	2592.99	2540			
Frequency (MHz)				2566.01	2592.99	2540			
100	PI2 BPSK	1	1	21.17	21.15	21.19			
100	PI2 BPSK	1	137	21.84	21.95	22.02	23.1	0.0	
100	PI2 BPSK	1	271	21.18	21.21	21.11			
100	PI2 BPSK	135	0	21.68	21.78	21.77	23.1	0.0	
100	PI2 BPSK	135	69	21.98	21.91	21.99	23.1	0.0	
100	PI2 BPSK	135	138	21.74	21.83	21.83			
100	PI2 BPSK	270	0	21.76	21.83	21.77	23.1	0.0	
100	QPSK	1	1	21.11	21.14	21.11			
100	QPSK	1	137	21.84	22.08	21.84	23.1	0.0	
100	QPSK	1	271	21.16	21.27	21.15			
100	QPSK	135	0	21.72	21.79	21.80			
100	QPSK	135	69	22.15	22.05	22.05	23.1	0.0	
100	QPSK	135	138	21.69	21.78	21.73			
100	QPSK	270	0	21.70	21.87	21.87	23.1	0.0	
100	16QAM	1	1	21.17	21.21	21.11	23.1	0.0	
100	64QAM	1	1	20.17	20.19	20.16	22.1	1.0	
100	256QAM	1	1	18.39	18.33	18.32	20.1	3.0	
Channel				508200	518998	528996	Tune-up limit (dB)	MPR	
Frequency (MHz)				254	2592.99	2644.98			
50	QPSK	1	1	21.35	21.32	21.27	23.1	0.0	
Channel				507204	518998	528996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	21.31	21.23	21.24	23.1	0.0	
Channel				505200	518998	531996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2526	2592.99	2658.98			
60	QPSK	1	1	21.36	21.32	21.19	23.1	0.0	
Channel				504204	518998	532996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.27	21.34	21.22	23.1	0.0	
Channel				503202	518998	534000	Tune-up limit (dB)	MPR	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.25	21.30	21.24	23.1	0.0	
Channel				502200	518998	534996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.37	21.35	21.20	23.1	0.0	
Channel				501204	518998	535996	Tune-up limit (dB)	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.25	21.29	21.21	23.1	0.0	

Part27Q_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3499.98	6333.32				
Frequency (MHz)				3499.98	6333.32				
100	PI2 BPSK	1	1		14.68				
100	PI2 BPSK	1	137		15.34		15.9	0.0	
100	PI2 BPSK	1	271		14.20				
100	PI2 BPSK	135	0		15.17		15.9	0.0	
100	PI2 BPSK	135	69		15.32		15.9	0.0	
100	PI2 BPSK	135	138		15.18		15.9	0.0	
100	PI2 BPSK	270	0		15.19				
100	QPSK	1	1		14.65				
100	QPSK	1	137		15.37		15.9	0.0	
100	QPSK	1	271		14.53				
100	QPSK	135	0		15.19				
100	QPSK	135	69		15.35		15.9	0.0	
100	QPSK	135	138		15.17				
100	QPSK	270	0		15.33		15.9	0.0	
100	16QAM	1	1		14.28		15.9	0.0	
100	64QAM	1	1		14.49		15.9	0.0	
100	256QAM	1	1		15.02		15.9	0.0	
Channel				633000	6333.32	633996	Tune-up limit (dB)	MPR	
Frequency (MHz)				3499	3499.98	3504.99			
50	QPSK	1	1	14.36	14.43	14.27	15.9	0.0	
Channel				632998	6333.32	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	14.10	14.14	14.14	15.9	0.0	
Channel				632000	6333.32	634996	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	14.25	14.24	14.18	15.9	0.0	
Channel				631998	6333.32	635000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.02	3499.98	3529.99			
50	QPSK	1	1	14.48	14.42	14.25	15.9	0.0	
Channel				631334	6333.32	635332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.99			
40	QPSK	1	1	14.27	14.22	14.18	15.9	0.0	
Channel				630668	6333.32	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	14.64	14.61	14.39	15.9	0.0	



Part27Q_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.11			18.9	0.0		
100	PI2 BPSK	1	137	17.81						
100	PI2 BPSK	1	271	17.84						
100	PI2 BPSK	135	0	17.78			18.9	0.0		
100	PI2 BPSK	135	69	17.85			18.9	0.0		
100	PI2 BPSK	135	138	17.68			18.9	0.0		
100	PI2 BPSK	270	0	17.74						
100	QPSK	1	1	17.08						
100	QPSK	1	137	17.91			18.9	0.0		
100	QPSK	1	271	18.98						
100	QPSK	135	0	17.79						
100	QPSK	135	69	17.88			18.9	0.0		
100	QPSK	135	138	17.68						
100	QPSK	270	0	17.74			18.9	0.0		
100	16QAM	1	1	17.38			18.9	0.0		
100	64QAM	1	1	17.29			18.9	0.0		
100	256QAM	1	1	17.20			18.9	0.0		
Channel										
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.20	17.15	17.15	18.9	0.0		
Channel										
				630688	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	17.41	17.23	17.23	18.9	0.0		
Channel										
				630500	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	17.35	17.21	17.01	18.9	0.0		
Channel										
				631088	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.37	17.33	17.03	18.9	0.0		
Channel										
				631334	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	17.22	17.18	17.07	18.9	0.0		
Channel										
				630688	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	17.43	17.19	17.21	18.9	0.0		

Part27O_n77_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	14.29	14.29	14.20	15.9	0.0		
100	PI2 BPSK	1	137	14.92	15.04	14.92				
100	PI2 BPSK	1	271	14.26	14.23	14.15				
100	PI2 BPSK	135	0	14.97	15.02	15.04	15.9	0.0		
100	PI2 BPSK	135	69	15.11	15.05	14.92	15.9	0.0		
100	PI2 BPSK	135	138	14.85	14.93	14.93	15.9	0.0		
100	PI2 BPSK	270	0	14.93	14.94	14.81				
100	QPSK	1	1	14.34	14.40	14.46				
100	QPSK	1	137	15.07	15.16	14.93	15.9	0.0		
100	QPSK	1	271	14.37	14.38	14.42				
100	QPSK	135	0	14.98	15.01	14.88				
100	QPSK	135	69	15.05	15.14	14.91	15.9	0.0		
100	QPSK	135	138	14.86	14.95	14.84				
100	QPSK	270	0	14.87	15.12	14.96	15.9	0.0		
100	16QAM	1	1	14.93	14.16	14.14	15.9	0.0		
100	64QAM	1	1	14.20	14.23	14.20	15.9	0.0		
100	256QAM	1	1	14.77	14.75	14.81	15.9	0.0		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	14.18	14.00	14.09	15.9	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	14.14	14.21	14.05	15.9	0.0		
Channel										
				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	14.27	14.41	14.46	15.9	0.0		
Channel										
				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	14.48	14.48	14.50	15.9	0.0		
Channel										
				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	14.33	14.30	14.17	15.9	0.0		
Channel										
				647334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	14.29	14.64	14.54	15.9	0.0		

Part27O_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.37	17.42	17.45	18.9	0.0		
100	PI2 BPSK	1	137	18.09	18.09	18.14				
100	PI2 BPSK	1	271	17.19	17.29	17.28				
100	PI2 BPSK	135	0	18.04	18.05	18.05	18.9	0.0		
100	PI2 BPSK	135	69	18.17	18.19	18.13	18.9	0.0		
100	PI2 BPSK	135	138	17.98	18.00	17.93	18.9	0.0		
100	PI2 BPSK	270	0	18.07	18.01	17.97				
100	QPSK	1	1	17.37	17.35	17.31				
100	QPSK	1	137	18.05	18.23	18.01	18.9	0.0		
100	QPSK	1	271	17.33	17.29	17.28				
100	QPSK	135	0	18.03	18.01	17.95				
100	QPSK	135	69	18.05	18.20	18.05	18.9	0.0		
100	QPSK	135	138	17.91	17.96	17.98				
100	QPSK	270	0	18.05	18.14	18.00	18.9	0.0		
100	16QAM	1	1	17.60	17.61	17.51	18.9	0.0		
100	64QAM	1	1	17.42	17.53	17.47	18.9	0.0		
100	256QAM	1	1	17.47	17.52	17.56	18.9	0.0		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.06	17.19	17.20	18.9	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	17.12	17.20	17.02	18.9	0.0		
Channel										
				648668	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	17.38	17.38	17.44	18.9	0.0		
Channel										
				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	17.55	17.58	17.44	18.9	0.0		
Channel										
				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	17.31	17.35	17.19	18.9	0.0		
Channel										
				647334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	17.58	17.62	17.62	18.9	0.0		



Part27Q_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	14.73						
100	PI2 BPSK	1	137	15.27			15.9	0.0		
100	PI2 BPSK	1	271	14.28						
100	PI2 BPSK	135	0	15.28			15.9	0.0		
100	PI2 BPSK	135	69	15.32			15.9	0.0		
100	PI2 BPSK	135	138	15.13			15.9	0.0		
100	PI2 BPSK	270	0	15.14						
100	QPSK	1	1	14.70						
100	QPSK	1	137	15.34			15.9	0.0		
100	QPSK	1	271	14.53						
100	QPSK	135	0	15.18						
100	QPSK	135	69	15.31			15.9	0.0		
100	QPSK	135	138	15.12						
100	QPSK	270	0	15.21			15.9	0.0		
100	16QAM	1	1	14.80			15.9	0.0		
100	64QAM	1	1	14.84			15.9	0.0		
100	256QAM	1	1	15.16			15.9	0.0		
Channel				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3495	349986	350481				
50	QPSK	1	1	14.62	14.53	14.51	15.9	0.0		
Channel				630688	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3490.02	3499.98	3510				
80	QPSK	1	1	14.72	14.71	14.51	15.9	0.0		
Channel				630500	633332	634066	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480	3499.98	3519.99				
60	QPSK	1	1	14.77	14.93	14.60	15.9	0.0		
Channel				631088	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3475.02	3499.98	3505				
50	QPSK	1	1	15.04	15.02	14.82	15.9	0.0		
Channel				631334	633332	635332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.01	3499.98	3529.98				
40	QPSK	1	1	14.84	14.80	14.72	15.9	0.0		
Channel				631000	633332	635666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3465	3499.98	3534.99				
30	QPSK	1	1	14.80	15.01	14.99	15.9	0.0		
Channel				630568	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1	15.17	15.13	15.02	15.9	0.0		

Part27Q_n78(HPUe)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.14						
100	PI2 BPSK	1	137	17.67			18.9	0.0		
100	PI2 BPSK	1	271	16.86						
100	PI2 BPSK	135	0	17.80			18.9	0.0		
100	PI2 BPSK	135	69	17.87			18.9	0.0		
100	PI2 BPSK	135	138	17.69			18.9	0.0		
100	PI2 BPSK	270	0	17.72						
100	QPSK	1	1	17.12						
100	QPSK	1	137	17.90			18.9	0.0		
100	QPSK	1	271	16.53						
100	QPSK	135	0	17.78						
100	QPSK	135	69	17.88			18.9	0.0		
100	QPSK	135	138	17.73						
100	QPSK	270	0	17.85			18.9	0.0		
100	16QAM	1	1	17.37			18.9	0.0		
100	64QAM	1	1	17.29			18.9	0.0		
100	256QAM	1	1	17.26			18.9	0.0		
Channel				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3495	349986	350481				
50	QPSK	1	1	17.61	17.57	17.56	18.9	0.0		
Channel				632688	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480.02	3499.98	3510				
80	QPSK	1	1	17.22	17.72	17.72	18.9	0.0		
Channel				630500	633332	634066	Tune-up limit (dB)	MPR		
Frequency (MHz)				3480	3499.98	3519.99				
60	QPSK	1	1	17.51	17.56	17.51	18.9	0.0		
Channel				631088	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3475.02	3499.98	3505				
50	QPSK	1	1	17.48	17.56	17.48	18.9	0.0		
Channel				631334	633332	635332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3470.01	3499.98	3529.98				
40	QPSK	1	1	17.63	17.69	17.62	18.9	0.0		
Channel				631000	633332	635666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3465	3499.98	3534.99				
30	QPSK	1	1	17.76	17.66	17.65	18.9	0.0		
Channel				630568	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3460.02	3499.98	3540				
20	QPSK	1	1	17.76	17.65	17.68	18.9	0.0		

Part27O_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	14.14						
100	PI2 BPSK	1	137	14.91			15.9	0.0		
100	PI2 BPSK	1	271	14.28						
100	PI2 BPSK	135	0	14.71			15.9	0.0		
100	PI2 BPSK	135	69	14.62			15.9	0.0		
100	PI2 BPSK	135	138	14.88			15.9	0.0		
100	PI2 BPSK	270	0	14.73						
100	QPSK	1	1	14.15						
100	QPSK	1	137	14.98			15.9	0.0		
100	QPSK	1	271	14.22						
100	QPSK	135	0	14.65						
100	QPSK	135	69	14.55			15.9	0.0		
100	QPSK	135	138	14.80						
100	QPSK	270	0	14.87			15.9	0.0		
100	16QAM	1	1	14.04			15.9	0.0		
100	64QAM	1	1	14.07			15.9	0.0		
100	256QAM	1	1	14.49			15.9	0.0		
Channel				649988	650000	650332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3743.02	3750	3754.98				
50	QPSK	1	1	14.04	14.07	14.30	15.9	0.0		
Channel				649334	650000	650666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3740.01	3750	3759.99				
80	QPSK	1	1	14.16	14.18	14.10	15.9	0.0		
Channel				648668	650000	651332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3730.02	3750	3769.98				
60	QPSK	1	1	14.09	14.33	14.14	15.9	0.0		
Channel				648334	650000	651666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3725.01	3750	3774.99				
50	QPSK	1	1	14.28	14.35	14.50	15.9	0.0		
Channel				648000	650000	652000	Tune-up limit (dB)	MPR		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	14.17	14.31	14.40	15.9	0.0		
Channel				647668	650000	652332	Tune-up limit (dB)	MPR		
Frequency (MHz)				3715.02	3750	3784.98				
30	QPSK	1	1	14.62	14.51	14.31	15.9	0.0		
Channel				647334	650000	652666	Tune-up limit (dB)	MPR		
Frequency (MHz)				3710.01	3750	3789.99				
20	QPSK	1	1	14.45	14.60	14.50	15.9	0.0		



Part270_n78(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.14	17.14					
100	PI2 BPSK	1	137	17.89	17.89		18.9	0.0		
100	PI2 BPSK	1	271	17.45	17.45					
100	PI2 BPSK	135	0	17.85	17.85		18.9	0.0		
100	PI2 BPSK	135	69	18.00	18.00		18.9	0.0		
100	PI2 BPSK	135	138	18.05	18.05		18.9	0.0		
100	PI2 BPSK	270	0	17.89	17.89					
100	QPSK	1	1	17.00	17.00					
100	QPSK	1	137	18.07	18.07		18.9	0.0		
100	QPSK	1	271	17.31	17.31					
100	QPSK	135	0	17.78	17.78					
100	QPSK	135	69	18.05	18.05		18.9	0.0		
100	QPSK	135	138	18.01	18.01					
100	QPSK	270	0	17.85	17.85		18.9	0.0		
100	16QAM	1	1	17.22	17.22		18.9	0.0		
100	64QAM	1	1	17.13	17.13		18.9	0.0		
100	256QAM	1	1	17.08	17.08		18.9	0.0		
Channel										
				649898	650000	650332	Tune-up limit (dB)	MPR		
Frequency (MHz)										
50	QPSK	1	1	17.07	17.06	17.23	18.9	0.0		
Channel										
				649334	650000	650066	Tune-up limit (dB)	MPR		
Frequency (MHz)										
80	QPSK	1	1	17.02	17.00	17.21	18.9	0.0		
Channel										
				649668	650000	651332	Tune-up limit (dB)	MPR		
Frequency (MHz)										
60	QPSK	1	1	17.15	17.14	17.08	18.9	0.0		
Channel										
				649334	650000	651666	Tune-up limit (dB)	MPR		
Frequency (MHz)										
50	QPSK	1	1	17.35	17.51	17.59	18.9	0.0		
Channel										
				648000	650000	652000	Tune-up limit (dB)	MPR		
Frequency (MHz)										
40	QPSK	1	1	17.42	17.40	17.40	18.9	0.0		
Channel										
				649668	650000	652332	Tune-up limit (dB)	MPR		
Frequency (MHz)										
30	QPSK	1	1	17.41	17.34	17.26	18.9	0.0		
Channel										
				649334	650000	652668	Tune-up limit (dB)	MPR		
Frequency (MHz)										
20	QPSK	1	1	17.49	17.60	17.36	18.9	0.0		

Part27Q_n77_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.28	18.28					
100	PI2 BPSK	1	137	18.82	18.82		19.8	0.0		
100	PI2 BPSK	1	271	18.06	18.06					
100	PI2 BPSK	135	0	18.78	18.78		19.8	0.0		
100	PI2 BPSK	135	69	18.93	18.93		19.8	0.0		
100	PI2 BPSK	135	138	18.68	18.68		19.8	0.0		
100	PI2 BPSK	270	0	18.77	18.77					
100	QPSK	1	1	18.26	18.26					
100	QPSK	1	137	18.95	18.95		19.8	0.0		
100	QPSK	1	271	18.14	18.14					
100	QPSK	135	0	18.83	18.83					
100	QPSK	135	69	18.91	18.91		19.8	0.0		
100	QPSK	135	138	18.73	18.73					
100	QPSK	270	0	18.86	18.86		19.8	0.0		
100	16QAM	1	1	18.11	18.11		19.8	0.0		
100	64QAM	1	1	18.14	18.14		19.8	0.0		
100	256QAM	1	1	18.17	18.17		19.8	0.0		
Channel										
				633000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)										
50	QPSK	1	1	17.96	18.01	17.89	19.8	0.0		
Channel										
				632668	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)										
80	QPSK	1	1	17.85	18.20	18.18	19.8	0.0		
Channel										
				632000	633332	634666	Tune-up limit (dB)	MPR		
Frequency (MHz)										
60	QPSK	1	1	18.51	18.44	18.33	19.8	0.0		
Channel										
				631668	633332	635000	Tune-up limit (dB)	MPR		
Frequency (MHz)										
50	QPSK	1	1	18.14	18.34	18.27	19.8	0.0		
Channel										
				631334	633332	635332	Tune-up limit (dB)	MPR		
Frequency (MHz)										
40	QPSK	1	1	18.27	18.29	18.20	19.8	0.0		
Channel										
				630668	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)										
20	QPSK	1	1	18.51	18.67	18.49	19.8	0.0		

Part27Q_n77(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.06	21.06					
100	PI2 BPSK	1	137	21.82	21.82		22.8	0.0		
100	PI2 BPSK	1	271	20.83	20.83					
100	PI2 BPSK	135	0	21.72	21.72		22.8	0.0		
100	PI2 BPSK	135	69	21.78	21.78		22.8	0.0		
100	PI2 BPSK	135	138	21.66	21.66		22.8	0.0		
100	PI2 BPSK	270	0	21.84	21.84					
100	QPSK	1	1	20.98	20.98					
100	QPSK	1	137	21.87	21.87		22.8	0.0		
100	QPSK	1	271	20.84	20.84					
100	QPSK	135	0	21.73	21.73					
100	QPSK	135	69	21.85	21.85		22.8	0.0		
100	QPSK	135	138	21.83	21.83					
100	QPSK	270	0	21.81	21.81		22.8	0.0		
100	16QAM	1	1	21.29	21.29		22.8	0.0		
100	64QAM	1	1	21.13	21.13		22.8	0.0		
100	256QAM	1	1	20.10	20.10		21.8	1.0		
Channel										
				632000	633332	633666	Tune-up limit (dB)	MPR		
Frequency (MHz)										
50	QPSK	1	1	20.96	20.94	20.82	22.8	0.0		
Channel										
				632668	633332	634000	Tune-up limit (dB)	MPR		
Frequency (MHz)										
80	QPSK	1	1	21.23	21.10	21.08	22.8	0.0		
Channel										
				632000	633332	634666	Tune-up limit (dB)	MPR		
Frequency (MHz)										
60	QPSK	1	1	21.11	21.23	21.03	22.8	0.0		
Channel										
				631668	633332	635000	Tune-up limit (dB)	MPR		
Frequency (MHz)										
50	QPSK	1	1	21.16	21.23	21.41	22.8	0.0		
Channel										
				631334	633332	635332	Tune-up limit (dB)	MPR		
Frequency (MHz)										
40	QPSK	1	1	21.15	21.10	20.98	22.8	0.0		
Channel										
				630668	633332	636000	Tune-up limit (dB)	MPR		
Frequency (MHz)										
20	QPSK	1	1	21.42	21.47	21.46	22.8	0.0		



Part270_n77_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.50	17.67	17.66			
100	PI2 BPSK	1	137	18.26	18.48	18.39	19.8	0.0	
100	PI2 BPSK	1	271	17.50	17.68	17.73			
100	PI2 BPSK	135	0	18.08	18.27	18.17	19.8	0.0	
100	PI2 BPSK	135	69	18.23	18.52	18.42	19.8	0.0	
100	PI2 BPSK	135	138	18.26	18.46	18.33			
100	PI2 BPSK	270	0	18.11	18.33	18.17	19.8	0.0	
100	QPSK	1	1	17.53	17.64	17.55			
100	QPSK	1	137	18.42	18.68	18.50	19.8	0.0	
100	QPSK	1	271	17.68	17.89	17.71			
100	QPSK	135	0	17.99	18.24	18.15			
100	QPSK	135	69	18.45	18.63	18.55	19.8	0.0	
100	QPSK	135	138	18.14	18.42	18.26			
100	QPSK	270	0	18.36	18.57	18.39	19.8	0.0	
100	16QAM	1	1	17.51	17.57	17.55	19.8	0.0	
100	64QAM	1	1	17.51	17.53	17.52	19.8	0.0	
100	256QAM	1	1	17.82	18.03	17.87	19.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.61	17.56	17.62	19.8	0.0	
Channel									
Frequency (MHz)									
649334	QPSK	1	1	649334	650000	650000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.61	17.71	17.60	19.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.66	17.71	17.73	19.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.07	18.11	18.10	19.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.84	17.85	17.80	19.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.77	17.86	17.87	19.8	0.0	

Part270_n77(HPUe)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.51	20.53	20.53			
100	PI2 BPSK	1	137	21.20	21.42	21.32	22.8	0.0	
100	PI2 BPSK	1	271	20.50	20.50	20.51			
100	PI2 BPSK	135	0	20.98	21.18	20.98	22.8	0.0	
100	PI2 BPSK	135	69	21.22	21.43	21.22	22.8	0.0	
100	PI2 BPSK	135	138	20.95	21.26	21.09			
100	PI2 BPSK	270	0	21.02	21.24	21.14	22.8	0.0	
100	QPSK	1	1	20.52	20.58	20.50			
100	QPSK	1	137	21.37	21.53	21.42	22.8	0.0	
100	QPSK	1	271	20.51	20.53	20.51			
100	QPSK	135	0	20.91	21.16	20.98			
100	QPSK	135	69	21.30	21.49	21.38	22.8	0.0	
100	QPSK	135	138	20.99	21.27	21.16			
100	QPSK	270	0	21.19	21.43	21.33	22.8	0.0	
100	16QAM	1	1	20.54	20.58	20.50	22.8	0.0	
100	64QAM	1	1	20.51	20.61	20.52	22.8	0.0	
100	256QAM	1	1	19.50	19.56	19.51	21.8	1.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.50	20.53	20.50	22.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.85	20.60	20.70	22.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.81	20.88	20.95	22.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.94	21.04	20.98	22.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.21	21.25	21.24	22.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.17	21.12	21.26	22.8	0.0	

Part27Q_n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		18.81				
100	PI2 BPSK	1	137		19.36		20.3	0.0	
100	PI2 BPSK	1	271		18.69				
100	PI2 BPSK	135	0		19.33		20.3	0.0	
100	PI2 BPSK	135	69		19.32		20.3	0.0	
100	PI2 BPSK	135	138		19.14		20.3	0.0	
100	PI2 BPSK	270	0		19.23				
100	QPSK	1	1		18.83				
100	QPSK	1	137		19.43		20.3	0.0	
100	QPSK	1	271		18.56				
100	QPSK	135	0		19.31				
100	QPSK	135	69		19.38		20.3	0.0	
100	QPSK	135	138		19.15				
100	QPSK	270	0		19.31		20.3	0.0	
100	16QAM	1	1		18.57		20.3	0.0	
100	64QAM	1	1		18.61		20.3	0.0	
100	256QAM	1	1		18.20		20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	633000	633332	633866	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.82	18.82	18.72	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.78	18.81	18.86	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.90	18.99	18.87	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3465	3465.98	3500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.67	18.69	18.69	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.02	19.02	18.87	20.3	0.0	



Part27Q_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3499.98	21.52					
100	PI2 BPSK	1	137	22.23	22.23		23.3	0.0		
100	PI2 BPSK	1	271	21.38						
100	PI2 BPSK	135	0	22.16			23.3	0.0		
100	PI2 BPSK	135	69	22.21			23.3	0.0		
100	PI2 BPSK	135	138	22.02			23.3	0.0		
100	PI2 BPSK	270	0	22.12						
100	QPSK	1	1	21.47						
100	QPSK	1	137	22.36			23.3	0.0		
100	QPSK	1	271	21.35						
100	QPSK	135	0	22.17						
100	QPSK	135	69	22.32			23.3	0.0		
100	QPSK	135	138	22.03						
100	QPSK	270	0	22.24			23.3	0.0		
100	16QAM	1	1	21.73			23.3	0.0		
100	64QAM	1	1	21.67			23.3	0.0		
100	256QAM	1	1	20.34			21.8	1.5		
Channel										
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.59	21.43	21.53	23.3	0.0		
Channel										
				630688	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3450.02	3499.98	3510	23.3	0.0		
Channel										
				630500	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	21.77	21.71	21.65	23.3	0.0		
Channel										
				631088	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.86	21.75	21.75	23.3	0.0		
Channel										
				631334	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	21.57	21.49	21.63	23.3	0.0		
Channel										
				631000	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	21.82	21.76	21.79	23.3	0.0		
Channel										
				630500	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	21.98	21.95	21.95	23.3	0.0		

Part27O_n78_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.41						
100	PI2 BPSK	1	137	19.01			20.3	0.0		
100	PI2 BPSK	1	271	18.35						
100	PI2 BPSK	135	0	18.83			20.3	0.0		
100	PI2 BPSK	135	69	18.97			20.3	0.0		
100	PI2 BPSK	135	138	18.92			20.3	0.0		
100	PI2 BPSK	270	0	18.99						
100	QPSK	1	1	18.35						
100	QPSK	1	137	18.07			20.3	0.0		
100	QPSK	1	271	18.31						
100	QPSK	135	0	18.88						
100	QPSK	135	69	19.04			20.3	0.0		
100	QPSK	135	138	18.91						
100	QPSK	270	0	18.98			20.3	0.0		
100	16QAM	1	1	18.33			20.3	0.0		
100	64QAM	1	1	18.38			20.3	0.0		
100	256QAM	1	1	18.62			20.3	0.0		
Channel										
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	18.38	18.35	18.31	20.3	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99	20.3	0.0		
Channel										
				648500	650000	651332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	18.56	18.51	18.54	20.3	0.0		
Channel										
				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	18.67	18.58	18.65	20.3	0.0		
Channel										
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	18.45	18.51	18.44	20.3	0.0		
Channel										
				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	18.61	18.63	18.65	20.3	0.0		
Channel										
				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	18.88	18.75	18.84	20.3	0.0		

Part27O_n78(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.36						
100	PI2 BPSK	1	137	21.96			23.3	0.0		
100	PI2 BPSK	1	271	21.30						
100	PI2 BPSK	135	0	21.74			23.3	0.0		
100	PI2 BPSK	135	69	21.98			23.3	0.0		
100	PI2 BPSK	135	138	21.84			23.3	0.0		
100	PI2 BPSK	270	0	21.79						
100	QPSK	1	1	21.38						
100	QPSK	1	137	21.99			23.3	0.0		
100	QPSK	1	271	21.34						
100	QPSK	135	0	21.73						
100	QPSK	135	69	21.98			23.3	0.0		
100	QPSK	135	138	21.78						
100	QPSK	270	0	21.81			23.3	0.0		
100	16QAM	1	1	21.38			23.3	0.0		
100	64QAM	1	1	21.34			23.3	0.0		
100	256QAM	1	1	18.85			21.8	1.5		
Channel										
				649988	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.42	21.37	21.39	23.3	0.0		
Channel										
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99	20.3	0.0		
Channel										
				648500	650000	651332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
60	QPSK	1	1	21.68	21.77	21.79	23.3	0.0		
Channel										
				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
50	QPSK	1	1	21.73	21.84	21.77	23.3	0.0		
Channel										
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	21.48	21.52	21.49	23.3	0.0		
Channel										
				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	21.67	21.78	21.78	23.3	0.0		
Channel										
				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	21.89	21.92	21.82	23.3	0.0		



Part27Q_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.19					
100	PI2 BPSK	1	137	18.91			17.5	0.0	
100	PI2 BPSK	1	271	18.31					
100	PI2 BPSK	135	0	18.80			17.5	0.0	
100	PI2 BPSK	135	69	18.88			17.5	0.0	
100	PI2 BPSK	135	138	18.87			17.5	0.0	
100	PI2 BPSK	270	0	18.92					
100	QPSK	1	1	18.23					
100	QPSK	1	137	18.96			17.5	0.0	
100	QPSK	1	271	18.33					
100	QPSK	135	0	18.78					
100	QPSK	135	69	18.81			17.5	0.0	
100	QPSK	135	138	18.88					
100	QPSK	270	0	18.88			17.5	0.0	
100	16QAM	1	1	18.00			17.5	0.0	
100	64QAM	1	1	15.98			17.5	0.0	
100	256QAM	1	1	16.58			17.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3456	3499.98	3543.96			
50	QPSK	1	1	15.82	15.75	16.00	17.5	0.0	
Channel				630688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3450.02	3499.98	3510			
80	QPSK	1	1	15.40	15.42	15.49	17.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	16.12	16.08	16.16	17.5	0.0	
Channel				631688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3499.98	3505			
50	QPSK	1	1	16.28	16.31	16.29	17.5	0.0	
Channel				631334	633332	636332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.02	16.00	16.00	17.5	0.0	
Channel				630688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	16.40	16.52	16.52	17.5	0.0	

Part27Q_n77(HPUe)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.25					
100	PI2 BPSK	1	137	19.94			20.5	0.0	
100	PI2 BPSK	1	271	19.34					
100	PI2 BPSK	135	0	19.89			20.5	0.0	
100	PI2 BPSK	135	69	19.91			20.5	0.0	
100	PI2 BPSK	135	138	19.95			20.5	0.0	
100	PI2 BPSK	270	0	19.91					
100	QPSK	1	1	19.23					
100	QPSK	1	137	20.03			20.5	0.0	
100	QPSK	1	271	19.31					
100	QPSK	135	0	19.91					
100	QPSK	135	69	20.00			20.5	0.0	
100	QPSK	135	138	19.93					
100	QPSK	270	0	19.95			20.5	0.0	
100	16QAM	1	1	18.50			20.5	0.0	
100	64QAM	1	1	18.38			20.5	0.0	
100	256QAM	1	1	19.34			20.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3456	3499.98	3543.96			
50	QPSK	1	1	19.46	19.49	19.56	20.5	0.0	
Channel				632688	633332	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480.02	3499.98	3510			
80	QPSK	1	1	19.42	19.47	19.58	20.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	19.59	19.61	19.55	20.5	0.0	
Channel				631688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3499.98	3505			
50	QPSK	1	1	19.69	19.77	19.70	20.5	0.0	
Channel				631334	633332	636332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.52	19.54	19.63	20.5	0.0	
Channel				630688	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.70	19.72	19.79	20.5	0.0	

Part27O_n77_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.03	18.09	18.04			
100	PI2 BPSK	1	137	18.86	18.92	18.89	17.5	0.0	
100	PI2 BPSK	1	271	18.37	18.34	18.39			
100	PI2 BPSK	135	0	18.77	18.74	18.78	17.5	0.0	
100	PI2 BPSK	135	69	18.82	18.89	18.89	17.5	0.0	
100	PI2 BPSK	135	138	18.82	18.84	18.81	17.5	0.0	
100	PI2 BPSK	270	0	18.78	18.75	18.87			
100	QPSK	1	1	15.98	16.03	16.03			
100	QPSK	1	137	16.87	16.96	16.90	17.5	0.0	
100	QPSK	1	271	16.21	16.30	16.35			
100	QPSK	135	0	16.82	16.79	16.83			
100	QPSK	135	69	16.86	16.94	16.92	17.5	0.0	
100	QPSK	135	138	16.78	16.85	16.74			
100	QPSK	270	0	16.88	16.89	16.75	17.5	0.0	
100	16QAM	1	1	15.73	15.88	15.93	17.5	0.0	
100	64QAM	1	1	15.98	15.89	15.78	17.5	0.0	
100	256QAM	1	1	16.39	16.42	16.36	17.5	0.0	
Channel				649988	650000	650232	Tune-up limit (dB)	MPR	
Frequency (MHz)				3743.02	3840	3828.96			
80	QPSK	1	1	16.13	16.16	16.09	17.5	0.0	
Channel				649334	650000	650966	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3840	3839.99			
80	QPSK	1	1	16.33	16.32	16.37	17.5	0.0	
Channel				649688	650000	650332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3840	3849.98			
60	QPSK	1	1	16.48	16.51	16.52	17.5	0.0	
Channel				648834	650000	650966	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3840	3854.99			
50	QPSK	1	1	16.52	16.57	16.53	17.5	0.0	
Channel				648000	650000	650000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3840	3900			
40	QPSK	1	1	16.27	16.33	16.38	17.5	0.0	
Channel				647334	650000	650966	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3840	3869.99			
20	QPSK	1	1	16.47	16.60	16.61	17.5	0.0	



Part270_n77(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.11	19.09	19.01			
100	PI2 BPSK	1	137	19.89	19.93	19.84	20.5	0.0	
100	PI2 BPSK	1	271	19.24	19.36	19.43			
100	PI2 BPSK	135	0	19.63	19.76	19.81	20.5	0.0	
100	PI2 BPSK	135	69	19.85	19.84	19.88	20.5	0.0	
100	PI2 BPSK	135	138	19.78	19.91	19.78	20.5	0.0	
100	PI2 BPSK	270	0	19.82	19.82	19.83			
100	QPSK	1	1	19.06	19.00	18.96			
100	QPSK	1	137	19.78	19.98	19.85	20.5	0.0	
100	QPSK	1	271	19.15	19.22	19.23			
100	QPSK	135	0	19.74	19.72	19.87			
100	QPSK	135	69	19.74	19.96	19.80	20.5	0.0	
100	QPSK	135	138	19.66	19.87	19.78			
100	QPSK	270	0	19.82	19.82	19.86	20.5	0.0	
100	16QAM	1	1	19.21	19.23	19.19	20.5	0.0	
100	64QAM	1	1	19.22	19.20	19.21	20.5	0.0	
100	256QAM	1	1	18.99	19.11	19.05	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.24	19.22	19.26	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.43	19.42	19.41	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.29	19.34	19.33	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.39	19.40	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.20	19.23	19.26	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.37	19.49	19.56	20.5	0.0	

Part27Q_n78_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.48					
100	PI2 BPSK	1	137	17.27			18.0	0.0	
100	PI2 BPSK	1	271	18.26					
100	PI2 BPSK	135	0	17.03			18.0	0.0	
100	PI2 BPSK	135	69	17.23			18.0	0.0	
100	PI2 BPSK	135	138	17.14			18.0	0.0	
100	PI2 BPSK	270	0	17.69					
100	QPSK	1	1	18.87					
100	QPSK	1	137	17.40			18.0	0.0	
100	QPSK	1	271	18.91					
100	QPSK	135	0	17.67					
100	QPSK	135	69	17.26			18.0	0.0	
100	QPSK	135	138	17.18					
100	QPSK	270	0	17.24			18.0	0.0	
100	16QAM	1	1	17.67			18.0	0.0	
100	64QAM	1	1	17.62			18.0	0.0	
100	256QAM	1	1	17.69			18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.22	18.24	18.17	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.20	18.31	18.23	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.41	18.50	18.47	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.65	18.69	18.65	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.83	18.89	18.81	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.56	18.69	18.73	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.10	17.13	17.12	18.0	0.0	

Part27Q_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.52					
100	PI2 BPSK	1	137	20.30			21.0	0.0	
100	PI2 BPSK	1	271	19.60					
100	PI2 BPSK	135	0	20.15			21.0	0.0	
100	PI2 BPSK	135	69	20.28			21.0	0.0	
100	PI2 BPSK	135	138	20.26			21.0	0.0	
100	PI2 BPSK	270	0	20.18					
100	QPSK	1	1	19.47					
100	QPSK	1	137	20.37			21.0	0.0	
100	QPSK	1	271	19.54					
100	QPSK	135	0	20.16					
100	QPSK	135	69	20.34			21.0	0.0	
100	QPSK	135	138	20.21					
100	QPSK	270	0	20.30			21.0	0.0	
100	16QAM	1	1	19.78			21.0	0.0	
100	64QAM	1	1	19.70			21.0	0.0	
100	256QAM	1	1	18.65			21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.25	19.40	19.19	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.40	19.17	19.21	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.52	19.48	19.59	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.43	19.59	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.24	19.33	19.42	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.84	19.88	19.89	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.05	19.96	20.11	21.0	0.0	



Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.50	18.50					
100	PI2 BPSK	1	137	17.23	17.23		18.0	0.0		
100	PI2 BPSK	1	271	16.82	16.82					
100	PI2 BPSK	135	0	17.11	17.11		18.0	0.0		
100	PI2 BPSK	135	69	17.22	17.22		18.0	0.0		
100	PI2 BPSK	135	138	17.19	17.19		18.0	0.0		
100	PI2 BPSK	270	0	17.18	17.18					
100	QPSK	1	1	16.43	16.43					
100	QPSK	1	137	17.33	17.33		18.0	0.0		
100	QPSK	1	271	16.59	16.59					
100	QPSK	135	0	17.18	17.18					
100	QPSK	135	69	17.31	17.31		18.0	0.0		
100	QPSK	135	138	17.21	17.21					
100	QPSK	270	0	17.13	17.13		18.0	0.0		
100	16QAM	1	1	16.18	16.18		18.0	0.0		
100	64QAM	1	1	16.22	16.22		18.0	0.0		
100	256QAM	1	1	16.85	16.85		18.0	0.0		
Channel										
				64988	65000	65032	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)		
50	QPSK	1	1	16.45	16.45	16.53	18.0	0.0		
Channel										
				64934	65000	65066	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)		
80	QPSK	1	1	16.85	16.57	16.69	18.0	0.0		
Channel										
				64950	65000	65132	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3750.02	3750	3769.98	(dBm)	(dB)		
60	QPSK	1	1	16.79	16.88	16.85	18.0	0.0		
Channel										
				64934	65000	65166	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3750.01	3750	3774.99	(dBm)	(dB)		
50	QPSK	1	1	17.02	17.08	17.14	18.0	0.0		
Channel										
				64800	65000	65200	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	1	16.74	16.85	16.91	18.0	0.0		
Channel										
				64768	65000	65232	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)		
30	QPSK	1	1	16.96	17.02	17.18	18.0	0.0		
Channel										
				64734	65000	65266	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)		
20	QPSK	1	1	17.14	17.19	17.32	18.0	0.0		

Part270_n78(HPUe)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.58	19.58					
100	PI2 BPSK	1	137	20.39	20.39		21.0	0.0		
100	PI2 BPSK	1	271	19.72	19.72					
100	PI2 BPSK	135	0	20.28	20.28		21.0	0.0		
100	PI2 BPSK	135	69	20.37	20.37		21.0	0.0		
100	PI2 BPSK	135	138	20.30	20.30		21.0	0.0		
100	PI2 BPSK	270	0	20.28	20.28					
100	QPSK	1	1	19.45	19.45					
100	QPSK	1	137	20.43	20.43		21.0	0.0		
100	QPSK	1	271	19.60	19.60					
100	QPSK	135	0	20.28	20.28					
100	QPSK	135	69	20.41	20.41		21.0	0.0		
100	QPSK	135	138	20.28	20.28					
100	QPSK	270	0	20.38	20.38		21.0	0.0		
100	16QAM	1	1	19.73	19.73		21.0	0.0		
100	64QAM	1	1	19.65	19.65		21.0	0.0		
100	256QAM	1	1	19.58	19.58		21.0	0.0		
Channel										
				64988	65000	65032	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)		
50	QPSK	1	1	19.38	19.48	19.59	21.0	0.0		
Channel										
				64934	65000	65066	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)		
80	QPSK	1	1	19.35	19.21	19.28	21.0	0.0		
Channel										
				64966	65000	65132	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3750.02	3750	3769.98	(dBm)	(dB)		
60	QPSK	1	1	19.74	19.75	19.75	21.0	0.0		
Channel										
				64934	65000	65166	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3750.01	3750	3774.99	(dBm)	(dB)		
50	QPSK	1	1	19.88	19.93	19.95	21.0	0.0		
Channel										
				64800	65000	65200	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	1	19.65	19.65	19.73	21.0	0.0		
Channel										
				64768	65000	65232	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)		
30	QPSK	1	1	19.93	19.94	20.00	21.0	0.0		
Channel										
				64734	65000	65266	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)		
20	QPSK	1	1	20.12	20.15	20.08	21.0	0.0		

Part27Q_n77_Ant 6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	16.00	16.00					
100	PI2 BPSK	1	137	16.55	16.55		17.3	0.0		
100	PI2 BPSK	1	271	15.99	15.99					
100	PI2 BPSK	135	0	16.54	16.54		17.3	0.0		
100	PI2 BPSK	135	69	16.54	16.54		17.3	0.0		
100	PI2 BPSK	135	138	16.48	16.48		17.3	0.0		
100	PI2 BPSK	270	0	16.50	16.50					
100	QPSK	1	1	16.04	16.04					
100	QPSK	1	137	16.63	16.63		17.3	0.0		
100	QPSK	1	271	15.91	15.91					
100	QPSK	135	0	16.54	16.54					
100	QPSK	135	69	16.61	16.61		17.3	0.0		
100	QPSK	135	138	16.53	16.53					
100	QPSK	270	0	16.58	16.58		17.3	0.0		
100	16QAM	1	1	15.78	15.78		17.3	0.0		
100	64QAM	1	1	15.81	15.81		17.3	0.0		
100	256QAM	1	1	16.43	16.43		17.3	0.0		
Channel										
				63300	63332	63366	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3469	3499.98	3504.99	(dBm)	(dB)		
50	QPSK	1	1	15.75	15.83	15.86	17.3	0.0		
Channel										
				63268	63332	63400	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3480.02	3499.98	3510	(dBm)	(dB)		
80	QPSK	1	1	15.72	16.17	15.88	17.3	0.0		
Channel										
				63200	63332	63466	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)		
60	QPSK	1	1	16.03	16.00	15.93	17.3	0.0		
Channel										
				63166	63332	63500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3470.02	3499.98	3529.99	(dBm)	(dB)		
50	QPSK	1	1	16.14	16.04	16.01	17.3	0.0		
Channel										
				63134	63332	63532	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3470.01	3499.98	3539.99	(dBm)	(dB)		
40	QPSK	1	1	15.95	15.95	15.89	17.3	0.0		
Channel										
				63068	63332	63600	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)		
20	QPSK	1	1	16.35	16.23	16.21	17.3	0.0		



Part27Q_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.76					
100	PI2 BPSK	1	137	19.43			20.3	0.0	
100	PI2 BPSK	1	271	18.77					
100	PI2 BPSK	135	0	19.30			20.3	0.0	
100	PI2 BPSK	135	69	19.48			20.3	0.0	
100	PI2 BPSK	135	138	19.22			20.3	0.0	
100	PI2 BPSK	270	0	19.29					
100	QPSK	1	1	19.53					
100	QPSK	1	137	19.55			20.3	0.0	
100	QPSK	1	271	18.59					
100	QPSK	135	0	19.44					
100	QPSK	135	69	19.51			20.3	0.0	
100	QPSK	135	138	19.34					
100	QPSK	270	0	19.47			20.3	0.0	
100	16QAM	1	1	18.81			20.3	0.0	
100	64QAM	1	1	18.83			20.3	0.0	
100	256QAM	1	1	18.78			20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.84	18.73	18.84	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.76	18.81	18.83	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.93	18.92	19.03	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.07	19.11	19.10	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.79	19.81	19.82	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.29	19.22	19.31	20.3	0.0	

Part27O_n77_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.96	15.71	15.60			
100	PI2 BPSK	1	137	16.33	16.18	16.18	17.3	0.0	
100	PI2 BPSK	1	271	15.57	15.51	15.50			
100	PI2 BPSK	135	0	16.32	16.15	16.11	17.3	0.0	
100	PI2 BPSK	135	69	16.34	16.21	16.19	17.3	0.0	
100	PI2 BPSK	135	138	16.13	15.98	15.92	17.3	0.0	
100	PI2 BPSK	270	0	16.31	16.21	16.15			
100	QPSK	1	1	15.91	15.84	15.79			
100	QPSK	1	137	16.47	16.20	16.13	17.3	0.0	
100	QPSK	1	271	15.55	15.51	15.50			
100	QPSK	135	0	16.41	16.26	16.05			
100	QPSK	135	69	16.44	16.27	16.15	17.3	0.0	
100	QPSK	135	138	16.17	16.02	16.08			
100	QPSK	270	0	16.41	16.29	16.22	17.3	0.0	
100	16QAM	1	1	16.10	16.07	16.07	17.3	0.0	
100	64QAM	1	1	16.11	16.02	16.03	17.3	0.0	
100	256QAM	1	1	16.13	16.07	16.04	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.79	15.58	15.60	17.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.85	15.71	16.23	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.06	15.85	15.72	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.27	15.93	15.79	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.94	15.69	15.62	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.29	16.15	15.83	17.3	0.0	

Part27O_n77(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.70	18.54	18.58			
100	PI2 BPSK	1	137	19.34	19.32	19.33	20.3	0.0	
100	PI2 BPSK	1	271	18.82	18.50	18.50			
100	PI2 BPSK	135	0	19.31	19.22	19.24	20.3	0.0	
100	PI2 BPSK	135	69	19.26	19.26	19.23	20.3	0.0	
100	PI2 BPSK	135	138	19.09	19.11	19.08	20.3	0.0	
100	PI2 BPSK	270	0	19.12	19.04	19.03			
100	QPSK	1	1	18.61	18.50	18.50			
100	QPSK	1	137	19.36	19.30	19.30	20.3	0.0	
100	QPSK	1	271	18.55	18.57	18.53			
100	QPSK	135	0	19.31	19.26	19.24			
100	QPSK	135	69	19.35	19.28	19.25	20.3	0.0	
100	QPSK	135	138	19.09	19.11	19.06	20.3	0.0	
100	QPSK	270	0	19.16	19.14	19.12	20.3	0.0	
100	16QAM	1	1	18.83	18.84	18.73	20.3	0.0	
100	64QAM	1	1	18.77	18.87	18.57	20.3	0.0	
100	256QAM	1	1	18.69	18.66	18.69	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.62	18.56	18.51	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.81	18.83	18.83	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.86	18.81	18.56	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.03	18.82	18.60	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.86	18.60	18.55	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.09	18.97	18.73	20.3	0.0	



Part27Q_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	15.90	16.33	16.79	17.3	0.0	
100	Pl2 BPSK	1	137	16.49	16.92	17.38	17.3	0.0	
100	Pl2 BPSK	1	271	16.75	17.18	17.64	17.3	0.0	
100	Pl2 BPSK	135	0	16.44	16.87	17.33	17.3	0.0	
100	Pl2 BPSK	135	69	16.56	16.99	17.45	17.3	0.0	
100	Pl2 BPSK	135	138	16.34	16.77	17.23	17.3	0.0	
100	Pl2 BPSK	270	0	16.36	16.79	17.25	17.3	0.0	
100	QPSK	1	1	15.88	16.31	16.77	17.3	0.0	
100	QPSK	1	137	16.56	16.99	17.45	17.3	0.0	
100	QPSK	1	271	16.79	17.22	17.68	17.3	0.0	
100	QPSK	135	0	16.47	16.90	17.36	17.3	0.0	
100	QPSK	135	69	16.54	16.97	17.43	17.3	0.0	
100	QPSK	135	138	16.37	16.80	17.26	17.3	0.0	
100	QPSK	270	0	16.49	16.92	17.38	17.3	0.0	
100	16QAM	1	1	15.67	16.10	16.56	17.3	0.0	
100	16QAM	1	1	15.68	16.11	16.57	17.3	0.0	
100	256QAM	1	1	16.31	16.74	17.20	17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.66	15.92	15.79	17.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.70	15.96	15.77	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.24	16.21	16.23	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.33	16.25	16.35	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.12	16.08	16.16	17.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.27	16.33	16.27	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.36	16.44	16.48	17.3	0.0	

Part27Q_n78(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	18.54	18.97	19.43	20.3	0.0	
100	Pl2 BPSK	1	137	19.46	19.89	20.35	20.3	0.0	
100	Pl2 BPSK	1	271	19.40	19.83	20.29	20.3	0.0	
100	Pl2 BPSK	135	0	19.28	19.71	20.17	20.3	0.0	
100	Pl2 BPSK	135	69	19.36	19.79	20.25	20.3	0.0	
100	Pl2 BPSK	135	138	19.19	19.62	20.08	20.3	0.0	
100	Pl2 BPSK	270	0	19.25	19.68	20.14	20.3	0.0	
100	QPSK	1	1	18.92	19.35	19.81	20.3	0.0	
100	QPSK	1	137	19.47	19.90	20.36	20.3	0.0	
100	QPSK	1	271	19.32	19.75	20.21	20.3	0.0	
100	QPSK	135	0	19.28	19.71	20.17	20.3	0.0	
100	QPSK	135	69	19.44	19.87	20.33	20.3	0.0	
100	QPSK	135	138	19.25	19.68	20.14	20.3	0.0	
100	QPSK	270	0	19.37	19.80	20.26	20.3	0.0	
100	16QAM	1	1	18.76	19.19	19.65	20.3	0.0	
100	16QAM	1	1	18.72	19.15	19.61	20.3	0.0	
100	256QAM	1	1	18.63	19.06	19.52	20.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.33	18.49	18.38	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.54	18.57	18.57	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.82	18.79	18.69	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.92	18.86	18.92	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.07	18.09	18.02	20.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.77	18.81	18.80	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.04	18.92	18.89	20.3	0.0	



Part270_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.76					
100	PI2 BPSK	1	137	18.31			17.3	0.0	
100	PI2 BPSK	1	211	15.45					
100	PI2 BPSK	135	0	18.32			17.3	0.0	
100	PI2 BPSK	135	69	18.42			17.3	0.0	
100	PI2 BPSK	135	138	18.29			17.3	0.0	
100	PI2 BPSK	270	0	18.29					
100	QPSK	1	1	15.74					
100	QPSK	1	137	18.45			17.3	0.0	
100	QPSK	1	211	18.42					
100	QPSK	135	0	18.30					
100	QPSK	135	69	18.43			17.3	0.0	
100	QPSK	135	138	18.19					
100	QPSK	270	0	18.35			17.3	0.0	
100	16QAM	1	1	15.48			17.3	0.0	
100	64QAM	1	1	15.54			17.3	0.0	
100	256QAM	1	1	16.15			17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.86	15.70	15.77	17.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.00	18.00	18.00	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.11	18.14	18.12	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.25	18.22	18.27	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.02	18.04	18.00	17.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.30	18.28	18.24	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.40	18.36	18.37	17.3	0.0	

Part270_n78(HPUE)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.42					
100	PI2 BPSK	1	137	18.25			20.3	0.0	
100	PI2 BPSK	1	211	18.45					
100	PI2 BPSK	135	0	19.23			20.3	0.0	
100	PI2 BPSK	135	69	19.21			20.3	0.0	
100	PI2 BPSK	135	138	19.10			20.3	0.0	
100	PI2 BPSK	270	0	19.17					
100	QPSK	1	1	18.48					
100	QPSK	1	137	18.35			20.3	0.0	
100	QPSK	1	211	18.41					
100	QPSK	135	0	19.24					
100	QPSK	135	69	19.33			20.3	0.0	
100	QPSK	135	138	19.06					
100	QPSK	270	0	19.28			20.3	0.0	
100	16QAM	1	1	18.61			20.3	0.0	
100	64QAM	1	1	18.57			20.3	0.0	
100	256QAM	1	1	18.82			20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.00	18.57	18.59	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.00	18.50	18.50	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.63	18.70	18.86	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.86	18.92	19.07	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.53	18.59	18.56	20.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.74	18.75	18.83	20.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.90	18.99	18.95	20.3	0.0	



BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth Ant7	CH 0	2402	14.72	14.81	15.36	12.55	12.20	12.04	12.58	12.25	12.19	17.00
	CH 39	2441	15.35	15.41	15.73	12.96	12.90	12.76	12.91	12.86	12.83	
	CH 78	2480	15.47	15.68	15.82	13.16	12.83	12.77	13.22	12.82	12.79	

BLE 1M/2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	6.51	6.78
	CH 19	2440	7.62	7.79
	CH 39	2480	8.18	8.28
Tune-up Limit			8.50	8.50