



Full & Default Power

GSM850_Ant 13 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM 1 Tx slot	32.65	32.92	32.78	33.50	23.65	23.92	23.78	24.50
GPRS/EDGE GMSK 1 Tx slots	32.63	32.90	32.74	33.50	23.63	23.90	23.74	24.50
GPRS/EDGE GMSK 2 Tx slots	30.33	30.53	30.45	31.50	24.33	24.53	24.45	25.50
GPRS/EDGE GMSK 3 Tx slots	28.36	28.89	28.01	29.50	24.10	24.63	23.75	25.24
GPRS/EDGE GMSK 4 Tx slots	27.17	27.40	27.22	28.00	24.17	24.40	24.22	25.00
EDGE BPSK 1 Tx slot	26.86	26.79	26.80	28.00	17.86	17.79	17.80	19.00
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	26.00	19.12	19.01	19.02	20.00
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74
EDGE BPSK 4 Tx slots	21.92	21.98	21.83	22.50	18.52	18.56	18.63	19.50

GSM850_Ant 31 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM 1 Tx slot	32.60	32.95	32.74	33.50	23.60	23.95	23.74	24.50
GPRS/EDGE GMSK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50
GPRS/EDGE GMSK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50
GPRS/EDGE GMSK 3 Tx slots	27.60	28.85	28.02	29.50	23.34	24.59	24.36	25.24
GPRS/EDGE GMSK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	28.00	17.89	17.83	17.80	19.00
EDGE BPSK 2 Tx slots	24.98	24.81	25.01	26.00	18.98	18.81	19.01	20.00
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74
EDGE BPSK 4 Tx slots	21.83	21.98	21.86	22.50	18.63	18.38	18.56	19.50

GSM1900_Ant 13 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	612	661	810		612	661	810	
GSM 1 Tx slot	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1909.8
GPRS/EDGE GMSK 1 Tx slot	29.83	29.86	29.85	30.50	20.83	20.86	20.85	21.50
GPRS/EDGE GMSK 2 Tx slots	27.68	27.73	27.61	28.50	21.68	21.73	21.61	22.50
GPRS/EDGE GMSK 3 Tx slots	25.53	25.64	25.74	26.50	21.27	21.38	21.48	22.24
GPRS/EDGE GMSK 4 Tx slots	24.46	24.49	24.38	25.00	21.46	21.49	21.38	22.00
EDGE BPSK 1 Tx slot	26.12	26.39	26.01	27.00	17.12	17.39	17.01	18.00
EDGE BPSK 2 Tx slots	24.30	24.24	24.36	25.00	18.30	18.24	18.36	19.00
EDGE BPSK 3 Tx slots	22.37	22.31	22.30	23.00	18.11	18.05	18.04	18.74
EDGE BPSK 4 Tx slots	20.56	20.51	20.52	21.50	17.56	17.51	17.52	18.50

GSM1900_Ant 31 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	612	661	810		612	661	810	
GSM 1 Tx slot	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1909.8
GPRS/EDGE GMSK 1 Tx slot	29.86	29.91	29.83	30.50	20.86	20.91	20.83	21.50
GPRS/EDGE GMSK 2 Tx slots	27.62	27.67	27.43	28.50	21.62	21.67	21.43	22.50
GPRS/EDGE GMSK 3 Tx slots	25.53	25.53	25.34	26.50	21.27	21.27	21.08	22.24
GPRS/EDGE GMSK 4 Tx slots	24.42	24.31	24.44	25.00	21.42	21.31	21.44	22.00
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	18.91	18.96	17.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00
EDGE BPSK 3 Tx slots	22.18	22.17	22.35	23.00	17.92	17.91	18.09	18.74
EDGE BPSK 4 Tx slots	20.64	20.57	20.56	21.50	17.64	17.57	17.56	18.50

Band TX Channel Rx Channel Frequency (MHz)	WCDMA V_Ant 13			Tune-up Limit (dBm)	WCDMA V_Ant 31			Tune-up Limit (dBm)
	5962	8400	9538		5962	8400	9538	
3GPP Rel 99	23.88	23.90	23.86	24.50	23.93	23.94	23.87	24.50
3GPP Rel 99	23.96	23.91	23.89	24.50	23.94	23.95	23.89	24.50
3GPP Rel 6	22.95	22.88	22.88	24.00	22.88	22.95	22.91	24.00
3GPP Rel 6	22.93	22.92	22.88	24.00	23.00	22.95	22.93	24.00
3GPP Rel 6	22.49	22.38	22.38	23.50	22.49	22.42	22.45	23.50
3GPP Rel 6	22.49	22.37	22.41	23.50	22.42	22.43	22.45	23.50
3GPP Rel 6	22.80	22.72	22.76	24.00	22.86	22.92	22.79	24.00
3GPP Rel 6	22.90	22.76	22.73	24.00	22.89	22.89	22.82	24.00
3GPP Rel 6	22.44	22.35	22.23	23.50	22.37	22.26	22.29	23.50
3GPP Rel 6	22.34	22.35	22.35	23.50	22.32	22.39	22.31	23.50
3GPP Rel 6	22.93	22.90	22.86	24.00	22.99	22.99	22.94	24.00
3GPP Rel 6	20.87	20.86	21.01	22.00	20.92	20.96	20.93	22.00
3GPP Rel 6	21.86	21.96	21.92	23.00	21.88	21.96	21.97	23.00
3GPP Rel 6	20.95	20.97	20.91	22.00	20.94	20.90	20.90	22.00
3GPP Rel 6	22.90	22.90	22.90	24.00	23.00	22.90	22.90	24.00
3GPP Rel 7	21.85	21.86	21.83	23.00	21.89	22.05	21.88	23.00

Band TX Channel Rx Channel Frequency (MHz)	WCDMA V_Ant 13			Tune-up Limit (dBm)	WCDMA V_Ant 31			Tune-up Limit (dBm)
	1312	1413	1513		1312	1413	1513	
3GPP Rel 99	23.94	23.95	23.92	24.50	23.89	23.95	23.87	24.50
3GPP Rel 99	23.96	23.97	23.95	24.50	23.90	23.97	23.90	24.50
3GPP Rel 6	22.88	22.89	22.89	24.00	23.02	23.10	23.02	24.00
3GPP Rel 6	22.86	23.01	22.94	24.00	22.99	23.13	23.02	24.00
3GPP Rel 6	22.31	22.49	22.45	23.50	22.52	22.62	22.57	23.50
3GPP Rel 6	22.38	22.52	22.47	23.50	22.59	22.63	22.54	23.50
3GPP Rel 6	22.86	22.81	22.94	24.00	23.00	22.97	22.98	24.00
3GPP Rel 6	22.77	22.87	22.81	24.00	22.94	23.09	23.00	24.00
3GPP Rel 6	22.29	22.39	22.31	23.50	22.48	22.56	22.56	23.50
3GPP Rel 6	22.32	22.50	22.42	23.50	22.44	22.61	22.49	23.50
3GPP Rel 6	22.95	23.05	22.98	24.00	23.02	23.12	23.02	24.00
3GPP Rel 6	20.98	20.98	21.07	22.00	21.02	21.08	20.99	22.00
3GPP Rel 6	21.97	22.01	21.99	23.00	21.93	22.14	22.04	23.00
3GPP Rel 6	20.97	21.06	21.01	22.00	21.00	21.12	21.15	22.00
3GPP Rel 6	22.90	23.00	23.00	24.00	23.00	23.10	23.00	24.00
3GPP Rel 7	22.03	22.05	21.98	23.00	21.96	22.15	22.09	23.00

Band TX Channel Rx Channel Frequency (MHz)	WCDMA V_Ant 13			Tune-up Limit (dBm)	WCDMA V_Ant 31			Tune-up Limit (dBm)
	4132	4182	4233		4132	4182	4233	
3GPP Rel 99	24.33	24.38	24.36	25.00	24.25	24.37	24.35	25.00
3GPP Rel 99	24.35	24.40	24.37	25.00	24.27	24.30	24.38	25.00
3GPP Rel 6	23.52	23.61	23.58	24.50	23.46	23.53	23.57	24.50
3GPP Rel 6	23.54	23.57	23.59	24.50	23.47	23.54	23.54	24.50
3GPP Rel 6	22.99	23.08	23.08	24.00	22.94	22.97	23.10	24.00
3GPP Rel 6	23.02	23.09	23.08	24.00	22.94	23.00	23.05	24.00
3GPP Rel 6	23.36	23.54	23.55	24.50	23.45	23.47	23.56	24.50
3GPP Rel 6	23.50	23.41	23.48	24.50	23.45	23.47	23.53	24.50
3GPP Rel 6	22.97	22.96	23.00	24.00	22.83	22.89	22.95	24.00
3GPP Rel 6	22.99	22.96	22.99	24.00	22.81	22.85	23.04	24.00
3GPP Rel 6	23.52	23.55	23.60	24.50	23.46	23.55	23.57	24.50
3GPP Rel 6	21.54	21.59	21.59	22.50	21.50	21.51	21.51	22.50
3GPP Rel 6	22.50	22.57	22.57	23.50	22.47	22.51	22.53	23.50
3GPP Rel 6	21.56	21.59	21.58	23.00	21.52	21.47	21.58	23.00
3GPP Rel 6	23.60	23.60	23.60	24.50	23.60	23.50	23.50	24.50
3GPP Rel 6	22.86	22.87	22.84	23.50	22.51	22.53	22.51	23.50



Band 2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Mod./Freq	Power Pch./Freq	Tune-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.53	23.54	23.48	24.5	0	
20	QPSK	1	49	23.37	23.36	23.41	24.5	0	
20	QPSK	1	99	23.26	23.28	23.29	24.5	0	
20	QPSK	50	0	22.64	22.66	22.61	23.5	1	
20	QPSK	50	24	22.58	22.59	22.58	23.5	1	
20	QPSK	50	50	22.60	22.45	22.50	23.5	1	
20	QPSK	100	0	22.63	22.64	22.47	23.5	1	
20	16QAM	1	0	23.32	22.61	23.10	23.5	1	
20	16QAM	1	49	22.87	22.47	22.40	23.5	1	
20	16QAM	1	99	23.05	22.85	22.53	23.5	1	
20	16QAM	50	0	21.47	21.49	21.46	22.5	2	
20	16QAM	50	24	21.51	21.65	21.52	22.5	2	
20	16QAM	50	50	21.86	21.44	21.52	22.5	2	
20	16QAM	100	0	21.56	21.56	21.46	22.5	2	
20	64QAM	1	0	21.96	21.69	21.37	22.5	2	
20	64QAM	1	49	21.55	21.27	21.52	22.5	2	
20	64QAM	1	99	22.04	21.34	21.63	22.5	2	
20	64QAM	50	0	20.58	20.44	20.53	21.5	3	
20	64QAM	50	24	20.58	20.46	20.58	21.5	3	
20	64QAM	50	50	20.54	20.53	20.55	21.5	3	
20	64QAM	100	0	20.55	20.56	20.46	21.5	3	
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.57	23.57	23.40	24.5	0	
15	QPSK	1	37	23.37	23.35	23.40	24.5	0	
15	QPSK	1	74	23.32	23.31	23.18	24.5	0	
15	QPSK	36	0	22.28	22.52	22.61	23.5	1	
15	QPSK	36	24	22.53	22.41	22.48	23.5	1	
15	QPSK	36	39	22.45	22.40	22.36	23.5	1	
15	QPSK	75	0	22.46	22.29	22.45	23.5	1	
15	16QAM	1	0	22.55	22.49	22.58	23.5	1	
15	16QAM	1	37	22.74	22.45	22.25	23.5	1	
15	16QAM	1	74	22.95	22.84	22.52	23.5	1	
15	16QAM	36	0	21.45	21.43	21.31	22.5	2	
15	16QAM	36	24	21.52	21.55	21.40	22.5	2	
15	16QAM	36	39	21.65	21.42	21.38	22.5	2	
15	16QAM	75	0	21.54	21.44	21.37	22.5	2	
15	64QAM	1	0	21.91	21.69	21.32	22.5	2	
15	64QAM	1	37	21.39	21.56	21.50	22.5	2	
15	64QAM	1	74	22.02	21.30	21.48	22.5	2	
15	64QAM	36	0	20.48	20.35	20.38	21.5	3	
15	64QAM	36	24	20.52	20.49	20.31	21.5	3	
15	64QAM	36	39	20.48	20.41	20.54	21.5	3	
15	64QAM	75	0	20.54	20.40	20.40	21.5	3	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.51	23.53	23.43	24.5	0	
10	QPSK	1	25	23.26	23.31	23.33	24.5	0	
10	QPSK	1	49	23.28	23.29	23.22	24.5	0	
10	QPSK	25	0	22.53	22.53	22.53	23.5	1	
10	QPSK	25	12	22.51	22.28	22.49	23.5	1	
10	QPSK	25	25	22.57	22.41	22.44	23.5	1	
10	QPSK	50	0	22.47	22.69	23.00	23.5	1	
10	16QAM	1	25	22.84	22.45	22.34	23.5	1	
10	16QAM	1	49	22.87	22.72	22.41	23.5	1	
10	16QAM	25	0	21.59	21.41	21.44	22.5	2	
10	16QAM	25	12	21.54	21.51	21.37	22.5	2	
10	16QAM	25	25	21.56	21.41	21.50	22.5	2	
10	16QAM	50	0	21.40	21.42	21.23	22.5	2	
10	16QAM	50	12	21.63	21.66	21.23	22.5	2	
10	64QAM	1	25	21.39	21.61	21.61	22.5	2	
10	64QAM	1	49	21.98	21.31	21.58	22.5	2	
10	64QAM	25	0	20.46	20.34	20.50	21.5	3	
10	64QAM	25	12	20.46	20.40	20.26	21.5	3	
10	64QAM	25	25	20.55	20.41	20.48	21.5	3	
10	64QAM	50	0	20.49	20.42	20.48	21.5	3	
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.52	23.51	23.38	24.5	0	
5	QPSK	1	12	23.39	23.24	23.34	24.5	0	
5	QPSK	1	24	23.27	23.31	23.23	24.5	0	
5	QPSK	12	0	22.49	22.83	22.63	23.5	1	
5	QPSK	12	7	22.53	22.37	22.46	23.5	1	
5	QPSK	12	13	22.53	22.29	22.41	23.5	1	
5	16QAM	1	0	23.00	22.77	22.38	23.5	1	
5	16QAM	1	12	22.72	22.45	22.38	23.5	1	
5	16QAM	1	24	22.52	22.39	22.30	23.5	1	
5	16QAM	12	7	21.48	21.45	21.47	22.5	2	
5	16QAM	12	13	21.56	21.41	21.46	22.5	2	
5	16QAM	25	0	21.52	21.53	21.54	22.5	2	
5	64QAM	1	0	21.95	21.56	21.34	22.5	2	
5	64QAM	1	12	21.44	21.55	21.49	22.5	2	
5	64QAM	1	24	21.62	20.47	20.47	22.5	2	
5	64QAM	12	7	20.52	20.41	20.28	21.5	3	
5	64QAM	12	13	20.60	20.37	20.34	21.5	3	
5	64QAM	25	0	20.52	20.41	20.33	21.5	3	
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.39	23.42	23.33	24.5	0	
3	QPSK	1	8	23.34	23.25	23.38	24.5	0	
3	QPSK	1	14	23.31	23.31	23.23	24.5	0	
3	QPSK	8	0	22.57	22.51	22.49	23.5	1	
3	QPSK	8	4	22.50	22.28	22.56	23.5	1	
3	QPSK	8	14	22.47	22.33	22.45	23.5	1	
3	QPSK	15	0	22.45	22.49	22.40	23.5	1	
3	16QAM	1	0	23.20	22.59	22.94	23.5	1	
3	16QAM	1	8	22.72	22.39	22.24	23.5	1	
3	16QAM	1	14	23.00	22.77	22.38	23.5	1	
3	16QAM	8	0	21.41	21.37	21.36	22.5	2	
3	16QAM	8	4	21.46	21.56	21.50	22.5	2	
3	16QAM	8	7	21.52	21.38	21.42	22.5	2	
3	16QAM	15	0	21.45	21.42	21.34	22.5	2	
3	64QAM	1	0	21.80	21.63	21.36	22.5	2	
3	64QAM	1	8	21.40	21.70	21.60	22.5	2	
3	64QAM	8	7	20.62	20.60	20.47	21.5	3	
3	64QAM	8	0	20.44	20.43	20.45	21.5	3	
3	64QAM	8	4	20.54	20.48	20.34	21.5	3	
3	64QAM	15	0	20.44	20.51	20.34	21.5	3	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.15	23.06	23.33	24.5	0	
1.4	QPSK	1	3	23.16	23.03	23.15	24.5	0	
1.4	QPSK	1	5	23.09	23.12	23.19	24.5	0	
1.4	QPSK	3	0	23.20	23.05	23.24	24.5	0	
1.4	QPSK	3	1	23.03	23.00	23.15	24.5	0	
1.4	QPSK	3	6	22.47	22.29	22.54	23.5	1	
1.4	16QAM	1	0	22.47	22.51	22.46	23.5	1	
1.4	16QAM	1	3	22.46	22.43	22.70	23.5	1	
1.4	16QAM	1	5	22.38	22.35	22.52	23.5	1	
1.4	16QAM	3	0	22.35	22.33	22.43	23.5	1	
1.4	16QAM	3	1	22.32	22.30	22.50	23.5	1	
1.4	16QAM	3	6	22.33	22.29	22.46	23.5	1	
1.4	16QAM	6	0	21.33	21.28	21.53	22.5	2	
1.4	64QAM	1	0	21.50	21.53	21.55	22.5	2	
1.4	64QAM	1	3	21.46	21.50	21.50	22.5	2	
1.4	64QAM	1	5	21.41	21.48	21.55	22.5	2	
1.4	64QAM	3	0	20.54	20.46	20.37	21.5	3	
1.4	64QAM	3	1	21.46	21.41	21.43	21.5	3	
1.4	64QAM	3	6	21.37	21.34	21.47	21.5	3	
1.4	64QAM	6	0	20.52	20.44	20.47	21.5	3	

Band 2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Mod./Freq	Power Pch./Freq	Tune-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.75	23.75	23.69	24.5	0	
20	QPSK	1	49	23.59	23.48	23.51	24.5	0	
20	QPSK	1	99	23.50	23.37	23.28	24.5	0	
20	QPSK	50	0	22.68	22.71	22.30	23.5	1	
20	QPSK	50	24						



Band 4_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Modem Ch / Freq	Power Hsp Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				20550	20175	20350			
20	QPSK	1	0	1732	1732.5	1745			
20	QPSK	1	0	2245	2245.5	2255			
20	QPSK	1	0	2333	2333.5	2345			
20	QPSK	1	99	2333	2333.5	2345			
20	QPSK	50	0	2255	2251	2237			
20	QPSK	15	24	2245	2245.5	2255			
20	QPSK	50	50	2248	2236	2232			
20	QPSK	100	0	2238	2240	2237			
20	16QAM	1	0	2271	2265	2254			
20	16QAM	1	99	2274	2246	2261			
20	16QAM	1	99	2265	2260	2232			
20	16QAM	50	0	2146	2136	2141			
20	16QAM	50	24	2144	2151	2144			
20	16QAM	100	50	2130	2155	2148			
20	16QAM	100	0	2145	2144	2141			
20	64QAM	1	0	2160	2169	2218			
20	64QAM	1	99	2159	2212	2181			
20	64QAM	1	99	2156	2124	2156			
20	64QAM	50	0	2031	2038	2027			
20	64QAM	50	24	2036	2041	2056			
20	64QAM	50	50	2047	2044	2053			
20	64QAM	100	0	2046	2038	2052			
Channel									
Frequency (MHz)				20025	20175	20325			
15	QPSK	1	0	1717.5	1722.5	1747.5			
15	QPSK	1	0	2245	2245.5	2255			
15	QPSK	1	37	2328	2335	2318			
15	QPSK	1	74	2329	2332	2311			
15	QPSK	36	0	2248	2248	2236			
15	QPSK	36	36	2247	2247	2231			
15	QPSK	36	36	2234	2246	2244			
15	QPSK	75	0	2225	2233	2234			
15	16QAM	1	0	2260	2253	2243			
15	16QAM	1	37	2260	2263	2260			
15	16QAM	1	74	2253	2253	2222			
15	16QAM	36	0	2134	2121	2139			
15	16QAM	36	36	2136	2143	2131			
15	16QAM	36	36	2118	2141	2136			
15	16QAM	75	0	2129	2132	2138			
15	64QAM	1	0	2177	2177	2213			
15	64QAM	1	37	2159	2213	2168			
15	64QAM	1	74	2148	2117	2154			
15	64QAM	36	0	2015	2032	2012			
15	64QAM	36	36	2034	2036	2040			
15	64QAM	36	36	2036	2030	2042			
15	64QAM	75	0	2043	2033	2067			
Channel									
Frequency (MHz)				20000	20175	20350			
10	QPSK	1	0	2333	2348	2323			
10	QPSK	1	25	2325	2332	2322			
10	QPSK	1	49	2322	2331	2321			
10	QPSK	25	0	2241	2243	2236			
10	QPSK	25	12	2243	2235	2221			
10	QPSK	25	25	2238	2228	2231			
10	16QAM	1	0	2260	2256	2240			
10	16QAM	1	25	2259	2253	2240			
10	16QAM	1	25	2271	2240	2255			
10	16QAM	1	49	2256	2250	2222			
10	16QAM	25	0	2131	2135	2127			
10	16QAM	25	12	2134	2136	2137			
10	16QAM	25	25	2120	2149	2132			
10	16QAM	50	0	2134	2129	2139			
10	16QAM	50	25	2132	2187	2124			
10	64QAM	1	25	2166	2044	2177			
10	64QAM	1	49	2153	2111	2149			
10	64QAM	25	0	2049	2054	2032			
10	64QAM	25	12	2054	2057	2054			
10	64QAM	25	25	2038	2039	2039			
10	64QAM	50	0	2038	2027	2044			
Channel									
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	2334	2346	2329			
5	QPSK	1	12	2324	2346	2323			
5	QPSK	1	25	2318	2346	2325			
5	QPSK	12	0	2234	2243	2238			
5	QPSK	12	7	2242	2238	2232			
5	QPSK	12	13	2247	2226	2217			
5	16QAM	1	0	2260	2253	2240			
5	16QAM	1	0	2275	2247	2247			
5	16QAM	1	12	2265	2237	2246			
5	16QAM	1	25	2264	2241	2236			
5	16QAM	12	0	2138	2124	2138			
5	16QAM	12	7	2136	2145	2137			
5	16QAM	12	13	2128	2139	2143			
5	16QAM	25	0	2103	2120	2114			
5	64QAM	1	0	2147	2175	2206			
5	64QAM	1	12	2154	2204	2171			
5	64QAM	1	24	2147	2159	2149			
5	64QAM	12	0	2034	2026	2039			
5	64QAM	12	7	2040	2047	2041			
5	64QAM	12	13	2037	2030	2038			
5	64QAM	25	0	2038	2027	2044			
Channel									
Frequency (MHz)				19950	20175	20395			
3	QPSK	1	0	2334	2334	2328			
3	QPSK	1	6	2318	2332	2320			
3	QPSK	1	12	2330	2318	2324			
3	QPSK	8	4	2238	2248	2231			
3	QPSK	8	4	2246	2238	2222			
3	QPSK	15	0	2239	2239	2236			
3	16QAM	1	0	2259	2258	2245			
3	16QAM	1	12	2264	2233	2244			
3	16QAM	1	24	2261	2259	2222			
3	16QAM	8	4	2132	2125	2130			
3	16QAM	8	4	2130	2142	2142			
3	16QAM	8	7	2128	2140	2138			
3	16QAM	15	0	2141	2136	2131			
3	64QAM	1	0	2154	2183	2212			
3	64QAM	1	8	2153	2199	2175			
3	64QAM	1	14	2143	2120	2144			
3	64QAM	8	4	2021	2026	2024			
3	64QAM	8	4	2048	2044	2044			
3	64QAM	8	7	2036	2042	2050			
3	64QAM	15	0	2037	2029	2042			
Channel									
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	2305	2321	2317			
1.4	QPSK	1	3	2301	2306	2324			
1.4	QPSK	1	5	2311	2297	2297			
1.4	QPSK	3	0	2308	2322	2315			
1.4	QPSK	3	1	2306	2308	2324			
1.4	QPSK	3	3	2310	2297	2308			
1.4	QPSK	6	0	2222	2225	2227			
1.4	16QAM	1	0	2214	2220	2213			
1.4	16QAM	1	3	2216	2216	2217			
1.4	16QAM	1	5	2222	2222	2218			
1.4	16QAM	3	0	2228	2242	2238			
1.4	16QAM	3	1	2236	2236	2226			
1.4	16QAM	3	3	2238	2235	2226			
1.4	16QAM	6	0	2117	2130	2136			
1.4	64QAM	1	0	2124	2129	2131			
1.4	64QAM	1	3	2124	2124	2121			
1.4	64QAM	1	5	2123	2121	2126			
1.4	64QAM	3	0	2115	2136	2130			
1.4	64QAM	3	1	2136	2133	2131			
1.4	64QAM	3	3	2136	2131	2111			
1.4	64QAM	6	0	2069	2024	2038			

Band 5_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Modem Ch / Freq	Power Hsp Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				20450	20525	20600			
10	QPSK	1	0	2184	2182	2181			
10	QPSK	1	25	2214	2214	2215			
10	QPSK	1	49	2214	2212	2214			
10	QPSK	25	0	2274	2281	2272			
10	QPSK	25	12	2274	2278	2274			
10	QPSK	25	25	2279	2274	2282			
10	QPSK	50	0	2281	2268	2274			
10	16QAM	1	0	2307	2294	2287			



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.05	21.08	22.07	24	0		
20	QPSK	1	99	22.05	21.08	22.07	24	0		
20	QPSK	1	99	22.82	22.85	22.86	23	1		
20	QPSK	50	0	22.05	22.14	22.13	23	1		
20	QPSK	50	99	21.99	22.09	22.12	23	1		
20	QPSK	100	0	22.06	22.06	22.02	23	1		
20	16QAM	1	0	22.04	22.40	22.35	23	1		
20	16QAM	1	99	22.05	22.18	22.77	23	1		
20	16QAM	50	0	20.76	20.90	20.99	22	2		
20	16QAM	50	24	20.91	20.99	21.10	22	2		
20	16QAM	100	0	21.00	21.04	21.06	22	2		
20	16QAM	1	0	20.87	21.09	20.84	22	2		
20	16QAM	1	99	21.40	21.26	21.32	21	3		
20	16QAM	50	0	20.23	19.97	20.06	21	3		
20	16QAM	50	24	20.07	20.06	20.07	21	3		
20	16QAM	50	99	19.89	19.93	19.92	21	3		
20	16QAM	100	0	20.62	19.88	20.08	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.63	22.04	22.62	24	0		
15	QPSK	1	37	22.79	22.82	22.84	24	0		
15	QPSK	1	74	22.69	22.74	22.82	24	0		
15	QPSK	36	0	21.98	22.06	22.05	23	1		
15	QPSK	36	99	21.96	22.00	21.96	23	1		
15	QPSK	75	0	21.89	21.91	21.89	23	1		
15	QPSK	1	37	22.22	22.19	22.68	23	1		
15	16QAM	1	37	22.01	22.06	22.70	23	1		
15	16QAM	36	0	20.66	20.89	20.91	22	2		
15	16QAM	36	99	20.81	20.92	20.99	22	2		
15	16QAM	36	99	20.80	20.99	21.05	22	2		
15	16QAM	75	0	20.86	20.95	21.05	22	2		
15	16QAM	1	37	21.36	21.18	20.87	22	2		
15	16QAM	1	74	21.36	21.21	21.18	22	2		
15	16QAM	36	0	19.93	19.91	19.91	21	3		
15	16QAM	36	99	19.87	19.93	19.91	21	3		
15	16QAM	36	99	19.81	19.93	19.91	21	3		
15	16QAM	75	0	19.92	19.73	19.96	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.50	22.97	22.95	24	0		
10	QPSK	1	25	22.70	22.92	22.83	24	0		
10	QPSK	1	49	22.71	22.69	22.81	24	0		
10	16QAM	36	0	22.02	22.33	22.43	23	1		
10	16QAM	25	12	21.76	21.87	21.96	23	1		
10	16QAM	25	25	21.98	22.01	22.07	23	1		
10	16QAM	50	0	21.87	21.80	21.91	23	1		
10	16QAM	1	25	22.04	22.29	22.61	23	1		
10	16QAM	1	49	22.03	22.11	22.76	23	1		
10	16QAM	25	0	20.74	20.80	20.84	22	2		
10	16QAM	25	12	20.83	20.90	21.05	22	2		
10	16QAM	25	25	20.86	20.97	21.08	22	2		
10	16QAM	50	0	20.93	20.91	20.90	22	2		
10	16QAM	1	0	20.71	20.96	20.90	22	2		
10	16QAM	1	25	21.31	21.32	20.86	22	2		
10	16QAM	1	49	21.35	21.11	21.16	22	2		
10	16QAM	25	0	19.90	19.81	19.90	21	3		
10	16QAM	25	12	19.85	19.86	19.92	21	3		
10	16QAM	25	25	19.88	19.98	20.03	21	3		
10	16QAM	50	0	19.84	19.90	20.04	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.52	23.01	22.95	24	0		
5	QPSK	1	12	22.80	22.96	22.86	24	0		
5	QPSK	1	24	22.79	22.72	22.79	24	0		
5	QPSK	12	0	21.95	22.12	22.09	23	1		
5	QPSK	12	7	21.87	21.90	22.07	23	1		
5	QPSK	12	13	21.87	21.94	21.99	23	1		
5	16QAM	1	0	22.00	22.36	22.39	23	1		
5	16QAM	1	12	22.24	22.17	22.59	23	1		
5	16QAM	1	24	22.01	22.07	22.63	23	1		
5	16QAM	12	0	20.85	20.78	20.94	22	2		
5	16QAM	12	7	20.83	20.89	21.09	22	2		
5	16QAM	12	13	20.82	20.95	20.99	22	2		
5	16QAM	25	0	20.85	20.98	20.90	22	2		
5	16QAM	1	0	20.73	21.05	20.73	22	2		
5	16QAM	1	12	21.27	21.25	20.78	22	2		
5	16QAM	1	24	21.24	21.15	21.27	22	2		
5	16QAM	12	0	19.88	19.94	20.05	21	3		
5	16QAM	12	7	19.88	19.92	19.97	21	3		
5	16QAM	12	13	19.76	19.94	19.88	21	3		
5	16QAM	25	0	19.95	19.77	19.98	21	3		

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.46	22.40	22.46	24	0		
20	QPSK	1	99	22.46	22.40	22.46	24	0		
20	QPSK	1	99	22.29	22.44	22.40	23	1		
20	QPSK	50	0	21.55	21.62	21.55	23	1		
20	QPSK	50	24	21.49	21.56	21.60	23	1		
20	QPSK	50	99	21.52	21.51	21.50	23	1		
20	16QAM	1	0	21.63	21.61	21.46	23	1		
20	16QAM	1	0	21.64	21.58	21.53	23	1		
20	16QAM	1	99	21.71	21.49	21.60	23	1		
20	16QAM	1	99	21.49	21.65	21.60	23	1		
20	16QAM	50	0	20.43	20.43	20.35	22	2		
20	16QAM	50	24	20.44	20.41	20.53	22	2		
20	16QAM	50	99	20.56	20.55	20.58	22	2		
20	16QAM	100	0	20.43	20.47	20.54	22	2		
20	16QAM	1	0	20.46	20.47	20.27	22	2		
20	16QAM	1	99	20.33	20.36	20.34	22	2		
20	16QAM	1	99	21.00	20.40	20.50	22	2		
20	16QAM	50	0	19.32	19.40	19.49	21	3		
20	16QAM	50	24	19.36	19.42	19.42	21	3		
20	16QAM	50	99	19.36	19.35	19.53	21	3		
20	16QAM	100	0	19.44	19.43	19.51	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.13	22.43	22.13	24	0		
15	QPSK	1	37	22.25	22.26	22.30	24	0		
15	QPSK	1	74	22.15	22.39	22.24	24	0		
15	QPSK	36	0	21.47	21.49	21.51	23	1		
15	QPSK	36	99	21.61	21.44	21.49	23	1		
15	QPSK	36	99	21.46	21.39	21.41	23	1		
15	QPSK	75	0	21.40	21.57	21.37	23	1		
15	16QAM	1	37	22.01	22.06	22.70	23	1		
15	16QAM	1	37	22.01	21.48	21.47	23	1		
15	16QAM	1	74	21.47	21.59	21.62	23	1		
15	16QAM	36	0	20.27	20.35	20.23	22	2		
15	16QAM	36	99	20.35	20.35	20.68	22	2		
15	16QAM	36	99	20.49	20.50	20.62	22	2		
15	16QAM	75	0	20.35	20.34	20.47	22	2		
15	16QAM	1	37	20.34	20.42	20.11	22	2		
15	16QAM	1	37	20.43	20.81	20.76	22	2		
15	16QAM	1	74	20.68	20.27	20.36	22	2		
15	16QAM	36	0	19.30	19.27	19.33	21	3		
15	16QAM	36	99	19.38	19.40	19.45	21	3		
15	16QAM	36	99	19.35	19.39	19.41	21	3		
15	16QAM	75	0	19.41	19.32	19.41	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.46	22.44	22.37	24	0		
10	QPSK	1	25	22.17	22.17	22.18	24	0		
10	QPSK	1	49	22.16	22.38	22.38	24	0		



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11					
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11					
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13					
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.98					
10	64QAM	25	25	21.12					
10	64QAM	50	0	21.06					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.98	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.86	21.89	21.85			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.98	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17					
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17					
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52					
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09					
10	64QAM	50	0	21.00					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.85	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.83			
5	16QAM	12	7	22.00	22.05	21.83			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.84	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.16	24.21	24.20			
10	QPSK	1	25	24.15	24.07	24.15			
10	QPSK	1	49	24.02	24.15	24.11			
10	QPSK	25	0	23.23	23.30	23.20			
10	QPSK	25	12	23.24	23.18	23.18			
10	QPSK	25	25	23.20	23.20	23.18			
10	QPSK	50	0	23.28	23.29	23.26			
10	16QAM	1	0	23.50	23.58	23.32			
10	16QAM	1	25	23.30	23.18	23.33			
10	16QAM	1	49	23.32	23.34	23.36			
10	16QAM	25	0	22.17	22.08	22.17			
10	16QAM	25	12	22.31	22.23	22.22			
10	16QAM	25	25	22.35	22.38	22.32			
10	16QAM	50	0	22.21	22.12	22.23			
10	64QAM	1	0	22.30	22.67	22.24			
10	64QAM	1	25	22.62	22.79	22.12			
10	64QAM	1	49	22.52	22.61	22.49			
10	64QAM	25	0	21.25	21.23	21.15			
10	64QAM	25	12	21.39	21.28	21.30			
10	64QAM	25	25	21.28	21.17	21.21			
10	64QAM	50	0	21.30	21.11	21.07			
Channel									
23755									
Frequency (MHz)									
5	QPSK	1	0	24.03	24.15	24.11			
5	QPSK	1	12	24.04	23.98	24.14			
5	QPSK	1	24	23.93	24.14	24.07			
5	QPSK	12	0	23.16	23.16	23.07			
5	QPSK	12	7	23.21	23.12	23.17			
5	QPSK	12	13	23.19	23.13	23.09			
5	QPSK	25	0	23.18	23.18	23.23			
5	16QAM	1	0	23.41	23.48	23.17			
5	16QAM	1	12	23.17	23.04	23.27			
5	16QAM	1	24	23.47	23.18	23.48			
5	16QAM	12	0	22.14	21.95	22.13			
5	16QAM	12	7	22.16	22.20	22.18			
5	16QAM	12	13	22.29	22.28	22.28			
5	16QAM	25	0	22.13	22.06	22.11			
5	64QAM	1	0	22.28	22.53	22.12			
5	64QAM	1	12	22.54	22.77	21.97			
5	64QAM	1	24	22.36	22.50	22.36			
5	64QAM	12	0	21.12	21.16	21.02			
5	64QAM	12	7	21.32	21.19	21.02			
5	64QAM	12	13	21.14	21.10	21.17			
5	64QAM	25	0	21.15	21.03	20.95			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.20	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.36	23.50			
10	16QAM	1	0	23.53	23.12	23.32			
10</									



Band 66_Ant 11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.46	23.33	23.30	24.5	0
20	QPSK	1	46	23.39	23.38	23.17		
20	QPSK	1	99	23.47	23.33	23.15		
20	QPSK	50	0	22.58	22.58	22.54	23.5	1
20	QPSK	50	24	22.36	22.48	22.42		
20	QPSK	50	50	22.39	22.48	22.32		
20	QPSK	100	0	22.42	22.56	22.27	23.5	1
20	16QAM	1	0	22.69	22.79	22.44		
20	16QAM	1	46	22.63	22.68	22.38		
20	16QAM	1	99	23.02	22.45	22.26	22.5	2
20	16QAM	50	0	21.39	21.37	21.39		
20	16QAM	50	24	21.45	21.34	21.39		
20	16QAM	50	50	21.39	21.38	21.24	22.5	2
20	16QAM	100	0	21.60	21.41	21.25		
20	64QAM	1	0	21.75	21.66	21.69		
20	64QAM	1	46	21.30	21.51	21.39	21.5	3
20	64QAM	1	99	21.02	21.69	21.54		
20	64QAM	50	0	20.35	20.43	20.45		
20	64QAM	50	24	20.47	20.44	20.42	21.5	3
20	64QAM	50	50	20.46	20.47	20.36		
20	64QAM	100	0	20.41	20.41	20.35		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.38	23.47	23.31	24.5	0
15	QPSK	1	37	23.29	23.31	23.05		
15	QPSK	1	74	23.32	23.17	23.08		
15	QPSK	36	0	22.48	22.36	22.32	23.5	1
15	QPSK	36	20	22.30	22.42	22.32		
15	QPSK	36	39	22.34	22.38	22.25		
15	QPSK	75	0	22.38	22.48	22.18	23.5	1
15	16QAM	1	0	22.87	22.66	22.29		
15	16QAM	1	37	22.49	22.57	22.35		
15	16QAM	1	74	22.90	22.38	22.18	22.5	2
15	16QAM	36	0	21.35	21.35	21.27		
15	16QAM	36	20	21.33	21.44	21.33		
15	16QAM	36	39	21.28	21.25	21.17	22.5	2
15	16QAM	75	0	21.47	21.26	21.22		
15	64QAM	1	0	21.73	21.58	21.66		
15	64QAM	1	37	21.24	21.48	21.67	22.5	2
15	64QAM	1	74	20.91	21.58	21.41		
15	64QAM	36	0	20.53	20.37	20.42		
15	64QAM	36	20	20.44	20.34	20.38	21.5	3
15	64QAM	36	39	20.36	20.43	20.28		
15	64QAM	75	0	20.37	20.28	20.25		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.40	23.46	23.22	24.5	0
10	QPSK	1	25	23.31	23.34	22.97		
10	QPSK	1	49	23.46	23.27	23.06		
10	QPSK	25	0	22.55	22.56	22.33	23.5	1
10	QPSK	25	12	22.34	22.44	22.39		
10	QPSK	25	25	22.25	22.32	22.23		
10	QPSK	50	0	22.40	22.45	22.16	23.5	1
10	16QAM	1	0	22.73	22.71	22.30		
10	16QAM	1	25	22.49	22.57	22.37		
10	16QAM	1	49	22.95	22.32	22.15	22.5	2
10	16QAM	25	0	21.38	21.28	21.28		
10	16QAM	25	12	21.40	21.50	21.30		
10	16QAM	25	25	21.32	21.31	21.14	22.5	2
10	16QAM	50	0	21.53	21.35	21.13		
10	64QAM	1	0	21.81	21.52	21.62		
10	64QAM	1	25	21.22	21.43	21.89	22.5	2
10	64QAM	1	49	20.95	21.64	21.41		
10	64QAM	25	0	20.40	20.37	20.43		
10	64QAM	25	12	20.45	20.40	20.37	21.5	3
10	64QAM	25	25	20.34	20.33	20.24		
10	64QAM	50	0	20.34	20.30	20.24		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.33	23.37	23.20	24.5	0
5	QPSK	1	12	23.34	23.34	23.03		
5	QPSK	1	24	23.41	23.19	23.08		
5	QPSK	12	0	22.50	22.49	22.36	23.5	1
5	QPSK	12	7	22.25	22.47	22.26		
5	QPSK	12	13	22.36	22.32	22.18		
5	QPSK	25	0	22.35	22.46	22.16	23.5	1
5	16QAM	1	0	22.86	22.68	22.41		
5	16QAM	1	12	22.47	22.64	22.28		
5	16QAM	1	24	22.92	22.35	22.15	22.5	2
5	16QAM	12	0	21.37	21.32	21.25		
5	16QAM	12	7	21.35	21.38	21.24		
5	16QAM	12	13	21.25	21.32	21.23	22.5	2
5	16QAM	25	0	21.52	21.45	21.16		
5	64QAM	1	0	21.69	21.50	21.56		
5	64QAM	1	12	21.25	21.50	21.73	22.5	2
5	64QAM	1	24	20.99	21.86	21.44		
5	64QAM	12	0	20.54	20.37	20.37		
5	64QAM	12	7	20.42	20.28	20.40	21.5	3
5	64QAM	12	13	20.40	20.36	20.29		
5	64QAM	25	0	20.40	20.35	20.28		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.32	23.50	23.31	24.5	0
3	QPSK	1	8	23.33	23.34	23.07		
3	QPSK	1	14	23.39	23.21	23.14		
3	QPSK	8	0	22.47	22.45	22.41	23.5	1
3	QPSK	8	4	22.21	22.46	22.26		
3	QPSK	8	7	22.26	22.39	22.30		
3	QPSK	15	0	22.38	22.46	22.19	23.5	1
3	16QAM	1	0	22.77	22.71	22.38		
3	16QAM	1	8	22.46	22.66	22.22		
3	16QAM	1	14	22.99	22.34	22.15	22.5	2
3	16QAM	8	0	21.32	21.29	21.31		
3	16QAM	8	4	21.38	21.41	21.25		
3	16QAM	8	7	21.24	21.25	21.12	22.5	2
3	16QAM	15	0	21.45	21.27	21.12		
3	64QAM	1	0	21.63	21.57	21.68		
3	64QAM	1	8	21.20	21.50	21.66	22.5	2
3	64QAM	1	14	20.91	21.65	21.69		
3	64QAM	8	0	20.43	20.39	20.37		
3	64QAM	8	4	20.33	20.34	20.35	21.5	3
3	64QAM	8	7	20.34	20.37	20.37		
3	64QAM	15	0	20.35	20.25	20.22		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.21	23.26	23.29	24.5	0
1.4	QPSK	1	3	23.16	23.21	23.14		
1.4	QPSK	1	5	22.98	23.07	22.90		
1.4	QPSK	3	0	23.29	23.32	23.28	23.5	1
1.4	QPSK	3	1	23.13	23.29	23.17		
1.4	QPSK	3	3	23.09	23.04	22.97		
1.4	QPSK	6	0	22.24	22.22	22.25	23.5	1
1.4	16QAM	1	0	22.26	22.28	22.26		
1.4	16QAM	1	3	22.17	22.22	22.17		
1.4	16QAM	1	5	22.21	22.14	22.13	22.5	2
1.4	16QAM	3	0	22.37	22.53	22.54		
1.4	16QAM	3	1	22.52	22.46	22.51		
1.4	16QAM	3	3	22.30	22.36	22.26	22.5	2
1.4	64QAM	6	0	21.19	21.32	21.33		
1.4	64QAM	1	0	21.29	21.33	21.18		
1.4	64QAM	1	3	21.11	21.23	21.21	22.5	2
1.4	64QAM	1	5	21.24	21.29	21.20		
1.4	64QAM	3	0	21.28	21.48	21.48		
1.4	64QAM	3	1	21.24	21.45	21.45	21.5	3
1.4	64QAM	3	3	21.24	21.39	21.28		
1.4	64QAM	6	0	20.18	20.27	20.27		



Band 38_Ant 13									
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									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	23.42	23.51	23.49			
20	QPSK	1	49	23.44	23.48	23.42	24.5	0	
20	QPSK	1	99	23.40	23.41	23.46			
20	QPSK	50	0	22.74	22.75	22.74			
20	QPSK	50	24	22.70	22.73	22.71	23.5	1	
20	QPSK	100	0	22.61	22.68	22.54			
20	16QAM	1	0	22.27	22.59	22.73			
20	16QAM	1	49	22.91	22.83	22.36	23.5	1	
20	16QAM	1	99	22.51	22.57	22.68			
20	16QAM	50	0	21.81	21.84	21.68			
20	16QAM	50	24	21.82	21.81	21.73	22.5	2	
20	16QAM	50	50	21.73	21.69	21.82			
20	16QAM	100	0	21.64	21.66	21.52			
20	64QAM	1	0	21.23	21.31	20.96			
20	64QAM	1	49	21.25	21.56	21.40	22.5	2	
20	64QAM	1	99	21.80	21.46	21.79			
20	64QAM	50	0	20.59	20.62	20.53			
20	64QAM	50	24	20.60	20.60	20.67	21.5	3	
20	64QAM	50	50	20.74	20.77	20.60			
20	64QAM	100	0	20.60	20.51	20.57			
Channel									
Frequency (MHz)				37825	38000	38175	Time-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.44	23.42	23.48			
15	QPSK	1	37	23.41	23.38	23.35	24.5	0	
15	QPSK	1	74	23.36	23.26	23.37			
15	QPSK	36	0	22.70	22.60	22.62			
15	QPSK	36	20	22.62	22.70	22.67	23.5	1	
15	QPSK	36	39	22.63	22.66	22.63			
15	QPSK	75	0	22.47	22.55	22.52			
15	16QAM	1	0	22.20	22.47	22.65			
15	16QAM	1	37	22.80	22.76	22.21	23.5	1	
15	16QAM	1	74	22.46	22.53	22.55			
15	16QAM	36	0	21.49	21.29	21.47			
15	16QAM	36	20	21.58	21.60	21.75	22.5	2	
15	16QAM	36	39	21.65	21.67	21.54			
15	16QAM	75	0	21.59	21.52	21.45			
15	64QAM	1	0	21.20	21.21	20.89			
15	64QAM	1	37	21.19	21.51	21.38	22.5	2	
15	64QAM	1	74	21.76	21.41	21.75			
15	64QAM	36	0	20.57	20.58	20.52			
15	64QAM	36	20	20.56	20.58	20.57	21.5	3	
15	64QAM	36	39	20.58	20.64	20.50			
15	64QAM	75	0	20.59	20.43	20.46			
Channel									
Frequency (MHz)				37800	38000	38200	Time-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.35	23.37	23.48			
10	QPSK	1	25	23.34	23.35	23.35	24.5	0	
10	QPSK	1	49	23.34	23.35	23.35			
10	QPSK	25	0	22.66	22.70	22.59			
10	QPSK	25	12	22.67	22.71	22.67	23.5	1	
10	QPSK	25	25	22.64	22.68	22.67			
10	QPSK	50	0	22.52	22.63	22.39			
10	16QAM	1	0	22.22	22.53	22.66			
10	16QAM	1	25	22.78	22.75	22.20	23.5	1	
10	16QAM	1	49	22.44	22.44	22.55			
10	16QAM	25	0	21.60	21.30	21.35			
10	16QAM	25	12	21.52	21.59	21.69	22.5	2	
10	16QAM	25	25	21.62	21.63	21.61			
10	16QAM	50	0	21.50	21.55	21.36			
10	64QAM	1	0	21.12	21.30	20.80			
10	64QAM	1	25	21.12	21.42	21.27	22.5	2	
10	64QAM	1	49	21.74	21.42	21.69			
10	64QAM	25	0	20.50	20.46	20.45			
10	64QAM	25	12	20.46	20.44	20.63	21.5	3	
10	64QAM	25	25	20.72	20.62	20.59			
10	64QAM	50	0	20.49	20.44	20.48			
Channel									
Frequency (MHz)				37775	38000	38225	Time-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.34	23.39	23.44			
5	QPSK	1	12	23.41	23.34	23.27	24.5	0	
5	QPSK	1	24	23.28	23.39	23.33			
5	QPSK	12	0	22.58	22.68	22.62			
5	QPSK	12	7	22.55	22.60	22.69	23.5	1	
5	QPSK	12	13	22.69	22.57	22.62			
5	QPSK	25	0	22.57	22.55	22.49			
5	16QAM	1	0	22.21	22.55	22.72			
5	16QAM	1	12	22.90	22.70	22.20	23.5	1	
5	16QAM	1	24	22.40	22.52	22.61			
5	16QAM	12	0	21.45	21.34	21.36			
5	16QAM	12	7	21.61	21.47	21.61	22.5	2	
5	16QAM	12	13	21.66	21.63	21.68			
5	16QAM	25	0	21.58	21.65	21.38			
5	64QAM	1	0	21.22	21.30	20.85			
5	64QAM	1	12	21.11	21.55	21.25	22.5	2	
5	64QAM	1	24	21.73	21.43	21.76			
5	64QAM	12	0	20.46	20.58	20.45			
5	64QAM	12	7	20.48	20.48	20.56	21.5	3	
5	64QAM	12	13	20.73	20.66	20.54			
5	64QAM	25	0	20.54	20.50	20.48			

Band 38_Ant 31									
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									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	23.42	23.65	23.10			
20	QPSK	1	49	23.43	23.46	23.57	24.5	0	
20	QPSK	1	99	23.44	23.56	23.52			
20	QPSK	50	0	22.70	22.79	22.73			
20	QPSK	50	24	22.66	22.82	22.82	23.5	1	
20	QPSK	100	0	22.54	22.82	22.58			
20	QPSK	100	0	22.71	22.77	22.52			
20	16QAM	1	0	22.71	22.42	22.43			
20	16QAM	1	49	22.86	22.81	22.27	23.5	1	
20	16QAM	1	99	22.54	23.03	22.84			
20	16QAM	50	0	21.57	21.46	21.43			
20	16QAM	50	24	21.80	21.81	21.70	22.5	2	
20	16QAM	50	50	21.72	21.74	21.73			
20	16QAM	100	0	21.65	21.62	21.82			
20	64QAM	1	0	21.82	22.01	21.13			
20	64QAM	1	49	21.52	21.87	21.85	22.5	2	
20	64QAM	1	99	21.68	21.72	21.52			
20	64QAM	50	0	20.57	20.52	20.55			
20	64QAM	50	24	20.67	20.58	20.69	21.5	3	
20	64QAM	50	50	20.78	20.84	20.71			
20	64QAM	100	0	20.76	20.60	20.49			
Channel									
Frequency (MHz)				37825	38000	38175	Time-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.37	23.50	23.56			
15	QPSK	1	37	23.30	23.31	23.56	24.5	0	
15	QPSK	1	74	23.30	23.47	23.43			
15	QPSK	36	0	22.54	22.66	22.63			
15	QPSK	36	20	22.52	22.51	22.61	23.5	1	
15	QPSK	36	39	22.49	22.54	22.52			
15	QPSK	75	0	22.60	22.53	22.48			
15	16QAM	1	0	22.57	22.30	22.31			
15	16QAM	1	37	22.83	22.71	22.83	23.5	1	
15	16QAM	1	74	22.47	22.87	22.83			
15	16QAM	36	0	21.47	21.45	21.35			
15	16QAM	36	20	21.68	21.67	21.42	22.5	2	
15	16QAM	36	39	21.63	21.73	21.65			
15	16QAM	75	0	21.58	21.58	21.61			
15	64QAM	1	0	21.67	21.93	21.09			
15	64QAM	1	37	21.38	21.75	21.59	22.5	2	
15	64QAM	1	74	21.62	21.67	21.42			
15	64QAM	36	0	20.46	20.47	20.42			
15	64QAM	36	20	20.59	20.53	20.58	21.5	3	
15	64QAM	36	39	20.71	20.69	20.66			
15	64QAM	75	0	20.65	20.50	20.40			
Channel									
Frequency (MHz)				37800	38000	38200	Time-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.28	23.63	23.53			
10	QPSK	1	25						



Band 41_Ant 13

BW (MHz)	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)				39750	40185	40620	41055	41490
				2501	2544.5	2589	2633.5	2678
20	QPSK	1	0	23.45	23.42	23.59	23.39	23.36
20	QPSK	1	49	23.44	23.37	23.59	23.40	23.30
20	QPSK	1	99	23.31	23.38	23.40	23.50	23.37
20	QPSK	50	0	22.50	22.73	22.74	22.62	22.63
20	QPSK	50	24	22.50	22.80	22.61	22.60	22.58
20	QPSK	50	50	22.54	22.58	22.59	22.61	22.60
20	QPSK	100	0	22.50	22.58	22.63	22.61	22.58
20	16QAM	1	0	22.13	22.17	22.45	22.49	22.25
20	16QAM	1	49	22.53	22.41	22.88	22.46	22.61
20	16QAM	1	99	22.48	22.53	22.88	22.44	22.54
20	16QAM	50	0	21.51	21.50	21.80	21.43	21.50
20	16QAM	50	24	21.50	21.60	21.57	21.49	21.61
20	16QAM	50	50	21.48	21.59	21.62	21.57	21.71
20	16QAM	100	0	21.56	21.58	21.54	21.49	21.59
20	64QAM	1	0	21.32	21.17	21.43	21.32	21.29
20	64QAM	1	49	21.58	21.45	21.64	21.68	21.25
20	64QAM	1	99	21.24	21.75	21.61	21.54	21.92
20	64QAM	50	0	20.48	20.49	20.51	20.34	20.48
20	64QAM	50	24	20.57	20.62	20.62	20.58	20.63
20	64QAM	50	50	20.55	20.59	20.73	20.62	20.78
20	64QAM	100	0	20.47	20.53	20.45	20.52	20.39
Channel								
Frequency (MHz)				39725	40173	40620	41058	41515
				2501.5	2543.5	2593	2637.5	2687.5
15	QPSK	1	0	23.45	23.44	23.55	23.53	23.28
15	QPSK	1	37	23.38	23.34	23.57	23.35	23.28
15	QPSK	1	74	23.29	23.25	23.33	23.33	23.31
15	QPSK	36	0	22.54	22.58	22.59	22.58	22.58
15	QPSK	36	20	22.46	22.54	22.59	22.49	22.54
15	QPSK	36	39	22.49	22.45	22.47	22.47	22.35
15	QPSK	75	0	22.40	22.51	22.56	22.45	22.35
15	16QAM	1	0	22.06	22.12	22.38	22.41	22.12
15	16QAM	1	37	22.40	22.39	22.80	22.35	22.51
15	16QAM	1	74	22.39	22.38	22.82	22.72	22.52
15	16QAM	36	0	21.49	21.44	21.53	21.30	21.42
15	16QAM	36	20	21.57	21.49	21.54	21.48	21.47
15	16QAM	36	39	21.47	21.50	21.55	21.55	21.66
15	16QAM	75	0	21.55	21.51	21.41	21.46	21.54
15	64QAM	1	0	21.19	21.14	21.37	21.23	21.22
15	64QAM	1	37	21.42	21.31	21.57	21.61	21.13
15	64QAM	1	74	21.11	21.71	21.51	21.45	21.91
15	64QAM	36	0	20.30	20.41	20.38	20.22	20.46
15	64QAM	36	20	20.43	20.47	20.49	20.51	20.56
15	64QAM	36	39	20.51	20.48	20.71	20.51	20.77
15	64QAM	75	0	20.35	20.43	20.39	20.48	20.37
Channel								
Frequency (MHz)				39700	40160	40620	41080	41540
				2501	2547	2593	2639	2685
10	QPSK	1	0	23.45	23.44	23.56	23.39	23.36
10	QPSK	1	25	23.40	23.28	23.27	23.46	23.28
10	QPSK	1	49	23.18	23.28	23.27	23.46	23.28
10	QPSK	25	0	22.47	22.65	22.65	22.54	22.56
10	QPSK	25	12	22.36	22.53	22.50	22.48	22.47
10	QPSK	25	25	22.52	22.49	22.43	22.46	22.44
10	QPSK	50	0	22.40	22.54	22.56	22.60	22.48
10	16QAM	1	0	22.02	22.14	22.33	22.48	22.22
10	16QAM	1	25	22.49	22.31	22.80	22.38	22.48
10	16QAM	1	49	22.44	22.47	22.82	22.77	22.40
10	16QAM	25	0	21.47	21.35	21.55	21.37	21.41
10	16QAM	25	12	21.44	21.58	21.51	21.36	21.47
10	16QAM	25	25	21.33	21.27	21.55	21.21	21.62
10	16QAM	50	0	21.49	21.56	21.45	21.46	21.55
10	64QAM	1	0	21.22	21.11	21.27	21.30	21.28
10	64QAM	1	25	21.44	21.37	21.58	21.64	21.21
10	64QAM	1	49	21.19	21.59	21.58	21.53	21.84
10	64QAM	25	0	20.30	20.37	20.47	20.19	20.41
10	64QAM	25	12	20.51	20.56	20.56	20.44	20.61
10	64QAM	25	25	20.40	20.54	20.60	20.47	20.75
10	64QAM	50	0	20.43	20.50	20.38	20.48	20.27
Channel								
Frequency (MHz)				39675	40148	40620	41093	41555
				2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	23.45	23.44	23.59	23.40	23.31
5	QPSK	1	12	23.20	23.24	23.51	23.36	23.16
5	QPSK	1	24	23.18	23.25	23.38	23.38	23.32
5	QPSK	12	0	22.56	22.57	22.71	22.62	22.62
5	QPSK	12	7	22.47	22.50	22.57	22.47	22.47
5	QPSK	12	13	22.53	22.45	22.49	22.47	22.59
5	QPSK	25	0	22.41	22.53	22.54	22.54	22.48
5	16QAM	1	0	22.07	22.07	22.41	22.45	22.19
5	16QAM	1	12	22.44	22.29	22.78	22.37	22.54
5	16QAM	1	24	22.35	22.46	22.77	22.78	22.49
5	16QAM	12	0	21.48	21.40	21.49	21.41	21.36
5	16QAM	12	7	21.58	21.44	21.44	21.37	21.59
5	16QAM	12	13	21.30	21.45	21.61	21.54	21.63
5	16QAM	25	0	21.49	21.49	21.49	21.40	21.53
5	64QAM	1	0	21.22	21.03	21.37	21.23	21.21
5	64QAM	1	12	21.44	21.36	21.58	21.56	21.24
5	64QAM	1	24	21.23	21.71	21.52	21.50	21.89
5	64QAM	12	0	20.30	20.43	20.50	20.25	20.46
5	64QAM	12	7	20.48	20.53	20.50	20.43	20.59
5	64QAM	12	13	20.50	20.47	20.66	20.56	20.64
5	64QAM	25	0	20.38	20.49	20.44	20.37	20.26

Band 41_Ant 31

BW (MHz)	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)				39750	40185	40620	41055	41490
				2508	2548.5	2593	2638.5	2683
20	QPSK	1	0	23.26	23.45	23.72	23.50	23.61
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56
20	QPSK	50	0	22.60	22.86	22.70	22.57	22.86
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51
20	QPSK	50	50	22.41	22.52	22.58	22.55	22.60
20	QPSK	100	0	22.47	22.61	22.69	22.45	22.52
20	16QAM	1	0	22.06	22.54	22.51	22.28	22.48
20	16QAM	1	49	22.31	22.63	22.56	22.37	22.23
20	16QAM	1	99	22.31	22.33	22.80	22.42	22.55
20	16QAM	50	0	21.41	21.52	21.58	21.55	21.60
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58
20	16QAM	50	50	21.51	21.48	21.69	21.52	21.67
20	16QAM	100	0	21.51	21.48	21.63	21.31	21.54
20	64QAM	1	0	21.27	21.57	21.35	21.88	21.35
20	64QAM	1	49	21.45	21.50	21.43	21.51	21.30
20	64QAM	1	99	21.09	21.37	21.78	21.34	21.72
20	64QAM	50	0	20.48	20.53	20.44	20.41	20.54
20	64QAM	50	24	20.50	20.60	20.58	20.49	20.55
20	64QAM	50	50	20.41	20.50	20.83	20.63	20.71
20	64QAM	100	0	20.46	20.56	20.58	20.50	20.61
Channel								
Frequency (MHz)				39725	40173	40620	41058	41515
				2503.5	2548.5	2593	2637.5	2682.5
15	QPSK	1	0	23.15	23.37	23.67	23.35	23.51
15	QPSK	1	37	23.15	23.24	23.48	23.33	23.41
15	QPSK	1	74	23.07	23.30	23.42	23.27	23.48
15	QPSK	36	0	22.57	22.63	22.63	22.41	22.53
15	QPSK	36	20	22.44	22.54	22.48	22.40	22.44
15	QPSK	36	39	22.51	22.46	22.55	22.39	22.63
15	QPSK	75	0	22.37	22.51	22.52	22.38	22.39
15	16QAM	1	0	22.01	22.49	22.46	22.21	22.39
15	16QAM	1	37	22.18	22.48	22.54	22.31	22.14
15	16QAM	1	74	22.17	22.21	22.66	22.41	22.43
15	16QAM	36	0	21.28	21.51	21.44	21.42	21.59
15								



Reduced Power Mode for DSI2

GSM850_Ant 13	Burst Average Power (dBm)				Frame Average Power (dBm)			
	128	189	251	Limit	128	189	251	Limit
TX Channel	128.2	189.4	251.6	243.8	128.2	189.4	251.6	243.8
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	30.21	30.11	30.33	31.00	21.21	21.11	21.33	22.00
GPRS/EDGE GSMK 1 Tx slot	30.20	30.10	30.31	31.00	21.20	21.10	21.31	22.00
GPRS/EDGE GSMK 2 Tx slots	27.10	27.17	27.14	29.00	21.10	21.17	21.14	23.00
GPRS/EDGE GSMK 3 Tx slots	25.27	25.32	25.42	27.00	21.01	21.06	21.16	22.74
GPRS/EDGE GSMK 4 Tx slots	24.95	24.11	24.27	25.50	21.05	21.11	21.27	22.50
EDGE BPSK 1 Tx slot	26.86	26.79	26.80	28.00	17.86	17.79	17.80	19.00
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	26.00	19.12	19.01	19.02	20.00
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74
EDGE BPSK 4 Tx slots	21.52	21.58	21.63	22.50	18.52	18.56	18.63	19.50

GSM850_Ant 31	Burst Average Power (dBm)				Frame Average Power (dBm)			
	128	189	251	Limit	128	189	251	Limit
TX Channel	128.2	189.4	251.6	243.8	128.2	189.4	251.6	243.8
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.80	32.95	32.74	33.50	23.60	23.95	23.74	24.50
GPRS/EDGE GSMK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50
GPRS/EDGE GSMK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50
GPRS/EDGE GSMK 3 Tx slots	27.80	28.85	28.62	29.50	23.34	24.59	24.36	25.24
GPRS/EDGE GSMK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	28.00	17.89	17.83	17.80	19.00
EDGE BPSK 2 Tx slots	24.88	24.81	25.01	26.00	18.88	18.81	19.01	20.00
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74
EDGE BPSK 4 Tx slots	21.63	21.38	21.58	22.50	18.63	18.38	18.58	19.50

GSM1900_Ant 13	Burst Average Power (dBm)				Frame Average Power (dBm)			
	512	661	810	Limit	512	661	810	Limit
TX Channel	512	661	810	1909.8	512	661	810	1909.8
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	27.04	26.70	26.84	27.50	18.04	17.70	17.84	18.50
GPRS/EDGE GSMK 1 Tx slot	27.01	26.69	26.82	27.50	18.01	17.68	17.82	18.50
GPRS/EDGE GSMK 2 Tx slots	24.88	24.74	24.70	25.50	18.88	18.74	18.70	19.50
GPRS/EDGE GSMK 3 Tx slots	22.08	22.17	22.01	23.50	17.82	17.91	17.75	18.24
GPRS/EDGE GSMK 4 Tx slots	20.80	20.81	20.70	22.00	17.80	17.81	17.70	19.00
EDGE BPSK 1 Tx slot	26.12	26.39	26.01	27.00	17.12	17.39	17.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.24	24.36	25.00	18.20	18.24	18.36	19.00
EDGE BPSK 3 Tx slots	22.37	22.31	22.30	23.00	18.11	18.05	18.04	18.74
EDGE BPSK 4 Tx slots	20.56	20.51	20.52	21.50	17.56	17.51	17.52	18.50

GSM1900_Ant 31	Burst Average Power (dBm)				Frame Average Power (dBm)			
	512	661	810	Limit	512	661	810	Limit
TX Channel	512	661	810	1909.8	512	661	810	1909.8
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	29.86	29.91	29.83	30.50	20.86	20.91	20.83	21.50
GPRS/EDGE GSMK 1 Tx slot	29.85	29.90	29.81	30.50	20.85	20.90	20.81	21.50
GPRS/EDGE GSMK 2 Tx slots	27.82	27.67	27.43	28.50	21.82	21.67	21.43	22.50
GPRS/EDGE GSMK 3 Tx slots	25.53	25.53	25.34	26.50	21.27	21.27	21.08	22.24
GPRS/EDGE GSMK 4 Tx slots	24.42	24.31	24.44	25.00	21.42	21.31	21.44	22.00
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	18.91	18.96	19.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00
EDGE BPSK 3 Tx slots	22.18	22.17	22.35	23.00	17.92	17.91	18.09	18.74
EDGE BPSK 4 Tx slots	20.84	20.57	20.56	21.50	17.64	17.57	17.56	18.50

Band	WCDMA II_Ant 13				WCDMA II_Ant 31			
	TX Channel	5962	8400	9538	5962	8400	9538	Limit
Rx Channel	5962	8400	9538	9662	8400	9538	9662	9538
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6		
3GPP Rel 99 AMR 12.2Kbps	17.90	17.94	17.93	18.50	23.93	23.94	23.87	24.50
3GPP Rel 99 AMR 12.2Kbps	17.91	17.98	17.94	18.50	23.94	23.95	23.89	24.50
3GPP Rel 6 HSDPA Subtest-1	17.00	17.16	16.95	18.00	22.98	22.95	22.91	24.00
3GPP Rel 6 HSDPA Subtest-2	17.12	16.82	16.93	18.00	23.00	22.95	22.93	24.00
3GPP Rel 6 HSDPA Subtest-3	16.52	16.74	16.36	17.50	22.49	22.42	22.45	23.50
3GPP Rel 6 HSDPA Subtest-4	16.32	16.72	16.47	17.50	22.52	22.43	22.45	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	16.88	16.72	16.75	18.00	22.95	22.92	22.79	24.00
3GPP Rel 6 DC-HSDPA Subtest-2	16.99	17.10	16.85	18.00	22.99	22.89	22.82	24.00
3GPP Rel 6 DC-HSDPA Subtest-3	16.24	16.35	16.32	17.50	22.37	22.26	22.29	23.50
3GPP Rel 6 DC-HSDPA Subtest-4	16.42	16.41	16.25	17.50	22.50	22.39	22.31	23.50
3GPP Rel 6 HSUPA Subtest-1	17.13	17.11	16.81	18.00	22.99	22.99	22.94	24.00
3GPP Rel 6 HSUPA Subtest-2	14.94	15.07	15.20	16.00	20.52	20.96	20.93	22.00
3GPP Rel 6 HSUPA Subtest-3	18.16	15.77	15.88	17.00	21.88	21.96	21.97	23.00
3GPP Rel 6 HSUPA Subtest-4	14.99	15.00	14.91	16.00	20.94	20.90	20.90	22.00
3GPP Rel 6 HSUPA Subtest-5	16.84	17.13	16.83	18.00	23.00	22.90	22.90	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	15.75	15.98	16.00	17.00	21.89	22.05	21.88	23.00

Band	WCDMA IV_Ant 13				WCDMA IV_Ant 31			
	TX Channel	1312	1413	1513	1312	1413	1513	Limit
Rx Channel	1312 <td>1413 <td>1513 <td>1537</td> <td>1413 <td>1513 <td>1537</td> <td>1537</td> </td></td></td></td>	1413 <td>1513 <td>1537</td> <td>1413 <td>1513 <td>1537</td> <td>1537</td> </td></td></td>	1513 <td>1537</td> <td>1413 <td>1513 <td>1537</td> <td>1537</td> </td></td>	1537	1413 <td>1513 <td>1537</td> <td>1537</td> </td>	1513 <td>1537</td> <td>1537</td>	1537	1537
Frequency (MHz)	1712.4	1732.6	1752.8	1712.4	1732.6	1752.8		
3GPP Rel 99 AMR 12.2Kbps	18.35	18.40	18.33	19.00	23.89	23.95	23.87	24.50
3GPP Rel 99 AMR 12.2Kbps	18.37	18.42	18.38	19.00	23.90	23.97	23.90	24.50
3GPP Rel 6 HSDPA Subtest-1	17.77	17.84	17.82	18.50	23.02	23.10	23.02	24.00
3GPP Rel 6 HSDPA Subtest-2	17.84	17.71	17.65	18.50	22.99	23.13	23.02	24.00
3GPP Rel 6 HSDPA Subtest-3	17.26	17.19	17.14	18.00	22.52	22.62	22.57	23.50
3GPP Rel 6 HSDPA Subtest-4	17.16	17.43	17.32	18.00	22.59	22.63	22.54	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	17.75	17.65	17.60	18.50	23.00	22.97	22.96	24.00
3GPP Rel 6 DC-HSDPA Subtest-2	17.51	17.50	17.63	18.50	22.94	23.09	23.00	24.00
3GPP Rel 6 DC-HSDPA Subtest-3	17.14	17.04	16.91	18.00	22.48	22.56	22.56	23.50
3GPP Rel 6 DC-HSDPA Subtest-4	17.03	17.09	17.16	18.00	22.44	22.61	22.49	23.50
3GPP Rel 6 HSUPA Subtest-1	17.80	17.85	17.76	18.50	23.02	23.12	23.02	24.00
3GPP Rel 6 HSUPA Subtest-2	15.75	15.88	15.73	16.50	21.02	21.09	20.89	22.00
3GPP Rel 6 HSUPA Subtest-3	18.73	16.70	16.58	17.50	21.93	22.14	22.04	23.00
3GPP Rel 6 HSUPA Subtest-4	15.79	15.88	15.90	16.50	21.00	21.12	21.15	22.00
3GPP Rel 6 HSUPA Subtest-5	17.79	17.52	17.70	18.50	23.00	23.10	23.00	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	16.75	16.80	16.83	17.50	21.86	22.15	22.09	23.00

Band	WCDMA V_Ant 13				WCDMA V_Ant 31			
	TX Channel	4132	4182	4233	4132	4182	4233	Limit
Rx Channel	4357	4407	4458	4357	4407	4458	4357	4458
Frequency (MHz)	1836.4	1864	1892.6	1836.4	1864	1892.6		
3GPP Rel 99 AMR 12.2Kbps	21.24	21.28	21.23	22.00	24.25	24.37	24.35	25.00
3GPP Rel 99 AMR 12.2Kbps	21.27	21.25	21.28	22.00	24.27	24.35	24.38	25.00
3GPP Rel 6 HSDPA Subtest-1	20.63	20.68	20.74	21.50	23.46	23.53	23.57	24.50
3GPP Rel 6 HSDPA Subtest-2	20.62	20.53	20.55	21.50	23.47	23.54	23.54	24.50
3GPP Rel 6 HSDPA Subtest-3	20.02	20.27	20.03	21.00	22.94	22.97	23.10	24.00
3GPP Rel 6 HSDPA Subtest-4	20.15	19.99	20.06	21.00	22.94	23.00	23.05	24.00
3GPP Rel 6 DC-HSDPA Subtest-1	20.49	20.70	20.54	21.50	23.45	23.47	23.56	24.50
3GPP Rel 6 DC-HSDPA Subtest-2	20.47	20.54	20.66	21.50	23.45	23.47	23.53	24.50
3GPP Rel 6 DC-HSDPA Subtest-3	19.82	20.05	19.96	21.00	22.83	22.89	22.95	24.00
3GPP Rel 6 DC-HSDPA Subtest-4	19.98	20.10	19.62	21.00	22.81	22.85	23.04	24.00
3GPP Rel 6 HSUPA Subtest-1	20.70	20.68	20.68	21.50	23.46	23.55	23.57	24.50
3GPP Rel 6 HSUPA Subtest-2	18.40	18.53	18.45	19.50	21.50	21.51	21.51	22.50
3GPP Rel 6 HSUPA Subtest-3	19.77	19.72	19.64	20.50	22.47	22.51	22.53	23.50
3GPP Rel 6 HSUPA Subtest-4	18.42	18.61	18.54	20.00	21.52	21.47	21.58	23.00
3GPP Rel 6 HSUPA Subtest-5	20.48	20.51	20.64	21.50	23.50	23.60	23.50	24.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	19.85	19.83	19.84	20.50	22.51	22.53	22.51	23.50



Band 2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Turn-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.95	17.69	17.50	18.5	0	
20	QPSK	1	49	17.43	17.43	17.50	18.5	0	
20	QPSK	1	99	17.60	17.60	17.56	18.5	0	
20	QPSK	50	0	17.59	17.61	17.58	18.5	0	
20	QPSK	50	24	17.41	17.48	17.48	18.5	0	
20	QPSK	50	50	17.44	17.45	17.50	18.5	0	
20	QPSK	100	0	17.47	17.58	17.52	18.5	0	
20	16QAM	1	0	17.54	17.40	17.44	18.5	0	
20	16QAM	1	49	17.43	17.43	17.50	18.5	0	
20	16QAM	1	99	17.42	17.53	17.53	18.5	0	
20	16QAM	50	0	17.57	17.44	17.58	18.5	0	
20	16QAM	50	24	17.41	17.43	17.52	18.5	0	
20	16QAM	50	50	17.46	17.59	17.58	18.5	0	
20	64QAM	1	0	17.47	17.48	17.49	18.5	0	
20	64QAM	1	49	17.43	17.50	17.54	18.5	0	
20	64QAM	1	99	17.41	17.44	17.53	18.5	0	
20	64QAM	50	0	17.43	17.42	17.56	18.5	0	
20	64QAM	50	24	17.41	17.43	17.52	18.5	0	
20	64QAM	50	50	17.56	17.44	17.40	18.5	0	
20	64QAM	100	0	17.58	17.55	17.40	18.5	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.42	17.43	17.52	18.5	0	
15	QPSK	1	37	17.43	17.40	17.41	18.5	0	
15	QPSK	1	74	17.42	17.47	17.49	18.5	0	
15	QPSK	36	0	17.48	17.50	17.46	18.5	0	
15	QPSK	36	17.43	17.42	17.41	18.5	0		
15	QPSK	36	39	17.40	17.47	17.54	18.5	0	
15	QPSK	75	0	17.41	17.56	17.57	18.5	0	
15	16QAM	1	0	17.42	17.49	17.56	18.5	0	
15	16QAM	1	37	17.42	17.48	17.56	18.5	0	
15	16QAM	1	74	17.46	17.40	17.56	18.5	0	
15	16QAM	36	0	17.52	17.47	17.41	18.5	0	
15	16QAM	36	17.43	17.49	17.52	18.5	0		
15	16QAM	36	39	17.55	17.49	17.43	18.5	0	
15	16QAM	75	0	17.42	17.58	17.41	18.5	0	
15	64QAM	1	0	17.57	17.49	17.55	18.5	0	
15	64QAM	1	37	17.48	17.54	17.43	18.5	0	
15	64QAM	1	74	17.44	17.43	17.41	18.5	0	
15	64QAM	36	0	17.43	17.47	17.47	18.5	0	
15	64QAM	36	17.43	17.44	17.48	18.5	0		
15	64QAM	36	39	17.59	17.59	17.43	18.5	0	
15	64QAM	75	0	17.43	17.58	17.48	18.5	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.44	17.41	17.52	18.5	0	
10	QPSK	1	25	17.56	17.53	17.56	18.5	0	
10	QPSK	1	49	17.57	17.40	17.49	18.5	0	
10	QPSK	1	74	17.43	17.43	17.49	18.5	0	
10	QPSK	25	12	17.59	17.43	17.54	18.5	0	
10	QPSK	25	28	17.46	17.42	17.52	18.5	0	
10	QPSK	50	0	17.57	17.40	17.49	18.5	0	
10	16QAM	1	0	17.54	17.44	17.41	18.5	0	
10	16QAM	1	25	17.44	17.44	17.50	18.5	0	
10	16QAM	1	49	17.47	17.42	17.40	18.5	0	
10	16QAM	1	74	17.43	17.41	17.53	18.5	0	
10	16QAM	25	12	17.43	17.42	17.51	18.5	0	
10	16QAM	25	28	17.45	17.42	17.54	18.5	0	
10	16QAM	50	0	17.54	17.44	17.42	18.5	0	
10	16QAM	50	24	17.58	17.49	17.54	18.5	0	
10	64QAM	1	0	17.46	17.57	17.58	18.5	0	
10	64QAM	1	25	17.40	17.45	17.50	18.5	0	
10	64QAM	1	49	17.57	17.44	17.53	18.5	0	
10	64QAM	1	74	17.43	17.42	17.41	18.5	0	
10	64QAM	25	12	17.40	17.45	17.40	18.5	0	
10	64QAM	25	28	17.43	17.42	17.43	18.5	0	
10	64QAM	50	0	17.40	17.41	17.43	18.5	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.58	17.56	17.40	18.5	0	
5	QPSK	1	12	17.59	17.57	17.42	18.5	0	
5	QPSK	1	24	17.42	17.43	17.53	18.5	0	
5	QPSK	12	0	17.46	17.43	17.41	18.5	0	
5	QPSK	12	7	17.40	17.41	17.52	18.5	0	
5	QPSK	12	13	17.44	17.44	17.55	18.5	0	
5	QPSK	12	19	17.47	17.41	17.42	18.5	0	
5	16QAM	1	0	17.42	17.43	17.46	18.5	0	
5	16QAM	1	12	17.55	17.40	17.54	18.5	0	
5	16QAM	1	24	17.44	17.43	17.53	18.5	0	
5	16QAM	12	0	17.56	17.48	17.40	18.5	0	
5	16QAM	12	7	17.43	17.42	17.58	18.5	0	
5	16QAM	12	13	17.46	17.40	17.52	18.5	0	
5	16QAM	12	19	17.56	17.40	17.40	18.5	0	
5	64QAM	1	0	17.41	17.45	17.52	18.5	0	
5	64QAM	1	12	17.41	17.55	17.41	18.5	0	
5	64QAM	1	24	17.58	17.43	17.41	18.5	0	
5	64QAM	12	0	17.40	17.48	17.49	18.5	0	
5	64QAM	12	7	17.43	17.41	17.52	18.5	0	
5	64QAM	12	13	17.43	17.45	17.42	18.5	0	
5	64QAM	12	19	17.43	17.41	17.40	18.5	0	
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.43	17.40	17.55	18.5	0	
3	QPSK	1	8	17.57	17.54	17.42	18.5	0	
3	QPSK	1	14	17.42	17.43	17.53	18.5	0	
3	QPSK	8	0	17.47	17.57	17.53	18.5	0	
3	QPSK	8	4	17.40	17.41	17.52	18.5	0	
3	QPSK	8	10	17.44	17.49	17.52	18.5	0	
3	QPSK	15	0	17.58	17.43	17.59	18.5	0	
3	16QAM	1	0	17.53	17.41	17.43	18.5	0	
3	16QAM	1	8	17.48	17.43	17.56	18.5	0	
3	16QAM	1	14	17.49	17.53	17.52	18.5	0	
3	16QAM	8	0	17.53	17.43	17.53	18.5	0	
3	16QAM	8	4	17.40	17.46	17.40	18.5	0	
3	16QAM	8	10	17.59	17.57	17.53	18.5	0	
3	16QAM	15	0	17.54	17.57	17.58	18.5	0	
3	64QAM	1	0	17.48	17.49	17.56	18.5	0	
3	64QAM	1	8	17.46	17.45	17.55	18.5	0	
3	64QAM	1	14	17.42	17.42	17.48	18.5	0	
3	64QAM	8	0	17.44	17.46	17.54	18.5	0	
3	64QAM	8	4	17.43	17.48	17.40	18.5	0	
3	64QAM	8	7	17.41	17.43	17.41	18.5	0	
3	64QAM	15	0	17.40	17.53	17.40	18.5	0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	17.45	17.46	17.50	18.5	0	
1.4	QPSK	1	3	17.42	17.56	17.43	18.5	0	
1.4	QPSK	1	5	17.56	17.41	17.47	18.5	0	
1.4	QPSK	3	0	17.47	17.40	17.57	18.5	0	
1.4	QPSK	3	1	17.44	17.47	17.52	18.5	0	
1.4	QPSK	3	17.44	17.42	17.56	18.5	0		
1.4	QPSK	6	0	17.46	17.43	17.52	18.5	0	
1.4	16QAM	1	0	17.57	17.41	17.41	18.5	0	
1.4	16QAM	1	3	17.45	17.49	17.56	18.5	0	
1.4	16QAM	1	5	17.43	17.42	17.54	18.5	0	
1.4	16QAM	3	0	17.55	17.49	17.53	18.5	0	
1.4	16QAM	3	1	17.46	17.43	17.53	18.5	0	
1.4	16QAM	3	17.42	17.49	17.40	18.5	0		
1.4	64QAM	1	0	17.48	17.44	17.57	18.5	0	
1.4	64QAM	1	3	17.46	17.47	17.57	18.5	0	
1.4	64QAM	1	5	17.41	17.43	17.49	18.5	0	
1.4	64QAM	3	0	17.49	17.48	17.47	18.5	0	
1.4	64QAM	3	1	17.46	17.41	17.56	18.5	0	
1.4	64QAM	3	17.42	17.40	17.54	18.5	0		
1.4	64QAM	6	0	17.55	17.55	17.47	18.5	0	

Band 2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Turn-up limit (dBm)	MPR (dB	



Band 4_Ant 11										
BW (MHz)	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	17.03	20.05	19.95				
20	QPSK	1	49	19.98	20.06	19.91				
20	QPSK	1	99	19.98	19.95	19.92				
20	QPSK	50	0	19.97	20.04	19.95				
20	QPSK	15	25	19.98	19.95	19.92				
20	QPSK	50	50	19.94	19.95	19.90				
20	QPSK	100	0	20.01	20.02	19.94				
20	16QAM	1	0	19.95	20.05	19.90				
20	16QAM	1	49	19.98	20.06	19.91				
20	16QAM	1	99	20.02	20.07	19.95				
20	16QAM	50	0	19.99	20.06	19.93				
20	16QAM	50	24	19.96	19.96	19.96				
20	16QAM	50	50	20.00	20.05	19.95				
20	16QAM	100	0	19.96	20.03	19.94				
20	64QAM	1	0	19.92	19.97	19.97				
20	64QAM	1	49	19.95	20.07	19.92				
20	64QAM	1	99	19.94	20.06	19.95				
20	64QAM	50	0	19.96	20.00	19.92				
20	64QAM	50	24	20.00	20.02	19.98				
20	64QAM	50	50	19.93	19.99	19.98				
20	64QAM	100	0	19.96	19.95	19.91				
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.73	20.75	20.75				
15	QPSK	1	37	19.96	19.99	19.90				
15	QPSK	1	74	19.92	20.08	19.92				
15	QPSK	36	0	19.96	19.96	19.96				
15	QPSK	36	18	19.98	20.01	19.96				
15	QPSK	36	36	19.88	20.02	19.88				
15	QPSK	75	0	19.98	20.08	19.94				
15	16QAM	1	0	19.95	20.05	19.90				
15	16QAM	1	37	19.91	20.02	19.97				
15	16QAM	1	74	20.00	20.03	19.90				
15	16QAM	36	0	19.98	20.02	19.92				
15	16QAM	36	18	19.98	20.05	19.99				
15	16QAM	36	36	20.00	20.00	19.95				
15	16QAM	75	0	19.96	20.01	19.92				
15	64QAM	1	0	19.96	19.96	19.96				
15	64QAM	1	37	19.90	20.06	19.88				
15	64QAM	1	74	20.00	19.96	19.94				
15	64QAM	36	0	19.92	19.99	19.86				
15	64QAM	36	18	19.94	19.98	19.96				
15	64QAM	36	36	19.92	20.01	19.95				
15	64QAM	75	0	19.93	20.03	19.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.91	20.05	19.97				
10	QPSK	1	25	19.92	19.99	19.90				
10	QPSK	1	49	19.95	20.01	19.84				
10	QPSK	25	0	19.90	20.02	19.90				
10	QPSK	25	12	19.95	20.06	19.91				
10	QPSK	25	25	19.95	20.00	19.92				
10	16QAM	1	0	19.91	20.01	19.92				
10	16QAM	1	25	19.96	20.06	19.96				
10	16QAM	1	49	19.95	19.99	19.84				
10	16QAM	25	0	19.96	20.02	19.86				
10	16QAM	25	12	20.00	19.98	19.97				
10	16QAM	25	25	19.96	19.99	19.91				
10	16QAM	50	0	19.98	20.06	19.87				
10	16QAM	50	12	19.95	20.05	19.89				
10	64QAM	1	0	19.91	19.95	19.84				
10	64QAM	1	49	19.96	19.99	19.92				
10	64QAM	25	0	19.96	20.02	19.86				
10	64QAM	25	12	19.90	20.02	19.95				
10	64QAM	25	25	19.92	19.99	19.92				
10	64QAM	50	0	19.91	19.97	19.86				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.95	20.00	19.94				
5	QPSK	1	12	19.91	20.01	19.93				
5	QPSK	1	25	19.92	19.99	19.90				
5	QPSK	12	0	19.99	20.05	19.94				
5	QPSK	12	7	19.98	19.98	19.94				
5	QPSK	12	13	19.95	20.02	19.97				
5	16QAM	1	0	19.88	20.04	19.87				
5	16QAM	1	12	19.88	20.06	19.96				
5	16QAM	1	25	19.95	19.99	19.91				
5	16QAM	12	0	19.92	19.99	19.91				
5	16QAM	12	7	20.01	19.99	19.95				
5	16QAM	12	13	19.97	19.97	19.84				
5	16QAM	25	0	19.98	20.02	19.86				
5	64QAM	1	0	20.00	19.99	19.92				
5	64QAM	1	12	20.00	20.06	19.94				
5	64QAM	1	24	19.96	20.06	19.90				
5	64QAM	12	0	19.92	20.07	19.94				
5	64QAM	12	7	20.01	20.03	19.88				
5	64QAM	12	13	19.92	19.98	19.92				
5	64QAM	25	0	20.01	20.07	19.86				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.90	19.97	19.90				
3	QPSK	1	6	19.96	20.04	19.94				
3	QPSK	3	0	20.01	19.95	19.87				
3	QPSK	3	6	19.97	19.96	19.93				
3	QPSK	8	4	19.98	20.04	19.94				
3	16QAM	1	0	19.92	19.96	19.95				
3	16QAM	1	6	19.96	20.07	19.97				
3	16QAM	1	12	19.92	19.96	19.93				
3	16QAM	3	0	19.95	19.99	19.93				
3	16QAM	3	6	19.98	19.98	19.97				
3	16QAM	8	4	19.98	19.98	19.97				
3	16QAM	15	0	19.95	19.97	19.94				
3	64QAM	1	0	19.90	20.00	19.93				
3	64QAM	1	6	19.92	20.07	19.93				
3	64QAM	3	0	19.95	19.95	19.84				
3	64QAM	3	6	19.97	19.99	19.86				
3	64QAM	8	4	19.89	20.06	19.93				
3	64QAM	15	0	19.93	19.97	19.92				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	17.107	17.525	17.543				
1.4	QPSK	1	3	19.96	20.04	19.90				
1.4	QPSK	1	5	19.89	20.08	19.93				
1.4	QPSK	3	0	20.01	20.00	19.88				
1.4	QPSK	3	1	19.97	20.05	19.96				
1.4	QPSK	3	20.01	19.96	19.86					
1.4	QPSK	6	0	19.88	20.01	19.84				
1.4	16QAM	1	0	19.86	19.98	19.95				
1.4	16QAM	1	3	20.01	20.03	19.95				
1.4	16QAM	1	5	19.93	20.02	19.91				
1.4	16QAM	3	0	19.94	19.97	19.90				
1.4	16QAM	3	1	19.97	20.06	19.96				
1.4	16QAM	3	19.93	19.95	19.91					
1.4	64QAM	1	0	19.88	20.05	19.87				
1.4	64QAM	1	3	19.95	20.02	19.93				
1.4	64QAM	1	5	19.99	19.95	19.90				
1.4	64QAM	3	0	19.89	19.99	19.94				
1.4	64QAM	3	1	20.01	20.08	19.87				
1.4	64QAM	3	19.92	20.06	19.96					
1.4	64QAM	6	0	19.93	19.99	19.84				

Band 5_Ant 13										
BW (MHz)	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)										
10	QPSK	1	0	22.03	22.04	22.03				
10	QPSK	1	25	22.03	22.04	22.03				
10	QPSK	1	49	22.20	22.17	22.18				
10	QPSK	25	0	22.20	22.21	22.19				
10	QPSK	25	12	22.19	22.11	22.18				
10	QPSK	25	25	22.19	22.16	22.17				
10	QPSK	50	0	22.16	22.17	22.10				



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	22.05	21.08	22.07			24	0
20	QPSK	1	99	22.82	22.85	22.86				
20	QPSK	50	0	22.05	22.14	22.13			23	1
20	QPSK	50	99	21.99	22.09	22.12				
20	QPSK	100	0	22.06	22.06	22.02			23	1
20	16QAM	1	0	22.04	22.40	22.35				
20	16QAM	1	99	22.05	22.18	22.77			23	1
20	16QAM	50	0	20.76	20.90	20.99				
20	16QAM	50	24	20.91	20.99	21.10			22	2
20	16QAM	100	0	21.00	21.04	21.06				
20	16QAM	1	0	20.87	21.09	20.84			22	2
20	16QAM	1	99	21.40	21.26	21.32				
20	16QAM	50	0	20.23	19.97	20.06				
20	16QAM	50	24	20.91	20.99	21.10			21	3
20	16QAM	50	99	19.89	20.02	20.12				
20	16QAM	100	0	20.62	19.88	20.08				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	22.63	22.04	22.82			24	0
15	QPSK	1	37	22.79	22.82	22.84				
15	QPSK	1	74	22.69	22.74	22.82				
15	QPSK	36	0	21.98	22.06	22.06			23	1
15	QPSK	36	99	21.96	22.00	21.96				
15	QPSK	75	0	21.89	21.91	21.89			23	1
15	QPSK	1	37	22.62	22.19	22.68				
15	16QAM	1	74	22.01	22.06	22.70			22	2
15	16QAM	36	0	20.86	20.89	20.91				
15	16QAM	36	99	20.80	20.99	21.05			22	2
15	16QAM	75	0	20.86	20.95	21.05				
15	16QAM	1	37	21.36	21.18	21.18			22	2
15	16QAM	1	74	21.36	21.21	21.18				
15	16QAM	36	0	19.93	19.91	20.01			21	3
15	16QAM	36	99	19.87	19.93	19.97				
15	16QAM	36	99	19.81	19.93	19.97				
15	16QAM	75	0	19.92	19.73	19.96				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	22.90	22.97	22.95			24	0
10	QPSK	1	25	22.78	22.92	22.83				
10	QPSK	1	49	22.71	22.69	22.81				
10	16QAM	36	0	22.02	22.02	22.43			23	1
10	16QAM	25	12	21.76	21.87	21.96				
10	16QAM	25	25	21.98	22.01	22.07				
10	16QAM	50	0	21.87	21.90	21.91			23	1
10	16QAM	25	0	22.02	22.02	22.43				
10	16QAM	1	25	22.24	22.29	22.61			23	1
10	16QAM	1	49	22.03	22.11	22.76				
10	16QAM	25	0	20.74	20.80	20.84			22	2
10	16QAM	25	12	20.83	20.90	21.05				
10	16QAM	25	25	20.86	20.97	21.08			22	2
10	16QAM	50	0	20.92	20.91	20.90				
10	16QAM	1	0	20.71	20.96	20.80			22	2
10	16QAM	1	25	21.31	21.32	20.86				
10	16QAM	1	49	21.35	21.11	21.16			21	3
10	16QAM	25	0	19.90	19.81	19.90				
10	16QAM	25	12	19.85	19.86	19.92			21	3
10	16QAM	25	25	19.88	19.98	20.03				
10	16QAM	50	0	19.94	19.90	20.04				
Channel										
Frequency (MHz)				20925	21100	21425				
5	QPSK	1	0	22.92	23.01	22.96			24	0
5	QPSK	1	12	22.80	22.96	22.86				
5	QPSK	1	24	22.78	22.72	22.79				
5	QPSK	12	0	21.95	22.12	22.09			23	1
5	QPSK	12	7	21.77	21.90	22.07				
5	QPSK	25	0	21.87	21.94	21.99			23	1
5	16QAM	1	0	22.00	22.36	22.39			23	1
5	16QAM	1	12	22.24	22.17	22.59				
5	16QAM	1	24	22.01	22.07	22.63				
5	16QAM	12	0	20.85	20.78	20.94			24	1
5	16QAM	12	7	20.83	20.89	21.09			22	2
5	16QAM	12	13	20.82	20.95	20.99				
5	16QAM	25	0	20.83	20.98	20.90			23	2
5	16QAM	1	0	20.73	21.05	20.73				
5	16QAM	1	12	21.27	21.25	20.78			22	2
5	16QAM	1	24	21.24	21.15	21.27				
5	16QAM	12	0	19.88	19.94	20.05			21	3
5	16QAM	12	13	19.76	19.94	19.88				
5	16QAM	25	0	19.95	19.77	19.98				

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	19.53	19.65	19.65			21	0
20	QPSK	1	99	19.47	19.47	19.63				
20	QPSK	50	0	19.50	19.58	19.57			21	0
20	QPSK	50	24	19.47	19.51	19.64				
20	QPSK	50	99	19.43	19.51	19.52			21	0
20	QPSK	100	0	19.45	19.48	19.47				
20	16QAM	1	0	19.47	19.52	19.49			21	0
20	16QAM	1	99	19.44	19.54	19.55				
20	16QAM	1	99	19.45	19.55	19.50				
20	16QAM	50	0	19.48	19.56	19.51			21	0
20	16QAM	50	24	19.49	19.56	19.48				
20	16QAM	50	99	19.47	19.48	19.47			21	0
20	16QAM	100	0	19.47	19.55	19.54				
20	16QAM	1	0	19.40	19.48	19.52			21	0
20	16QAM	1	99	19.40	19.48	19.54				
20	16QAM	1	99	19.41	19.51	19.47				
20	16QAM	50	0	19.43	19.48	19.49				
20	16QAM	50	24	19.49	19.56	19.48			20	1
20	16QAM	50	99	19.40	19.49	19.52				
20	16QAM	100	0	19.42	19.49	19.47				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	19.11	19.54	19.60			21	0
15	QPSK	1	37	19.53	19.52	19.60				
15	QPSK	1	74	19.59	19.54	19.54				
15	QPSK	36	0	19.49	19.49	19.51			21	0
15	QPSK	36	99	19.44	19.47	19.49				
15	QPSK	36	99	19.49	19.47	19.42				
15	QPSK	75	0	19.40	19.44	19.39			21	0
15	QPSK	1	37	22.62	22.19	22.68				
15	16QAM	1	74	19.47	19.46	19.50			21	0
15	16QAM	1	74	19.47	19.54	19.47				
15	16QAM	36	0	19.53	19.53	19.51			21	0
15	16QAM	36	99	19.54	19.49	19.48				
15	16QAM	36	99	19.44	19.40	19.43			21	0
15	16QAM	75	0	19.52	19.54	19.50				
15	16QAM	1	37	19.38	19.40	19.41			21	0
15	16QAM	1	74	19.45	19.45	19.44				
15	16QAM	36	0	19.42	19.40	19.46			20	1
15	16QAM	36	99	19.47	19.49	19.54				
15	16QAM	36	99	19.39	19.42	19.41				
15	16QAM	75	0	19.48	19.40	19.45			21	0
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	19.58	19.64	19.59			21	0
10	QPSK	1	25	19.52	19.58	19.55				
10	QPSK	1	49	19.60	19.56	19.52				
10	16QAM	36	0	19.54	19.49	19.52			21	0
10	16QAM	25	12	19.47	19.48	19.46				
10	16QAM	25	25	19.43	19.42	19.44			21	0
10	16QAM	50	0	19.46	19.47	19.47				



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11			24	1	
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32			24	1	
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11			23	2	
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13			23	2	
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.98					
10	64QAM	25	25	21.12			22	3	
10	64QAM	50	0	21.06					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.98	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.86	21.89	21.85			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.98	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17			24	1	
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32			24	1	
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17			23	2	
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52			23	2	
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09			22	3	
10	64QAM	50	0	21.00					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.85	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.83			
5	16QAM	12	7	22.00	22.05	21.83			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.84	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.16	24.21	24.20			
10	QPSK	1	25	24.15	24.07	24.15			
10	QPSK	1	49	24.02	24.15	24.11			
10	QPSK	25	0	23.23	23.30	23.20			
10	QPSK	25	12	23.24	23.18	23.18			
10	QPSK	25	25	23.20	23.20	23.18			
10	QPSK	50	0	23.28	23.29	23.26			
10	16QAM	1	0	23.50	23.58	23.32			
10	16QAM	1	25	23.30	23.18	23.33			
10	16QAM	1	49	23.32	23.34	23.36			
10	16QAM	25	0	22.17	22.08	22.17			
10	16QAM	25	12	22.31	22.23	22.22			
10	16QAM	25	25	22.35	22.38	22.32			
10	16QAM	50	0	22.21	22.12	22.23			
10	64QAM	1	0	22.30	22.67	22.24			
10	64QAM	1	25	22.62	22.79	22.12			
10	64QAM	1	49	22.52	22.61	22.49			
10	64QAM	25	0	21.25	21.23	21.15			
10	64QAM	25	12	21.39	21.28	21.30			
10	64QAM	25	25	21.28	21.17	21.21			
10	64QAM	50	0	21.30	21.11	21.07			
Channel									
23755									
Frequency (MHz)									
5	QPSK	1	0	24.03	24.15	24.11			
5	QPSK	1	12	24.04	23.98	24.14			
5	QPSK	1	24	23.93	24.14	24.07			
5	QPSK	12	0	23.16	23.16	23.07			
5	QPSK	12	7	23.21	23.12	23.17			
5	QPSK	12	13	23.19	23.13	23.09			
5	QPSK	25	0	23.18	23.18	23.23			
5	16QAM	1	0	23.41	23.48	23.17			
5	16QAM	1	12	23.17	23.04	23.27			
5	16QAM	1	24	23.47	23.18	23.48			
5	16QAM	12	0	22.14	21.95	22.13			
5	16QAM	12	7	22.16	22.20	22.18			
5	16QAM	12	13	22.29	22.28	22.28			
5	16QAM	25	0	22.13	22.06	22.11			
5	64QAM	1	0	22.28	22.53	22.12			
5	64QAM	1	12	22.54	22.77	21.97			
5	64QAM	1	24	22.36	22.50	22.36			
5	64QAM	12	0	21.12	21.16	21.02			
5	64QAM	12	7	21.32	21.19	21.02			
5	64QAM	12	13	21.14	21.10	21.17			
5	64QAM	25	0	21.15	21.03	20.95			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.20	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.36	23.50			
10	16QAM	1	0	23.53					



Band 26_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	MRR (dB)	
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.85	22.11	22.50	23	0		
15	QPSK	1	37	21.85	21.97	21.98				
15	QPSK	1	74	21.84	21.72	21.94				
15	QPSK	36	0	21.85	22.01	21.93				
15	QPSK	36	20	21.86	21.76	21.91				
15	QPSK	36	39	21.90	21.80	21.92				
15	QPSK	75	0	21.86	21.98	21.85				
15	16QAM	1	0	21.84	21.81	21.87				
15	16QAM	1	37	21.82	21.87	21.88				
15	16QAM	1	74	21.82	21.87	21.89				
15	16QAM	36	0	21.80	21.83	21.93				
15	16QAM	36	20	22.02	21.88	21.83				
15	16QAM	36	39	21.98	21.83	21.97				
15	16QAM	75	0	21.81	21.87	21.90				
15	16QAM	1	0	21.80	21.88	21.95				
15	16QAM	1	37	21.82	21.87	21.88				
15	16QAM	1	74	21.81	21.85	22.01				
15	16QAM	36	0	20.89	20.94	20.88				
15	16QAM	36	20	21.47	20.92	20.88				
15	16QAM	36	39	21.00	20.97	20.95				
15	16QAM	75	0	21.06	20.81	20.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.92	21.97	21.98				
10	QPSK	1	25	21.90	21.74	21.84				
10	QPSK	1	49	22.01	21.82	21.91				
10	QPSK	25	0	21.91	21.77	21.86				
10	QPSK	25	12	21.84	21.84	21.90				
10	QPSK	25	25	21.90	21.88	21.94				
10	QPSK	50	0	21.86	21.84	21.86				
10	16QAM	1	0	21.88	21.75	21.83				
10	16QAM	1	25	21.89	21.80	21.87				
10	16QAM	1	49	21.92	21.83	21.97				
10	16QAM	25	0	21.96	21.84	21.90				
10	16QAM	25	12	22.02	21.83	21.92				
10	16QAM	25	25	21.92	21.89	21.97				
10	16QAM	50	0	21.85	21.84	21.95				
10	16QAM	1	0	21.88	21.89	21.88				
10	16QAM	1	25	21.84	21.83	21.89				
10	16QAM	1	49	21.86	21.79	21.95				
10	16QAM	25	0	20.87	20.96	20.85				
10	16QAM	25	12	20.84	20.77	20.79				
10	16QAM	25	25	20.83	20.81	20.87				
10	16QAM	50	0	20.89	20.75	20.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.10	21.91	22.01				
5	QPSK	1	12	22.02	21.74	21.83				
5	QPSK	1	24	21.83	21.76	21.83				
5	QPSK	12	0	21.96	21.82	21.96				
5	QPSK	12	7	21.84	21.77	21.97				
5	QPSK	12	13	21.92	21.91	21.83				
5	16QAM	1	0	21.84	21.77	21.86				
5	16QAM	1	12	21.87	21.76	21.97				
5	16QAM	1	24	21.88	21.92	21.92				
5	16QAM	12	0	21.88	21.82	21.91				
5	16QAM	12	7	22.02	21.84	21.89				
5	16QAM	12	13	21.97	21.82	22.05				
5	16QAM	25	0	21.84	21.89	21.97				
5	16QAM	25	12	21.88	21.78	21.93				
5	16QAM	25	25	21.89	21.88	21.84				
5	16QAM	50	0	21.87	21.89	21.97				
5	16QAM	1	0	21.89	21.82	21.91				
5	16QAM	1	12	21.88	21.84	21.84				
5	16QAM	1	24	21.87	21.89	21.97				
5	16QAM	12	0	21.84	21.82	21.86				
5	16QAM	12	7	20.92	20.74	20.72				
5	16QAM	12	13	21.08	20.74	20.90				
5	16QAM	25	0	20.95	20.93	20.95				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.08	21.83	22.09				
3	QPSK	1	8	21.85	21.79	21.91				
3	QPSK	1	14	21.98	21.70	21.87				
3	QPSK	8	0	21.90	21.76	21.87				
3	QPSK	8	4	22.04	21.84	21.92				
3	QPSK	8	7	21.83	21.88	21.86				
3	16QAM	1	0	21.87	21.80	21.99				
3	16QAM	1	8	21.84	21.84	21.88				
3	16QAM	1	14	21.84	21.86	21.94				
3	16QAM	8	0	21.86	21.85	21.85				
3	16QAM	8	4	21.96	21.90	21.80				
3	16QAM	8	7	21.86	21.77	21.98				
3	16QAM	15	0	21.86	21.90	21.93				
3	16QAM	1	0	21.99	21.86	21.97				
3	16QAM	1	8	21.96	21.90	21.92				
3	16QAM	1	14	21.88	21.89	21.91				
3	16QAM	8	0	20.73	20.84	20.86				
3	16QAM	8	4	20.93	20.88	20.79				
3	16QAM	8	7	20.97	20.81	20.81				
3	16QAM	15	0	21.03	20.78	20.71				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.24	21.91	22.04				
1.4	QPSK	1	3	21.92	21.92	21.92				
1.4	QPSK	1	5	21.97	21.94	21.99				
1.4	QPSK	3	0	21.93	21.74	21.93				
1.4	QPSK	3	1	22.04	21.88	21.90				
1.4	QPSK	3	3	21.93	21.90	21.87				
1.4	QPSK	6	0	21.98	21.79	21.85				
1.4	16QAM	1	0	21.91	21.80	21.99				
1.4	16QAM	1	3	21.90	21.83	21.93				
1.4	16QAM	3	0	21.80	21.86	21.88				
1.4	16QAM	3	1	22.03	21.83	21.80				
1.4	16QAM	3	3	22.00	21.86	21.92				
1.4	16QAM	6	0	21.93	21.87	21.89				
1.4	16QAM	1	0	21.92	21.90	21.88				
1.4	16QAM	1	3	21.91	21.86	21.83				
1.4	16QAM	1	5	21.91	21.85	21.91				
1.4	16QAM	3	0	21.91	21.85	21.99				
1.4	16QAM	3	1	21.84	21.92	21.97				
1.4	16QAM	3	3	21.86	21.86	21.96				
1.4	16QAM	6	0	20.93	20.76	20.80				

Band 26_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)	MRR (dB)	
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.76	22.91	21.90	25	0		
15	QPSK	1	37	22.21	23.00	23.04				
15	QPSK	1	74	23.75	22.71	23.89				
15	QPSK	36	0	22.50	22.91	22.83				
15	QPSK	36	20	22.87	22.78	22.79				
15	QPSK	36	39	22.89	22.82	22.73				
15	QPSK	75	0	22.83	22.90	22.81				
15	16QAM	1	0	22.79	23.34	23.36				
15	16QAM	1	37	23.21	23.00	23.04				
15	16QAM	1	74	22.89	23.45	23.02				
15	16QAM	36	0	21.88	21.88	21.89				
15	16QAM	36	20	22.00	21.82	21.79				
15	16QAM	36	39	22.14	21.89	21.82				
15	16QAM	75	0	21.80	21.78	21.87				
15	16QAM	1	0	21.83	21.81	22.15				
15	16QAM	1	37	21.90	22.04	21.81				
15	16QAM	1	74	22.04	21.77	21.99				
15	16QAM	36	0	20.93	20.88	20.88				
15	16QAM	36	20	20.87	20.80	21.48				
15	16QAM	36	39	20.84	20.82	20.82				
15	16QAM	75	0	20.82	20.75	20.87				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.11	22.78	22.78				



Band 66_Ant 11

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.41	20.43	20.40	21.5	0
20	QPSK	1	46	20.43	20.42	20.32		
20	QPSK	1	99	20.41	20.41	20.40		
20	QPSK	50	0	20.38	20.38	20.34		
20	QPSK	50	24	20.36	20.48	20.42		
20	QPSK	50	50	20.39	20.48	20.32		
20	QPSK	100	0	20.42	20.56	20.27		
20	16QAM	1	0	20.35	20.35	20.33		
20	16QAM	1	46	20.33	20.43	20.30		
20	16QAM	1	99	20.33	20.42	20.40		
20	16QAM	50	0	20.39	20.37	20.39		
20	16QAM	50	24	20.45	20.41	20.39		
20	16QAM	50	50	20.39	20.38	20.24		
20	64QAM	100	0	20.30	20.41	20.25		
20	64QAM	1	0	20.35	20.36	20.39		
20	64QAM	1	46	20.30	20.41	20.38		
20	64QAM	1	99	20.02	20.39	20.44		
20	64QAM	50	0	20.46	20.43	20.46		
20	64QAM	50	24	20.47	20.46	20.42		
20	64QAM	50	50	20.46	20.47	20.36		
20	64QAM	100	0	20.41	20.41	20.35		
Channel								
Frequency (MHz)								
15	QPSK	1	0	20.42	20.38	20.33	21.5	0
15	QPSK	1	37	20.32	20.42	20.31		
15	QPSK	1	74	20.44	20.47	20.32		
15	QPSK	36	0	20.48	20.48	20.32		
15	QPSK	36	20	20.30	20.42	20.32		
15	QPSK	36	39	20.34	20.38	20.25		
15	QPSK	75	0	20.38	20.45	20.18		
15	16QAM	1	0	20.39	20.47	20.37		
15	16QAM	1	37	20.40	20.44	20.28		
15	16QAM	1	74	20.44	20.48	20.39		
15	16QAM	36	0	20.35	20.35	20.27		
15	16QAM	36	20	20.33	20.42	20.33		
15	16QAM	36	39	20.28	20.25	20.17		
15	16QAM	75	0	20.47	20.26	20.22		
15	64QAM	1	0	20.33	20.45	20.35		
15	64QAM	1	37	20.24	20.48	20.37		
15	64QAM	1	74	19.91	20.48	20.41		
15	64QAM	36	0	20.43	20.37	20.42		
15	64QAM	36	20	20.44	20.34	20.38		
15	64QAM	36	39	20.36	20.43	20.28		
15	64QAM	75	0	20.37	20.28	20.25		
Channel								
Frequency (MHz)								
10	QPSK	1	0	20.33	20.43	20.34	21.5	0
10	QPSK	1	25	20.43	20.38	20.40		
10	QPSK	1	49	20.40	20.48	20.31		
10	QPSK	25	0	20.36	20.45	20.28		
10	QPSK	25	12	20.34	20.44	20.39		
10	QPSK	25	25	20.25	20.32	20.23		
10	QPSK	50	0	20.40	20.42	20.16		
10	16QAM	1	0	20.42	20.42	20.39		
10	16QAM	1	25	20.49	20.47	20.37		
10	16QAM	1	49	20.43	20.38	20.31		
10	16QAM	25	0	20.38	20.28	20.28		
10	16QAM	25	12	20.40	20.40	20.30		
10	16QAM	25	25	20.32	20.31	20.14		
10	16QAM	50	0	20.43	20.35	20.13		
10	64QAM	1	0	20.31	20.42	20.32		
10	64QAM	1	25	20.22	20.43	20.39		
10	64QAM	1	49	19.95	20.34	20.41		
10	64QAM	25	0	20.40	20.37	20.43		
10	64QAM	25	12	20.45	20.40	20.37		
10	64QAM	25	25	20.34	20.33	20.24		
10	64QAM	50	0	20.34	20.30	20.24		
Channel								
Frequency (MHz)								
5	QPSK	1	0	20.35	20.41	20.34	21.5	0
5	QPSK	1	12	20.34	20.43	20.32		
5	QPSK	1	24	20.43	20.41	20.27		
5	QPSK	12	0	20.40	20.40	20.37		
5	QPSK	12	7	20.31	20.38	20.40		
5	QPSK	12	13	20.36	20.32	20.16		
5	QPSK	25	0	20.35	20.45	20.16		
5	16QAM	1	0	20.35	20.46	20.31		
5	16QAM	1	12	20.39	20.39	20.29		
5	16QAM	1	24	20.42	20.46	20.37		
5	16QAM	12	0	20.37	20.32	20.25		
5	16QAM	12	7	20.35	20.38	20.24		
5	16QAM	12	13	20.25	20.32	20.23		
5	16QAM	25	0	20.42	20.45	20.15		
5	64QAM	1	0	20.39	20.40	20.46		
5	64QAM	1	12	20.25	20.40	20.33		
5	64QAM	1	24	19.99	20.36	20.44		
5	64QAM	12	0	20.44	20.27	20.37		
5	64QAM	12	7	20.42	20.28	20.40		
5	64QAM	12	13	20.40	20.36	20.29		
5	64QAM	25	0	20.40	20.35	20.28		
Channel								
Frequency (MHz)								
3	QPSK	1	0	20.43	20.47	20.40	21.5	0
3	QPSK	1	8	20.42	20.49	20.40		
3	QPSK	1	14	20.36	20.43	20.30		
3	QPSK	8	0	20.47	20.46	20.41		
3	QPSK	8	4	20.21	20.46	20.28		
3	QPSK	8	7	20.28	20.38	20.30		
3	QPSK	15	0	20.35	20.48	20.32		
3	16QAM	1	0	20.31	20.48	20.29		
3	16QAM	1	8	20.44	20.49	20.34		
3	16QAM	1	14	20.43	20.45	20.32		
3	16QAM	8	0	20.32	20.29	20.31		
3	16QAM	8	4	20.38	20.41	20.25		
3	16QAM	8	7	20.24	20.25	20.12		
3	16QAM	15	0	20.45	20.27	20.12		
3	64QAM	1	0	20.33	20.47	20.48		
3	64QAM	1	8	20.20	20.40	20.36		
3	64QAM	1	14	19.91	20.35	20.69		
3	64QAM	8	0	20.43	20.39	20.37		
3	64QAM	8	4	20.33	20.34	20.35		
3	64QAM	8	7	20.34	20.37	20.37		
3	64QAM	15	0	20.35	20.25	20.22		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	20.38	20.38	20.39	21.5	0
1.4	QPSK	1	3	20.37	20.38	20.30		
1.4	QPSK	1	5	20.31	20.41	20.37		
1.4	QPSK	3	0	20.41	20.49	20.27		
1.4	QPSK	3	1	20.36	20.44	20.36		
1.4	QPSK	3	3	20.35	20.36	20.39		
1.4	QPSK	6	0	20.24	20.22	20.25		
1.4	16QAM	1	0	20.26	20.28	20.26		
1.4	16QAM	1	3	20.17	20.22	20.17		
1.4	16QAM	1	5	20.21	20.14	20.13		
1.4	16QAM	3	0	20.31	20.43	20.36		
1.4	16QAM	3	1	20.44	20.38	20.36		
1.4	16QAM	3	3	20.39	20.38	20.31		
1.4	16QAM	6	0	20.19	20.32	20.33		
1.4	64QAM	1	0	20.29	20.33	20.18		
1.4	64QAM	1	3	20.11	20.23	20.21		
1.4	64QAM	1	5	20.24	20.29	20.20		
1.4	64QAM	3	0	20.28	20.48	20.48		
1.4	64QAM	3	1	20.34	20.45	20.45		
1.4	64QAM	3	3	20.24	20.32	20.28		
1.4	64QAM	6	0	20.18	20.27	20.27		



Band 38_Ant 13										
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										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	18.21	18.22	18.20				
20	QPSK	1	49	18.20	18.20	18.14	17.5	0		
20	QPSK	1	99	18.16	18.09	18.15				
20	QPSK	50	0	18.18	18.20	18.19				
20	QPSK	50	24	18.14	18.11	18.12	17.5	0		
20	QPSK	50	50	18.13	18.14	18.15				
20	QPSK	100	0	18.14	18.15	18.15				
20	16QAM	1	0	18.04	18.02	18.05				
20	16QAM	1	49	18.00	18.04	18.09	17.5	0		
20	16QAM	1	99	18.09	18.07	18.08				
20	16QAM	50	0	18.06	18.02	18.02	17.5	0		
20	16QAM	50	50	18.02	18.01	18.02				
20	16QAM	100	0	18.05	18.08	18.02				
20	64QAM	1	0	18.00	18.05	18.00				
20	64QAM	1	49	18.00	18.03	18.06	17.5	0		
20	64QAM	1	99	18.07	18.08	18.01				
20	64QAM	50	0	18.02	18.05	18.05				
20	64QAM	50	24	18.02	18.02	18.02	17.5	0		
20	64QAM	50	50	18.00	18.02	18.00				
20	64QAM	100	0	18.01	18.01	18.00				
Channel										
Frequency (MHz)				37825	38000	38175	Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	18.08	18.08	18.09				
15	QPSK	1	37	18.07	18.01	18.04	17.5	0		
15	QPSK	1	74	18.08	18.00	18.05				
15	QPSK	36	0	18.08	18.00	18.05				
15	QPSK	36	20	18.03	18.09	18.08	17.5	0		
15	QPSK	36	39	18.01	18.03	18.01				
15	QPSK	75	0	18.02	18.02	18.07				
15	16QAM	1	0	18.08	18.09	18.07				
15	16QAM	1	37	18.08	18.09	18.02	17.5	0		
15	16QAM	1	74	18.04	18.03	18.03				
15	16QAM	36	0	18.02	18.01	18.02	17.5	0		
15	16QAM	36	20	18.01	18.03	18.01				
15	16QAM	36	39	18.09	18.06	18.09				
15	16QAM	75	0	18.09	18.00	18.09				
15	64QAM	1	0	18.02	18.08	18.01				
15	64QAM	1	37	18.09	18.03	18.02	17.5	0		
15	64QAM	1	74	18.09	18.00	18.05				
15	64QAM	36	0	18.04	18.03	18.00				
15	64QAM	36	20	18.00	18.07	18.09	17.5	0		
15	64QAM	36	39	18.02	18.00	18.05				
15	64QAM	75	0	18.01	18.02	18.01				
Channel										
Frequency (MHz)				37800	38000	38200	Time-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	18.05	18.07	18.07				
10	QPSK	1	25	18.07	18.05	18.06	17.5	0		
10	QPSK	1	49	18.01	18.07	18.03				
10	QPSK	25	0	18.09	18.08	18.07				
10	QPSK	25	12	18.09	18.05	18.04	17.5	0		
10	QPSK	25	25	18.01	18.00	18.00				
10	QPSK	50	0	18.05	18.02	18.03				
10	16QAM	1	0	18.06	18.09	18.09				
10	16QAM	1	25	18.02	18.05	18.02	17.5	0		
10	16QAM	1	49	18.05	18.00	18.01				
10	16QAM	25	0	18.02	18.04	18.00				
10	16QAM	25	12	18.00	18.01	18.08	17.5	0		
10	16QAM	25	25	18.04	18.04	18.01				
10	16QAM	50	0	18.00	18.00	18.07				
10	64QAM	1	0	18.07	18.02	18.04				
10	64QAM	1	25	18.02	18.06	18.08	17.5	0		
10	64QAM	1	49	18.00	18.09	18.02				
10	64QAM	25	0	18.06	18.07	18.01				
10	64QAM	25	12	18.00	18.04	18.09	17.5	0		
10	64QAM	25	25	18.00	18.02	18.03				
10	64QAM	50	0	18.03	18.03	18.02				
Channel										
Frequency (MHz)				37775	38000	38225	Time-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	18.09	18.06	18.08				
5	QPSK	1	12	18.09	18.00	18.01	17.5	0		
5	QPSK	1	24	18.08	18.04	18.03				
5	QPSK	12	0	18.00	18.09	18.00				
5	QPSK	12	7	18.04	18.00	18.00	17.5	0		
5	QPSK	12	13	18.09	18.08	18.00				
5	QPSK	25	0	18.00	18.01	18.01				
5	16QAM	1	0	18.03	18.03	18.09	17.5	0		
5	16QAM	1	12	18.09	18.04	18.03				
5	16QAM	1	24	18.06	18.06	18.00				
5	16QAM	12	0	18.04	18.02	18.00				
5	16QAM	12	7	18.02	18.02	18.08	17.5	0		
5	16QAM	12	13	18.06	18.09	18.09				
5	64QAM	1	0	18.07	18.01	18.00				
5	64QAM	1	12	18.07	18.02	18.04	17.5	0		
5	64QAM	1	24	18.08	18.02	18.02				
5	64QAM	12	0	18.00	18.03	18.01				
5	64QAM	12	7	18.00	18.00	18.03	17.5	0		
5	64QAM	12	13	18.04	18.05	18.01				
5	64QAM	25	0	18.08	18.09	18.01				

Band 38_Ant 31										
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										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	23.42	23.45	23.38				
20	QPSK	1	49	23.43	23.46	23.57	24.5	0		
20	QPSK	1	99	23.44	23.56	23.52				
20	QPSK	50	0	22.70	22.79	22.73				
20	QPSK	50	24	22.66	22.82	22.82	23.5	1		
20	QPSK	50	50	22.54	22.82	22.88				
20	QPSK	100	0	22.71	22.77	22.82				
20	16QAM	1	0	22.71	22.42	22.43				
20	16QAM	1	49	22.86	22.81	22.81	23.5	1		
20	16QAM	1	99	22.54	23.03	22.84				
20	16QAM	50	0	21.57	21.48	21.43				
20	16QAM	50	24	21.80	21.81	21.70	22.5	2		
20	16QAM	50	50	21.72	21.74	21.73				
20	16QAM	100	0	21.65	21.62	21.82				
20	64QAM	1	0	21.82	22.01	21.13				
20	64QAM	1	49	21.52	21.87	21.85	22.5	2		
20	64QAM	1	99	21.68	21.72	21.52				
20	64QAM	50	0	20.57	20.52	20.55				
20	64QAM	50	24	20.67	20.58	20.89	21.5	3		
20	64QAM	50	50	20.78	20.84	20.71				
20	64QAM	100	0	20.76	20.80	20.49				
Channel										
Frequency (MHz)				37825	38000	38175	Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	23.37	23.50	23.56				
15	QPSK	1	37	23.30	23.31	23.56	24.5	0		
15	QPSK	1	74	23.30	23.47	23.43				
15	QPSK	36	0	22.54	22.66	22.83				
15	QPSK	36	20	22.52	22.51	22.61	23.5	1		
15	QPSK	36	39	22.49	22.54	22.52				
15	QPSK	75	0	22.60	22.83	22.48				
15	16QAM	1	0	22.57	22.30	22.31				
15	16QAM	1	37	22.83	22.71	22.83	23.5	1		
15	16QAM	1	74	22.47	22.87	22.83				
15	16QAM	36	0	21.47	21.45	21.35				
15	16QAM	36	20	21.68	21.54	21.85	22.5	2		
15	16QAM	36	39	21.63	21.73	21.85				
15	16QAM	75	0	21.58	21.58	21.81				
15	64QAM	1	0	21.67	21.93	21.09				
15	64QAM	1	37	21.38	21.75	21.59	22.5	2		
15	64QAM	1	74	21.68	21.87	21.42				
15	64QAM	36	0	20.						



Band 41_Ant 13

BW (MHz)	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)				39750	40185	40620	41055	41490
				2501	2545.5	2593	2638.5	2685
20	QPSK	1	0	16.27	16.24	16.28	16.15	16.19
20	QPSK	1	49	16.26	16.15	16.26	16.11	16.17
20	QPSK	1	99	16.25	16.20	16.25	16.15	16.12
20	QPSK	50	0	16.17	16.15	16.23	16.09	16.12
20	QPSK	50	24	16.09	16.13	16.17	16.06	16.02
20	QPSK	50	49	16.09	16.05	16.16	16.04	16.08
20	QPSK	100	0	16.09	16.10	16.20	16.00	16.06
20	16QAM	1	0	16.12	16.05	16.13	16.08	16.04
20	16QAM	1	49	16.10	16.10	16.20	16.06	16.06
20	16QAM	1	99	16.16	16.09	16.17	16.00	16.11
20	16QAM	50	0	16.09	16.12	16.22	16.03	16.02
20	16QAM	50	24	16.08	16.10	16.20	16.01	16.02
20	16QAM	50	49	16.13	16.09	16.19	16.05	16.05
20	16QAM	100	0	16.15	16.13	16.13	16.00	16.08
20	16QAM	1	0	16.12	16.08	16.13	16.03	16.05
20	16QAM	1	49	16.07	16.14	16.14	16.06	16.10
20	16QAM	1	99	16.08	16.07	16.20	16.07	16.11
20	16QAM	50	0	16.12	16.07	16.20	16.07	16.11
20	16QAM	50	24	16.11	16.13	16.22	16.05	16.02
20	16QAM	50	49	16.13	16.07	16.17	16.05	16.02
20	16QAM	100	0	16.12	16.07	16.22	16.08	16.02
Channel								
Frequency (MHz)				39725	40173	40620	41058	41515
				2503.5	2547	2593	2638.5	2685
15	QPSK	1	0	16.21	16.25	16.19	16.21	16.21
15	QPSK	1	37	16.21	16.19	16.20	16.19	16.17
15	QPSK	1	74	16.20	16.19	16.16	16.23	16.16
15	QPSK	36	0	16.16	16.21	16.14	16.21	16.18
15	QPSK	36	20	16.12	16.11	16.12	16.13	16.08
15	QPSK	36	39	16.14	16.10	16.08	16.12	16.14
15	QPSK	75	0	16.16	16.11	16.13	16.07	16.10
15	16QAM	1	0	16.12	16.09	16.04	16.07	16.12
15	16QAM	1	37	16.16	16.10	16.13	16.12	16.15
15	16QAM	1	74	16.11	16.08	16.10	16.07	16.12
15	16QAM	36	0	16.13	16.15	16.10	16.15	16.07
15	16QAM	36	20	16.08	16.12	16.19	16.14	16.15
15	16QAM	36	39	16.10	16.10	16.10	16.13	16.12
15	16QAM	75	0	16.08	16.11	16.08	16.10	16.16
15	16QAM	1	0	16.03	16.05	16.03	16.05	16.09
15	16QAM	1	37	16.12	16.09	16.04	16.13	16.10
15	16QAM	1	74	16.16	16.12	16.19	16.14	16.15
15	16QAM	36	0	16.17	16.17	16.10	16.11	16.16
15	16QAM	36	20	16.20	16.12	16.12	16.21	16.14
15	16QAM	36	39	16.10	16.13	16.13	16.13	16.16
15	16QAM	75	0	16.14	16.13	16.16	16.15	16.13
Channel								
Frequency (MHz)				39700	40160	40620	41080	41540
				2501	2547	2593	2638	2685
10	QPSK	1	0	16.24	16.25	16.23	16.25	16.25
10	QPSK	1	25	16.25	16.22	16.22	16.21	16.21
10	QPSK	1	49	16.19	16.16	16.23	16.18	16.15
10	QPSK	25	0	16.20	16.19	16.15	16.21	16.18
10	QPSK	25	12	16.07	16.15	16.15	16.09	16.09
10	QPSK	25	25	16.09	16.13	16.06	16.12	16.15
10	QPSK	50	0	16.11	16.10	16.15	16.13	16.11
10	16QAM	1	0	16.11	16.09	16.07	16.04	16.10
10	16QAM	1	25	16.11	16.13	16.15	16.12	16.11
10	16QAM	1	49	16.07	16.07	16.11	16.07	16.13
10	16QAM	25	0	16.08	16.09	16.09	16.14	16.11
10	16QAM	25	12	16.15	16.12	16.19	16.16	16.13
10	16QAM	25	25	16.17	16.12	16.12	16.14	16.16
10	16QAM	50	0	16.09	16.07	16.12	16.12	16.12
10	16QAM	1	0	16.10	16.08	16.09	16.08	16.10
10	16QAM	1	25	16.05	16.11	16.11	16.06	16.07
10	16QAM	1	49	16.19	16.21	16.19	16.19	16.19
10	16QAM	25	0	16.14	16.19	16.17	16.19	16.19
10	16QAM	25	12	16.19	16.20	16.12	16.12	16.20
10	16QAM	25	25	16.07	16.12	16.12	16.11	16.14
10	16QAM	50	0	16.16	16.17	16.17	16.12	16.12
Channel								
Frequency (MHz)				39675	40148	40620	41093	41585
				2498.5	2545.5	2593	2640.30	2687.5
5	QPSK	1	0	16.27	16.21	16.27	16.27	16.21
5	QPSK	1	12	16.20	16.16	16.20	16.22	16.19
5	QPSK	1	24	16.16	16.24	16.18	16.23	16.15
5	QPSK	12	0	16.17	16.22	16.16	16.15	16.15
5	QPSK	12	7	16.13	16.10	16.08	16.11	16.12
5	QPSK	12	13	16.12	16.15	16.06	16.10	16.15
5	QPSK	25	0	16.10	16.13	16.11	16.15	16.15
5	16QAM	1	0	16.06	16.06	16.12	16.09	16.11
5	16QAM	1	12	16.12	16.13	16.11	16.19	16.15
5	16QAM	1	24	16.12	16.12	16.10	16.16	16.10
5	16QAM	12	0	16.08	16.11	16.08	16.11	16.13
5	16QAM	12	7	16.18	16.11	16.10	16.14	16.16
5	16QAM	12	13	16.13	16.17	16.16	16.16	16.12
5	16QAM	25	0	16.11	16.03	16.08	16.04	16.08
5	16QAM	1	0	16.10	16.08	16.07	16.05	16.08
5	16QAM	1	12	16.11	16.07	16.09	16.06	16.10
5	16QAM	1	24	16.14	16.18	16.18	16.14	16.12
5	16QAM	12	0	16.16	16.14	16.19	16.16	16.18
5	16QAM	12	7	16.20	16.15	16.12	16.18	16.19
5	16QAM	12	13	16.10	16.14	16.13	16.14	16.10
5	16QAM	25	0	16.17	16.13	16.21	16.21	16.19

Band 41_Ant 31

BW (MHz)	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)				39750	40185	40620	41055	41490
				2508	2548.5	2593	2638.5	2680
20	QPSK	1	0	23.26	23.46	23.72	23.50	23.61
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56
20	QPSK	50	0	22.60	22.66	22.70	22.57	22.66
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51
20	QPSK	50	49	21.41	21.52	21.58	21.55	21.60
20	QPSK	100	0	22.47	22.61	22.69	22.45	22.52
20	16QAM	1	0	22.06	22.54	22.51	22.26	22.48
20	16QAM	1	49	22.31	22.63	22.56	22.37	22.23
20	16QAM	1	99	22.31	22.33	22.80	22.42	22.55
20	16QAM	50	0	21.41	21.52	21.58	21.54	21.62
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58
20	16QAM	50	49	21.51	21.46	21.69	21.52	21.67
20	16QAM	100	0	21.51	21.48	21.63	21.31	21.54
20	16QAM	1	0	21.27	21.57	21.35	21.88	21.35
20	16QAM	1	49	21.45	21.50	21.43	21.51	21.30
20	16QAM	1	99	21.09	21.37	21.78	21.34	21.72
20	16QAM	50	0	20.48	20.53	20.44	20.41	20.54
20	16QAM	50	24	20.50	20.60	20.58	20.49	20.55
20	16QAM	50	49	20.41	20.50	20.83	20.63	20.71
20	16QAM	100	0	20.46	20.56	20.58	20.50	20.61
Channel								
Frequency (MHz)				39725	40173	40620	41058	41515
				2503.5	2548.5	2593	2637	2682.5
15	QPSK	1	0	23.15	23.37	23.67	23.35	23.53
15	QPSK	1	37	23.15	23.24	23.48	23.33	23.41
15	QPSK	1	74	23.07	23.30	23.42	23.27	23.48
15	QPSK	36	0	22.57	22.63	22.63	22.41	22.53
15	QPSK	36	20	22.44	22.54	22.48	22.40	22.44
15	QPSK	36	39	22.51	22.56	22.55	22.39	22.63
15	QPSK	75	0	22.37	22.51	22.52	22.39	22.39
15	16QAM	1	0	22.01	22.49	22.46	22.21	22.39
15	16QAM	1	37	22.18	22.48	22.54	22.31	22.14
15	16QAM	1	74	22.17	22.21	22.66	22.41	22.43
15	16QAM	36	0	21.28	21.51	21.44	21.42	21.59
15	16QAM	36						



Reduced Power Mode for DSI3

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM850_Ant 13								
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	824.6	824.8		824.2	824.6	824.8	
GSM 1 Tx slot	28.88	28.85	28.96	29.50	19.88	19.85	19.96	20.50
GPRS/EDGE GMSK 1 Tx slot	28.85	28.83	28.95	29.50	19.85	19.83	19.95	20.50
GPRS/EDGE GMSK 2 Tx slots	25.78	25.71	25.88	27.50	19.78	19.71	19.88	21.50
GPRS/EDGE GMSK 3 Tx slots	24.02	24.05	24.16	25.50	19.76	19.79	19.90	21.24
GPRS/EDGE GMSK 4 Tx slots	22.76	22.77	22.86	24.00	19.76	19.77	19.86	21.00
EDGE BPSK 1 Tx slot	26.88	26.79	26.80	28.00	17.86	17.79	17.80	19.00
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	26.00	19.12	19.01	19.02	20.00
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74
EDGE BPSK 4 Tx slots	21.52	21.58	21.63	22.50	18.52	18.56	18.63	19.50

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM850_Ant 31								
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	824.6	824.8		824.2	824.6	824.8	
GSM 1 Tx slot	32.60	32.95	32.74	33.50	23.60	23.95	23.74	24.50
GPRS/EDGE GMSK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50
GPRS/EDGE GMSK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50
GPRS/EDGE GMSK 3 Tx slots	27.60	28.85	28.62	29.50	23.34	24.59	24.36	25.24
GPRS/EDGE GMSK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	28.00	17.89	17.83	17.80	19.00
EDGE BPSK 2 Tx slots	24.98	24.81	25.01	26.00	18.98	18.81	19.01	20.00
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74
EDGE BPSK 4 Tx slots	21.63	21.38	21.58	22.50	18.63	18.38	18.56	19.50

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
GSM1900_Ant 13								
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1890	1909.8		1850.2	1890	1909.8	
GSM 1 Tx slot	25.55	25.35	25.52	26.00	16.55	16.35	16.52	17.00
GPRS/EDGE GMSK 1 Tx slot	25.51	25.34	25.50	26.00	16.53	16.34	16.50	17.00
GPRS/EDGE GMSK 2 Tx slots	23.48	23.49	23.38	24.00	17.46	17.49	17.38	18.00
GPRS/EDGE GMSK 3 Tx slots	21.59	21.68	21.84	22.00	17.33	17.42	17.38	17.74
GPRS/EDGE GMSK 4 Tx slots	20.50	20.27	20.28	20.50	17.50	17.27	17.26	17.50
EDGE BPSK 1 Tx slot	25.12	25.39	25.01	26.00	16.12	16.39	16.01	17.00
EDGE BPSK 2 Tx slots	23.30	23.24	23.36	24.00	17.30	17.24	17.36	18.00
EDGE BPSK 3 Tx slots	21.37	21.31	21.30	22.00	17.11	17.05	17.04	17.74
EDGE BPSK 4 Tx slots	19.56	19.51	19.52	20.50	16.56	16.51	16.52	17.50

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
GSM1900_Ant 31								
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1890	1909.8		1850.2	1890	1909.8	
GSM 1 Tx slot	29.86	29.91	29.83	30.50	20.86	20.91	20.83	21.50
GPRS/EDGE GMSK 1 Tx slot	29.85	29.90	29.81	30.50	20.85	20.90	20.81	21.50
GPRS/EDGE GMSK 2 Tx slots	27.62	27.67	27.43	28.50	21.62	21.67	21.43	22.50
GPRS/EDGE GMSK 3 Tx slots	25.53	25.53	25.34	26.50	21.27	21.27	21.08	22.24
GPRS/EDGE GMSK 4 Tx slots	24.42	24.31	24.44	25.00	21.42	21.31	21.44	22.00
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	16.91	16.96	17.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00
EDGE BPSK 3 Tx slots	22.18	22.17	22.35	23.00	17.92	17.91	18.09	18.74
EDGE BPSK 4 Tx slots	20.64	20.57	20.58	21.50	17.64	17.57	17.56	18.50

Band	WCDMA T_Ant 13			Tune-up Limit (dBm)	WCDMA T_Ant 31			Tune-up Limit (dBm)	
	5922	8400	9538		5922	8400	9538		
TX Channel	5922	8400	9538	Limit	5922	8400	9538	Limit	
Rx Channel	5922	8400	9538		5922	8400	9538		
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		
3GPP Rel 99	AMR 12.2Kbps	15.91	15.95	15.89	16.50	23.93	23.94	23.87	24.50
3GPP Rel 99	RMC 12.2Kbps	15.95	15.98	15.93	16.50	23.94	23.95	23.89	24.50
3GPP Rel 6	HSDPA Subtest-1	14.85	14.78	14.78	16.00	22.98	22.95	22.91	24.00
3GPP Rel 6	HSDPA Subtest-2	14.88	14.80	14.83	16.00	23.00	22.95	22.93	24.00
3GPP Rel 6	HSDPA Subtest-3	14.36	14.24	14.23	15.50	22.49	22.42	22.45	23.50
3GPP Rel 6	HSDPA Subtest-4	14.41	14.32	14.25	15.50	22.52	22.43	22.45	23.50
3GPP Rel 6	DC-HSDPA Subtest-1	14.74	14.64	14.69	16.00	22.95	22.92	22.79	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	14.82	14.61	14.68	16.00	22.99	22.89	22.82	24.00
3GPP Rel 6	DC-HSDPA Subtest-3	14.37	14.30	14.18	15.50	22.37	22.28	22.29	23.50
3GPP Rel 6	DC-HSDPA Subtest-4	14.25	14.19	14.19	15.50	22.50	22.39	22.31	23.50
3GPP Rel 6	HSUPA Subtest-1	14.84	14.83	14.77	16.00	22.89	22.99	22.94	24.00
3GPP Rel 6	HSUPA Subtest-2	12.77	12.77	12.87	14.00	20.92	20.96	20.93	22.00
3GPP Rel 6	HSUPA Subtest-3	13.82	13.83	13.81	15.00	21.88	21.96	21.97	23.00
3GPP Rel 6	HSUPA Subtest-4	12.88	12.81	12.76	14.00	20.94	20.90	20.90	22.00
3GPP Rel 6	HSUPA Subtest-5	14.79	14.74	14.74	16.00	23.00	22.90	22.90	24.00
3GPP Rel 7	HSPA (HSPA) Subtest-1	13.78	13.75	13.71	15.00	21.89	22.05	21.88	23.00

Band	WCDMA T_Ant 13			Tune-up Limit (dBm)	WCDMA T_Ant 31			Tune-up Limit (dBm)	
	1312	1413	1513		1312	1413	1513		
TX Channel	1312	1413	1513	Limit	1312	1413	1513	Limit	
Rx Channel	1312	1413	1513		1312	1413	1513		
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2Kbps	15.43	15.48	15.42	16.00	23.89	23.95	23.87	24.50
3GPP Rel 99	RMC 12.2Kbps	15.45	15.51	15.46	16.00	23.90	23.97	23.90	24.50
3GPP Rel 6	HSDPA Subtest-1	14.51	14.41	14.34	15.50	23.02	23.10	23.02	24.00
3GPP Rel 6	HSDPA Subtest-2	14.30	14.39	14.29	15.50	22.99	23.13	23.02	24.00
3GPP Rel 6	HSDPA Subtest-3	13.73	13.91	13.88	15.00	22.52	22.62	22.57	23.50
3GPP Rel 6	HSDPA Subtest-4	13.81	13.93	13.88	15.00	22.59	22.63	22.54	23.50
3GPP Rel 6	DC-HSDPA Subtest-1	14.21	14.36	14.36	15.50	23.00	22.97	22.96	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	14.22	14.25	14.27	15.50	22.94	23.09	23.00	24.00
3GPP Rel 6	DC-HSDPA Subtest-3	13.69	13.83	13.68	15.00	22.48	22.56	22.56	23.50
3GPP Rel 6	DC-HSDPA Subtest-4	13.69	13.85	13.88	15.00	22.44	22.61	22.49	23.50
3GPP Rel 6	HSUPA Subtest-1	14.30	14.48	14.39	15.50	23.02	23.12	23.02	24.00
3GPP Rel 6	HSUPA Subtest-2	12.38	12.48	12.43	13.50	21.02	21.08	20.98	22.00
3GPP Rel 6	HSUPA Subtest-3	13.38	13.40	13.44	14.50	21.93	22.14	22.04	23.00
3GPP Rel 6	HSUPA Subtest-4	12.32	12.44	12.37	13.50	21.00	21.12	21.15	22.00
3GPP Rel 6	HSUPA Subtest-5	14.25	14.41	14.42	15.50	23.00	23.10	23.00	24.00
3GPP Rel 7	HSPA (HSPA) Subtest-1	13.38	13.40	13.34	14.50	21.96	22.15	22.08	23.00

Band	WCDMA V_Ant 13			Tune-up Limit (dBm)	WCDMA V_Ant 31			Tune-up Limit (dBm)	
	4132	4182	4233		4132	4182	4233		
TX Channel	4132	4182	4233	Limit	4132	4182	4233	Limit	
Rx Channel	4357	4407	4458		4357	4407	4458		
Frequency (MHz)	836.4	836.4	846.6		836.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	18.88	18.89	19.83	20.50	24.25	24.37	24.35	25.00
3GPP Rel 99	RMC 12.2Kbps	18.88	18.91	19.85	20.50	24.27	24.30	24.38	25.00
3GPP Rel 6	HSDPA Subtest-1	18.94	19.02	19.01	20.00	23.46	23.53	23.57	24.50
3GPP Rel 6	HSDPA Subtest-2	18.91	18.94	18.93	20.00	23.47	23.54	23.54	24.50
3GPP Rel 6	HSDPA Subtest-3	18.37	18.53	18.45	19.50	22.94	22.97	23.10	24.00
3GPP Rel 6	HSDPA Subtest-4	18.47	18.48	18.53	19.50	22.94	23.00	23.06	24.00
3GPP Rel 6	DC-HSDPA Subtest-1	18.79	18.96	18.90	20.00	23.45	23.47	23.56	24.50
3GPP Rel 6	DC-HSDPA Subtest-2	18.93	18.84	18.92	20.00	23.45	23.47	23.53	24.50
3GPP Rel 6	DC-HSDPA Subtest-3	18.40	18.37	18.34	19.50	22.83	22.89	22.96	24.00
3GPP Rel 6	DC-HSDPA Subtest-4	18.40	18.34	18.44	19.50	22.81	22.85	23.04	24.00
3GPP Rel 6	HSUPA Subtest-1	18.90	18.90	19.00	20.00	23.46	23.55	23.57	24.50
3GPP Rel 6	HSUPA								



Band 2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Time-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.51	16.58	16.48	17.5	0	
20	QPSK	1	49	16.48	16.49	16.41	17.5	0	
20	QPSK	1	99	16.50	16.53	16.43	17.5	0	
20	QPSK	50	0	16.52	16.57	16.43	17.5	0	
20	QPSK	50	24	16.44	16.42	16.41	17.5	0	
20	QPSK	50	50	16.41	16.49	16.39	17.5	0	
20	QPSK	100	0	16.47	16.56	16.36	17.5	0	
20	16QAM	1	0	16.44	16.51	16.33	17.5	0	
20	16QAM	1	49	16.48	16.49	16.41	17.5	0	
20	16QAM	1	99	16.42	16.47	16.35	17.5	0	
20	16QAM	50	0	16.43	16.48	16.41	17.5	0	
20	16QAM	50	24	16.41	16.51	16.38	17.5	0	
20	16QAM	50	50	16.48	16.54	16.40	17.5	0	
20	64QAM	1	0	16.40	16.56	16.38	17.5	0	
20	64QAM	1	49	16.43	16.54	16.39	17.5	0	
20	64QAM	1	99	16.44	16.53	16.40	17.5	0	
20	64QAM	50	0	16.48	16.52	16.40	17.5	0	
20	64QAM	50	24	16.47	16.48	16.41	17.5	0	
20	64QAM	50	50	16.43	16.51	16.33	17.5	0	
20	64QAM	100	0	16.45	16.51	16.37	17.5	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.57	16.60	16.52	17.5	0	
15	QPSK	1	37	16.47	16.49	16.54	17.5	0	
15	QPSK	1	74	16.50	16.48	16.51	17.5	0	
15	QPSK	36	0	16.36	16.50	16.47	17.5	0	
15	QPSK	36	18	16.42	16.48	16.42	17.5	0	
15	QPSK	36	39	16.41	16.39	16.44	17.5	0	
15	QPSK	75	0	16.52	16.50	16.52	17.5	0	
15	16QAM	1	0	16.50	16.48	16.42	17.5	0	
15	16QAM	1	37	16.39	16.46	16.45	17.5	0	
15	16QAM	1	74	16.39	16.40	16.37	17.5	0	
15	16QAM	36	0	16.39	16.42	16.46	17.5	0	
15	16QAM	36	18	16.42	16.41	16.49	17.5	0	
15	16QAM	36	39	16.53	16.45	16.45	17.5	0	
15	16QAM	75	0	16.53	16.48	16.51	17.5	0	
15	64QAM	1	0	16.53	16.54	16.48	17.5	0	
15	64QAM	1	37	16.48	16.53	16.52	17.5	0	
15	64QAM	1	74	16.52	16.43	16.47	17.5	0	
15	64QAM	36	0	16.51	16.42	16.46	17.5	0	
15	64QAM	36	18	16.43	16.41	16.46	17.5	0	
15	64QAM	36	39	16.42	16.49	16.47	17.5	0	
15	64QAM	75	0	16.47	16.45	16.50	17.5	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.51	16.50	16.53	17.5	0	
10	QPSK	1	25	16.47	16.51	16.52	17.5	0	
10	QPSK	1	49	16.51	16.49	16.54	17.5	0	
10	QPSK	25	12	16.47	16.50	16.43	17.5	0	
10	QPSK	25	25	16.43	16.47	16.39	17.5	0	
10	QPSK	50	0	16.47	16.46	16.46	17.5	0	
10	16QAM	1	0	16.42	16.46	16.43	17.5	0	
10	16QAM	1	25	16.42	16.46	16.43	17.5	0	
10	16QAM	1	49	16.43	16.48	16.40	17.5	0	
10	16QAM	25	12	16.50	16.50	16.43	17.5	0	
10	16QAM	25	25	16.47	16.48	16.48	17.5	0	
10	16QAM	50	0	16.52	16.53	16.46	17.5	0	
10	16QAM	50	24	16.53	16.51	16.46	17.5	0	
10	64QAM	1	0	16.53	16.45	16.48	17.5	0	
10	64QAM	1	25	16.49	16.44	16.52	17.5	0	
10	64QAM	1	49	16.47	16.44	16.52	17.5	0	
10	64QAM	25	12	16.47	16.41	16.41	17.5	0	
10	64QAM	25	25	16.41	16.43	16.49	17.5	0	
10	64QAM	50	0	16.46	16.42	16.49	17.5	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.49	16.51	16.49	17.5	0	
5	QPSK	1	12	16.49	16.56	16.48	17.5	0	
5	QPSK	1	24	16.44	16.47	16.45	17.5	0	
5	QPSK	12	0	16.50	16.56	16.52	17.5	0	
5	QPSK	12	7	16.49	16.48	16.41	17.5	0	
5	QPSK	12	13	16.39	16.41	16.41	17.5	0	
5	16QAM	1	0	16.43	16.45	16.48	17.5	0	
5	16QAM	1	12	16.48	16.40	16.42	17.5	0	
5	16QAM	1	24	16.38	16.42	16.46	17.5	0	
5	16QAM	12	0	16.44	16.38	16.39	17.5	0	
5	16QAM	12	7	16.49	16.42	16.48	17.5	0	
5	16QAM	12	13	16.45	16.44	16.53	17.5	0	
5	16QAM	25	0	16.44	16.41	16.46	17.5	0	
5	16QAM	25	12	16.52	16.52	16.54	17.5	0	
5	64QAM	1	0	16.48	16.52	16.53	17.5	0	
5	64QAM	1	12	16.48	16.54	16.48	17.5	0	
5	64QAM	1	24	16.49	16.44	16.42	17.5	0	
5	64QAM	12	0	16.42	16.45	16.48	17.5	0	
5	64QAM	12	7	16.38	16.42	16.39	17.5	0	
5	64QAM	12	13	16.49	16.50	16.43	17.5	0	
5	64QAM	25	0	16.48	16.48	16.43	17.5	0	
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.49	16.50	16.53	17.5	0	
3	QPSK	1	8	16.36	16.48	16.59	17.5	0	
3	QPSK	1	14	16.44	16.47	16.47	17.5	0	
3	QPSK	8	0	16.51	16.53	16.49	17.5	0	
3	QPSK	8	4	16.50	16.47	16.44	17.5	0	
3	QPSK	8	14	16.44	16.52	16.50	17.5	0	
3	QPSK	15	0	16.50	16.47	16.46	17.5	0	
3	16QAM	1	0	16.44	16.45	16.46	17.5	0	
3	16QAM	1	8	16.43	16.45	16.48	17.5	0	
3	16QAM	1	14	16.39	16.46	16.45	17.5	0	
3	16QAM	8	0	16.38	16.43	16.38	17.5	0	
3	16QAM	8	4	16.42	16.47	16.43	17.5	0	
3	16QAM	8	14	16.52	16.45	16.49	17.5	0	
3	16QAM	15	0	16.53	16.50	16.45	17.5	0	
3	64QAM	1	0	16.53	16.52	16.50	17.5	0	
3	64QAM	1	8	16.50	16.44	16.46	17.5	0	
3	64QAM	1	14	16.44	16.49	16.46	17.5	0	
3	64QAM	8	0	16.48	16.47	16.46	17.5	0	
3	64QAM	8	4	16.40	16.44	16.43	17.5	0	
3	64QAM	8	14	16.49	16.44	16.42	17.5	0	
3	64QAM	15	0	16.48	16.42	16.43	17.5	0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	16.49	16.48	16.50	17.5	0	
1.4	QPSK	1	3	16.48	16.52	16.48	17.5	0	
1.4	QPSK	1	5	16.52	16.52	16.49	17.5	0	
1.4	QPSK	3	0	16.52	16.49	16.48	17.5	0	
1.4	QPSK	3	1	16.46	16.43	16.41	17.5	0	
1.4	QPSK	3	14	16.39	16.43	16.48	17.5	0	
1.4	QPSK	6	0	16.50	16.52	16.51	17.5	0	
1.4	16QAM	1	0	16.49	16.48	16.48	17.5	0	
1.4	16QAM	1	3	16.40	16.52	16.43	17.5	0	
1.4	16QAM	1	5	16.44	16.47	16.46	17.5	0	
1.4	16QAM	3	0	16.43	16.45	16.42	17.5	0	
1.4	16QAM	3	1	16.43	16.47	16.50	17.5	0	
1.4	16QAM	3	14	16.45	16.47	16.50	17.5	0	
1.4	64QAM	1	0	16.52	16.53	16.53	17.5	0	
1.4	64QAM	1	3	16.44	16.52	16.53	17.5	0	
1.4	64QAM	1	5	16.52	16.47	16.51	17.5	0	
1.4	64QAM	3	0	16.40	16.40	16.40	17.5	0	
1.4	64QAM	3	1	16.48	16.45	16.46	17.5	0	
1.4	64QAM	3	14	16.47	16.45	16.50	17.5	0	

Band 2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Power Pwr Ch / Freq	Time-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.75	22.75	22.69	24.5	0	
20	QPSK	1	49	22.69	22.68	22.61	24.5	0	
20	QPSK	1	99	22.50	23.37	23.28	24.5	0	
20	QPSK								



Band 4_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.02	17.25	17.45				
20	QPSK	1	0	18.02	18.25	18.45				
20	QPSK	1	0	18.02	18.25	18.45				
20	QPSK	1	99	18.58	18.89	19.00				
20	QPSK	50	0	18.02	18.70	18.67				
20	QPSK	15	24	18.02	18.71	18.67				
20	QPSK	50	50	18.54	18.81	18.62				
20	QPSK	100	0	18.54	18.69	18.65				
20	16QAM	1	0	18.50	18.54	18.55				
20	16QAM	1	99	18.47	18.54	18.55				
20	16QAM	1	99	18.45	18.59	18.60				
20	16QAM	50	0	18.46	18.64	18.60				
20	16QAM	50	24	18.41	18.66	18.58				
20	16QAM	50	50	18.46	18.60	18.63				
20	16QAM	100	0	18.45	18.59	18.60				
20	16QAM	1	0	18.49	18.64	18.60				
20	16QAM	1	99	18.47	18.64	18.65				
20	16QAM	59	0	18.44	18.60	18.59				
20	16QAM	59	24	18.48	18.66	18.60				
20	16QAM	50	50	18.53	18.66	18.62				
20	16QAM	100	0	18.44	18.61	18.58				
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.73	17.23	17.47				
15	QPSK	1	0	18.07	18.02	18.70				
15	QPSK	1	74	18.67	18.67	18.68				
15	QPSK	36	0	18.62	18.61	18.66				
15	QPSK	36	50	18.64	18.63	18.66				
15	QPSK	36	99	18.56	18.60	18.53				
15	QPSK	75	0	18.64	18.59	18.63				
15	16QAM	1	0	18.59	18.59	18.59				
15	16QAM	1	37	18.61	18.59	18.62				
15	16QAM	1	74	18.52	18.56	18.58				
15	16QAM	36	0	18.55	18.63	18.54				
15	16QAM	36	50	18.61	18.64	18.66				
15	16QAM	36	99	18.52	18.58	18.52				
15	16QAM	75	0	18.53	18.56	18.54				
15	16QAM	1	0	18.56	18.61	18.54				
15	16QAM	1	37	18.58	18.57	18.58				
15	16QAM	1	74	18.51	18.65	18.59				
15	16QAM	36	0	18.57	18.59	18.50				
15	16QAM	36	50	18.64	18.62	18.54				
15	16QAM	36	99	18.54	18.57	18.53				
15	16QAM	75	0	18.55	18.53	18.53				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.71	18.63	18.64				
10	QPSK	1	25	18.64	18.62	18.68				
10	QPSK	1	49	18.65	18.64	18.63				
10	QPSK	25	0	18.64	18.62	18.66				
10	QPSK	25	12	18.58	18.59	18.58				
10	QPSK	25	25	18.54	18.53	18.51				
10	QPSK	50	0	18.54	18.53	18.51				
10	16QAM	1	0	18.54	18.57	18.60				
10	16QAM	1	25	18.61	18.55	18.59				
10	16QAM	1	49	18.53	18.58	18.49				
10	16QAM	1	0	18.56	18.61	18.54				
10	16QAM	25	12	18.60	18.56	18.64				
10	16QAM	25	25	18.56	18.56	18.59				
10	16QAM	50	0	18.49	18.53	18.52				
10	16QAM	50	24	18.54	18.57	18.56				
10	16QAM	1	25	18.54	18.63	18.59				
10	16QAM	1	49	18.61	18.60	18.66				
10	16QAM	25	0	18.56	18.63	18.56				
10	16QAM	25	12	18.58	18.60	18.58				
10	16QAM	25	25	18.56	18.56	18.56				
10	16QAM	50	0	18.52	18.57	18.50				
10	16QAM	50	24	18.57	18.63	18.57				
10	16QAM	1	25	18.54	18.63	18.59				
10	16QAM	1	49	18.61	18.60	18.66				
10	16QAM	25	0	18.56	18.63	18.56				
10	16QAM	25	12	18.58	18.60	18.58				
10	16QAM	25	25	18.56	18.57	18.51				
10	16QAM	50	0	18.50	18.53	18.56				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.84	18.68	18.65				
3	QPSK	1	0	18.84	18.69	18.69				
3	QPSK	8	0	18.62	18.63	18.66				
3	QPSK	8	4	18.63	18.59	18.65				
3	QPSK	15	0	18.58	18.57	18.64				
3	16QAM	1	0	18.50	18.63	18.60				
3	16QAM	1	14	18.50	18.56	18.62				
3	16QAM	8	0	18.63	18.59	18.62				
3	16QAM	8	4	18.56	18.57	18.65				
3	16QAM	15	0	18.52	18.57	18.54				
3	16QAM	1	0	18.63	18.59	18.62				
3	16QAM	8	0	18.56	18.57	18.65				
3	16QAM	8	4	18.56	18.57	18.65				
3	16QAM	15	0	18.55	18.54	18.53				
3	16QAM	15	0	18.58	18.57	18.51				
3	16QAM	1	0	18.62	18.63	18.58				
3	16QAM	1	8	18.56	18.60	18.61				
3	16QAM	25	14	18.61	18.56	18.59				
3	16QAM	8	0	18.59	18.58	18.57				
3	16QAM	8	4	18.63	18.65	18.61				
3	16QAM	8	0	18.60	18.63	18.59				
3	16QAM	15	0	18.59	18.57	18.57				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.66	18.65	18.66				
1.4	QPSK	1	3	18.66	18.64	18.60				
1.4	QPSK	1	5	18.61	18.63	18.60				
1.4	QPSK	3	0	18.63	18.63	18.61				
1.4	QPSK	3	1	18.54	18.60	18.54				
1.4	QPSK	6	0	18.61	18.62	18.64				
1.4	16QAM	1	0	18.54	18.59	18.54				
1.4	16QAM	1	3	18.57	18.58	18.57				
1.4	16QAM	1	5	18.53	18.50	18.57				
1.4	16QAM	3	0	18.59	18.59	18.54				
1.4	16QAM	3	1	18.51	18.65	18.65				
1.4	16QAM	3	1	18.51	18.50	18.50				
1.4	16QAM	6	0	18.52	18.50	18.52				
1.4	16QAM	1	0	18.61	18.57	18.57				
1.4	16QAM	1	3	18.55	18.61	18.60				
1.4	16QAM	1	5	18.67	18.62	18.63				
1.4	16QAM	3	0	18.52	18.58	18.52				
1.4	16QAM	3	1	18.57	18.63	18.63				
1.4	16QAM	3	1	18.57	18.63	18.63				
1.4	16QAM	6	0	18.60	18.52	18.63				

Band 5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.97	18.93	18.95				
10	QPSK	1	25	18.97	18.94	18.91				
10	QPSK	1	49	18.95	18.92	18.90				
10	QPSK	25	0	18.98	18.99	18.95				
10	QPSK	25	12	18.93	18.91	18.79				
10	QPSK	25	25	18.92	18.91	18.87				
10	QPSK	50	0	18.78	18.89	18.88				
10	16QAM	1	0	18.84	18.96	18.81				
10	16QAM	1	25	18.79	18.92	18.82				
10	16QAM	1	49	18.79	18.95	18.82				
10	16QAM	25	0	18.84	18.98	18.79				
10	16QAM	25	12	18.84	18.96	18.82				
10	16QAM	25	25	18.80	18.98	18.85				
10	16QAM	50	0	18.85	18.94	18.88				
10	16QAM	1	0	18.82	18.95	18.82				
10										



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.05	22.08	22.07	24	0		
20	QPSK	1	99	22.82	22.85	22.86	23	1		
20	QPSK	50	0	22.05	22.14	22.13	23	1		
20	QPSK	50	99	21.99	22.09	22.12	23	1		
20	QPSK	100	0	22.06	22.06	22.02	23	1		
20	16QAM	1	0	22.04	22.40	22.35	23	1		
20	16QAM	1	99	22.25	22.18	22.77	23	1		
20	16QAM	50	0	20.76	20.90	20.99	22	2		
20	16QAM	50	99	20.91	20.99	21.10	22	2		
20	16QAM	100	0	21.00	21.04	21.06	22	2		
20	16QAM	100	99	20.87	21.09	20.84	22	2		
20	64QAM	1	0	21.37	21.33	20.91	21	3		
20	64QAM	1	99	21.40	21.26	21.32	21	3		
20	64QAM	50	0	20.23	19.97	20.06	21	3		
20	64QAM	50	99	20.91	20.99	21.10	21	3		
20	64QAM	100	0	19.89	19.92	20.12	21	3		
20	64QAM	100	99	20.62	19.88	20.08	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.63	22.64	22.62	24	0		
15	QPSK	1	99	22.79	22.82	22.84	24	0		
15	QPSK	74	0	22.69	22.74	22.82	23	1		
15	QPSK	74	99	22.96	22.96	22.06	23	1		
15	QPSK	36	0	21.86	21.82	22.04	23	1		
15	QPSK	36	99	21.96	22.00	21.96	23	1		
15	QPSK	75	0	21.89	21.91	21.89	23	1		
15	QPSK	75	99	22.04	22.04	22.04	23	1		
15	16QAM	1	0	22.22	22.19	22.68	23	1		
15	16QAM	1	99	22.01	22.06	22.70	23	1		
15	16QAM	36	0	20.66	20.69	20.91	22	2		
15	16QAM	36	99	20.81	20.92	20.99	22	2		
15	16QAM	75	0	20.86	20.99	21.05	22	2		
15	16QAM	75	99	21.06	21.06	21.06	22	2		
15	64QAM	1	0	21.35	21.18	20.87	22	2		
15	64QAM	1	99	21.36	21.21	21.18	22	2		
15	64QAM	36	0	19.93	19.91	20.01	21	3		
15	64QAM	36	99	19.97	19.93	20.07	21	3		
15	64QAM	75	0	19.92	19.73	19.96	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.90	22.97	22.95	24	0		
10	QPSK	1	99	22.78	22.92	22.81	24	0		
10	QPSK	25	0	21.76	21.87	21.96	23	1		
10	QPSK	25	99	21.98	22.01	22.07	23	1		
10	16QAM	1	0	22.87	23.06	23.06	23	1		
10	16QAM	1	99	22.92	22.93	22.43	23	1		
10	16QAM	25	0	22.24	22.29	22.61	23	1		
10	16QAM	25	99	22.03	22.11	22.76	23	1		
10	16QAM	50	0	20.74	20.80	20.84	22	2		
10	16QAM	50	99	20.83	20.90	21.06	22	2		
10	64QAM	1	0	21.31	21.32	20.86	22	2		
10	64QAM	1	99	21.35	21.11	21.16	22	2		
10	64QAM	25	0	19.90	19.81	19.90	21	3		
10	64QAM	25	99	19.85	19.86	19.92	21	3		
10	64QAM	50	0	19.88	19.98	20.03	21	3		
10	64QAM	50	99	19.94	19.99	20.04	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.92	23.01	22.96	24	0		
5	QPSK	1	12	22.80	22.96	22.86	24	0		
5	QPSK	1	24	22.78	22.72	22.79	24	0		
5	QPSK	12	0	21.95	22.12	22.09	23	1		
5	QPSK	12	7	21.87	21.90	22.07	23	1		
5	QPSK	25	0	21.87	21.94	21.99	23	1		
5	16QAM	1	0	22.00	22.36	22.39	23	1		
5	16QAM	1	12	22.24	22.17	22.59	23	1		
5	16QAM	1	24	22.01	22.07	22.63	23	1		
5	16QAM	12	0	20.85	20.78	20.94	22	2		
5	16QAM	12	7	20.83	20.89	21.09	22	2		
5	16QAM	12	13	20.92	20.95	20.99	22	2		
5	16QAM	25	0	20.83	20.98	20.90	22	2		
5	64QAM	1	0	20.73	21.05	20.73	22	2		
5	64QAM	1	12	21.27	21.25	20.78	22	2		
5	64QAM	1	24	21.24	21.15	21.27	22	2		
5	64QAM	12	0	19.88	19.94	20.05	21	3		
5	64QAM	12	7	19.88	19.92	19.97	21	3		
5	64QAM	12	13	19.76	19.94	19.88	21	3		
5	64QAM	25	0	19.95	19.77	19.98	21	3		

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.05	18.15	18.15	19.5	0		
20	QPSK	1	99	18.05	18.15	18.15	19.5	0		
20	QPSK	50	0	17.96	18.11	18.03	19.5	0		
20	QPSK	50	99	18.00	18.08	18.07	19.5	0		
20	16QAM	1	0	17.97	18.01	18.04	19.5	0		
20	16QAM	1	99	17.93	18.01	18.02	19.5	0		
20	16QAM	50	0	17.95	17.97	17.97	19.5	0		
20	16QAM	50	99	17.97	18.02	17.99	19.5	0		
20	16QAM	100	0	17.94	18.04	18.05	19.5	0		
20	16QAM	100	99	17.95	18.05	18.00	19.5	0		
20	16QAM	50	0	17.98	18.06	18.01	19.5	0		
20	16QAM	50	99	17.96	18.06	18.04	19.5	0		
20	16QAM	100	0	17.97	18.05	18.04	19.5	0		
20	16QAM	100	99	17.90	17.98	18.02	19.5	0		
20	64QAM	1	0	17.90	17.98	18.04	19.5	0		
20	64QAM	1	99	17.91	18.01	17.97	19.5	0		
20	64QAM	50	0	17.93	17.98	17.99	19.5	0		
20	64QAM	50	99	17.99	18.06	17.98	19.5	0		
20	64QAM	100	0	17.94	17.99	18.02	19.5	0		
20	64QAM	100	99	17.92	17.99	17.97	19.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.11	18.14	18.10	19.5	0		
15	QPSK	1	99	18.03	18.02	18.10	19.5	0		
15	QPSK	74	0	18.09	18.04	18.04	19.5	0		
15	QPSK	74	99	18.09	18.07	18.01	19.5	0		
15	QPSK	36	0	17.99	17.99	18.01	19.5	0		
15	QPSK	36	99	17.94	17.95	17.99	19.5	0		
15	QPSK	36	36	17.99	17.97	17.92	19.5	0		
15	QPSK	75	0	17.90	17.94	17.89	19.5	0		
15	QPSK	75	99	17.99	17.96	18.00	19.5	0		
15	16QAM	1	0	17.97	17.96	18.00	19.5	0		
15	16QAM	1	99	17.97	18.04	17.97	19.5	0		
15	16QAM	36	0	18.03	18.03	18.01	19.5	0		
15	16QAM	36	99	18.04	18.06	18.08	19.5	0		
15	16QAM	75	0	17.94	17.90	17.93	19.5	0		
15	16QAM	75	99	18.02	18.04	18.00	19.5	0		
15	16QAM	36	0	17.99	17.99	18.01	19.5	0		
15	16QAM	36	99	17.96	17.99	17.98	19.5	0		
15	64QAM	1	0	17.98	17.90	17.91	19.5	0		
15	64QAM	1	99	17.95	17.95	17.94	19.5	0		
15	64QAM	36	0	17.92	17.90	17.96	19.5	0		
15	64QAM	36	99	17.97	17.92	17.91	19.5	0		
15	64QAM	75	0	17.98	17.90	17.95	19.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.08	18.14	18.09	19.5	0		
10	QPSK	1	25	18.02	18.08	18.05	19.5	0		
10	QPSK	1	49	18.10	18.06	18.02	19.5	0		
10	QPSK	25	0	17.94	17.98	17.96	19.5	0		
10	QPSK	25	25	17.93	17.92	17.94	19.5	0		
10	QPSK	50	0	17.96	17.97	17.97	19.5	0		
10	QPSK	50	99	17.94	17.96	17.95	19.5	0		
10	16QAM	1	0	17.96						



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11					
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11					
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13					
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.96					
10	64QAM	25	25	21.12					
10	64QAM	50	0	21.06					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.96	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.86	21.89	21.85			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.98	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17					
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17					
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52					
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09					
10	64QAM	50	0	21.00					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.85	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.83			
5	16QAM	12	7	22.00	22.05	21.83			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.84	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	23.45	23.51	23.41			
10	QPSK	1	25	23.41	23.49	23.37			
10	QPSK	1	49	23.38	23.47	23.39			
10	QPSK	25	0	22.94	22.98	22.85			
10	QPSK	25	12	22.91	22.80	22.80			
10	QPSK	25	25	22.89	22.97	22.78			
10	QPSK	50	0	22.87	22.90	22.85			
10	16QAM	1	0	22.92	22.90	22.82			
10	16QAM	1	25	22.98	22.88	22.76			
10	16QAM	1	49	22.87	22.90	22.85			
10	16QAM	25	0	21.92	21.95	21.76			
10	16QAM	25	12	21.91	21.92	21.85			
10	16QAM	25	25	21.85	21.95	21.78			
10	16QAM	50	0	21.90	21.87	21.81			
10	64QAM	1	0	21.85	21.86	21.85			
10	64QAM	1	25	21.91	21.88	21.81			
10	64QAM	1	49	21.93	21.95	21.82			
10	64QAM	25	0	20.92	20.88	20.76			
10	64QAM	25	12	20.85	20.83	20.82			
10	64QAM	25	25	20.93	20.87	20.80			
10	64QAM	50	0	20.90	20.86	20.81			
Channel									
23755									
Frequency (MHz)									
5	QPSK	1	0	23.42	23.44	23.42			
5	QPSK	1	12	23.48	23.39	23.40			
5	QPSK	1	24	23.38	23.37	23.46			
5	QPSK	12	0	22.91	22.80	22.92			
5	QPSK	12	7	22.87	22.90	22.90			
5	QPSK	12	13	22.91	22.86	22.88			
5	QPSK	25	0	22.87	22.82	22.87			
5	16QAM	1	0	22.95	22.86	22.95			
5	16QAM	1	12	22.83	22.87	22.83			
5	16QAM	1	24	22.95	22.90	22.91			
5	16QAM	12	0	21.89	21.87	21.91			
5	16QAM	12	7	21.82	21.83	21.80			
5	16QAM	12	13	21.94	21.88	21.87			
5	16QAM	25	0	21.91	21.89	21.86			
5	64QAM	1	0	21.94	21.95	21.89			
5	64QAM	1	12	21.83	21.82	21.80			
5	64QAM	1	24	21.85	21.84	21.87			
5	64QAM	12	0	20.84	20.83	20.86			
5	64QAM	12	7	20.85	20.87	20.87			
5	64QAM	12	13	20.92	20.94	20.93			
5	64QAM	25	0	20.94	20.90	20.94			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.25	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.16	23.50			
10	16QAM	1	0	23.53	23.12	23.32			
10</									



Band 26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)				26765	26865	26965			
15	QPSK	1	0	18.90	18.93	18.96	20	0	
15	QPSK	1	74	18.94	18.93	18.94			
15	QPSK	36	0	18.95	18.96	18.97			
15	QPSK	36	20	18.96	18.94	18.97			
15	QPSK	36	39	18.97	18.97	18.94			
15	QPSK	75	0	18.96	18.93	18.96			
15	16QAM	1	0	18.97	18.94	18.79			
15	16QAM	1	37	18.90	18.93	18.90			
15	16QAM	1	74	18.97	18.91	18.84			
15	16QAM	36	0	18.95	18.97	18.82			
15	16QAM	36	20	18.93	18.95	18.90			
15	16QAM	36	39	18.95	18.96	18.92			
15	16QAM	75	0	18.97	18.87	18.79			
15	64QAM	1	0	18.94	18.88	18.79			
15	64QAM	1	37	18.90	18.90	18.90			
15	64QAM	1	74	18.99	18.95	18.82			
15	64QAM	36	0	18.93	18.93	18.85			
15	64QAM	36	20	18.94	18.94	18.78			
15	64QAM	36	39	18.95	18.97	18.77			
15	64QAM	75	0	18.92	18.93	18.82			
Channel									
Frequency (MHz)				26740	26865	26990			
10	QPSK	1	0	18.90	18.90	18.94			
10	QPSK	1	25	18.89	18.93	18.95			
10	QPSK	1	49	18.90	18.90	18.85			
10	QPSK	25	0	18.94	18.94	18.94			
10	QPSK	25	12	18.91	18.94	18.94			
10	QPSK	25	25	18.86	18.85	18.80			
10	QPSK	50	0	18.92	18.85	18.87			
10	16QAM	1	0	18.91	18.94	18.79			
10	16QAM	1	25	18.88	18.85	18.84			
10	16QAM	1	49	18.92	18.82	18.84			
10	16QAM	25	0	18.94	18.77	18.82			
10	16QAM	25	12	18.90	18.96	18.86			
10	16QAM	25	25	18.76	18.76	18.76			
10	16QAM	50	0	18.78	18.78	18.78			
10	64QAM	1	0	18.91	18.94	18.79			
10	64QAM	1	25	18.87	18.81	18.81			
10	64QAM	1	49	18.98	18.88	18.91			
10	64QAM	25	0	18.97	18.85	18.88			
10	64QAM	25	12	18.90	18.97	18.86			
10	64QAM	25	25	18.82	18.84	18.77			
10	64QAM	50	0	18.91	18.95	18.70			
Channel									
Frequency (MHz)				26715	26865	27015			
5	QPSK	1	0	19.01	18.96	19.02			
5	QPSK	1	12	18.90	18.95	18.93			
5	QPSK	1	24	18.91	18.85	18.90			
5	QPSK	12	0	18.90	18.96	18.88			
5	QPSK	12	7	18.89	18.89	18.88			
5	QPSK	12	13	18.85	18.84	18.79			
5	QPSK	25	0	18.93	18.96	18.87			
5	16QAM	1	0	18.93	18.96	18.87			
5	16QAM	1	12	18.90	18.91	18.89			
5	16QAM	1	24	18.85	18.81	18.84			
5	16QAM	12	0	18.91	18.93	18.85			
5	16QAM	12	7	18.91	18.93	18.85			
5	16QAM	12	13	18.85	18.83	18.80			
5	16QAM	25	0	18.94	18.78	18.83			
5	64QAM	1	0	18.94	18.81	18.81			
5	64QAM	1	12	18.83	18.81	18.82			
5	64QAM	1	24	18.93	18.86	18.87			
5	64QAM	12	0	18.90	18.92	18.85			
5	64QAM	12	7	18.88	18.87	18.85			
5	64QAM	12	13	18.81	18.81	18.80			
5	64QAM	25	0	18.90	18.90	18.86			
Channel									
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	18.96	18.93	19.01			
3	QPSK	1	8	18.91	18.98	18.95			
3	QPSK	1	14	18.91	18.96	18.87			
3	QPSK	8	0	18.93	18.90	18.90			
3	QPSK	8	4	18.90	18.83	18.84			
3	QPSK	8	7	18.83	18.94	18.77			
3	16QAM	1	0	18.91	18.85	18.86			
3	16QAM	1	8	18.84	18.83	18.85			
3	16QAM	1	14	18.86	18.81	18.88			
3	16QAM	8	0	18.93	18.78	18.85			
3	16QAM	8	4	18.91	18.91	18.83			
3	16QAM	8	7	18.83	18.78	18.81			
3	16QAM	15	0	18.78	18.78	18.95			
3	64QAM	1	0	18.83	18.81	18.78			
3	64QAM	1	8	18.87	18.81	18.80			
3	64QAM	1	14	18.86	18.85	18.88			
3	64QAM	8	0	18.92	18.81	18.87			
3	64QAM	8	4	18.91	18.79	18.84			
3	64QAM	8	7	18.84	18.79	18.84			
3	64QAM	15	0	18.85	18.83	18.87			
Channel									
Frequency (MHz)				26997	26965	27033			
1.4	QPSK	1	0	18.99	18.95	18.96			
1.4	QPSK	1	3	18.97	18.96	18.95			
1.4	QPSK	1	5	18.96	18.98	18.98			
1.4	QPSK	3	0	18.89	18.90	18.94			
1.4	QPSK	3	1	18.85	18.90	18.87			
1.4	QPSK	3	17.7	18.85	18.83				
1.4	QPSK	6	0	18.91	18.90	18.83			
1.4	16QAM	1	0	18.89	18.90	18.83			
1.4	16QAM	1	3	18.94	18.94	18.86			
1.4	16QAM	1	5	18.91	18.85	18.84			
1.4	16QAM	3	0	18.80	18.86	18.81			
1.4	16QAM	3	1	18.93	18.89	18.84			
1.4	16QAM	3	17.8	18.84	18.83				
1.4	16QAM	6	0	18.90	18.80	18.84			
1.4	64QAM	1	0	18.78	18.83	18.84			
1.4	64QAM	1	3	18.84	18.86	18.88			
1.4	64QAM	1	5	18.91	18.92	18.85			
1.4	64QAM	3	0	18.85	18.88	18.87			
1.4	64QAM	3	1	18.85	18.92	18.84			
1.4	64QAM	3	17.8	18.77	18.78				
1.4	64QAM	6	0	18.93	18.89	18.84			

Band 26_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)				26765	26865	26965			
15	QPSK	1	0	21.76	22.91	23.89	25	0	
15	QPSK	1	37	21.77	23.00	23.64			
15	QPSK	1	74	23.70	22.71	23.89			
15	QPSK	36	0	22.50	22.91	22.83			
15	QPSK	36	20	22.87	22.78	22.79			
15	QPSK	36	39	22.89	22.82	22.73			
15	QPSK	75	0	22.83	22.90	22.81			
15	16QAM	1	0	22.79	23.34	23.36			
15	16QAM	1	37	21.90	22.94	21.81			
15	16QAM	1	74	22.89	23.45	23.02			
15	16QAM	36	0	21.88	21.88	21.89			
15	16QAM	36	20	22.00	21.82	21.79			
15	16QAM	36	39	22.14	21.89	21.82			
15	16QAM	75	0	21.90	21.78	21.87			
15	64QAM	1	0	21.83	21.81	22.15			
15	64QAM	1	37	21.90	21.82	21.83			
15	64QAM	1	74	22.04	21.77	21.99			
15	64QAM	36	0	20.93	20.88	20.88			
15	64QAM	36	20	20.90	20.80	20.82			
15	64QAM	36	39	20.83	20.84	20.82			
15	64QAM	75	0	20.82	20.75	20.87			
Channel									
Frequency (MHz)				26740	26865	26990			
10	QPSK	1	0	21.81	22.78	23.78			
10	QPSK	1	25	23.70	23.65	23.62			
10	QPSK	1	49	23.71	23.63	23.76			
10	QPSK	25	0	22.74	22.76	22.69			
10	QPSK	25	12	22.78	22.66	22.63			
10	QPSK	25	25	22.87	22.80	22.71			
10	QPSK	50	0	22.71	2				



Band 66_Ant 11

BW (MHz)	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)				15207.2	15252.2	15357.2		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	18.96	19.03	18.96	20	0
20	QPSK	1	46	18.92	19.01	18.96		
20	QPSK	1	99	18.90	19.03	18.97		
20	QPSK	50	0	18.92	18.95	18.94		
20	QPSK	50	24	18.86	18.94	18.89		
20	QPSK	50	50	18.90	18.92	18.91		
20	QPSK	100	0	18.82	18.86	18.88		
20	16QAM	1	0	18.87	18.91	18.84		
20	16QAM	1	46	18.90	18.95	18.94		
20	16QAM	1	99	18.85	18.91	18.92		
20	16QAM	50	0	18.89	18.89	18.86		
20	16QAM	50	24	18.89	18.86	18.84		
20	16QAM	50	50	18.85	18.86	18.89		
20	16QAM	100	0	18.82	18.86	18.87		
20	64QAM	1	0	18.90	18.85	18.87		
20	64QAM	1	46	18.82	18.90	18.85		
20	64QAM	1	99	18.90	18.84	18.88		
20	64QAM	50	0	18.88	18.87	18.90		
20	64QAM	50	24	18.87	18.85	18.86		
20	64QAM	50	50	18.82	18.85	18.86		
20	64QAM	100	0	18.83	18.84	18.85		
Channel								
Frequency (MHz)				15204.7	15252.2	15259.7		
Frequency (MHz)				1717.2	1745	1772.2		
15	QPSK	1	0	18.98	18.96	18.93		
15	QPSK	1	37	18.93	18.91	18.92		
15	QPSK	1	74	18.95	19.00	18.96		
15	QPSK	36	0	18.87	18.86	18.92		
15	QPSK	36	20	18.91	18.89	18.84		
15	QPSK	36	39	18.88	18.91	18.90		
15	QPSK	75	0	18.79	18.82	18.84		
15	16QAM	1	0	18.89	18.85	18.91		
15	16QAM	1	37	18.88	18.87	18.93		
15	16QAM	1	74	18.86	18.84	18.82		
15	16QAM	36	0	18.80	18.85	18.86		
15	16QAM	36	20	18.79	18.73	18.79		
15	16QAM	36	39	18.77	18.78	18.84		
15	16QAM	75	0	18.83	18.82	18.79		
15	64QAM	1	0	18.83	18.78	18.76		
15	64QAM	1	37	18.82	18.81	18.80		
15	64QAM	1	74	18.90	18.90	18.88		
15	64QAM	36	0	18.82	18.77	18.76		
15	64QAM	36	20	18.91	18.85	18.84		
15	64QAM	36	39	18.83	18.78	18.83		
15	64QAM	75	0	18.85	18.83	18.81		
Channel								
Frequency (MHz)				15202.2	15252.2	15252.2		
Frequency (MHz)				1715.2	1745	1775.2		
10	QPSK	1	0	18.95	19.03	18.98		
10	QPSK	1	25	18.97	18.97	18.98		
10	QPSK	1	49	19.01	18.97	18.93		
10	QPSK	25	0	18.89	18.89	18.93		
10	QPSK	25	12	18.87	18.90	18.89		
10	QPSK	25	25	18.86	18.90	18.88		
10	QPSK	50	0	18.85	18.86	18.84		
10	16QAM	1	0	18.89	18.82	18.82		
10	16QAM	1	25	18.87	18.86	18.89		
10	16QAM	1	49	18.87	18.89	18.84		
10	16QAM	25	0	18.80	18.85	18.79		
10	16QAM	25	12	18.81	18.86	18.78		
10	16QAM	25	25	18.83	18.82	18.81		
10	16QAM	50	0	18.77	18.77	18.77		
10	64QAM	1	0	18.84	18.78	18.82		
10	64QAM	1	25	18.85	18.86	18.87		
10	64QAM	1	49	18.87	18.85	18.86		
10	64QAM	25	0	18.82	18.81	18.78		
10	64QAM	25	12	18.87	18.91	18.91		
10	64QAM	25	25	18.83	18.85	18.87		
10	64QAM	50	0	18.89	18.82	18.84		
Channel								
Frequency (MHz)				15199.7	15252.2	15257.7		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.01	18.97	19.02		
5	QPSK	1	12	18.91	19.00	18.99		
5	QPSK	1	24	18.96	18.94	18.94		
5	QPSK	12	0	18.90	18.98	18.89		
5	QPSK	12	7	18.86	18.90	18.85		
5	QPSK	12	13	18.86	18.85	18.90		
5	QPSK	25	0	18.82	18.79	18.88		
5	16QAM	1	0	18.87	18.89	18.87		
5	16QAM	1	12	18.88	18.89	18.88		
5	16QAM	1	24	18.90	18.85	18.84		
5	16QAM	12	0	18.85	18.79	18.88		
5	16QAM	12	7	18.83	18.86	18.79		
5	16QAM	12	13	18.79	18.77	18.85		
5	16QAM	25	0	18.81	18.84	18.78		
5	64QAM	1	0	18.84	18.85	18.77		
5	64QAM	1	12	18.84	18.89	18.81		
5	64QAM	1	24	18.87	18.85	18.86		
5	64QAM	12	0	18.78	18.79	18.77		
5	64QAM	12	7	18.93	18.87	18.90		
5	64QAM	12	13	18.87	18.87	18.83		
5	64QAM	25	0	18.89	18.90	18.93		
Channel								
Frequency (MHz)				15197.2	15252.2	15257.7		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.01	18.95	19.01		
3	QPSK	1	8	18.93	18.96	18.95		
3	QPSK	1	14	18.96	18.98	18.95		
3	QPSK	8	0	18.95	18.90	18.90		
3	QPSK	8	4	18.91	18.85	18.88		
3	QPSK	8	7	18.89	18.88	18.88		
3	QPSK	15	0	18.79	18.82	18.82		
3	16QAM	1	0	18.82	18.89	18.89		
3	16QAM	1	8	18.91	18.94	18.93		
3	16QAM	1	14	18.88	18.90	18.87		
3	16QAM	8	0	18.87	18.86	18.83		
3	16QAM	8	4	18.78	18.81	18.83		
3	16QAM	8	7	18.85	18.85	18.90		
3	16QAM	15	0	18.78	18.83	18.76		
3	64QAM	1	0	18.77	18.82	18.75		
3	64QAM	1	8	18.88	18.85	18.87		
3	64QAM	1	14	18.89	18.89	18.87		
3	64QAM	8	0	18.79	18.80	18.85		
3	64QAM	8	4	18.91	18.88	18.92		
3	64QAM	8	7	18.86	18.87	18.78		
3	64QAM	15	0	18.91	18.86	18.88		
Channel								
Frequency (MHz)				15197.9	15252.2	15265.5		
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.04	18.98	19.00		
1.4	QPSK	1	3	18.96	18.92	18.94		
1.4	QPSK	1	5	18.93	18.97	18.97		
1.4	QPSK	3	0	18.90	18.91	18.95		
1.4	QPSK	3	1	18.85	18.86	18.91		
1.4	QPSK	3	3	18.83	18.87	18.91		
1.4	QPSK	6	0	18.85	18.82	18.79		
1.4	16QAM	1	0	18.82	18.87	18.81		
1.4	16QAM	1	3	18.91	18.93	18.85		
1.4	16QAM	1	5	18.91	18.83	18.89		
1.4	16QAM	3	0	18.80	18.79	18.83		
1.4	16QAM	3	1	18.87	18.82	18.83		
1.4	16QAM	3	3	18.78	18.84	18.83		
1.4	16QAM	6	0	18.77	18.79	18.83		
1.4	64QAM	1	0	18.77	18.85	18.78		
1.4	64QAM	1	3	18.83	18.88	18.88		
1.4	64QAM	1	5	18.91	18.90	18.89		
1.4	64QAM	3	0	18.86	18.78	18.82		
1.4	64QAM	3	1	18.86	18.84	18.86		
1.4	64QAM	3	3	18.83	18.89	18.86		
1.4	64QAM	6	0	18.84	18.91	18.91		



Band 38_Ant 13

BW (MHz)	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)				37650	38000	38150		
20	QPSK	1	0	15.40	15.53	15.53		
20	QPSK	1	49	15.42	15.52	15.33	16.5	0
20	QPSK	1	99	15.42	15.49	15.41		
20	QPSK	50	0	15.44	15.46	15.37		
20	QPSK	50	24	15.43	15.45	15.36	16.5	0
20	QPSK	50	50	15.38	15.45	15.29		
20	QPSK	100	0	15.34	15.45	15.36		
20	16QAM	1	0	15.37	15.41	15.29		
20	16QAM	1	49	15.39	15.43	15.30	16.5	0
20	16QAM	1	99	15.40	15.37	15.30		
20	16QAM	50	0	15.37	15.41	15.33		
20	16QAM	50	24	15.34	15.45	15.30	16.5	0
20	16QAM	50	50	15.41	15.44	15.29		
20	16QAM	100	0	15.36	15.42	15.33		
20	64QAM	1	0	15.41	15.36	15.32		
20	64QAM	1	49	15.41	15.41	15.34	16.5	0
20	64QAM	1	99	15.34	15.41	15.33		
20	64QAM	50	0	15.43	15.37	15.33		
20	64QAM	50	24	15.36	15.36	15.27	16.5	0
20	64QAM	50	50	15.34	15.40	15.32		
20	64QAM	100	0	15.38	15.39	15.32		
Channel								
Frequency (MHz)				37625	38000	38175		
15	QPSK	1	0	15.48	15.48	15.50		
15	QPSK	1	37	15.48	15.48	15.50	16.5	0
15	QPSK	1	74	15.40	15.46	15.42		
15	QPSK	36	0	15.42	15.37	15.45		
15	QPSK	36	20	15.35	15.41	15.39	16.5	0
15	QPSK	36	39	15.39	15.36	15.36		
15	QPSK	75	0	15.43	15.42	15.36		
15	16QAM	1	0	15.31	15.34	15.32		
15	16QAM	1	37	15.39	15.36	15.33	16.5	0
15	16QAM	1	74	15.36	15.27	15.32		
15	16QAM	36	0	15.30	15.30	15.36		
15	16QAM	36	20	15.44	15.34	15.38	16.5	0
15	16QAM	36	39	15.43	15.34	15.40		
15	16QAM	75	0	15.34	15.36	15.33		
15	64QAM	1	0	15.30	15.32	15.32		
15	64QAM	1	37	15.34	15.36	15.36	16.5	0
15	64QAM	1	74	15.34	15.34	15.38		
15	64QAM	36	0	15.35	15.27	15.29		
15	64QAM	36	20	15.35	15.29	15.27	16.5	0
15	64QAM	36	39	15.30	15.33	15.32		
15	64QAM	75	0	15.34	15.31	15.37		
Channel								
Frequency (MHz)				37800	38000	38200		
10	QPSK	1	0	15.46	15.49	15.47		
10	QPSK	1	25	15.43	15.47	15.47	16.5	0
10	QPSK	1	49	15.48	15.41	15.42		
10	QPSK	25	0	15.38	15.37	15.42		
10	QPSK	25	12	15.37	15.37	15.35	16.5	0
10	QPSK	25	25	15.44	15.41	15.42		
10	QPSK	50	0	15.36	15.35	15.38		
10	16QAM	1	0	15.38	15.39	15.39		
10	16QAM	1	25	15.40	15.37	15.39	16.5	0
10	16QAM	1	49	15.30	15.35	15.33		
10	16QAM	25	0	15.30	15.33	15.30		
10	16QAM	25	12	15.35	15.36	15.42	16.5	0
10	16QAM	25	25	15.43	15.42	15.37		
10	16QAM	50	0	15.40	15.35	15.39		
10	64QAM	1	0	15.32	15.30	15.30		
10	64QAM	1	25	15.40	15.32	15.37	16.5	0
10	64QAM	1	49	15.36	15.36	15.35		
10	64QAM	25	0	15.34	15.32	15.31		
10	64QAM	25	12	15.29	15.35	15.33	16.5	0
10	64QAM	25	25	15.33	15.39	15.35		
10	64QAM	50	0	15.36	15.29	15.31		
Channel								
Frequency (MHz)				37775	38000	38225		
5	QPSK	1	0	15.48	15.46	15.47		
5	QPSK	1	12	15.43	15.47	15.48	16.5	0
5	QPSK	1	24	15.41	15.42	15.39		
5	QPSK	12	0	15.41	15.42	15.40		
5	QPSK	12	7	15.42	15.44	15.44	16.5	0
5	QPSK	12	13	15.36	15.42	15.37		
5	QPSK	25	0	15.37	15.38	15.42		
5	16QAM	1	0	15.32	15.35	15.39		
5	16QAM	1	12	15.42	15.38	15.35	16.5	0
5	16QAM	1	24	15.34	15.27	15.27		
5	16QAM	12	0	15.34	15.33	15.36		
5	16QAM	12	7	15.37	15.43	15.39	16.5	0
5	16QAM	12	13	15.35	15.39	15.39		
5	16QAM	25	0	15.34	15.35	15.33		
5	64QAM	1	0	15.30	15.33	15.26		
5	64QAM	1	12	15.40	15.37	15.32	16.5	0
5	64QAM	1	24	15.34	15.36	15.33		
5	64QAM	12	0	15.33	15.30	15.31		
5	64QAM	12	7	15.29	15.33	15.33	16.5	0
5	64QAM	12	13	15.31	15.32	15.35		
5	64QAM	25	0	15.36	15.30	15.33		

Band 38_Ant 31

BW (MHz)	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		
20	QPSK	1	0	23.40	23.65	23.58		
20	QPSK	1	49	23.43	23.46	23.57	24.5	0
20	QPSK	1	99	23.44	23.56	23.52		
20	QPSK	50	0	22.70	22.79	22.73		
20	QPSK	50	24	22.66	22.82	22.82	23.5	1
20	QPSK	50	50	22.54	22.82	22.86		
20	QPSK	100	0	22.71	22.77	22.82		
20	16QAM	1	0	22.71	22.42	22.43		
20	16QAM	1	49	22.86	22.81	22.81	23.5	1
20	16QAM	1	99	22.54	23.03	22.84		
20	16QAM	50	0	21.57	21.46	21.43		
20	16QAM	50	24	21.80	21.61	21.70	22.5	2
20	16QAM	50	50	21.72	21.74	21.73		
20	16QAM	100	0	21.65	21.62	21.82		
20	64QAM	1	0	21.82	22.01	21.13		
20	64QAM	1	49	21.52	21.87	21.85	22.5	2
20	64QAM	1	99	21.69	21.72	21.52		
20	64QAM	50	0	20.57	20.52	20.55		
20	64QAM	50	24	20.67	20.58	20.69	21.5	3
20	64QAM	50	50	20.78	20.84	20.71		
20	64QAM	100	0	20.76	20.60	20.49		
Channel								
Frequency (MHz)				37825	38000	38175		
15	QPSK	1	0	23.37	23.50	23.56		
15	QPSK	1	37	23.30	23.31	23.56	24.5	0
15	QPSK	1	74	23.30	23.47	23.43		
15	QPSK	36	0	22.54	22.66	22.83		
15	QPSK	36	20	22.52	22.51	22.61	23.5	1
15	QPSK	36	39	22.49	22.54	22.52		
15	QPSK	75	0	22.60	22.83	22.46		
15	16QAM	1	0	22.57	22.30	22.31		
15	16QAM	1	37	22.83	22.71	22.83	23.5	1
15	16QAM	1	74	22.47	22.87	22.83		
15	16QAM	36	0	21.47	21.45	21.35		
15	16QAM	36	20	21.69	21.87	21.42	22.5	2
15	16QAM	36	39	21.63	21.73	21.65		
15	16QAM	75	0	21.58	21.58	21.61		
15	64QAM	1	0	21.67	21.93	21.09		
15	64QAM	1	37	21.38	21.75	21.59	22.5	2
15	64QAM	1	74	21.69	21.87	21.42		
15	64QAM	36	0	20.46	20.47	20.42		
15	64QAM	36	20	20.59	20.53	20.58	21.5	3
15	64QAM	36	39	20.71	20.69	20.66		
15	64QAM	75	0	20.65	20.50	20.40		
Channel								
Frequency (MHz)				37800	38000	38200		
10	QPSK	1	0	23.46	23.63	23.53		
10	QPSK	1	25	23.24	23.34	23.52	24.5	0
10	QPSK	1	49	23.28	23.49	23.50		
10	QPSK	25	0	22.66	22.73	22.84		
10	QPSK	25	12	22.82	22.55	22.58	23.5	1
10	QPSK	25	25	22.53	22.47	22.50		
10	QPSK	50	0	22.70	22.84	22.42		
10	16QAM	1	0	22.68	22.33	22.38		
10	16QAM	1	25	22.72	22.72	22.80		



Band 41_Ant 13

BW (MHz)	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)				39750	40185	40620	41055	41490
				2501	2544.5	2589	2633.5	2678
20	QPSK	1	0	15.72	15.74	15.76	15.63	15.69
20	QPSK	1	49	15.76	15.65	15.76	15.61	15.67
20	QPSK	1	99	15.75	15.70	15.75	15.65	15.62
20	QPSK	50	0	15.67	15.65	15.73	15.59	15.62
20	QPSK	50	24	15.59	15.63	15.67	15.56	15.52
20	16QAM	50	0	15.59	15.55	15.66	15.49	15.52
20	QPSK	100	0	15.59	15.60	15.70	15.50	15.56
20	16QAM	1	0	15.62	15.55	15.63	15.58	15.54
20	16QAM	1	49	15.60	15.60	15.70	15.56	15.56
20	16QAM	1	99	15.66	15.59	15.67	15.50	15.61
20	16QAM	50	24	15.58	15.62	15.72	15.51	15.52
20	16QAM	50	0	15.63	15.59	15.69	15.55	15.55
20	16QAM	100	0	15.63	15.63	15.63	15.50	15.58
20	64QAM	1	0	15.62	15.58	15.63	15.53	15.55
20	64QAM	1	49	15.57	15.64	15.64	15.56	15.60
20	64QAM	1	99	15.58	15.62	15.72	15.53	15.55
20	64QAM	50	0	15.62	15.57	15.70	15.57	15.61
20	64QAM	50	24	15.61	15.63	15.72	15.55	15.52
20	64QAM	50	0	15.63	15.57	15.67	15.55	15.52
20	64QAM	100	0	15.62	15.57	15.72	15.58	15.52
Channel								
Frequency (MHz)				39725	40173	40620	41068	41515
				2501.5	2545.5	2593	2637.5	2685.5
15	QPSK	1	0	15.71	15.75	15.69	15.71	15.71
15	QPSK	1	37	15.71	15.69	15.70	15.69	15.67
15	QPSK	1	74	15.70	15.69	15.66	15.73	15.66
15	QPSK	36	0	15.66	15.71	15.64	15.71	15.68
15	QPSK	36	20	15.62	15.61	15.62	15.63	15.58
15	QPSK	36	39	15.64	15.60	15.56	15.62	15.64
15	QPSK	75	0	15.66	15.61	15.63	15.67	15.66
15	16QAM	1	0	15.62	15.59	15.54	15.57	15.62
15	16QAM	1	37	15.66	15.60	15.63	15.62	15.65
15	16QAM	1	74	15.61	15.58	15.60	15.57	15.62
15	16QAM	36	0	15.63	15.65	15.60	15.65	15.57
15	16QAM	36	20	15.66	15.62	15.59	15.64	15.65
15	16QAM	36	39	15.60	15.60	15.60	15.63	15.62
15	16QAM	75	0	15.58	15.61	15.58	15.60	15.60
15	64QAM	1	0	15.53	15.55	15.53	15.55	15.59
15	64QAM	1	37	15.62	15.59	15.54	15.63	15.60
15	64QAM	1	74	15.66	15.62	15.69	15.64	15.65
15	64QAM	36	0	15.67	15.67	15.60	15.61	15.56
15	64QAM	36	20	15.70	15.62	15.62	15.71	15.64
15	64QAM	36	39	15.60	15.63	15.63	15.63	15.66
15	64QAM	75	0	15.64	15.63	15.66	15.65	15.63
Channel								
Frequency (MHz)				39700	40160	40620	41080	41540
				2501	2547	2593	2639	2685
10	QPSK	1	0	15.74	15.75	15.73	15.75	15.75
10	QPSK	1	25	15.73	15.73	15.73	15.73	15.73
10	QPSK	1	49	15.69	15.66	15.73	15.68	15.65
10	QPSK	25	0	15.70	15.69	15.65	15.71	15.68
10	QPSK	25	12	15.57	15.65	15.65	15.59	15.59
10	QPSK	25	25	15.59	15.63	15.56	15.62	15.65
10	QPSK	50	0	15.61	15.60	15.65	15.63	15.61
10	16QAM	1	0	15.61	15.59	15.57	15.54	15.60
10	16QAM	1	25	15.61	15.63	15.65	15.62	15.61
10	16QAM	1	49	15.57	15.57	15.61	15.57	15.63
10	16QAM	25	0	15.58	15.59	15.59	15.64	15.61
10	16QAM	25	12	15.65	15.62	15.69	15.66	15.63
10	16QAM	25	25	15.67	15.62	15.62	15.67	15.66
10	16QAM	50	0	15.59	15.57	15.62	15.62	15.62
10	64QAM	1	0	15.60	15.58	15.59	15.58	15.60
10	64QAM	1	25	15.55	15.61	15.61	15.56	15.57
10	64QAM	1	49	15.69	15.71	15.69	15.69	15.69
10	64QAM	25	0	15.64	15.69	15.67	15.69	15.69
10	64QAM	25	12	15.69	15.70	15.62	15.62	15.70
10	64QAM	25	25	15.57	15.61	15.62	15.61	15.64
10	64QAM	50	0	15.66	15.67	15.67	15.62	15.62
Channel								
Frequency (MHz)				39675	40148	40620	41093	41565
				2498.5	2545.5	2593	2640.30	2687.5
5	QPSK	1	0	15.77	15.71	15.77	15.77	15.71
5	QPSK	1	12	15.70	15.68	15.70	15.72	15.69
5	QPSK	1	24	15.66	15.74	15.68	15.73	15.65
5	QPSK	12	0	15.67	15.72	15.68	15.65	15.65
5	QPSK	12	7	15.63	15.60	15.58	15.61	15.62
5	QPSK	12	13	15.62	15.65	15.56	15.60	15.65
5	QPSK	25	0	15.60	15.63	15.61	15.65	15.65
5	16QAM	1	0	15.56	15.56	15.62	15.59	15.61
5	16QAM	1	12	15.62	15.63	15.61	15.69	15.65
5	16QAM	1	24	15.62	15.62	15.60	15.66	15.60
5	16QAM	12	0	15.58	15.61	15.58	15.61	15.63
5	16QAM	12	7	15.68	15.61	15.60	15.64	15.66
5	16QAM	12	13	15.63	15.67	15.66	15.66	15.62
5	16QAM	25	0	15.61	15.53	15.58	15.54	15.58
5	64QAM	1	0	15.60	15.58	15.57	15.55	15.58
5	64QAM	1	12	15.61	15.57	15.59	15.56	15.60
5	64QAM	1	24	15.64	15.68	15.68	15.64	15.62
5	64QAM	12	0	15.66	15.64	15.69	15.66	15.66
5	64QAM	12	7	15.70	15.65	15.62	15.69	15.69
5	64QAM	12	13	15.60	15.64	15.63	15.64	15.60
5	64QAM	25	0	15.67	15.63	15.71	15.71	15.69

Band 41_Ant 31

BW (MHz)	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)				39750	40185	40620	41055	41490
				2508	2549.5	2593	2635	2680
20	QPSK	1	0	23.26	23.45	23.67	23.50	23.61
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56
20	QPSK	50	0	22.60	22.66	22.70	22.57	22.66
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51
20	16QAM	50	0	21.41	21.52	21.59	21.55	21.60
20	QPSK	100	0	22.47	22.61	22.69	22.45	22.52
20	16QAM	1	0	22.06	22.54	22.51	22.26	22.48
20	16QAM	1	49	22.31	22.63	22.56	22.37	22.23
20	16QAM	1	99	22.21	22.83	22.80	22.42	22.55
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58
20	16QAM	50	0	21.51	21.46	21.69	21.52	21.67
20	16QAM	100	0	21.51	21.48	21.63	21.31	21.54
20	64QAM	1	0	21.27	21.57	21.35	21.88	21.35
20	64QAM	1	49	21.45	21.50	21.43	21.51	21.30
20	64QAM	1	99	21.09	21.37	21.78	21.34	21.72
20	64QAM	50	0	20.48	20.53	20.44	20.41	20.54
20	64QAM	50	24	20.50	20.60	20.58	20.49	20.55
20	64QAM	50	0	20.41	20.50	20.83	20.63	20.71
20	64QAM	100	0	20.46	20.56	20.58	20.50	20.61
Channel								
Frequency (MHz)				39725	40173	40620	41068	41515
				2503.5	2548.5	2593	2637.5	2683.5
15	QPSK	1	0	23.15	23.37	23.67	23.35	23.53
15	QPSK	1	37	23.15	23.24	23.48	23.33	23.41
15	QPSK	1	74	23.07	23.30	23.42	23.27	23.48
15	QPSK	36	0	22.57	22.63	22.63	22.41	22.53
15	QPSK	36	20	22.44	22.54	22.48	22.40	22.44
15	QPSK	36	39	22.51	22.56	22.55	22.39	22.63
15	QPSK	75	0	22.37	22.51	22.52	22.39	22.39
15	16QAM	1	0	22.01	22.49	22.46	22.21	22.39
15	16QAM	1	37	22.18	22.48	22.54	22.31	22.14
15	16QAM	1	74	22.17	22.21	22.66	22.41	22.43
15	16QAM	36	0	21.28	21.51	21.44	21.42	21.59
15	16QAM	36	20	21.44	21.58	21.54	21.42	21.42
15	16QAM	36	39	21.37	21.40	21.63	21.47	21.65
15	16QAM							



Reduced Power Mode for DSI4

GSM850_Ant 13	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	193	189	251		193	189	251	
TX Channel	524.2	535.4	545.8	524.2	535.4	545.8	524.2	535.4
Frequency (MHz)	824.2	835.4	845.8	824.2	835.4	845.8	824.2	835.4
GSM 1 Tx slot	32.65	32.92	32.78	33.50	23.65	23.92	23.78	24.50
GPRS/EDGE GMSK 1 Tx slot	32.63	32.90	32.74	33.50	23.63	23.90	23.74	24.50
GPRS/EDGE GMSK 2 Tx slots	30.33	30.53	30.45	31.50	24.33	24.53	24.45	25.50
GPRS/EDGE GMSK 3 Tx slots	28.36	28.89	28.01	28.50	24.10	24.63	23.75	25.24
GPRS/EDGE GMSK 4 Tx slots	27.17	27.40	27.22	28.00	24.17	24.40	24.22	25.00
EDGE BPSK 1 Tx slot	26.86	26.79	26.80	28.00	17.86	17.79	17.80	19.00
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	26.00	18.12	18.01	18.02	20.00
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74
EDGE BPSK 4 Tx slots	21.52	21.56	21.63	22.50	18.52	18.56	18.63	19.50

GSM850_Ant 31	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	193	189	251		193	189	251	
TX Channel	524.2	535.4	545.8	524.2	535.4	545.8	524.2	535.4
Frequency (MHz)	824.2	835.4	845.8	824.2	835.4	845.8	824.2	835.4
GSM 1 Tx slot	32.80	32.95	32.74	33.50	23.80	23.95	23.74	24.50
GPRS/EDGE GMSK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50
GPRS/EDGE GMSK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50
GPRS/EDGE GMSK 3 Tx slots	27.80	28.85	28.02	28.50	24.34	24.59	24.36	25.24
GPRS/EDGE GMSK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	28.00	17.89	17.83	17.80	19.00
EDGE BPSK 2 Tx slots	24.98	24.81	25.01	26.00	18.98	18.81	19.01	20.00
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74
EDGE BPSK 4 Tx slots	21.63	21.38	21.56	22.50	18.63	18.38	18.56	19.50

GSM1900_Ant 13	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1650.2	1660	1609.8	1650.2	1660	1609.8	1650.2	1660
Frequency (MHz)	1650.2	1660	1609.8	1650.2	1660	1609.8	1650.2	1660
GSM 1 Tx slot	29.81	29.88	29.85	30.50	20.83	20.86	20.85	21.50
GPRS/EDGE GMSK 1 Tx slot	29.81	29.85	29.84	30.50	20.81	20.85	20.84	21.50
GPRS/EDGE GMSK 2 Tx slots	27.68	27.73	27.61	28.50	21.68	21.73	21.61	22.50
GPRS/EDGE GMSK 3 Tx slots	25.53	25.64	25.74	26.50	21.27	21.38	21.48	22.24
GPRS/EDGE GMSK 4 Tx slots	24.46	24.49	24.38	25.00	21.46	21.49	21.38	22.00
EDGE BPSK 1 Tx slot	26.12	26.39	26.01	27.00	17.12	17.39	17.01	18.00
EDGE BPSK 2 Tx slots	24.30	24.24	24.36	25.00	18.30	18.24	18.36	19.00
EDGE BPSK 3 Tx slots	22.37	22.31	22.30	23.00	18.11	18.05	18.04	18.74
EDGE BPSK 4 Tx slots	20.56	20.51	20.52	21.50	17.56	17.51	17.52	18.50

GSM1900_Ant 31	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1650.2	1660	1609.8	1650.2	1660	1609.8	1650.2	1660
Frequency (MHz)	1650.2	1660	1609.8	1650.2	1660	1609.8	1650.2	1660
GSM 1 Tx slot	29.37	29.40	29.33	30.00	20.37	20.40	20.33	21.00
GPRS/EDGE GMSK 1 Tx slot	29.34	29.38	29.30	30.00	20.34	20.38	20.30	21.00
GPRS/EDGE GMSK 2 Tx slots	26.56	26.58	26.55	28.00	20.56	20.58	20.55	22.00
GPRS/EDGE GMSK 3 Tx slots	24.60	24.63	24.58	26.00	20.34	20.37	20.32	21.74
GPRS/EDGE GMSK 4 Tx slots	23.38	23.42	23.36	24.00	20.38	20.42	20.36	21.50
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	16.91	16.96	17.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00
EDGE BPSK 3 Tx slots	22.18	22.17	22.25	23.00	17.92	17.91	18.09	18.74
EDGE BPSK 4 Tx slots	20.64	20.57	20.56	21.50	17.64	17.57	17.56	18.50

Band	WCDMA V. Ant 13			Tune-up Limit (dBm)	WCDMA V. Ant 31			Tune-up Limit (dBm)	
	5262	8400	9538		5262	8400	9538		
TX Channel	9662	9800	9538	9662	9800	9538	9662	9800	
Rx Channel	9662	9800	9538	9662	9800	9538	9662	9800	
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6	1852.4	1880	
3GPP Rel 99	AMR 12.2Kbps	23.88	23.50	23.88	24.50	20.40	20.42	20.36	21.00
3GPP Rel 99	RMV 12.2Kbps	23.90	23.91	23.89	24.50	20.41	20.44	20.39	21.00
3GPP Rel 6	HSDPA Subtest-1	22.96	22.88	22.88	24.00	19.33	19.35	19.28	20.50
3GPP Rel 6	HSDPA Subtest-2	22.93	22.92	22.88	24.00	19.43	19.37	19.33	20.50
3GPP Rel 6	HSDPA Subtest-3	22.49	22.38	22.38	23.50	18.87	18.76	18.90	20.00
3GPP Rel 6	HSDPA Subtest-4	22.49	22.37	22.41	23.50	18.90	18.81	18.90	20.00
3GPP Rel 6	DCH-HSDPA Subtest-1	22.80	22.72	22.76	24.00	19.36	19.29	19.19	20.50
3GPP Rel 6	DCH-HSDPA Subtest-2	22.90	22.76	22.73	24.00	19.34	19.27	19.26	20.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.34	22.35	22.23	23.50	18.74	18.64	18.73	20.00
3GPP Rel 6	DC-HSDPA Subtest-4	22.34	22.35	22.35	23.50	18.94	18.75	18.76	20.00
3GPP Rel 6	HSUPA Subtest-1	22.93	22.90	22.86	24.00	19.40	19.41	19.36	20.50
3GPP Rel 6	HSUPA Subtest-2	20.87	20.86	21.01	22.00	17.36	17.40	17.36	18.50
3GPP Rel 6	HSUPA Subtest-3	21.88	21.96	21.92	23.00	18.29	18.33	18.33	19.50
3GPP Rel 6	HSUPA Subtest-4	20.95	20.97	20.91	22.00	17.32	17.34	17.29	18.50
3GPP Rel 6	HSUPA Subtest-5	22.90	22.90	22.90	24.00	19.40	19.34	19.28	20.50
3GPP Rel 7	HSPA (H2AM) Subtest-1	21.85	21.86	21.83	23.00	18.31	18.50	18.28	19.50

Band	WCDMA V. Ant 13			Tune-up Limit (dBm)	WCDMA V. Ant 31			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	23.94	23.95	23.92	24.50	20.85	20.86	20.82	21.50
3GPP Rel 99	RMV 12.2Kbps	23.96	23.97	23.95	24.50	20.87	20.89	20.85	21.50
3GPP Rel 6	HSDPA Subtest-1	22.88	22.99	22.99	24.00	19.90	20.05	19.94	21.00
3GPP Rel 6	HSDPA Subtest-2	22.86	23.01	22.94	24.00	19.87	20.00	19.96	21.00
3GPP Rel 6	HSDPA Subtest-3	22.31	22.49	22.45	23.50	19.39	19.51	19.50	20.50
3GPP Rel 6	HSDPA Subtest-4	22.38	22.52	22.47	23.50	19.47	19.53	19.46	20.50
3GPP Rel 6	DCH-HSDPA Subtest-1	22.86	22.91	22.94	24.00	19.84	19.83	19.82	21.00
3GPP Rel 6	DCH-HSDPA Subtest-2	22.77	22.87	22.91	24.00	19.78	19.88	19.90	21.00
3GPP Rel 6	DC-HSDPA Subtest-1	22.29	22.39	22.31	23.50	19.41	19.49	19.48	20.50
3GPP Rel 6	DC-HSDPA Subtest-4	22.32	22.50	22.42	23.50	19.33	19.54	19.42	20.50
3GPP Rel 6	HSUPA Subtest-1	22.95	23.05	22.98	24.00	19.89	20.07	19.97	21.00
3GPP Rel 6	HSUPA Subtest-2	20.96	20.98	21.07	22.00	17.95	17.98	17.83	19.00
3GPP Rel 6	HSUPA Subtest-3	21.97	22.01	21.99	23.00	18.79	18.89	18.95	20.00
3GPP Rel 6	HSUPA Subtest-4	20.97	21.06	21.01	22.00	17.90	18.06	17.99	19.00
3GPP Rel 6	HSUPA Subtest-5	22.90	23.00	23.00	24.00	19.91	20.03	19.89	21.00
3GPP Rel 7	HSPA (H2AM) Subtest-1	22.03	22.05	21.98	23.00	18.90	19.03	19.03	20.00

Band	WCDMA V. Ant 13			Tune-up Limit (dBm)	WCDMA V. Ant 31			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)	626.4	636.4	646.6	626.4	636.4	646.6	626.4	636.4	
3GPP Rel 99	AMR 12.2Kbps	24.33	24.38	24.38	25.00	24.25	24.37	24.35	25.00
3GPP Rel 99	RMV 12.2Kbps	24.35	24.40	24.37	25.00	24.27	24.35	24.38	25.00
3GPP Rel 6	HSDPA Subtest-1	23.52	23.61	23.58	24.50	23.46	23.53	23.57	24.50
3GPP Rel 6	HSDPA Subtest-2	23.54	23.57	23.59	24.50	23.47	23.54	23.54	24.50
3GPP Rel 6	HSDPA Subtest-3	22.99	23.08	23.08	24.00	22.94	22.97	23.10	24.00
3GPP Rel 6	HSDPA Subtest-4	23.02	23.09	23.08	24.00	22.94	23.00	23.05	24.00
3GPP Rel 6	DCH-HSDPA Subtest-1	23.39	23.54	23.55	24.50	23.45	23.47	23.56	24.50
3GPP Rel 6	DCH-HSDPA Subtest-2	23.50	23.41	23.48	24.50	23.45	23.47	23.53	24.50
3GPP Rel 6	DCH-HSDPA Subtest-3	22.97	22.96	23.00	24.00	22.83	22.89	22.95	24.00
3GPP Rel 6	DCH-HSDPA Subtest-4	22.99	22.98	22.99	24.00	22.81	22.85	23.04	24.00
3GPP Rel 6	HSUPA Subtest-1	23.52	23.55	23.60	24.50	23.46	23.55	23.57	24.50



Band 2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Mod / Freq	Power Hsp Ch / Freq	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.53	23.54	23.48			
20	QPSK	1	49	23.53	23.54	23.48	24.5	0	
20	QPSK	1	99	23.56	23.58	23.52			
20	QPSK	1	99	23.56	23.58	23.52	24.5	1	
20	QPSK	50	0	23.53	23.54	23.48			
20	QPSK	50	24	23.53	23.54	23.48			
20	QPSK	50	50	23.60	23.65	23.50			
20	QPSK	100	0	23.53	23.54	23.47			
20	16QAM	1	0	23.32	23.31	23.30			
20	16QAM	1	49	23.37	23.47	23.43	23.5	1	
20	16QAM	1	99	23.29	23.25	23.33			
20	16QAM	50	0	21.47	21.49	21.46			
20	16QAM	50	24	21.51	21.65	21.52			
20	16QAM	50	50	21.56	21.64	21.52			
20	16QAM	100	0	21.56	21.56	21.46			
20	16QAM	1	0	21.96	21.69	21.37			
20	16QAM	1	49	21.55	21.71	21.55	22.5	2	
20	16QAM	1	99	22.04	21.34	21.63			
20	16QAM	50	0	20.58	20.44	20.53			
20	16QAM	50	24	20.58	20.44	20.58			
20	16QAM	50	50	20.54	20.53	20.55			
20	16QAM	100	0	20.55	20.56	20.46			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.77	18.77	18.77			
15	QPSK	1	37	23.37	23.35	23.40	24.5	0	
15	QPSK	1	74	23.32	23.31	23.18			
15	QPSK	36	0	22.28	22.52	22.61			
15	QPSK	36	24	22.53	22.41	22.48			
15	QPSK	36	39	22.45	22.40	22.36			
15	QPSK	75	0	22.46	22.39	22.45			
15	16QAM	1	0	22.25	22.24	22.18			
15	16QAM	1	37	22.74	22.45	22.25	23.5	1	
15	16QAM	1	74	22.95	22.84	22.52			
15	16QAM	36	0	21.45	21.43	21.31			
15	16QAM	36	24	21.52	21.52	21.40			
15	16QAM	36	39	21.65	21.42	21.38			
15	16QAM	75	0	21.54	21.44	21.37			
15	16QAM	1	0	21.59	21.59	21.52			
15	16QAM	1	37	21.39	21.56	21.50	22.5	2	
15	16QAM	1	74	22.02	21.30	21.48			
15	16QAM	36	0	20.48	20.35	20.38			
15	16QAM	36	24	20.52	20.45	20.31			
15	16QAM	36	39	20.48	20.41	20.34			
15	16QAM	75	0	20.54	20.40	20.40			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.51	23.53	23.43			
10	QPSK	1	25	23.26	23.31	23.33	24.5	0	
10	QPSK	1	49	23.28	23.29	23.22			
10	QPSK	1	25	22.52	22.52	22.53			
10	QPSK	25	12	22.51	22.28	22.49			
10	QPSK	25	25	22.27	22.41	22.44			
10	QPSK	50	0	22.47	22.69	23.00			
10	16QAM	1	25	22.84	22.45	22.34			
10	16QAM	1	49	23.07	22.72	22.41	23.5	1	
10	16QAM	1	25	21.32	21.41	21.44			
10	16QAM	25	12	21.54	21.51	21.37			
10	16QAM	25	25	21.56	21.41	21.50			
10	16QAM	50	0	21.40	21.42	21.23			
10	16QAM	1	25	21.39	21.61	21.61	22.5	2	
10	16QAM	1	49	21.98	21.31	21.58			
10	16QAM	25	0	20.46	20.47	20.50			
10	16QAM	25	12	20.46	20.40	20.36			
10	16QAM	25	25	20.55	20.41	20.48			
10	16QAM	50	0	20.49	20.42	20.48			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.52	18.60	18.07			
5	QPSK	1	12	23.39	23.24	23.34	24.5	0	
5	QPSK	1	24	23.27	23.31	23.42			
5	QPSK	12	0	22.49	22.43	22.63			
5	QPSK	12	7	22.53	22.37	22.46			
5	QPSK	12	13	22.53	22.39	22.41			
5	QPSK	12	13	22.47	22.43	22.46			
5	16QAM	1	0	23.20	22.59	23.04			
5	16QAM	1	12	22.72	22.45	22.38			
5	16QAM	1	24	22.52	22.39	22.54			
5	16QAM	12	0	21.33	21.45	21.40			
5	16QAM	12	7	21.46	21.53	21.47			
5	16QAM	12	13	21.56	21.41	21.46			
5	16QAM	25	0	21.44	21.41	21.36			
5	16QAM	1	0	21.95	21.56	21.34			
5	16QAM	1	12	21.44	21.55	21.49	22.5	2	
5	16QAM	1	24	21.54	21.51	21.61			
5	16QAM	12	0	20.47	20.42	20.52			
5	16QAM	12	7	20.50	20.41	20.48			
5	16QAM	12	13	20.62	20.37	20.54			
5	16QAM	25	0	20.44	20.41	20.33			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.39	23.42	23.33			
3	QPSK	1	8	23.34	23.25	23.38	24.5	0	
3	QPSK	1	14	23.31	23.31	23.23			
3	QPSK	8	0	22.57	22.51	22.49			
3	QPSK	8	4	22.50	22.28	22.56			
3	QPSK	8	7	22.47	22.33	22.45			
3	QPSK	15	0	22.45	22.49	22.40			
3	16QAM	1	0	23.20	22.59	22.94			
3	16QAM	1	8	22.72	22.39	22.24			
3	16QAM	8	4	23.00	22.77	22.38			
3	16QAM	8	0	21.41	21.37	21.36			
3	16QAM	8	4	21.46	21.56	21.50			
3	16QAM	8	7	21.52	21.39	21.42			
3	16QAM	15	0	21.45	21.42	21.39			
3	16QAM	1	0	21.80	21.63	21.36			
3	16QAM	1	8	21.40	21.70	21.60	22.5	2	
3	16QAM	8	7	20.62	20.60	20.47			
3	16QAM	8	0	20.44	20.43	20.45			
3	16QAM	15	0	20.44	20.51	20.34			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.15	23.06	23.33			
1.4	QPSK	1	3	23.16	23.03	23.15			
1.4	QPSK	1	5	23.09	23.12	23.19	24.5	0	
1.4	QPSK	3	0	23.20	23.05	23.24			
1.4	QPSK	3	1	23.08	23.00	23.15			
1.4	QPSK	6	0	22.47	22.29	22.54			
1.4	16QAM	1	0	22.47	22.51	22.46			
1.4	16QAM	1	3	22.46	22.43	22.70			
1.4	16QAM	1	5	22.38	22.35	22.52			
1.4	16QAM	3	0	22.35	22.33	22.43			
1.4	16QAM	3	1	22.32	22.29	22.50			
1.4	16QAM	3	1	22.33	22.29	22.46			
1.4	16QAM	6	0	21.33	21.28	21.53			
1.4	16QAM	6	0	21.50	21.53	21.55	22.5	2	
1.4	16QAM	6	1	21.46	21.50	21.60			
1.4	16QAM	1	0	21.41	21.48	21.55			
1.4	16QAM	3	0	21.49	21.46	21.57			
1.4	16QAM	3	1	21.46	21.41	21.43			
1.4	16QAM	6	0	21.37	21.34	21.47			
1.4	16QAM	6	0	20.42	20.44	20.47	21.5	3	

Band 2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Mod / Freq	Power Hsp Ch / Freq	Tune-up limit (dBm)	MPR (dB)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.52	20.52	20.53			
20	QPSK	1	49	20.46	20.46	20.33	21.5	0	
20	QPSK	1	99	20.43	20.59	20.48			
20	QPSK	50	0	20.45	20.55	20.45			
20	QPSK	50	24	20.40	20.41	20.40			
20	QPSK	50	50	20.40	20.50	20.39			
20	QPSK	100	0	20.42	20.54	20.38			
20	16QAM	1	0	20.40	20.45	20.37			
20	16QAM	1	49	20.46	20.46	20.33	21.5	0	
20	16QAM	1	99	20.48	20.52	20.33			
20	16QAM	50	0	20.46	20.54	20			



Band 4_Ant 15										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Middle Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20550	20175	20350				
20	QPSK	1	0	1732	1732.5	1745				
20	QPSK	1	0	2245	2245.5	2258				
20	QPSK	1	99	2347	2347.5	2359				
20	QPSK	50	0	2245	2245.5	2258				
20	QPSK	50	99	2347	2347.5	2359				
20	QPSK	50	99	2245	2245.5	2258				
20	QPSK	100	0	2245	2245.5	2258				
20	QPSK	100	99	2347	2347.5	2359				
20	16QAM	1	0	2245	2245.5	2258				
20	16QAM	1	99	2347	2347.5	2359				
20	16QAM	50	0	2180	2180.5	2192				
20	16QAM	50	99	2180	2180.5	2192				
20	16QAM	100	0	2180	2180.5	2192				
20	16QAM	100	99	2180	2180.5	2192				
20	64QAM	1	0	2174	2174.5	2186				
20	64QAM	1	99	2174	2174.5	2186				
20	64QAM	50	0	2174	2174.5	2186				
20	64QAM	50	99	2174	2174.5	2186				
20	64QAM	100	0	2174	2174.5	2186				
20	64QAM	100	99	2174	2174.5	2186				
20	64QAM	50	0	2045	2045.5	2057				
20	64QAM	50	99	2045	2045.5	2057				
20	64QAM	100	0	2045	2045.5	2057				
20	64QAM	100	99	2045	2045.5	2057				
Channel										
Frequency (MHz)				17175	17223	17472				
15	QPSK	1	0	2340	2340.5	2352				
15	QPSK	1	99	2340	2340.5	2352				
15	QPSK	1	74	2343	2343.5	2355				
15	QPSK	36	0	2245	2245.5	2257				
15	QPSK	36	99	2347	2347.5	2359				
15	QPSK	36	99	2245	2245.5	2257				
15	QPSK	75	0	2245	2245.5	2257				
15	QPSK	75	99	2347	2347.5	2359				
15	16QAM	1	0	2245	2245.5	2257				
15	16QAM	1	99	2347	2347.5	2359				
15	16QAM	36	0	2145	2145.5	2157				
15	16QAM	36	99	2145	2145.5	2157				
15	16QAM	75	0	2145	2145.5	2157				
15	16QAM	75	99	2145	2145.5	2157				
15	64QAM	1	0	2173	2173.5	2185				
15	64QAM	1	99	2173	2173.5	2185				
15	64QAM	36	0	2055	2055.5	2067				
15	64QAM	36	99	2055	2055.5	2067				
15	64QAM	75	0	2055	2055.5	2067				
15	64QAM	75	99	2055	2055.5	2067				
Channel										
Frequency (MHz)				20000	20175	20350				
10	QPSK	1	0	2347	2347.5	2359				
10	QPSK	1	25	2338	2338.5	2350				
10	QPSK	1	49	2338	2338.5	2350				
10	QPSK	25	0	2245	2245.5	2257				
10	QPSK	25	12	2245	2245.5	2257				
10	QPSK	25	25	2245	2245.5	2257				
10	QPSK	25	49	2245	2245.5	2257				
10	QPSK	50	0	2245	2245.5	2257				
10	QPSK	50	12	2245	2245.5	2257				
10	QPSK	50	25	2245	2245.5	2257				
10	QPSK	50	49	2245	2245.5	2257				
10	16QAM	1	0	2245	2245.5	2257				
10	16QAM	1	25	2245	2245.5	2257				
10	16QAM	1	49	2245	2245.5	2257				
10	16QAM	25	0	2145	2145.5	2157				
10	16QAM	25	12	2145	2145.5	2157				
10	16QAM	25	25	2145	2145.5	2157				
10	16QAM	25	49	2145	2145.5	2157				
10	16QAM	50	0	2145	2145.5	2157				
10	16QAM	50	12	2145	2145.5	2157				
10	16QAM	50	25	2145	2145.5	2157				
10	16QAM	50	49	2145	2145.5	2157				
10	64QAM	1	0	2173	2173.5	2185				
10	64QAM	1	25	2173	2173.5	2185				
10	64QAM	1	49	2173	2173.5	2185				
10	64QAM	25	0	2075	2075.5	2087				
10	64QAM	25	12	2075	2075.5	2087				
10	64QAM	25	25	2075	2075.5	2087				
10	64QAM	25	49	2075	2075.5	2087				
10	64QAM	50	0	2075	2075.5	2087				
10	64QAM	50	12	2075	2075.5	2087				
10	64QAM	50	25	2075	2075.5	2087				
10	64QAM	50	49	2075	2075.5	2087				
Channel										
Frequency (MHz)				19950	20175	20350				
3	QPSK	1	0	2348	2348.5	2360				
3	QPSK	1	9	2332	2332.5	2344				
3	QPSK	1	18	2332	2332.5	2344				
3	QPSK	8	0	2245	2245.5	2257				
3	QPSK	8	4	2245	2245.5	2257				
3	QPSK	8	9	2245	2245.5	2257				
3	QPSK	15	0	2245	2245.5	2257				
3	QPSK	15	9	2245	2245.5	2257				
3	QPSK	15	18	2245	2245.5	2257				
3	QPSK	30	0	2145	2145.5	2157				
3	QPSK	30	9	2145	2145.5	2157				
3	QPSK	30	18	2145	2145.5	2157				
3	QPSK	30	27	2145	2145.5	2157				
3	QPSK	30	36	2145	2145.5	2157				
3	QPSK	30	45	2145	2145.5	2157				
3	QPSK	30	54	2145	2145.5	2157				
3	QPSK	30	63	2145	2145.5	2157				
3	QPSK	30	72	2145	2145.5	2157				
3	QPSK	30	81	2145	2145.5	2157				
3	QPSK	30	90	2145	2145.5	2157				
3	QPSK	30	99	2145	2145.5	2157				
3	QPSK	60	0	2045	2045.5	2057				
3	QPSK	60	9	2045	2045.5	2057				
3	QPSK	60	18	2045	2045.5	2057				
3	QPSK	60	27	2045	2045.5	2057				
3	QPSK	60	36	2045	2045.5	2057				
3	QPSK	60	45	2045	2045.5	2057				
3	QPSK	60	54	2045	2045.5	2057				
3	QPSK	60	63	2045	2045.5	2057				
3	QPSK	60	72	2045	2045.5	2057				
3	QPSK	60	81	2045	2045.5	2057				
3	QPSK	60	90	2045	2045.5	2057				
3	QPSK	60	99	2045	2045.5	2057				
3	16QAM	1	0	2245	2245.5	2257				
3	16QAM	1	9	2245	2245.5	2257				
3	16QAM	1	18	2245	2245.5	2257				
3	16QAM	8	0	2145	2145.5	2157				
3	16QAM	8	4	2145	2145.5	2157				
3	16QAM	8	9	2145	2145.5	2157				
3	16QAM	15	0	2145	2145.5	2157				
3	16QAM	15	9	2145	2145.5	2157				
3	16QAM	15	18	2145	2145.5	2157				
3	16QAM	15	27	2145	2145.5	2157				
3	16QAM	15	36	2145	2145.5	2157				
3	16QAM	15	45	2145	2145.5	2157				
3	16QAM	15	54	2145	2145.5	2157				
3	16QAM	15	63	2145	2145.5	2157				
3	16QAM	15	72	2145	2145.5	2157				
3	16QAM	15	81	2145	2145.5	2157				
3	16QAM	15	90	2145	2145.5	2157				
3	16QAM	15	99	2145	2145.5	2157				
3	16QAM	30	0	2045	2045.5	2057				



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	21.02	21.13	21.07			22	0
20	QPSK	1	99	21.01	21.08	20.97				
20	QPSK	50	0	21.04	21.07	21.08				
20	QPSK	50	99	21.02	21.01	21.01			22	0
20	QPSK	100	0	20.97	21.02	20.98				
20	16QAM	1	0	20.94	21.04	20.99				
20	16QAM	1	99	21.00	21.01	21.00			22	0
20	16QAM	50	0	20.98	21.01	20.99				
20	16QAM	50	99	20.96	20.95	20.93			22	0
20	16QAM	100	0	20.98	21.02	20.98				
20	16QAM	100	99	20.97	20.99	21.05			22	0
20	64QAM	1	0	21.01	20.98	21.05				
20	64QAM	1	99	21.03	20.98	20.96				
20	64QAM	50	0	20.93	20.92	20.90				
20	64QAM	50	99	20.97	20.95	20.93			21	1
20	64QAM	100	0	20.93	20.97	19.97				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	21.04	21.11	21.02				
15	QPSK	1	37	20.96	20.97	21.02			22	0
15	QPSK	1	74	21.06	21.00	21.03				
15	QPSK	36	0	21.02	21.06	20.98				
15	QPSK	36	99	20.95	20.93	20.98			22	0
15	QPSK	75	0	21.00	20.93	20.95				
15	16QAM	1	0	20.97	20.99	20.97				
15	16QAM	1	37	20.96	20.99	20.97			22	0
15	16QAM	1	74	20.98	20.93	20.91				
15	16QAM	36	0	20.95	20.94	20.96				
15	16QAM	36	99	20.95	20.98	20.91			22	0
15	16QAM	75	0	20.98	21.01	20.97				
15	64QAM	1	0	20.94	20.94	20.94				
15	64QAM	1	37	20.93	20.92	20.88				
15	64QAM	1	74	20.98	20.97	20.97				
15	64QAM	36	0	19.98	19.93	19.92				
15	64QAM	36	99	19.97	19.95	19.93			21	1
15	64QAM	75	0	19.93	19.94	19.93				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	21.08	21.12	21.10				
10	QPSK	1	25	20.94	20.95	20.95			22	0
10	QPSK	1	49	20.98	21.02	21.01				
10	16QAM	36	0	21.00	20.93	20.97				
10	16QAM	25	12	20.96	20.95	20.89			22	0
10	16QAM	25	25	20.97	20.96	20.99				
10	16QAM	50	0	20.96	20.94	20.97				
10	16QAM	50	99	21.01	21.04	20.98			22	0
10	16QAM	100	0	20.97	20.99	20.92				
10	16QAM	100	99	20.91	20.98	20.93			22	0
10	16QAM	25	12	20.98	20.93	20.98				
10	16QAM	25	25	20.99	20.97	20.99			22	0
10	16QAM	50	0	20.92	21.00	20.97				
10	16QAM	50	99	20.92	20.95	20.94			22	0
10	16QAM	100	0	20.96	20.91	20.88				
10	16QAM	100	99	20.92	20.93	20.96			22	0
10	64QAM	25	12	20.95	20.92	20.98				
10	64QAM	25	25	20.91	20.93	20.91			21	1
10	64QAM	50	0	19.92	19.98	19.98				
Channel										
Frequency (MHz)				20925	21100	21425				
5	QPSK	1	0	21.10	21.05	21.05				
5	QPSK	1	12	20.95	21.01	20.97			22	0
5	QPSK	1	24	20.98	21.00	21.06				
5	QPSK	12	0	20.97	21.00	20.97				
5	QPSK	12	7	20.95	20.95	20.94			22	0
5	16QAM	25	0	21.00	20.95	20.93				
5	16QAM	1	0	21.00	21.02	21.00			22	0
5	16QAM	1	12	20.98	20.91	20.99				
5	16QAM	1	24	20.96	20.96	20.93			22	0
5	16QAM	12	0	21.00	20.97	20.91				
5	16QAM	12	7	20.94	20.90	20.95			22	0
5	16QAM	12	13	20.94	20.95	20.96				
5	16QAM	25	0	20.98	20.94	20.99				
5	64QAM	1	0	20.89	20.93	20.94				
5	64QAM	1	12	20.96	20.93	20.88			22	0
5	64QAM	1	24	20.92	20.92	20.97				
5	64QAM	12	0	19.97	19.95	19.98				
5	64QAM	12	7	19.96	20.02	19.97			21	1
5	64QAM	12	13	19.97	20.00	19.96				
5	64QAM	25	0	19.95	19.92	19.97				

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	22.48	22.40	22.48			24	0
20	QPSK	1	99	22.49	22.44	22.40				
20	QPSK	50	0	22.29	22.44	22.40				
20	QPSK	50	99	21.55	21.62	21.55			23	1
20	16QAM	1	0	21.60	21.56	21.60				
20	16QAM	1	99	21.52	21.51	21.50			23	1
20	16QAM	50	0	21.63	21.61	21.46				
20	16QAM	50	99	21.64	21.58	21.53			23	1
20	16QAM	100	0	21.71	21.49	21.60				
20	16QAM	100	99	21.49	21.65	21.60			23	1
20	16QAM	50	0	20.43	20.43	20.35				
20	16QAM	50	99	20.44	20.41	20.53			22	2
20	16QAM	100	0	20.36	20.35	20.98				
20	16QAM	100	99	20.43	20.47	20.54				
20	64QAM	1	0	20.46	20.47	20.27			22	2
20	64QAM	1	49	20.33	20.36	20.94				
20	64QAM	1	99	21.00	20.40	20.50				
20	64QAM	50	0	19.32	19.40	19.49				
20	64QAM	50	99	19.36	19.42	19.42			21	3
20	64QAM	100	0	19.30	19.35	19.53				
20	64QAM	100	99	19.44	19.43	19.51				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	22.13	22.29	22.13				
15	QPSK	1	37	22.25	22.26	22.30			24	0
15	QPSK	1	74	22.15	22.39	22.24				
15	QPSK	36	0	21.47	21.49	21.51				
15	QPSK	36	99	21.61	21.44	21.49			23	1
15	QPSK	36	39	21.46	21.39	21.41				
15	QPSK	75	0	21.40	21.57	21.37				
15	16QAM	1	0	21.61	21.48	21.48				
15	16QAM	1	37	21.61	21.48	21.47			23	1
15	16QAM	1	74	21.47	21.59	21.62				
15	16QAM	36	0	20.27	20.35	20.23				
15	16QAM	36	99	20.34	20.35	20.68			22	2
15	16QAM	36	39	20.49	20.50	20.62				
15	16QAM	75	0	20.35	20.34	20.47				
15	16QAM	75	99	20.34	20.42	20.11			22	2
15	64QAM	1	0	20.43	20.81	20.76			22	2
15	64QAM	1	74	20.88	20.27	20.36				
15	64QAM	36	0	19.30	19.27	19.33				
15	64QAM	36	99	19.38	19.40	19.45			21	3
15	64QAM	36	39	19.28	19.39	19.41				
15	64QAM	75	0	19.41	19.32	19.41				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	22.46	22.54	22.37				
10	QPSK	1	25	22.16	22.17	22.18			24	0
10	QPSK	1	49	22.16	22.38	22.38				
10	16QAM	36	0	21.64	21.56	21.64				
10	16QAM	25	12	21.51	21.50	21.41			23	1
1										



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11					
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11					
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13					
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.98					
10	64QAM	25	25	21.12					
10	64QAM	50	0	21.06					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.98	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.86	21.89	21.85			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.98	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17					
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	23.08					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17					
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52					
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09					
10	64QAM	50	0	21.00					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.85	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.83			
5	16QAM	12	7	22.00	22.05	21.83			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.84	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.16	24.21	24.20			
10	QPSK	1	25	24.15	24.07	24.15			
10	QPSK	1	49	24.02	24.15	24.11			
10	QPSK	25	0	23.23	23.30	23.20			
10	QPSK	25	12	23.24	23.18	23.18			
10	QPSK	25	25	23.20	23.20	23.18			
10	QPSK	50	0	23.28	23.29	23.26			
10	16QAM	1	0	23.50	23.58	23.32			
10	16QAM	1	25	23.30	23.18	23.33			
10	16QAM	1	49	23.32	23.34	23.36			
10	16QAM	25	0	22.17	22.08	22.17			
10	16QAM	25	12	22.31	22.23	22.22			
10	16QAM	25	25	22.35	22.38	22.32			
10	16QAM	50	0	22.21	22.12	22.23			
10	64QAM	1	0	22.30	22.67	22.24			
10	64QAM	1	25	22.62	22.79	22.12			
10	64QAM	1	49	22.52	22.61	22.49			
10	64QAM	25	0	21.25	21.23	21.15			
10	64QAM	25	12	21.39	21.28	21.30			
10	64QAM	25	25	21.28	21.17	21.21			
10	64QAM	50	0	21.30	21.11	21.07			
Channel									
23755									
Frequency (MHz)									
5	QPSK	1	0	24.03	24.15	24.11			
5	QPSK	1	12	24.04	23.98	24.14			
5	QPSK	1	24	23.93	24.14	24.07			
5	QPSK	12	0	23.16	23.16	23.07			
5	QPSK	12	7	23.21	23.12	23.17			
5	QPSK	12	13	23.19	23.13	23.09			
5	QPSK	25	0	23.18	23.18	23.23			
5	16QAM	1	0	23.41	23.48	23.17			
5	16QAM	1	12	23.17	23.04	23.27			
5	16QAM	1	24	23.47	23.18	23.48			
5	16QAM	12	0	22.14	21.95	22.13			
5	16QAM	12	7	22.16	22.20	22.18			
5	16QAM	12	13	22.29	22.28	22.28			
5	16QAM	25	0	22.13	22.06	22.11			
5	64QAM	1	0	22.28	22.53	22.12			
5	64QAM	1	12	22.54	22.77	21.97			
5	64QAM	1	24	22.36	22.50	22.36			
5	64QAM	12	0	21.12	21.16	21.02			
5	64QAM	12	7	21.32	21.19	21.02			
5	64QAM	12	13	21.14	21.10	21.17			
5	64QAM	25	0	21.15	21.03	20.95			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.20	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.36	23.50			
10	16QAM	1	0	23.53	23.12	23.32			
10									



Band 66_Ant 11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.46	23.33	23.30	24.5	0
20	QPSK	1	46	23.39	23.38	23.17		
20	QPSK	1	99	23.47	23.33	23.15		
20	QPSK	50	0	22.58	22.58	22.54	23.5	1
20	QPSK	50	24	22.36	22.48	22.42		
20	QPSK	50	50	22.39	22.48	22.32		
20	QPSK	100	0	22.42	22.56	22.27	23.5	1
20	16QAM	1	0	22.69	22.79	22.44		
20	16QAM	1	46	22.63	22.68	22.38		
20	16QAM	1	99	23.02	22.45	22.26	22.5	2
20	16QAM	50	0	21.39	21.37	21.39		
20	16QAM	50	24	21.45	21.34	21.39		
20	16QAM	50	50	21.39	21.38	21.24	22.5	2
20	64QAM	100	0	21.60	21.41	21.25		
20	64QAM	1	0	21.75	21.66	21.69		
20	64QAM	1	46	21.30	21.51	21.39	21.5	3
20	64QAM	1	99	21.02	21.69	21.54		
20	64QAM	50	0	20.35	20.43	20.45		
20	64QAM	50	24	20.47	20.44	20.42	21.5	3
20	64QAM	50	50	20.46	20.47	20.36		
20	64QAM	100	0	20.41	20.41	20.35		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.38	23.47	23.31	24.5	0
15	QPSK	1	37	23.29	23.31	23.05		
15	QPSK	1	74	23.32	23.17	23.08		
15	QPSK	36	0	22.48	22.36	22.32	23.5	1
15	QPSK	36	29	22.30	22.42	22.32		
15	QPSK	36	59	22.34	22.38	22.25		
15	QPSK	75	0	22.38	22.48	22.18	23.5	1
15	16QAM	1	0	22.87	22.66	22.29		
15	16QAM	1	37	22.49	22.57	22.35		
15	16QAM	1	74	22.90	22.38	22.18	22.5	2
15	16QAM	36	0	21.35	21.35	21.27		
15	16QAM	36	29	21.33	21.44	21.33		
15	16QAM	36	59	21.28	21.25	21.17	22.5	2
15	16QAM	75	0	21.47	21.26	21.22		
15	64QAM	1	0	21.73	21.58	21.66		
15	64QAM	1	37	21.24	21.48	21.67	22.5	2
15	64QAM	1	74	20.91	21.58	21.41		
15	64QAM	36	0	20.53	20.37	20.42		
15	64QAM	36	29	20.44	20.34	20.38	21.5	3
15	64QAM	36	59	20.36	20.43	20.28		
15	64QAM	75	0	20.37	20.28	20.25		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.40	23.46	23.22	24.5	0
10	QPSK	1	25	23.31	23.34	22.97		
10	QPSK	1	49	23.46	23.27	23.06		
10	QPSK	25	0	22.55	22.56	22.33	23.5	1
10	QPSK	25	12	22.34	22.44	22.39		
10	QPSK	25	25	22.25	22.32	22.23		
10	QPSK	50	0	22.40	22.45	22.16	23.5	1
10	16QAM	1	0	22.73	22.71	22.30		
10	16QAM	1	25	22.49	22.57	22.37		
10	16QAM	1	49	22.95	22.32	22.15	22.5	2
10	16QAM	25	0	21.38	21.28	21.29		
10	16QAM	25	12	21.40	21.50	21.30		
10	16QAM	25	25	21.32	21.31	21.14	22.5	2
10	16QAM	50	0	21.53	21.35	21.13		
10	64QAM	1	0	21.81	21.52	21.62		
10	64QAM	1	25	21.22	21.43	21.89	22.5	2
10	64QAM	1	49	20.95	21.64	21.41		
10	64QAM	25	0	20.40	20.37	20.43		
10	64QAM	25	12	20.45	20.40	20.37	21.5	3
10	64QAM	25	25	20.34	20.33	20.24		
10	64QAM	50	0	20.34	20.30	20.24		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.33	23.37	23.29	24.5	0
5	QPSK	1	12	23.34	23.34	23.03		
5	QPSK	1	24	23.41	23.19	23.08		
5	QPSK	12	0	22.50	22.49	22.36	23.5	1
5	QPSK	12	7	22.25	22.47	22.26		
5	QPSK	12	13	22.36	22.32	22.18		
5	QPSK	25	0	22.35	22.46	22.16	23.5	1
5	16QAM	1	0	22.86	22.68	22.41		
5	16QAM	1	12	22.47	22.64	22.28		
5	16QAM	1	24	22.92	22.35	22.15	22.5	2
5	16QAM	12	0	21.37	21.32	21.25		
5	16QAM	12	7	21.35	21.38	21.24		
5	16QAM	12	13	21.25	21.32	21.23	22.5	2
5	16QAM	25	0	21.52	21.45	21.16		
5	64QAM	1	0	21.69	21.50	21.56		
5	64QAM	1	12	21.25	21.50	21.73	22.5	2
5	64QAM	1	24	20.99	21.86	21.44		
5	64QAM	12	0	20.54	20.37	20.37		
5	64QAM	12	7	20.42	20.28	20.40	21.5	3
5	64QAM	12	13	20.40	20.36	20.29		
5	64QAM	25	0	20.40	20.35	20.28		
Channel								
Frequency (MHz)								
3	QPSK	1	0	23.32	23.50	23.31	24.5	0
3	QPSK	1	8	23.33	23.34	23.07		
3	QPSK	1	14	23.39	23.21	23.14		
3	QPSK	8	0	22.47	22.45	22.41	23.5	1
3	QPSK	8	4	22.21	22.46	22.26		
3	QPSK	8	7	22.26	22.39	22.30		
3	QPSK	15	0	22.38	22.46	22.19	23.5	1
3	16QAM	1	0	22.77	22.71	22.38		
3	16QAM	1	8	22.46	22.66	22.22		
3	16QAM	1	14	22.99	22.34	22.15	22.5	2
3	16QAM	8	0	21.32	21.29	21.31		
3	16QAM	8	4	21.38	21.41	21.25		
3	16QAM	8	7	21.24	21.25	21.12	22.5	2
3	16QAM	15	0	21.45	21.27	21.12		
3	64QAM	1	0	21.63	21.57	21.68		
3	64QAM	1	8	21.20	21.50	21.66	22.5	2
3	64QAM	1	14	20.91	21.65	21.69		
3	64QAM	8	0	20.43	20.39	20.37		
3	64QAM	8	4	20.33	20.34	20.35	21.5	3
3	64QAM	8	7	20.34	20.37	20.37		
3	64QAM	15	0	20.35	20.25	20.22		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	23.21	23.26	23.29	24.5	0
1.4	QPSK	1	3	23.16	23.21	23.14		
1.4	QPSK	1	5	22.98	23.07	22.90		
1.4	QPSK	3	0	23.29	23.32	23.28	23.5	1
1.4	QPSK	3	1	23.13	23.29	23.17		
1.4	QPSK	3	3	23.09	23.04	22.97		
1.4	QPSK	6	0	22.24	22.22	22.25	23.5	1
1.4	16QAM	1	0	22.26	22.28	22.26		
1.4	16QAM	1	3	22.17	22.22	22.17		
1.4	16QAM	1	5	22.21	22.14	22.13	22.5	2
1.4	16QAM	3	0	22.37	22.53	22.54		
1.4	16QAM	3	1	22.52	22.46	22.51		
1.4	16QAM	3	3	22.30	22.36	22.26	22.5	2
1.4	64QAM	6	0	21.19	21.32	21.33		
1.4	64QAM	1	0	21.29	21.33	21.18		
1.4	64QAM	1	3	21.11	21.23	21.21	22.5	2
1.4	64QAM	1	5	21.24	21.29	21.20		
1.4	64QAM	3	0	21.28	21.48	21.48		
1.4	64QAM	3	1	21.24	21.45	21.45	21.5	3
1.4	64QAM	3	3	21.24	21.39	21.28		
1.4	64QAM	6	0	20.18	20.27	20.27		



Band 38_Ant 13									
BW (MHz)	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)				37650	38000	38150			
20	QPSK	1	0	23.04	23.09	23.10			
20	QPSK	1	49	22.97	23.07	22.91	24	0	
20	QPSK	1	99	22.98	23.00	22.98			
20	QPSK	50	0	22.50	22.56	22.40			
20	QPSK	50	24	22.49	22.46	22.31	23.5	0.5	
20	QPSK	50	50	22.41	22.48	22.36			
20	QPSK	100	0	22.49	22.52	22.36			
20	16QAM	1	0	22.51	22.56	22.52			
20	16QAM	1	49	22.74	22.77	22.73	23.5	0.5	
20	16QAM	1	99	22.50	22.50	22.48			
20	16QAM	50	0	21.36	21.40	21.35			
20	16QAM	50	24	21.55	21.51	21.60	22.5	1.5	
20	16QAM	50	50	21.65	21.66	21.64			
20	16QAM	100	0	21.61	21.57	21.62			
20	64QAM	1	0	21.30	21.22	21.23			
20	64QAM	1	49	21.53	21.49	21.52	22.5	1.5	
20	64QAM	1	99	21.36	21.43	21.43			
20	64QAM	50	0	20.57	20.58	20.56			
20	64QAM	50	24	20.54	20.53	20.55	21.5	2.5	
20	64QAM	50	50	20.73	20.70	20.73			
20	64QAM	100	0	20.43	20.46	20.45			
Channel									
Frequency (MHz)				37625	38000	38175			
15	QPSK	1	0	23.02	22.99	23.02	24	0	
15	QPSK	1	37	23.04	23.05	23.05			
15	QPSK	1	74	22.91	22.95	22.91			
15	QPSK	36	0	22.50	22.49	22.54			
15	QPSK	36	20	22.45	22.39	22.43	23.5	0.5	
15	QPSK	36	39	22.43	22.39	22.51			
15	QPSK	75	0	22.48	22.42	22.51			
15	16QAM	1	0	22.47	22.47	22.50			
15	16QAM	1	37	22.68	22.70	22.75	23.5	0.5	
15	16QAM	1	74	22.49	22.45	22.44			
15	16QAM	36	0	21.35	21.38	21.35			
15	16QAM	36	20	21.50	21.47	21.45	22.5	1.5	
15	16QAM	36	39	21.58	21.58	21.58			
15	16QAM	75	0	21.49	21.53	21.52			
15	64QAM	1	0	21.12	21.16	21.19			
15	64QAM	1	37	21.42	21.40	21.48	22.5	1.5	
15	64QAM	1	74	21.35	21.36	21.40			
15	64QAM	36	0	20.57	20.58	20.51			
15	64QAM	36	20	20.44	20.46	20.50	21.5	2.5	
15	64QAM	36	39	20.69	20.61	20.65			
15	64QAM	75	0	20.44	20.40	20.45			
Channel									
Frequency (MHz)				37800	38000	38200			
10	QPSK	1	0	23.04	22.99	23.03	24	0	
10	QPSK	1	25	23.05	23.04	23.02			
10	QPSK	1	49	22.97	22.92	22.97			
10	QPSK	25	0	22.50	22.50	22.55			
10	QPSK	25	12	22.38	22.36	22.45	23.5	0.5	
10	QPSK	25	25	22.38	22.45	22.39			
10	QPSK	50	0	22.50	22.49	22.48			
10	QPSK	1	0	22.52	22.52	22.52			
10	16QAM	1	25	22.74	22.69	22.73	23.5	0.5	
10	16QAM	1	49	22.45	22.44	22.41			
10	16QAM	25	0	21.38	21.33	21.35			
10	16QAM	25	12	21.43	21.47	21.45	22.5	1.5	
10	16QAM	25	25	21.64	21.59	21.58			
10	16QAM	50	0	21.51	21.53	21.53			
10	64QAM	1	0	21.15	21.15	21.19			
10	64QAM	1	25	21.45	21.40	21.47	22.5	1.5	
10	64QAM	1	49	21.35	21.34	21.42			
10	64QAM	25	0	20.54	20.49	20.57			
10	64QAM	25	12	20.46	20.50	20.52	21.5	2.5	
10	64QAM	25	25	20.62	20.65	20.63			
10	64QAM	50	0	20.45	20.38	20.45			
Channel									
Frequency (MHz)				37775	38000	38225			
5	QPSK	1	0	23.02	23.07	23.07	24	0	
5	QPSK	1	12	23.02	23.01	22.99			
5	QPSK	1	24	22.94	22.91	22.95			
5	QPSK	12	0	22.47	22.53	22.52			
5	QPSK	12	7	22.39	22.43	22.37	23.5	0.5	
5	QPSK	12	13	22.41	22.40	22.42			
5	QPSK	25	0	22.48	22.43	22.48			
5	16QAM	1	0	22.53	22.51	22.46			
5	16QAM	1	12	22.69	22.68	22.72	23.5	0.5	
5	16QAM	1	24	22.43	22.41	22.41			
5	16QAM	12	0	21.31	21.30	21.32			
5	16QAM	12	7	21.48	21.43	21.48	22.5	1.5	
5	16QAM	12	13	21.62	21.56	21.59			
5	16QAM	25	0	21.48	21.48	21.52			
5	64QAM	1	0	21.20	21.19	21.12			
5	64QAM	1	12	21.43	21.43	21.43	22.5	1.5	
5	64QAM	1	24	21.34	21.34	21.35			
5	64QAM	12	0	20.52	20.55	20.52			
5	64QAM	12	7	20.50	20.49	20.48	21.5	2.5	
5	64QAM	12	13	20.64	20.65	20.66			
5	64QAM	25	0	20.41	20.45	20.37			

Band 38_Ant 31									
BW (MHz)	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			
20	QPSK	1	0	23.42	23.65	23.58			
20	QPSK	1	49	23.43	23.46	23.57	24.5	0	
20	QPSK	1	99	23.44	23.56	23.52			
20	QPSK	50	0	22.70	22.79	22.73			
20	QPSK	50	24	22.66	22.62	22.62	23.5	1	
20	QPSK	50	50	22.54	22.62	22.58			
20	QPSK	100	0	22.71	22.77	22.52			
20	16QAM	1	0	22.71	22.42	22.43			
20	16QAM	1	49	22.85	22.81	22.73	23.5	1	
20	16QAM	1	99	22.54	23.03	22.84			
20	16QAM	50	0	21.57	21.46	21.43			
20	16QAM	50	24	21.80	21.61	21.70	22.5	2	
20	16QAM	50	50	21.72	21.74	21.73			
20	16QAM	100	0	21.65	21.62	21.62			
20	64QAM	1	0	21.82	22.01	21.13			
20	64QAM	1	49	21.52	21.87	21.65	22.5	2	
20	64QAM	1	99	21.69	21.72	21.52			
20	64QAM	50	0	20.57	20.52	20.55			
20	64QAM	50	24	20.67	20.58	20.69	21.5	3	
20	64QAM	50	50	20.78	20.84	20.71			
20	64QAM	100	0	20.76	20.60	20.49			
Channel									
Frequency (MHz)				37825	38000	38175			
15	QPSK	1	0	23.37	23.50	23.56	24.5	0	
15	QPSK	1	37	23.30	23.31	23.56			
15	QPSK	1	74	23.30	23.47	23.43			
15	QPSK	36	0	22.54	22.66	22.63			
15	QPSK	36	20	22.52	22.51	22.61	23.5	1	
15	QPSK	36	39	22.49	22.54	22.52			
15	QPSK	75	0	22.60	22.63	22.48			
15	16QAM	1	0	22.57	22.30	22.31			
15	16QAM	1	37	22.83	22.71	22.83	23.5	1	
15	16QAM	1	74	22.47	22.87	22.83			
15	16QAM	36	0	21.47	21.45	21.35			
15	16QAM	36	20	21.69	21.67	21.62	22.5	2	
15	16QAM	36	39	21.63	21.73	21.65			
15	16QAM	75	0	21.58	21.58	21.61			
15	64QAM	1	0	21.67	21.93	21.09			
15	64QAM	1	37	21.38	21.75	21.59	22.5	2	
15	64QAM	1	74	21.69	21.67	21.62			
15	64QAM	36	0	20.46	20.47	20.42			
15	64QAM	36	20	20.59	20.53	20.58	21.5	3	
15	64QAM	36	39	20.71	20.69	20.66			
15	64QAM	75	0	20.65	20.50	20.40			
Channel									
Frequency (MHz)				37800	38000	38200			
10	QPSK	1	0	23.78	23.95	23.95			



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2501	2544	2587	2630	2673		
20	QPSK	1	0	23.14	23.17	23.21	23.12	23.15	24	0
20	QPSK	1	49	23.08	23.11	23.12	23.06	23.08		
20	QPSK	1	99	23.07	23.07	23.13	23.08	23.08		
20	QPSK	50	0	22.59	22.58	22.63	22.58	22.62	23.5	0.5
20	QPSK	50	24	22.59	22.57	22.53	22.54	22.57		
20	QPSK	50	49	21.51	21.57	21.51	21.51	21.54		
20	QPSK	100	0	22.51	22.51	22.58	22.57	22.52	22.5	1.5
20	QPSK	100	0	22.52	22.52	22.60	22.52	22.54		
20	16QAM	1	49	22.58	22.51	22.58	22.55	22.55	23.5	0.5
20	16QAM	1	99	22.56	22.53	22.55	22.52	22.52		
20	16QAM	50	0	21.51	21.49	21.56	21.48	21.56	22.5	1.5
20	16QAM	50	24	21.51	21.49	21.56	21.48	21.56		
20	16QAM	100	0	21.49	21.52	21.54	21.56	21.61	22.5	1.5
20	16QAM	100	0	21.53	21.55	21.53	21.48	21.60		
20	16QAM	100	0	21.57	21.57	21.59	21.49	21.56		
20	16QAM	100	0	21.58	21.54	21.57	21.48	21.61	22.5	1.5
20	16QAM	100	0	21.56	21.56	21.58	21.49	21.56		
20	16QAM	50	0	20.56	20.55	20.58	20.48	20.60	21.5	2.5
20	16QAM	50	24	20.58	20.52	20.60	20.53	20.53		
20	16QAM	50	49	20.58	20.50	20.55	20.54	20.60		
20	16QAM	100	0	20.55	20.48	20.52	20.50	20.59	21.5	2.5
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2501.5	2545.5	2593	2637.5	2685.5		
15	QPSK	1	0	23.19	23.18	23.11	23.12	23.20	24	0
15	QPSK	1	37	23.02	23.03	23.10	23.03	23.09		
15	QPSK	1	74	23.04	23.11	23.07	23.05	23.04		
15	QPSK	36	0	22.55	22.59	22.61	22.56	22.61	23.5	0.5
15	QPSK	36	20	22.43	22.48	22.46	22.49	22.50		
15	QPSK	36	39	22.51	22.52	22.57	22.52	22.56		
15	QPSK	75	0	22.57	22.58	22.59	22.58	22.59	23.5	0.5
15	16QAM	1	0	22.58	22.58	22.51	22.50	22.51	23.5	0.5
15	16QAM	1	37	22.51	22.57	22.50	22.48	22.56		
15	16QAM	1	74	22.50	22.54	22.50	22.49	22.48	22.5	1.5
15	16QAM	36	0	21.46	21.47	21.48	21.44	21.43	22.5	1.5
15	16QAM	36	20	21.50	21.52	21.56	21.57	21.46		
15	16QAM	36	39	21.53	21.51	21.46	21.48	21.45		
15	16QAM	75	0	21.46	21.50	21.45	21.44	21.47	22.5	1.5
15	16QAM	75	0	21.49	21.51	21.54	21.53	21.55		
15	16QAM	1	37	21.55	21.47	21.48	21.51	21.55	22.5	1.5
15	16QAM	1	74	21.50	21.48	21.46	21.51	21.46		
15	16QAM	36	0	20.52	20.54	20.53	20.51	20.53	21.5	2.5
15	16QAM	36	20	20.55	20.50	20.54	20.58	20.59		
15	16QAM	36	39	20.47	20.46	20.49	20.51	20.51		
15	16QAM	75	0	20.47	20.51	20.44	20.46	20.43	21.5	2.5
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.14	23.14	23.16	23.16	23.20	24	0
10	QPSK	1	25	23.09	23.03	23.11	23.06	23.06		
10	QPSK	1	49	23.04	23.12	23.12	23.04	23.11		
10	QPSK	25	0	22.56	22.55	22.62	22.61	22.62	23.5	0.5
10	QPSK	25	12	22.50	22.51	22.46	22.48	22.43		
10	QPSK	25	25	22.56	22.56	22.55	22.54	22.56		
10	QPSK	50	0	22.54	22.51	22.55	22.51	22.54	23.5	0.5
10	16QAM	1	0	22.53	22.50	22.52	22.52	22.51	23.5	0.5
10	16QAM	1	25	22.53	22.53	22.53	22.53	22.49		
10	16QAM	1	49	22.47	22.45	22.51	22.51	22.48	22.5	1.5
10	16QAM	25	0	21.42	21.47	21.50	21.48	21.42	22.5	1.5
10	16QAM	25	12	21.46	21.57	21.58	21.51	21.52		
10	16QAM	25	25	21.46	21.44	21.52	21.52	21.47		
10	16QAM	50	0	21.48	21.52	21.44	21.47	21.50	22.5	1.5
10	16QAM	1	0	21.54	21.51	21.57	21.57	21.51	22.5	1.5
10	16QAM	1	25	21.52	21.51	21.56	21.53	21.48		
10	16QAM	1	49	21.51	21.52	21.46	21.51	21.48	21.5	2.5
10	16QAM	25	0	20.54	20.50	20.55	20.55	20.51	21.5	2.5
10	16QAM	25	12	20.53	20.52	20.50	20.57	20.52		
10	16QAM	25	25	20.47	20.50	20.47	20.53	20.45		
10	16QAM	50	0	20.50	20.49	20.42	20.46	20.51	21.5	2.5
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.18	23.14	23.20	23.17	23.18	24	0
5	QPSK	1	12	23.02	23.04	23.11	23.06	23.07		
5	QPSK	1	24	23.07	23.08	23.03	23.09	23.06		
5	QPSK	12	0	22.61	22.61	22.57	22.59	22.54	23.5	0.5
5	QPSK	12	7	22.44	22.49	22.50	22.46	22.50		
5	QPSK	12	13	22.50	22.51	22.53	22.56	22.51	23.5	1
5	QPSK	25	0	22.54	22.53	22.53	22.52	22.49	23.5	1
5	16QAM	1	0	22.53	22.55	22.53	22.57	22.55	23.5	0.5
5	16QAM	1	12	22.55	22.50	22.49	22.51	22.53		
5	16QAM	1	24	22.47	22.47	22.46	22.50	22.50	23.5	1
5	16QAM	12	0	21.48	21.48	21.46	21.45	21.50	22.5	1.5
5	16QAM	12	7	21.58	21.52	21.53	21.55	21.49		
5	16QAM	12	13	21.46	21.53	21.44	21.48	21.49	22.5	1.5
5	16QAM	25	0	21.51	21.45	21.44	21.47	21.43	22.5	1.5
5	16QAM	1	0	21.58	21.53	21.57	21.57	21.53	22.5	1.5
5	16QAM	1	12	21.51	21.49	21.48	21.50	21.49	22.5	1.5
5	16QAM	1	24	21.47	21.48	21.48	21.44	21.51	21.5	2.5
5	16QAM	12	0	20.48	20.54	20.54	20.55	20.54	21.5	2.5
5	16QAM	12	7	20.52	20.58	20.58	20.52	20.57		
5	16QAM	12	13	20.53	20.50	20.46	20.54	20.46	21.5	2.5
5	16QAM	25	0	20.44	20.43	20.44	20.40	20.42		

Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2501	2547	2593	2639	2685		
20	QPSK	1	0	23.26	23.26	23.22	23.20	23.21	24.5	0
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49		
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56		
20	QPSK	50	0	22.60	22.66	22.70	22.57	22.66	23.5	1
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51		
20	QPSK	50	49	21.41	21.52	21.58	21.55	21.60	23.5	1
20	QPSK	100	0	22.47	22.61	22.69	22.45	22.52	22.5	1.5
20	16QAM	1	0	22.06	22.54	22.51	22.28	22.48	23.5	1
20	16QAM	1	49	22.31	22.63	22.58	22.37	22.23		
20	16QAM	1	99	22.31	22.33	22.80	22.42	22.55		
20	16QAM	50	0	21.41	21.52	21.58	21.54	21.60	22.5	1.5
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58		
20	16QAM	100	0	21.51	21.48	21.69	21.52	21.67	22.5	2
20	16QAM	100	0	21.51	21.48	21.63	21.31	21.54		
20	16QAM	100	0	21.27	21.57	21.35	21.88	21.35	22.5	2
20	16QAM	100	0	21.45	21.50	21.43	21.51	21.30	22.5	2
20	16QAM	100	0	21.59	21.57	21.78	21.34	2		



Reduced Power Mode for DSI5

GSM850_Ant 13	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame-Average Power (dBm)			Time-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	524.2	536.4	548.6	524.2	536.4	548.6	524.2	536.4
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
GSM 1 Tx slot	32.85	32.92	32.78	33.50	23.65	23.92	23.78	24.50
GPRS/EDGE GMSK 1 Tx slot	32.83	32.90	32.74	33.50	23.63	23.90	23.74	24.50
GPRS/EDGE GMSK 2 Tx slots	30.33	30.53	30.45	31.50	24.33	24.53	24.45	25.50
GPRS/EDGE GMSK 3 Tx slots	28.38	28.89	28.01	29.50	24.10	24.63	23.75	25.24
GPRS/EDGE GMSK 4 Tx slots	27.17	27.40	27.22	28.00	24.17	24.40	24.22	25.00
EDGE BPSK 1 Tx slot	26.86	26.79	26.80	28.00	17.86	17.79	17.80	19.00
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	28.00	16.12	16.01	16.02	20.00
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74
EDGE BPSK 4 Tx slots	21.52	21.56	21.63	22.50	18.52	18.56	18.63	19.50

GSM850_Ant 31	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame-Average Power (dBm)			Time-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	524.2	536.4	548.6	524.2	536.4	548.6	524.2	536.4
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
GSM 1 Tx slot	32.60	32.95	32.74	33.50	23.60	23.95	23.74	24.50
GPRS/EDGE GMSK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50
GPRS/EDGE GMSK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50
GPRS/EDGE GMSK 3 Tx slots	27.80	28.85	28.62	29.50	23.34	24.59	24.36	25.24
GPRS/EDGE GMSK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	28.00	17.89	17.83	17.80	19.00
EDGE BPSK 2 Tx slots	24.98	24.81	25.01	28.00	16.99	16.81	17.01	20.00
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74
EDGE BPSK 4 Tx slots	21.63	21.38	21.56	22.50	18.63	18.38	18.56	19.50

GSM1800_Ant 13	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame-Average Power (dBm)			Time-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	28.33	28.27	28.37	29.00	19.33	19.27	19.37	20.00
GPRS/EDGE GMSK 1 Tx slot	28.31	28.26	28.35	29.00	19.31	19.26	19.35	20.00
GPRS/EDGE GMSK 2 Tx slots	25.32	25.35	25.36	27.00	19.32	19.35	19.36	21.00
GPRS/EDGE GMSK 3 Tx slots	23.62	23.74	23.53	25.00	19.36	19.48	19.27	20.74
GPRS/EDGE GMSK 4 Tx slots	22.23	22.33	22.16	23.50	19.23	19.33	19.16	20.50
EDGE BPSK 1 Tx slot	26.12	26.38	26.01	27.00	17.12	17.39	17.01	18.00
EDGE BPSK 2 Tx slots	24.30	24.24	24.36	25.00	18.30	18.24	18.36	19.00
EDGE BPSK 3 Tx slots	22.37	22.31	22.30	23.00	18.11	18.05	18.04	18.74
EDGE BPSK 4 Tx slots	20.56	20.51	20.52	21.50	17.56	17.51	17.52	18.50

GSM1800_Ant 31	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame-Average Power (dBm)			Time-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	29.37	29.40	29.33	30.00	20.37	20.40	20.33	21.00
GPRS/EDGE GMSK 1 Tx slot	29.34	29.36	29.30	30.00	20.34	20.36	20.30	21.00
GPRS/EDGE GMSK 2 Tx slots	26.56	26.58	26.55	28.00	20.56	20.58	20.55	22.00
GPRS/EDGE GMSK 3 Tx slots	24.60	24.63	24.58	26.00	20.34	20.37	20.32	21.74
GPRS/EDGE GMSK 4 Tx slots	23.38	23.42	23.36	24.50	20.38	20.42	20.36	21.50
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	16.91	16.96	17.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00
EDGE BPSK 3 Tx slots	22.18	22.17	22.35	23.00	17.92	17.91	18.09	18.74
EDGE BPSK 4 Tx slots	20.64	20.57	20.56	21.50	17.64	17.57	17.56	18.50

Band	WCDMA II_Ant 13			Time-up Limit (dBm)	WCDMA II_Ant 31			Time-up Limit (dBm)
	5262	9400	9538		5262	9400	9538	
TX Channel	1862	1860	1868	1862	1860	1868	1862	1860
Frequency (MHz)	1852.4	1860	1867.6	1852.4	1860	1867.6	1852.4	1860
3GPP Rel 99 AMR 12.2Kbps	20.45	20.46	20.43	21.00	20.41	20.42	20.36	21.00
3GPP Rel 99 RMC 12.2Kbps	20.46	20.45	20.46	21.00	20.41	20.44	20.39	21.00
3GPP Rel 6 HSDPA Subtest-1	19.39	19.31	19.31	20.50	19.33	19.35	19.28	20.50
3GPP Rel 6 HSDPA Subtest-2	19.36	19.35	19.31	20.50	19.43	19.37	19.33	20.50
3GPP Rel 6 HSDPA Subtest-3	19.92	19.81	19.81	20.00	19.97	19.76	19.90	20.00
3GPP Rel 6 HSDPA Subtest-4	19.92	19.80	19.84	20.00	19.90	19.81	19.90	20.00
3GPP Rel 8 DC-HSDPA Subtest-1	19.23	19.15	19.19	20.50	19.36	19.28	19.19	20.50
3GPP Rel 8 DC-HSDPA Subtest-2	19.33	19.19	19.16	20.50	19.34	19.27	19.26	20.50
3GPP Rel 8 DC-HSDPA Subtest-3	18.67	18.78	18.66	20.00	18.71	18.64	18.73	20.00
3GPP Rel 8 DC-HSDPA Subtest-4	18.77	18.78	18.78	20.00	18.94	18.75	18.76	20.00
3GPP Rel 6 HSUPA Subtest-1	19.38	19.33	19.29	20.50	19.40	19.41	19.36	20.50
3GPP Rel 6 HSUPA Subtest-2	17.30	17.29	17.44	18.50	17.36	17.40	17.36	18.50
3GPP Rel 6 HSUPA Subtest-3	18.31	18.39	18.35	19.50	18.29	18.33	18.33	19.50
3GPP Rel 6 HSUPA Subtest-4	17.38	17.40	17.34	18.50	17.32	17.34	17.29	18.50
3GPP Rel 6 HSUPA Subtest-5	19.33	19.33	19.33	20.50	19.40	19.34	19.28	20.50
3GPP Rel 7 HSPA+(16QAM) Subtest-1	18.28	18.29	18.28	19.50	18.31	18.50	18.28	19.50

Band	WCDMA II_Ant 13			Time-up Limit (dBm)	WCDMA II_Ant 31			Time-up Limit (dBm)
	1312	1413	1513		1312	1413	1513	
TX Channel	1557	1638	1739	1557	1638	1739	1557	1638
Frequency (MHz)	1712.4	1732.8	1752.4	1712.4	1732.8	1752.4	1712.4	1732.8
3GPP Rel 99 AMR 12.2Kbps	21.39	21.46	21.43	22.00	20.85	20.86	20.82	21.50
3GPP Rel 99 RMC 12.2Kbps	21.40	21.49	21.45	22.00	20.87	20.89	20.85	21.50
3GPP Rel 6 HSDPA Subtest-1	20.30	20.50	20.44	21.50	19.90	20.05	19.94	21.00
3GPP Rel 6 HSDPA Subtest-2	20.34	20.52	20.36	21.50	19.87	20.00	19.96	21.00
3GPP Rel 6 HSDPA Subtest-3	19.72	19.96	19.94	21.00	19.39	19.51	19.50	20.50
3GPP Rel 6 HSDPA Subtest-4	19.85	19.96	19.89	21.00	19.47	19.53	19.46	20.50
3GPP Rel 8 DC-HSDPA Subtest-1	20.34	20.39	20.35	21.50	19.94	19.83	19.82	21.00
3GPP Rel 8 DC-HSDPA Subtest-2	20.27	20.30	20.33	21.50	19.78	19.98	19.90	21.00
3GPP Rel 8 DC-HSDPA Subtest-3	19.78	19.83	19.82	21.00	19.41	19.49	19.48	20.50
3GPP Rel 8 DC-HSDPA Subtest-4	19.82	19.98	19.87	21.00	19.33	19.54	19.42	20.50
3GPP Rel 6 HSUPA Subtest-1	20.35	20.51	20.39	21.50	19.89	20.07	19.97	21.00
3GPP Rel 6 HSUPA Subtest-2	18.38	18.42	18.50	19.50	17.95	17.98	17.83	19.00
3GPP Rel 6 HSUPA Subtest-3	19.46	19.48	19.42	20.50	18.79	18.99	18.95	20.00
3GPP Rel 6 HSUPA Subtest-4	18.42	18.55	18.42	19.50	17.80	18.08	17.96	19.00
3GPP Rel 6 HSUPA Subtest-5	20.36	20.46	20.50	21.50	19.91	20.03	19.99	21.00
3GPP Rel 7 HSPA+(16QAM) Subtest-1	19.51	19.50	19.43	20.50	18.90	19.03	19.03	20.00

Band	WCDMA IV_Ant 13			Time-up Limit (dBm)	WCDMA IV_Ant 31			Time-up Limit (dBm)
	4152	4162	4233		4152	4162	4233	
TX 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	24.33	24.38	24.36	25.00	24.25	24.37	24.35	25.00
3GPP Rel 99 RMC 12.2Kbps	24.35	24.40	24.37	25.00	24.27	24.39	24.38	25.00
3GPP Rel 6 HSDPA Subtest-1	23.52	23.61	23.58	24.50	23.46	23.53	23.57	24.50
3GPP Rel 6 HSDPA Subtest-2	23.54	23.57	23.59	24.50	23.47	23.54	23.54	24.50
3GPP Rel 6 HSDPA Subtest-3	22.99	23.08	23.08	24.00	22.94	22.97	23.10	24.00
3GPP Rel 6 HSDPA Subtest-4	23.02	23.09	23.08	24.00	22.94	23.00	23.05	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	23.39	23.54	23.55	24.50	23.45	23.47	23.56	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	23.50	23.41	23.48	24.50	23.45	23.47	23.53	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	22.97	22.96	23.00	24.00	22.83	22.86	22.95	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	22.99	22.96	22.99	24.00	22.81	22.85	23.04	24.00
3GPP Rel 6 HSUPA Subtest-1	23.52	23.55	23.60	24.50	23.46	23.55	23.57	24.50
3GPP Rel 6 HSUPA Subtest-2	21.54	21.59	21.59	22.50	21.50	21.51	21.51	22.50
3GPP Rel 6 HSUPA Subtest-3	22.99	22.97	22.97	23.50	22.47	22.51	22.53	23.50
3GPP Rel 6 HSUPA Subtest-4	21.56	21.59	21.58	23.00	21.52	21.47	21.58	23.00
3GPP Rel 6 HSUPA Subtest-5	23.60	23.60	23.60	24.50	23.50	23.60	23.50	24.50
3GPP Rel 7 HSPA+(16QAM) Subtest-1	22.66	22.67	22.64	23.50	22.51	2		



Band 2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Mod / Freq	Power Hsp Ch / Freq	Turn-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.52	19.71	19.53	20.5	0	
20	QPSK	1	49	19.54	19.93	19.93	20.5	0	
20	QPSK	1	99	19.59	19.99	19.93	20.5	0	
20	QPSK	50	0	19.52	19.62	19.53	20.5	0	
20	QPSK	50	24	19.56	19.86	19.50	20.5	0	
20	QPSK	50	50	19.55	19.80	19.50	20.5	0	
20	QPSK	100	0	19.52	19.60	19.45	20.5	0	
20	16QAM	1	0	19.53	19.60	19.45	20.5	0	
20	16QAM	1	49	19.54	19.93	19.93	20.5	0	
20	16QAM	1	99	19.51	19.54	19.45	20.5	0	
20	16QAM	50	0	19.55	19.56	19.49	20.5	0	
20	16QAM	50	24	19.48	19.86	19.45	20.5	0	
20	16QAM	50	50	19.46	19.60	19.50	20.5	0	
20	16QAM	100	0	19.50	19.59	19.48	20.5	0	
20	16QAM	100	0	19.53	19.54	19.45	20.5	0	
20	16QAM	100	49	19.53	19.57	19.50	20.5	0	
20	16QAM	100	99	19.54	19.52	19.46	20.5	0	
20	64QAM	50	0	19.49	19.59	19.50	20.5	0	
20	64QAM	50	24	19.48	19.86	19.49	20.5	0	
20	64QAM	50	50	19.50	19.55	19.47	20.5	0	
20	64QAM	100	0	19.53	19.53	19.52	20.5	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.67	19.60	19.62	20.5	0	
15	QPSK	1	37	19.63	19.57	19.61	20.5	0	
15	QPSK	1	74	19.63	19.66	19.63	20.5	0	
15	QPSK	36	0	19.52	19.54	19.53	20.5	0	
15	QPSK	36	18	19.54	19.45	19.47	20.5	0	
15	QPSK	36	39	19.59	19.54	19.49	20.5	0	
15	QPSK	75	0	19.59	19.56	19.58	20.5	0	
15	16QAM	1	0	19.54	19.49	19.54	20.5	0	
15	16QAM	1	37	19.50	19.53	19.53	20.5	0	
15	16QAM	1	74	19.48	19.48	19.49	20.5	0	
15	16QAM	36	0	19.55	19.55	19.51	20.5	0	
15	16QAM	36	18	19.54	19.49	19.45	20.5	0	
15	16QAM	36	39	19.57	19.50	19.52	20.5	0	
15	16QAM	75	0	19.52	19.53	19.56	20.5	0	
15	16QAM	75	18	19.48	19.49	19.45	20.5	0	
15	64QAM	1	37	19.49	19.53	19.51	20.5	0	
15	64QAM	1	74	19.45	19.42	19.47	20.5	0	
15	64QAM	36	0	19.55	19.57	19.49	20.5	0	
15	64QAM	36	18	19.51	19.51	19.49	20.5	0	
15	64QAM	36	39	19.47	19.45	19.54	20.5	0	
15	64QAM	75	0	19.51	19.48	19.46	20.5	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.85	19.70	19.68	20.5	0	
10	QPSK	1	25	19.59	19.54	19.63	20.5	0	
10	QPSK	1	49	19.59	19.67	19.67	20.5	0	
10	QPSK	1	74	19.54	19.60	19.59	20.5	0	
10	QPSK	25	12	19.47	19.46	19.44	20.5	0	
10	QPSK	25	25	19.54	19.59	19.52	20.5	0	
10	QPSK	50	0	19.54	19.59	19.52	20.5	0	
10	16QAM	1	25	19.56	19.57	19.53	20.5	0	
10	16QAM	1	49	19.50	19.46	19.49	20.5	0	
10	16QAM	1	74	19.48	19.48	19.54	20.5	0	
10	16QAM	25	12	19.48	19.48	19.55	20.5	0	
10	16QAM	25	25	19.50	19.56	19.50	20.5	0	
10	16QAM	50	0	19.57	19.47	19.50	20.5	0	
10	16QAM	50	25	19.51	19.47	19.53	20.5	0	
10	16QAM	100	0	19.47	19.52	19.51	20.5	0	
10	16QAM	100	25	19.48	19.45	19.51	20.5	0	
10	16QAM	100	49	19.48	19.45	19.51	20.5	0	
10	64QAM	1	25	19.57	19.57	19.51	20.5	0	
10	64QAM	25	12	19.48	19.48	19.55	20.5	0	
10	64QAM	25	25	19.53	19.51	19.52	20.5	0	
10	64QAM	50	0	19.44	19.44	19.49	20.5	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.82	19.68	19.66	20.5	0	
5	QPSK	1	12	19.59	19.56	19.67	20.5	0	
5	QPSK	1	24	19.58	19.69	19.67	20.5	0	
5	QPSK	12	0	19.56	19.60	19.53	20.5	0	
5	QPSK	12	7	19.46	19.52	19.44	20.5	0	
5	QPSK	12	13	19.52	19.52	19.59	20.5	0	
5	16QAM	1	0	19.51	19.59	19.61	20.5	0	
5	16QAM	1	12	19.53	19.54	19.62	20.5	0	
5	16QAM	1	24	19.51	19.61	19.67	20.5	0	
5	16QAM	12	0	19.54	19.48	19.50	20.5	0	
5	16QAM	12	7	19.54	19.54	19.52	20.5	0	
5	16QAM	12	13	19.53	19.58	19.51	20.5	0	
5	16QAM	25	0	19.51	19.51	19.49	20.5	0	
5	16QAM	25	12	19.44	19.48	19.48	20.5	0	
5	64QAM	1	12	19.51	19.47	19.50	20.5	0	
5	64QAM	1	24	19.48	19.51	19.56	20.5	0	
5	64QAM	12	7	19.60	19.55	19.55	20.5	0	
5	64QAM	12	13	19.53	19.52	19.45	20.5	0	
5	64QAM	25	0	19.46	19.45	19.45	20.5	0	
Channel									
Frequency (MHz)									
3	QPSK	1	0	19.61	19.61	19.62	20.5	0	
3	QPSK	1	8	19.56	19.56	19.57	20.5	0	
3	QPSK	1	14	19.69	19.59	19.65	20.5	0	
3	QPSK	8	0	19.57	19.53	19.60	20.5	0	
3	QPSK	8	4	19.50	19.44	19.44	20.5	0	
3	QPSK	15	0	19.50	19.56	19.52	20.5	0	
3	16QAM	1	0	19.51	19.52	19.53	20.5	0	
3	16QAM	1	8	19.48	19.44	19.48	20.5	0	
3	16QAM	8	0	19.52	19.50	19.50	20.5	0	
3	16QAM	8	4	19.52	19.52	19.57	20.5	0	
3	16QAM	8	7	19.58	19.51	19.57	20.5	0	
3	16QAM	15	0	19.54	19.58	19.56	20.5	0	
3	64QAM	1	0	19.44	19.44	19.48	20.5	0	
3	64QAM	1	8	19.54	19.56	19.51	20.5	0	
3	64QAM	8	0	19.48	19.51	19.43	20.5	0	
3	64QAM	8	4	19.50	19.52	19.49	20.5	0	
3	64QAM	8	7	19.48	19.51	19.46	20.5	0	
3	64QAM	15	0	19.49	19.43	19.44	20.5	0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	19.60	19.67	19.62	20.5	0	
1.4	QPSK	1	3	19.57	19.60	19.59	20.5	0	
1.4	QPSK	1	5	19.65	19.64	19.61	20.5	0	
1.4	QPSK	3	0	19.60	19.54	19.61	20.5	0	
1.4	QPSK	3	1	19.50	19.60	19.46	20.5	0	
1.4	QPSK	3	1	19.51	19.53	19.54	20.5	0	
1.4	QPSK	6	0	19.57	19.50	19.53	20.5	0	
1.4	16QAM	1	0	19.52	19.56	19.50	20.5	0	
1.4	16QAM	1	3	19.49	19.49	19.56	20.5	0	
1.4	16QAM	1	5	19.46	19.44	19.53	20.5	0	
1.4	16QAM	3	0	19.52	19.54	19.48	20.5	0	
1.4	16QAM	3	1	19.53	19.54	19.57	20.5	0	
1.4	16QAM	3	1	19.58	19.56	19.47	20.5	0	
1.4	16QAM	6	0	19.43	19.43	19.44	20.5	0	
1.4	64QAM	3	0	19.58	19.53	19.57	20.5	0	
1.4	64QAM	3	1	19.46	19.45	19.57	20.5	0	
1.4	64QAM	3	1	19.51	19.51	19.54	20.5	0	
1.4	64QAM	6	0	19.46	19.47	19.43	20.5	0	

Band 2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Mod / Freq	Power Hsp Ch / Freq	Turn-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.22	20.42	20.23	21.5	0	
20	QPSK	1	49	20.20	20.42	20.23	21.5	0	
20	QPSK	1	99	20.43	20.59	20.48	21.5	0	
20	QPSK	50	0	20.45	20.55	20.43	21.5	0	
20	QPSK	50	24	20.40	20.41	20.47	21.5	0	
20	QPSK	50	50	20.40	20.50	20.39	21.5	0	
20									



Band 4_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	1730	1732.5	1745				
20	QPSK	1	0	2045	2047.5	2060				
20	QPSK	1	99	2046	2052	2044				
20	QPSK	50	0	2045	2057	2042				
20	QPSK	15	25	2046	2048	2048				
20	QPSK	50	50	2038	2055	2041			21.5	0
20	QPSK	100	0	2032	2047	2040				
20	16QAM	1	0	2031	2049	2040				
20	16QAM	1	99	2038	2054	2033			21.5	0
20	16QAM	1	99	2033	2056	2040				
20	16QAM	50	0	2034	2054	2032				
20	16QAM	50	24	2036	2050	2038			21.5	0
20	16QAM	50	50	2031	2050	2041				
20	16QAM	100	0	2031	2051	2041				
20	16QAM	1	0	2032	2048	2041			21.5	0
20	16QAM	1	99	2033	2052	2040				
20	16QAM	1	99	2039	2049	2033				
20	16QAM	50	0	2036	2056	2033				
20	16QAM	50	24	2038	2050	2038			21.5	0
20	16QAM	50	50	2033	2052	2037				
20	16QAM	100	0	2038	2055	2036				
Channel										
Frequency (MHz)										
15	QPSK	1	0	1717.5	1722.5	1747.5				
15	QPSK	1	0	2042	2048	2048			21.5	0
15	QPSK	1	37	2046	2042	2039				
15	QPSK	1	74	2042	2050	2048				
15	QPSK	36	0	2049	2030	2053				
15	QPSK	36	24	2043	2050	2039			21.5	0
15	QPSK	36	39	2049	2033	2048				
15	QPSK	75	0	2041	2041	2039				
15	16QAM	1	0	2042	2047	2044			21.5	0
15	16QAM	1	37	2045	2045	2047				
15	16QAM	1	74	2045	2048	2047				
15	16QAM	36	0	2030	2050	2045			21.5	0
15	16QAM	36	24	2047	2042	2044				
15	16QAM	36	39	2043	2047	2044				
15	16QAM	75	0	2045	2044	2047				
15	16QAM	1	0	2042	2047	2044			21.5	0
15	16QAM	1	37	2045	2047	2046				
15	16QAM	1	74	2046	2046	2047				
15	16QAM	36	0	2048	2049	2049			21.5	0
15	16QAM	36	24	2048	2048	2046				
15	16QAM	36	39	2045	2050	2043				
15	16QAM	75	0	2044	2046	2046				
Channel										
Frequency (MHz)										
10	QPSK	1	0	2051	2049	2051				
10	QPSK	1	25	2048	2042	2041			21.5	0
10	QPSK	1	49	2048	2050	2049				
10	QPSK	25	0	2049	2046	2050				
10	QPSK	25	12	2044	2049	2042				
10	QPSK	25	25	2051	2047	2048			21.5	0
10	QPSK	50	0	2053	2046	2048				
10	16QAM	1	0	2043	2045	2042				
10	16QAM	1	25	2050	2047	2048			21.5	0
10	16QAM	1	49	2053	2046	2054				
10	16QAM	25	0	2048	2047	2048				
10	16QAM	25	12	2047	2051	2048			21.5	0
10	16QAM	25	25	2045	2045	2044				
10	16QAM	50	0	2045	2046	2041				
10	16QAM	50	24	2047	2043	2041			21.5	0
10	16QAM	50	49	2048	2045	2051				
10	16QAM	100	0	2048	2047	2049			21.5	0
10	16QAM	1	0	2042	2047	2044				
10	16QAM	1	25	2048	2045	2051				
10	16QAM	1	49	2047	2040	2042				
10	16QAM	25	0	2048	2047	2046			21.5	0
10	16QAM	25	12	2050	2047	2047				
10	16QAM	25	25	2042	2046	2049				
10	16QAM	50	0	2049	2046	2047			21.5	0
10	16QAM	50	24	2047	2048	2049				
10	16QAM	50	49	2048	2048	2049				
Channel										
Frequency (MHz)										
5	QPSK	1	0	2048	2054	2057				
5	QPSK	1	12	2041	2044	2040			21.5	0
5	QPSK	1	25	2042	2048	2048				
5	QPSK	12	0	2051	2055	2056				
5	QPSK	12	7	2046	2047	2041				
5	QPSK	12	13	2053	2047	2051			21.5	0
5	16QAM	1	0	2048	2045	2044				
5	16QAM	1	12	2052	2050	2052			21.5	0
5	16QAM	1	25	2048	2047	2045				
5	16QAM	12	0	2052	2046	2047				
5	16QAM	12	7	2054	2048	2046			21.5	0
5	16QAM	12	13	2045	2043	2042				
5	16QAM	25	0	2048	2047	2046				
5	16QAM	25	7	2046	2046	2047			21.5	0
5	16QAM	25	12	2045	2047	2049				
5	16QAM	25	25	2048	2043	2049			21.5	0
5	16QAM	50	0	2052	2050	2048				
5	16QAM	50	12	2050	2043	2049				
5	16QAM	50	25	2046	2042	2051			21.5	0
5	16QAM	100	0	2048	2043	2049				
Channel										
Frequency (MHz)										
3	QPSK	1	0	2037	2050	2049				
3	QPSK	1	6	2047	2046	2048			21.5	0
3	QPSK	1	14	2042	2044	2048				
3	QPSK	6	0	2056	2048	2053				
3	QPSK	6	4	2041	2041	2045			21.5	0
3	QPSK	15	0	2048	2043	2037				
3	16QAM	1	0	2048	2043	2040				
3	16QAM	1	6	2053	2051	2046			21.5	0
3	16QAM	6	0	2048	2044	2044				
3	16QAM	6	4	2053	2046	2047				
3	16QAM	15	0	2048	2047	2044			21.5	0
3	16QAM	15	6	2044	2043	2046				
3	16QAM	15	14	2039	2038	2044				
3	16QAM	1	0	2050	2042	2044			21.5	0
3	16QAM	1	6	2048	2039	2046				
3	16QAM	6	0	2047	2051	2047				
3	16QAM	6	4	2045	2048	2051			21.5	0
3	16QAM	6	14	2048	2043	2049				
3	16QAM	15	0	2046	2046	2052				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	2037	2053	2054				
1.4	QPSK	1	3	2047	2047	2039			21.5	0
1.4	QPSK	1	5	2045	2042	2043				
1.4	QPSK	3	0	2052	2053	2048				
1.4	QPSK	3	1	2050	2046	2046				
1.4	QPSK	3	3	2051	2046	2048				
1.4	QPSK	6	0	2043	2044	2039			21.5	0
1.4	16QAM	1	0	2047	2045	2040				
1.4	16QAM	1	3	2047	2052	2046				
1.4	16QAM	1	5	2049	2050	2055			21.5	0
1.4	16QAM	3	0	2048	2051	2045				
1.4	16QAM	3	1	2052	2048	2047				
1.4	16QAM	3	3	2048	2044	2047				
1.4	16QAM	6	0	2049	2046	2045			21.5	0
1.4	16QAM	6	1	2045	2044	2046				
1.4	16QAM	6	3	2044	2048	2044				
1.4	16QAM	1	0	2041	2042	2040			21.5	0
1.4	16QAM	3	0	2049	2049	2048				
1.4	16QAM	3	1	2046	2047	2045				
1.4	16QAM	3	3	2046	2047	2045				
1.4	16QAM	6	0	2054	2046	2049			21.5	0

Band 5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq</					



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	21.02	21.13	21.07			22	0
20	QPSK	1	99	21.01	21.08	20.97				
20	QPSK	50	0	21.04	21.07	21.08				
20	QPSK	50	99	21.02	21.01	21.01			22	0
20	QPSK	100	0	20.97	21.02	20.98				
20	16QAM	1	0	20.94	21.04	20.99				
20	16QAM	1	99	21.00	21.01	21.00			22	0
20	16QAM	50	0	20.98	21.01	20.99				
20	16QAM	50	99	20.96	20.96	20.93			22	0
20	16QAM	100	0	20.98	21.02	20.98				
20	16QAM	100	99	20.97	20.99	21.05			22	0
20	64QAM	1	0	21.01	20.98	21.05				
20	64QAM	1	99	21.03	20.98	20.96				
20	64QAM	50	0	20.93	20.92	20.90				
20	64QAM	50	99	20.97	20.95	20.93			21	1
20	64QAM	100	0	20.93	19.97	19.97				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	21.04	21.11	21.02				
15	QPSK	1	99	20.96	20.97	21.02			22	0
15	QPSK	1	74	21.09	21.00	21.03				
15	QPSK	36	0	21.05	21.06	20.98				
15	QPSK	36	99	20.95	20.91	20.98			22	0
15	QPSK	75	0	21.00	20.93	20.95				
15	16QAM	1	0	20.98	20.99	20.97				
15	16QAM	1	99	20.96	20.99	20.97			22	0
15	16QAM	1	74	20.98	20.93	20.91				
15	16QAM	36	0	20.95	20.94	20.96				
15	16QAM	36	99	20.95	20.96	20.91			22	0
15	16QAM	75	0	20.98	21.01	20.97				
15	64QAM	1	0	20.95	20.94	20.92				
15	64QAM	1	99	20.93	20.92	20.88			22	0
15	64QAM	1	74	20.98	20.97	20.97				
15	64QAM	36	0	19.98	19.93	19.92				
15	64QAM	36	99	19.97	19.95	19.93			21	1
15	64QAM	75	0	19.93	19.94	19.93				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	21.08	21.12	21.10				
10	QPSK	1	25	20.94	20.95	20.95			22	0
10	QPSK	1	49	20.98	21.02	21.01				
10	16QAM	36	0	21.03	20.97	21.00				
10	16QAM	25	12	20.96	20.95	20.89			22	0
10	16QAM	25	25	20.97	20.96	20.99				
10	16QAM	50	0	20.96	20.92	20.97				
10	16QAM	50	99	21.01	20.94	20.98			22	0
10	16QAM	1	25	20.97	20.99	20.92				
10	16QAM	1	49	20.91	20.98	20.93				
10	16QAM	25	0	20.98	20.93	20.98			22	0
10	16QAM	25	12	20.90	20.89	20.88				
10	16QAM	25	25	20.99	20.97	20.99				
10	16QAM	50	0	20.92	21.00	20.97				
10	16QAM	50	99	20.92	20.96	20.94			22	0
10	64QAM	1	25	20.96	20.91	20.88				
10	64QAM	1	49	20.92	20.93	20.96				
10	64QAM	25	0	19.98	19.92	19.96				
10	64QAM	25	12	20.91	20.93	20.91			21	1
10	64QAM	25	25	19.91	19.99	19.92				
10	64QAM	50	0	19.92	19.98	19.92				
Channel										
Frequency (MHz)				20925	21100	21425				
5	QPSK	1	0	21.10	21.05	21.05				
5	QPSK	1	12	20.95	21.01	20.97			22	0
5	QPSK	1	24	20.98	21.00	21.06				
5	QPSK	12	0	20.97	21.00	20.97				
5	QPSK	12	7	20.95	20.95	20.94			22	0
5	QPSK	25	0	21.00	20.96	20.93				
5	16QAM	1	0	21.00	21.02	21.00				
5	16QAM	1	12	20.98	20.91	20.99			22	0
5	16QAM	1	24	20.96	20.96	20.93				
5	16QAM	12	0	21.00	20.97	20.91				
5	16QAM	12	7	20.94	20.90	20.95			22	0
5	16QAM	12	13	20.94	20.95	20.96				
5	16QAM	25	0	20.98	20.94	20.99				
5	64QAM	1	0	20.89	20.93	20.94				
5	64QAM	1	12	20.96	20.93	20.88			22	0
5	64QAM	1	24	20.92	20.92	20.97				
5	64QAM	12	0	19.98	19.99	19.98				
5	64QAM	12	7	19.96	20.02	19.97			21	1
5	64QAM	12	13	19.97	20.00	19.96				
5	64QAM	25	0	19.95	19.92	19.97				

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	19.98	19.15	19.13			20.5	0
20	QPSK	1	99	19.93	19.09	19.03				
20	QPSK	50	0	19.01	19.13	19.10				
20	QPSK	50	99	18.93	19.03	19.06			20.5	0
20	QPSK	100	0	18.94	19.05	19.04				
20	16QAM	1	0	18.94	19.08	19.02				
20	16QAM	1	99	18.98	19.09	19.09			20.5	0
20	16QAM	1	99	18.99	19.03	19.07				
20	16QAM	50	0	18.96	19.03	19.06				
20	16QAM	50	99	18.94	19.04	19.05			20.5	0
20	16QAM	100	0	18.95	19.05	19.08				
20	16QAM	100	99	18.91	19.12	19.01			20.5	0
20	64QAM	1	0	18.92	19.04	19.07				
20	64QAM	1	99	18.93	19.05	19.06				
20	64QAM	50	0	18.96	19.06	19.03				
20	64QAM	50	99	18.92	19.05	19.08			20.5	0
20	64QAM	100	0	18.91	19.12	19.08				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	19.93	19.03	19.12				
15	QPSK	1	99	19.07	19.05	19.07			20.5	0
15	QPSK	1	74	19.00	18.99	19.08				
15	QPSK	36	0	19.06	19.11	19.04				
15	QPSK	36	99	19.04	19.06	19.02			20.5	0
15	QPSK	36	36	18.98	18.97	19.00				
15	QPSK	75	0	18.95	18.96	19.00				
15	16QAM	1	0	19.01	19.08	19.01				
15	16QAM	1	99	19.02	19.01	19.08			20.5	0
15	16QAM	1	74	18.98	18.99	18.96				
15	16QAM	36	0	18.97	18.97	19.01				
15	16QAM	36	99	19.01	18.97	18.98			20.5	0
15	16QAM	36	36	18.99	18.95	18.98				
15	16QAM	75	0	18.99	18.99	19.03				
15	64QAM	1	0	19.01	19.04	18.95				
15	64QAM	1	99	19.03	19.00	19.01			20.5	0
15	64QAM	1	74	18.95	19.04	18.98				
15	64QAM	36	0	18.99	19.01	18.97				
15	64QAM	36	99	19.04	19.04	18.96			20.5	0
15	64QAM	36	36	18.99	18.95	18.95				
15	64QAM	75	0	19.03	19.04	19.05				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	19.13	19.10	19.05				
10	QPSK	1	25	19.11	19.09	19.08			20.5	0
10	QPSK	1	49	19.03	19.04	19.02				
10	16QAM	36	0	19.03	19.07	19.08				
10	16QAM	25	12	19.06	19.02	19.04			20.5	0
10	16QAM	25	25	18.96	18.96	19.01				
10	16QAM	50	0	18.95	19.01	19.00				
10	16Q									



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11					
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11					
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13					
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.98					
10	64QAM	25	25	21.12					
10	64QAM	50	0	21.06					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.98	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.86	21.89	21.85			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.98	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17					
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17					
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52					
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09					
10	64QAM	50	0	21.00					
Channel									
23205									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.85	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.83			
5	16QAM	12	7	22.00	22.05	21.83			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.84	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.16	24.21	24.20			
10	QPSK	1	25	24.15	24.07	24.15			
10	QPSK	1	49	24.02	24.15	24.11			
10	QPSK	25	0	23.23	23.30	23.20			
10	QPSK	25	12	23.24	23.18	23.18			
10	QPSK	25	25	23.20	23.20	23.18			
10	QPSK	50	0	23.28	23.29	23.26			
10	16QAM	1	0	23.50	23.58	23.32			
10	16QAM	1	25	23.30	23.18	23.33			
10	16QAM	1	49	23.32	23.34	23.36			
10	16QAM	25	0	22.17	22.08	22.17			
10	16QAM	25	12	22.31	22.23	22.22			
10	16QAM	25	25	22.35	22.38	22.32			
10	16QAM	50	0	22.21	22.12	22.23			
10	64QAM	1	0	22.30	22.67	22.24			
10	64QAM	1	25	22.62	22.79	22.12			
10	64QAM	1	49	22.52	22.61	22.49			
10	64QAM	25	0	21.25	21.23	21.15			
10	64QAM	25	12	21.39	21.28	21.30			
10	64QAM	25	25	21.28	21.17	21.21			
10	64QAM	50	0	21.30	21.11	21.07			
Channel									
23755									
Frequency (MHz)									
5	QPSK	1	0	24.03	24.15	24.11			
5	QPSK	1	12	24.04	23.98	24.14			
5	QPSK	1	24	23.93	24.14	24.07			
5	QPSK	12	0	23.16	23.16	23.07			
5	QPSK	12	7	23.21	23.12	23.17			
5	QPSK	12	13	23.19	23.13	23.09			
5	QPSK	25	0	23.18	23.18	23.23			
5	16QAM	1	0	23.41	23.48	23.17			
5	16QAM	1	12	23.17	23.04	23.27			
5	16QAM	1	24	23.47	23.18	23.48			
5	16QAM	12	0	22.14	21.95	22.13			
5	16QAM	12	7	22.16	22.20	22.18			
5	16QAM	12	13	22.29	22.28	22.28			
5	16QAM	25	0	22.13	22.06	22.11			
5	64QAM	1	0	22.28	22.53	22.12			
5	64QAM	1	12	22.54	22.77	21.97			
5	64QAM	1	24	22.36	22.50	22.36			
5	64QAM	12	0	21.12	21.16	21.02			
5	64QAM	12	7	21.32	21.19	21.02			
5	64QAM	12	13	21.14	21.10	21.17			
5	64QAM	25	0	21.15	21.03	20.95			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760									
Frequency (MHz)									
10	QPSK	1	0	24.20	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.36	23.50			
10	16QAM	1	0	23.53	23.12	23.32			
10									



Band 66_Ant 11

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.53	20.58	20.59	21.5	0
20	QPSK	1	46	20.45	20.48	20.51		
20	QPSK	1	99	20.46	20.54	20.55		
20	QPSK	90	0	20.50	20.52	20.51		
20	QPSK	50	24	20.46	20.47	20.45		
20	QPSK	50	50	20.48	20.49	20.42		
20	QPSK	100	0	20.42	20.68	20.47		
20	16QAM	1	0	20.40	20.66	20.44		
20	16QAM	1	46	20.48	20.70	20.48		
20	16QAM	1	99	20.44	20.47	20.41		
20	16QAM	90	0	20.42	20.44	20.50		
20	16QAM	50	24	20.49	20.49	20.42		
20	16QAM	50	50	20.40	20.51	20.48		
20	16QAM	100	0	20.42	20.49	20.50		
20	64QAM	1	0	20.40	20.64	20.47		
20	64QAM	1	46	20.46	20.59	20.50		
20	64QAM	1	99	20.40	20.60	20.47		
20	64QAM	90	0	20.49	20.47	20.42		
20	64QAM	50	24	20.42	20.48	20.48		
20	64QAM	50	50	20.43	20.44	20.50		
20	64QAM	100	0	20.47	20.51	20.47		
Channel								
Frequency (MHz)								
15	QPSK	1	0	20.49	20.53	20.56	21.5	0
15	QPSK	1	37	20.47	20.44	20.47		
15	QPSK	1	74	20.52	20.53	20.52		
15	QPSK	36	0	20.46	20.42	20.49		
15	QPSK	36	20	20.42	20.41	20.47		
15	QPSK	36	39	20.42	20.41	20.46		
15	QPSK	75	0	20.43	20.40	20.41		
15	16QAM	1	0	20.38	20.43	20.37		
15	16QAM	1	37	20.43	20.43	20.47		
15	16QAM	1	74	20.38	20.37	20.46		
15	16QAM	36	0	20.36	20.35	20.36		
15	16QAM	36	20	20.42	20.42	20.40		
15	16QAM	36	39	20.48	20.50	20.41		
15	16QAM	75	0	20.47	20.45	20.39		
15	64QAM	1	0	20.38	20.38	20.37		
15	64QAM	1	37	20.44	20.44	20.43		
15	64QAM	1	74	20.41	20.68	20.44		
15	64QAM	36	0	20.38	20.42	20.46		
15	64QAM	36	20	20.40	20.41	20.42		
15	64QAM	36	39	20.42	20.42	20.35		
15	64QAM	75	0	20.50	20.49	20.46		
Channel								
Frequency (MHz)								
10	QPSK	1	0	20.54	20.51	20.55	21.5	0
10	QPSK	1	25	20.41	20.47	20.47		
10	QPSK	1	49	20.49	20.47	20.50		
10	QPSK	25	0	20.42	20.47	20.43		
10	QPSK	25	12	20.41	20.44	20.45		
10	QPSK	25	25	20.44	20.40	20.47		
10	QPSK	50	0	20.43	20.38	20.44		
10	16QAM	1	0	20.39	20.43	20.40		
10	16QAM	1	25	20.44	20.47	20.43		
10	16QAM	1	49	20.42	20.39	20.40		
10	16QAM	25	0	20.39	20.41	20.40		
10	16QAM	25	12	20.41	20.47	20.41		
10	16QAM	25	25	20.49	20.49	20.44		
10	16QAM	50	0	20.42	20.47	20.39		
10	64QAM	1	0	20.41	20.42	20.34		
10	64QAM	1	25	20.41	20.42	20.41		
10	64QAM	1	49	20.40	20.43	20.43		
10	64QAM	25	0	20.46	20.42	20.38		
10	64QAM	25	12	20.41	20.39	20.40		
10	64QAM	25	25	20.37	20.43	20.35		
10	64QAM	50	0	20.42	20.47	20.44		
Channel								
Frequency (MHz)								
5	QPSK	1	0	20.52	20.55	20.54	21.5	0
5	QPSK	1	12	20.45	20.40	20.45		
5	QPSK	1	24	20.48	20.45	20.47		
5	QPSK	12	0	20.48	20.43	20.49		
5	QPSK	12	7	20.44	20.47	20.46		
5	QPSK	12	13	20.42	20.40	20.39		
5	QPSK	25	0	20.47	20.45	20.44		
5	16QAM	1	0	20.38	20.37	20.37		
5	16QAM	1	12	20.42	20.43	20.48		
5	16QAM	1	24	20.42	20.46	20.43		
5	16QAM	12	0	20.35	20.38	20.35		
5	16QAM	12	7	20.43	20.46	20.45		
5	16QAM	12	13	20.46	20.45	20.47		
5	16QAM	25	0	20.45	20.44	20.43		
5	64QAM	1	0	20.38	20.35	20.42		
5	64QAM	1	12	20.43	20.44	20.41		
5	64QAM	1	24	20.40	20.43	20.44		
5	64QAM	12	0	20.38	20.38	20.45		
5	64QAM	12	7	20.38	20.43	20.47		
5	64QAM	12	13	20.38	20.37	20.38		
5	64QAM	25	0	20.44	20.41	20.44		
Channel								
Frequency (MHz)								
3	QPSK	1	0	20.55	20.51	20.53	21.5	0
3	QPSK	1	8	20.42	20.44	20.39		
3	QPSK	1	14	20.52	20.44	20.53		
3	QPSK	8	0	20.43	20.40	20.43		
3	QPSK	8	4	20.42	20.44	20.41		
3	QPSK	8	7	20.46	20.39	20.47		
3	QPSK	15	0	20.42	20.47	20.40		
3	16QAM	1	0	20.39	20.40	20.38		
3	16QAM	1	8	20.48	20.47	20.48		
3	16QAM	1	14	20.44	20.43	20.39		
3	16QAM	8	0	20.37	20.35	20.36		
3	16QAM	8	4	20.42	20.45	20.44		
3	16QAM	8	7	20.41	20.43	20.48		
3	16QAM	15	0	20.41	20.47	20.41		
3	64QAM	1	0	20.39	20.42	20.35		
3	64QAM	1	8	20.43	20.47	20.40		
3	64QAM	1	14	20.45	20.46	20.44		
3	64QAM	8	0	20.41	20.39	20.43		
3	64QAM	8	4	20.38	20.39	20.38		
3	64QAM	8	7	20.42	20.37	20.40		
3	64QAM	15	0	20.43	20.40	20.50		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	20.50	20.50	20.52	21.5	0
1.4	QPSK	1	3	20.44	20.47	20.38		
1.4	QPSK	1	5	20.49	20.46	20.49		
1.4	QPSK	3	0	20.47	20.47	20.44		
1.4	QPSK	3	1	20.44	20.46	20.43		
1.4	QPSK	3	3	20.43	20.48	20.47		
1.4	QPSK	6	0	20.40	20.43	20.40		
1.4	16QAM	1	0	20.42	20.38	20.45		
1.4	16QAM	1	3	20.42	20.44	20.44		
1.4	16QAM	1	5	20.41	20.39	20.44		
1.4	16QAM	3	0	20.35	20.39	20.34		
1.4	16QAM	3	1	20.39	20.46	20.45		
1.4	16QAM	3	3	20.49	20.46	20.45		
1.4	16QAM	6	0	20.39	20.42	20.45		
1.4	64QAM	1	0	20.37	20.41	20.38		
1.4	64QAM	1	3	20.43	20.39	20.47		
1.4	64QAM	1	5	20.48	20.40	20.48		
1.4	64QAM	3	0	20.44	20.46	20.43		
1.4	64QAM	3	1	20.39	20.39	20.44		
1.4	64QAM	3	3	20.37	20.37	20.39		
1.4	64QAM	6	0	20.50	20.50	20.46		



Band 38_Ant 13										
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										
				37850	38000	38150				
Frequency (MHz)				2575	2595	2610				
20	QPSK	1	0	18.57	18.61	18.58				
20	QPSK	1	49	18.55	18.54	18.50	19.5	0		
20	QPSK	1	99	18.51	18.53	18.54				
20	QPSK	50	0	18.49	18.57	18.59				
20	QPSK	50	24	18.41	18.47	18.55	19.5	0		
20	QPSK	50	50	18.44	18.55	18.49				
20	QPSK	100	0	18.44	18.55	18.49				
20	16QAM	1	0	18.34	18.46	18.44				
20	16QAM	1	49	18.35	18.47	18.43	19.5	0		
20	16QAM	1	99	18.35	18.47	18.44				
20	16QAM	50	0	18.34	18.46	18.39				
20	16QAM	50	24	18.36	18.46	18.46	19.5	0		
20	16QAM	50	50	18.40	18.52	18.44				
20	16QAM	100	0	18.34	18.49	18.45				
20	64QAM	1	0	18.41	18.45	18.40				
20	64QAM	1	49	18.34	18.49	18.41	19.5	0		
20	64QAM	1	99	18.42	18.54	18.43				
20	64QAM	50	0	18.41	18.54	18.46				
20	64QAM	50	24	18.43	18.48	18.43	19.5	0		
20	64QAM	50	50	18.34	18.49	18.45				
20	64QAM	100	0	18.36	18.54	18.48				
Channel										
				37825	38000	38175				
Frequency (MHz)				2572.5	2595	2615				
15	QPSK	1	0	18.55	18.55	18.57				
15	QPSK	1	37	18.53	18.49	18.49	19.5	0		
15	QPSK	1	74	18.46	18.51	18.50				
15	QPSK	36	0	18.54	18.49	18.49				
15	QPSK	36	20	18.42	18.40	18.44	19.5	0		
15	QPSK	36	39	18.46	18.50	18.49				
15	QPSK	75	0	18.46	18.52	18.44				
15	16QAM	1	0	18.38	18.39	18.44				
15	16QAM	1	37	18.45	18.46	18.39	19.5	0		
15	16QAM	1	74	18.37	18.46	18.37				
15	16QAM	36	0	18.44	18.43	18.44				
15	16QAM	36	20	18.36	18.40	18.44	19.5	0		
15	16QAM	36	39	18.44	18.50	18.48				
15	16QAM	75	0	18.40	18.41	18.46				
15	64QAM	1	0	18.41	18.44	18.37				
15	64QAM	1	37	18.41	18.46	18.46	19.5	0		
15	64QAM	1	74	18.44	18.53	18.51				
15	64QAM	36	0	18.49	18.50	18.49				
15	64QAM	36	20	18.46	18.43	18.39	19.5	0		
15	64QAM	36	39	18.41	18.39	18.44				
15	64QAM	75	0	18.53	18.51	18.48				
Channel										
				37800	38000	38200				
Frequency (MHz)				2577.5	2595	2615				
10	QPSK	1	0	18.56	18.52	18.50				
10	QPSK	1	25	18.48	18.47	18.51	19.5	0		
10	QPSK	1	49	18.45	18.47	18.48				
10	QPSK	25	0	18.52	18.51	18.49				
10	QPSK	25	12	18.38	18.40	18.46	19.5	0		
10	QPSK	25	25	18.46	18.46	18.46				
10	QPSK	50	0	18.46	18.46	18.50				
10	16QAM	1	0	18.44	18.38	18.45				
10	16QAM	1	25	18.40	18.39	18.43	19.5	0		
10	16QAM	1	49	18.44	18.40	18.38				
10	16QAM	25	0	18.44	18.39	18.39				
10	16QAM	25	12	18.37	18.36	18.44	19.5	0		
10	16QAM	25	25	18.45	18.46	18.46				
10	16QAM	50	0	18.40	18.44	18.47				
10	64QAM	1	0	18.44	18.38	18.37				
10	64QAM	1	25	18.43	18.40	18.43	19.5	0		
10	64QAM	1	49	18.47	18.50	18.51				
10	64QAM	25	0	18.44	18.50	18.51				
10	64QAM	25	12	18.41	18.39	18.41	19.5	0		
10	64QAM	25	25	18.40	18.45	18.41				
10	64QAM	50	0	18.52	18.49	18.45				
Channel										
				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	18.56	18.58	18.51				
5	QPSK	1	12	18.48	18.52	18.53	19.5	0		
5	QPSK	1	24	18.45	18.52	18.47				
5	QPSK	12	0	18.52	18.55	18.50				
5	QPSK	12	7	18.37	18.36	18.46	19.5	0		
5	QPSK	12	13	18.47	18.49	18.46				
5	QPSK	25	0	18.46	18.45	18.46				
5	16QAM	1	0	18.44	18.45	18.45				
5	16QAM	1	12	18.43	18.41	18.45	19.5	0		
5	16QAM	1	24	18.42	18.45	18.39				
5	16QAM	12	0	18.45	18.43	18.44				
5	16QAM	12	7	18.41	18.38	18.44	19.5	0		
5	16QAM	12	13	18.46	18.51	18.47				
5	16QAM	25	0	18.44	18.42	18.48				
5	64QAM	1	0	18.41	18.43	18.43				
5	64QAM	1	12	18.48	18.48	18.48	19.5	0		
5	64QAM	1	24	18.52	18.48	18.48				
5	64QAM	12	0	18.45	18.47	18.48				
5	64QAM	12	7	18.42	18.45	18.45	19.5	0		
5	64QAM	12	13	18.44	18.47	18.46				
5	64QAM	25	0	18.53	18.53	18.52				

Band 38_Ant 31										
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										
				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.42	23.65	23.58				
20	QPSK	1	49	23.43	23.46	23.57	24.5	0		
20	QPSK	1	99	23.44	23.56	23.52				
20	QPSK	50	0	22.70	22.79	22.73				
20	QPSK	50	24	22.66	22.62	22.62	23.5	1		
20	QPSK	50	50	22.54	22.62	22.58				
20	QPSK	100	0	22.71	22.77	22.52				
20	16QAM	1	0	22.71	22.42	22.43				
20	16QAM	1	49	22.85	22.81	22.70	23.5	1		
20	16QAM	1	99	22.54	23.03	22.84				
20	16QAM	50	0	21.57	21.46	21.43				
20	16QAM	50	24	21.80	21.61	21.70	22.5	2		
20	16QAM	50	50	21.72	21.74	21.73				
20	16QAM	100	0	21.65	21.62	21.62				
20	64QAM	1	0	21.82	22.01	21.13				
20	64QAM	1	49	21.52	21.87	21.65	22.5	2		
20	64QAM	1	99	21.69	21.72	21.52				
20	64QAM	50	0	20.57	20.52	20.55				
20	64QAM	50	24	20.67	20.58	20.69	21.5	3		
20	64QAM	50	50	20.78	20.84	20.71				
20	64QAM	100	0	20.76	20.60	20.49				
Channel										
				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2615				
15	QPSK	1	0	23.37	23.50	23.56				
15	QPSK	1	37	23.30	23.31	23.56	24.5	0		
15	QPSK	1	74	23.30	23.47	23.43				
15	QPSK	36	0	22.54	22.66	22.63				
15	QPSK	36	20	22.52	22.51	22.61	23.5	1		
15	QPSK	36	39	22.49	22.54	22.52				
15	QPSK	75	0	22.60	22.63	22.48				
15	16QAM	1	0	22.57	22.30	22.31				
15	16QAM	1	37	22.83	22.71	22.83	23.5	1		
15	16QAM	1	74	22.47	22.87	22.83				
15	16QAM	36	0	21.47	21.45	21.35				
15	16QAM	36	20	21.69	21.54	21.85	22.5	2		
15	16QAM	36	39	21.63	21.73	21.65				
15	16QAM	75	0	21.58	21.58	21.61				
15	64QAM	1	0	21.67						



Band 41_Ant 13

BW (MHz)	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)				39750	40185	40620	41055	41490
				2501	2545	2593	2638	2686
20	QPSK	1	0	18.53	18.60	18.61	18.51	18.59
20	QPSK	1	49	18.43	18.52	18.56	18.50	18.56
20	QPSK	1	99	18.43	18.57	18.51	18.48	18.54
20	QPSK	50	0	18.40	18.57	18.59	18.48	18.57
20	QPSK	50	24	18.39	18.56	18.53	18.40	18.47
20	16QAM	50	0	18.38	18.50	18.50	18.39	18.49
20	16QAM	100	0	18.41	18.47	18.51	18.43	18.49
20	16QAM	1	0	18.45	18.54	18.52	18.44	18.47
20	16QAM	1	49	18.37	18.52	18.49	18.42	18.56
20	16QAM	1	99	18.38	18.55	18.52	18.38	18.56
20	16QAM	50	24	18.41	18.55	18.56	18.44	18.55
20	16QAM	50	50	18.39	18.49	18.51	18.39	18.54
20	16QAM	100	0	18.42	18.50	18.56	18.39	18.55
20	64QAM	1	0	18.38	18.55	18.49	18.45	18.47
20	64QAM	1	49	18.43	18.55	18.58	18.38	18.54
20	64QAM	1	99	18.41	18.54	18.58	18.41	18.55
20	64QAM	50	0	18.37	18.54	18.53	18.40	18.52
20	64QAM	50	24	18.44	18.47	18.58	18.39	18.48
20	64QAM	50	50	18.45	18.53	18.55	18.46	18.55
20	64QAM	100	0	18.38	18.51	18.57	18.44	18.50
Channel								
Frequency (MHz)				39725	40173	40620	41068	41515
				22975	23432	23913	24375	24832
15	QPSK	1	0	18.51	18.54	18.55	18.52	18.57
15	QPSK	1	37	18.46	18.48	18.54	18.48	18.52
15	QPSK	1	74	18.46	18.42	18.42	18.50	18.44
15	QPSK	36	0	18.49	18.56	18.56	18.49	18.56
15	QPSK	36	20	18.51	18.51	18.48	18.47	18.43
15	QPSK	36	39	18.47	18.49	18.48	18.48	18.44
15	QPSK	75	0	18.44	18.44	18.41	18.41	18.41
15	16QAM	1	0	18.50	18.48	18.43	18.46	18.44
15	16QAM	1	37	18.42	18.43	18.43	18.46	18.41
15	16QAM	1	74	18.48	18.48	18.45	18.48	18.43
15	16QAM	36	0	18.44	18.42	18.45	18.41	18.48
15	16QAM	36	20	18.46	18.44	18.48	18.43	18.48
15	16QAM	36	39	18.46	18.45	18.43	18.43	18.45
15	16QAM	75	0	18.55	18.51	18.53	18.51	18.48
15	64QAM	1	0	18.39	18.40	18.41	18.42	18.47
15	64QAM	1	37	18.50	18.52	18.48	18.48	18.51
15	64QAM	1	74	18.52	18.54	18.49	18.50	18.57
15	64QAM	36	0	18.43	18.51	18.46	18.45	18.48
15	64QAM	36	20	18.49	18.51	18.48	18.50	18.56
15	64QAM	36	39	18.51	18.46	18.54	18.54	18.54
15	64QAM	75	0	18.55	18.47	18.52	18.55	18.47
Channel								
Frequency (MHz)				39700	40160	40620	41080	41540
				2501	2547	2593	2639	2686
10	QPSK	1	0	18.56	18.52	18.58	18.57	18.57
10	QPSK	1	25	18.48	18.48	18.48	18.45	18.45
10	QPSK	1	49	18.48	18.47	18.44	18.45	18.45
10	QPSK	25	0	18.57	18.51	18.51	18.54	18.56
10	QPSK	25	12	18.43	18.48	18.49	18.47	18.49
10	QPSK	25	25	18.45	18.46	18.42	18.42	18.51
10	QPSK	50	0	18.47	18.48	18.45	18.46	18.42
10	16QAM	1	0	18.49	18.46	18.46	18.42	18.45
10	16QAM	1	25	18.44	18.46	18.44	18.41	18.47
10	16QAM	1	49	18.48	18.50	18.50	18.45	18.48
10	16QAM	25	0	18.44	18.45	18.40	18.48	18.49
10	16QAM	25	12	18.47	18.49	18.49	18.50	18.55
10	16QAM	25	25	18.45	18.42	18.48	18.44	18.47
10	16QAM	50	0	18.46	18.55	18.53	18.49	18.48
10	64QAM	1	0	18.48	18.39	18.48	18.48	18.40
10	64QAM	1	25	18.54	18.50	18.54	18.52	18.54
10	64QAM	1	49	18.50	18.54	18.55	18.55	18.55
10	64QAM	25	0	18.46	18.44	18.49	18.47	18.43
10	64QAM	25	12	18.50	18.56	18.51	18.50	18.54
10	64QAM	25	25	18.46	18.47	18.53	18.47	18.49
10	64QAM	50	0	18.49	18.49	18.54	18.49	18.48
Channel								
Frequency (MHz)				39675	40148	40620	41093	41565
				2498.5	2545.6	2593	2640.30	2687.5
5	QPSK	1	0	18.56	18.55	18.52	18.60	18.51
5	QPSK	1	12	18.52	18.53	18.47	18.48	18.49
5	QPSK	1	24	18.50	18.46	18.41	18.41	18.43
5	QPSK	12	0	18.55	18.55	18.55	18.57	18.57
5	QPSK	12	7	18.46	18.44	18.52	18.43	18.52
5	QPSK	12	13	18.49	18.50	18.42	18.47	18.48
5	QPSK	25	0	18.42	18.48	18.46	18.49	18.48
5	16QAM	1	0	18.50	18.49	18.45	18.47	18.50
5	16QAM	1	12	18.42	18.41	18.48	18.45	18.41
5	16QAM	1	24	18.47	18.43	18.46	18.46	18.48
5	16QAM	12	0	18.48	18.42	18.47	18.45	18.47
5	16QAM	12	7	18.46	18.51	18.50	18.47	18.50
5	16QAM	12	13	18.46	18.49	18.41	18.45	18.49
5	64QAM	1	0	18.47	18.40	18.41	18.39	18.46
5	64QAM	1	12	18.53	18.54	18.54	18.49	18.50
5	64QAM	1	24	18.50	18.49	18.50	18.50	18.55
5	64QAM	12	0	18.45	18.51	18.52	18.51	18.43
5	64QAM	12	7	18.56	18.55	18.56	18.50	18.50
5	64QAM	12	13	18.54	18.51	18.54	18.52	18.51
5	64QAM	25	0	18.47	18.56	18.56	18.52	18.54

Band 41_Ant 13

BW (MHz)	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)				39750	40185	40620	41055	41490
				2508	2548	2593	2635	2680
20	QPSK	1	0	23.26	23.45	23.72	23.50	23.81
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56
20	QPSK	50	0	22.60	22.86	22.70	22.57	22.86
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51
20	16QAM	50	0	21.41	21.52	21.58	21.55	21.60
20	16QAM	100	0	22.47	22.81	22.69	22.45	22.52
20	16QAM	1	0	22.06	22.54	22.51	22.28	22.48
20	16QAM	1	49	22.31	22.63	22.56	22.37	22.23
20	16QAM	1	99	22.31	22.33	22.80	22.42	22.55
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58
20	16QAM	50	50	21.51	21.46	21.69	21.52	21.67
20	16QAM	100	0	21.51	21.48	21.63	21.31	21.54
20	64QAM	1	0	21.27	21.57	21.35	21.88	21.35
20	64QAM	1	49	21.45	21.50	21.43	21.51	21.30
20	64QAM	1	99	21.08	21.37	21.78	21.34	21.72
20	64QAM	50	0	20.48	20.53	20.44	20.41	20.54
20	64QAM	50	24	20.50	20.80	20.58	20.49	20.55
20	64QAM	50	50	20.41	20.50	20.83	20.63	20.71
20	64QAM	100	0	20.46	20.56	20.58	20.50	20.61
Channel								
Frequency (MHz)				39725	40173	40620	41068	41515
				22975	23432	23913	24375	24832
15	QPSK	1	0	23.15	23.37	23.67	23.35	23.53
15	QPSK	1	37	23.15	23.24	23.48	23.33	23.41
15	QPSK	1	74	23.07	23.30	23.42	23.27	23.48
15	QPSK	36	0	22.57	22.63	22.63	22.41	22.53
15	QPSK	36	20	22.44	22.54	22.48	22.40	22.44
15	QPSK	36	39	22.51	22.56	22.55	22.39	22.63
15	QPSK	75	0	22.37	22.51	22.52	22.39	22.39
15	16QAM	1	0	22.01	22.49	22.46	22.21	22.39
15	16QAM	1	37	22.18	22.48	22.54	22.31	22.14
15	16QAM	1	74	22.17	22.21	22.66	22.41	22.43
15	16QAM	36	0	21.28	21.51	21.44	21.42	21.59
15	16QAM	36	20	21.44	21.58	21.54	21.42	21.42
15	16QAM	36	39	21.37	21.40	21.63	21.47	21.65
15	16QAM	75	0	21.46	21.46	21.48	21.18	21.48
15	64QAM	1						



Reduced Power Mode for DSI8

GSM900_Ant 13		Burst Average Power (dBm)			Frame Average Power (dBm)			Time-up			
TX Channel	128	169	251	Limit (dBm)	128	169	251	Limit (dBm)	128	169	251
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		824.2	836.4	848.8
GSM 1 Tx slot	32.65	32.92	32.74	33.50	23.65	23.92	23.78	24.50			
GPRS/EDGE GMSK 1 Tx slot	32.63	32.90	32.74	33.50	23.63	23.90	23.74	24.50			
GPRS/EDGE GMSK 2 Tx slots	30.33	30.53	30.45	31.50	24.33	24.53	24.45	25.50			
GPRS/EDGE GMSK 3 Tx slots	28.36	28.86	28.01	29.50	24.10	24.63	23.75	25.24			
GPRS/EDGE GMSK 4 Tx slots	27.17	27.40	27.22	28.00	24.17	24.40	24.22	25.00			
EDGE BPSK 1 Tx slot	26.86	26.79	26.80	28.00	17.86	17.79	17.80	19.00			
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	26.00	19.12	19.01	19.02	20.00			
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74			
EDGE BPSK 4 Tx slots	21.62	21.56	21.63	22.50	18.52	18.56	18.63	19.50			

GSM900_Ant 31		Burst Average Power (dBm)			Frame Average Power (dBm)			Time-up			
TX Channel	128	169	251	Limit (dBm)	128	169	251	Limit (dBm)	128	169	251
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		824.2	836.4	848.8
GSM 1 Tx slot	32.60	32.95	32.74	33.50	23.60	23.95	23.74	24.50			
GPRS/EDGE GMSK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50			
GPRS/EDGE GMSK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50			
GPRS/EDGE GMSK 3 Tx slots	27.60	28.85	28.62	29.50	23.34	24.59	24.36	25.24			
GPRS/EDGE GMSK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00			
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	28.00	17.89	17.83	17.80	19.00			
EDGE BPSK 2 Tx slots	24.98	24.81	25.01	26.00	18.98	18.81	19.01	20.00			
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74			
EDGE BPSK 4 Tx slots	21.63	21.58	21.56	22.50	18.63	18.58	18.56	19.50			

GSM1900_Ant 13		Burst Average Power (dBm)			Frame Average Power (dBm)			Time-up			
TX Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)	512	661	810
Frequency (MHz)	1852.2	1850	1829.8		1852.2	1850	1829.8		1852.2	1850	1829.8
GSM 1 Tx slot	26.98	26.78	27.07	27.50	17.98	17.78	18.07	18.50			
GPRS/EDGE GMSK 1 Tx slot	26.98	26.77	27.05	27.50	17.98	17.77	18.05	18.50			
GPRS/EDGE GMSK 2 Tx slots	23.93	23.96	23.97	25.50	17.93	17.96	17.97	19.50			
GPRS/EDGE GMSK 3 Tx slots	22.26	22.20	22.19	23.50	18.00	17.94	17.93	19.24			
GPRS/EDGE GMSK 4 Tx slots	20.92	20.97	20.95	22.00	17.92	17.97	17.95	19.00			
EDGE BPSK 1 Tx slot	20.12	20.36	20.01	27.00	17.12	17.36	17.01	18.00			
EDGE BPSK 2 Tx slots	24.30	24.24	24.36	25.00	18.30	18.24	18.36	19.00			
EDGE BPSK 3 Tx slots	22.37	22.31	22.30	23.00	18.11	18.05	18.04	18.74			
EDGE BPSK 4 Tx slots	20.56	20.51	20.52	21.50	17.56	17.51	17.52	18.50			

GSM1900_Ant 31		Burst Average Power (dBm)			Frame Average Power (dBm)			Time-up			
TX Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)	512	661	810
Frequency (MHz)	1852.2	1850	1829.8		1852.2	1850	1829.8		1852.2	1850	1829.8
GSM 1 Tx slot	29.37	29.40	29.33	30.00	20.37	20.40	20.33	21.00			
GPRS/EDGE GMSK 1 Tx slot	29.34	29.36	29.30	30.00	20.34	20.36	20.30	21.00			
GPRS/EDGE GMSK 2 Tx slots	26.56	26.58	26.55	28.00	20.56	20.58	20.55	22.00			
GPRS/EDGE GMSK 3 Tx slots	24.80	24.63	24.58	26.00	20.34	20.37	20.32	21.74			
GPRS/EDGE GMSK 4 Tx slots	23.38	23.42	23.36	24.50	20.38	20.42	20.36	21.50			
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	18.91	18.96	17.01	18.00			
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00			
EDGE BPSK 3 Tx slots	22.18	22.17	22.35	23.00	17.92	17.91	18.09	18.74			
EDGE BPSK 4 Tx slots	20.84	20.57	20.56	21.50	17.84	17.57	17.56	18.50			

Band	WCDMA II_Ant 13				WCDMA II_Ant 31				
	TX Channel	9662	9400	9538	Time-up Limit (dBm)	9262	9400	9538	Time-up Limit (dBm)
Rx Channel	9662	9600	9538		9662	9600	9538		9662
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		1852.4
3GPP Rel 99 AMR 12.2Kbps	15.91	15.95	15.89	16.50	20.40	20.42	20.36	21.00	
3GPP Rel 99 RMC 12.2Kbps	15.85	15.98	15.93	16.50	20.41	20.44	20.39	21.00	
3GPP Rel 6 HSDPA Subtest-1	14.85	14.78	14.78	16.00	19.33	19.35	19.28	20.50	
3GPP Rel 6 HSDPA Subtest-2	14.88	14.80	14.83	16.00	19.43	19.37	19.33	20.50	
3GPP Rel 6 HSDPA Subtest-3	14.36	14.24	14.23	15.50	18.87	18.76	18.90	20.00	
3GPP Rel 6 HSDPA Subtest-4	14.41	14.32	14.25	15.50	18.90	18.81	18.90	20.00	
3GPP Rel 6 DCHSDPA Subtest-1	14.74	14.64	14.69	16.00	19.36	19.28	19.19	20.50	
3GPP Rel 6 DCHSDPA Subtest-2	14.82	14.81	14.88	16.00	19.34	19.27	19.26	20.50	
3GPP Rel 6 DCHSDPA Subtest-3	14.37	14.30	14.18	15.50	18.71	18.64	18.73	20.00	
3GPP Rel 6 DCHSDPA Subtest-4	14.25	14.19	14.19	15.50	18.94	18.75	18.76	20.00	
3GPP Rel 6 HSUPA Subtest-1	14.94	14.83	14.77	16.00	19.40	19.41	19.36	20.50	
3GPP Rel 6 HSUPA Subtest-2	12.77	12.77	12.87	14.00	17.36	17.40	17.36	18.50	
3GPP Rel 6 HSUPA Subtest-3	13.82	13.83	13.81	15.00	18.29	18.33	18.33	19.50	
3GPP Rel 6 HSUPA Subtest-4	12.88	12.81	12.76	14.00	17.32	17.34	17.29	18.50	
3GPP Rel 6 HSUPA Subtest-5	14.79	14.74	14.74	16.00	19.40	19.34	19.28	20.50	
3GPP Rel 7 HSPA (10QAM) Subtest-1	13.79	13.75	13.71	15.00	18.31	18.50	18.28	19.50	

Band	WCDMA IV_Ant 13				WCDMA IV_Ant 31				
	TX Channel	1312	1413	1513	Time-up Limit (dBm)	1312	1413	1513	Time-up Limit (dBm)
Rx Channel	1312	1638	1738		1312	1638	1738		1312
Frequency (MHz)	1712.4	1732.6	1752.6		1712.4	1732.6	1752.6		1712.4
3GPP Rel 99 AMR 12.2Kbps	16.91	16.97	16.93	17.50	20.85	20.88	20.82	21.50	
3GPP Rel 99 RMC 12.2Kbps	16.84	16.98	16.96	17.50	20.87	20.89	20.85	21.50	
3GPP Rel 6 HSDPA Subtest-1	15.79	15.83	15.88	17.00	19.90	20.05	19.94	21.00	
3GPP Rel 6 HSDPA Subtest-2	15.74	15.91	15.88	17.00	19.87	20.00	19.96	21.00	
3GPP Rel 6 HSDPA Subtest-3	15.20	15.43	15.33	16.50	19.39	19.51	19.50	20.50	
3GPP Rel 6 HSDPA Subtest-4	15.23	15.38	15.38	16.50	19.47	19.53	19.46	20.50	
3GPP Rel 6 DC-HSDPA Subtest-1	15.72	15.81	15.81	17.00	19.84	19.83	19.82	21.00	
3GPP Rel 6 DC-HSDPA Subtest-2	15.70	15.72	15.76	17.00	19.78	19.98	19.90	21.00	
3GPP Rel 6 DC-HSDPA Subtest-3	15.22	15.30	15.19	16.50	19.41	19.49	19.48	20.50	
3GPP Rel 6 DC-HSDPA Subtest-4	15.25	15.40	15.28	16.50	19.33	19.54	19.42	20.50	
3GPP Rel 6 HSUPA Subtest-1	15.84	16.00	15.92	17.00	19.89	20.07	19.97	21.00	
3GPP Rel 6 HSUPA Subtest-2	13.90	13.87	13.94	15.00	17.95	17.98	17.83	19.00	
3GPP Rel 6 HSUPA Subtest-3	14.87	14.85	14.94	16.00	18.79	18.99	18.95	20.00	
3GPP Rel 6 HSUPA Subtest-4	13.92	14.01	13.92	15.00	17.90	18.08	17.99	19.00	
3GPP Rel 6 HSUPA Subtest-5	15.83	15.94	15.84	17.00	19.91	20.03	19.89	21.00	
3GPP Rel 7 HSPA (10QAM) Subtest-1	14.88	14.92	14.86	16.00	18.80	19.03	19.03	20.00	

Band	WCDMA V_Ant 13				WCDMA V_Ant 31				
	TX Channel	4132	4182	4233	Time-up Limit (dBm)	4132	4182	4233	Time-up Limit (dBm)
Rx Channel	4357	4407	4458		4357	4407	4458		4357
Frequency (MHz)	2623.4	2651.4	2679.4		2623.4	2651.4	2679.4		2623.4
3GPP Rel 99 AMR 12.2Kbps	24.33	24.38	24.36	25.00	24.25	24.37	24.35	25.00	
3GPP Rel 99 RMC 12.2Kbps	24.35	24.40	24.37	25.00	24.27	24.38	24.38	25.00	
3GPP Rel 6 HSDPA Subtest-1	23.52	23.61	23.58	24.50	23.46	23.53	23.57	24.50	
3GPP Rel 6 HSDPA Subtest-2	23.54	23.57	23.59	24.50	23.47	23.54	23.54	24.50	
3GPP Rel 6 HSDPA Subtest-3	22.99	23.08	23.08	24.00	22.94	22.97	23.10	24.00	
3GPP Rel 6 HSDPA Subtest-4	23.02	23.08	23.08	24.00	22.94	23.00	23.05	24.00	
3GPP Rel 6 DC-HSDPA Subtest-1	23.39	23.54	23.55	24.50	23.45	23.47	23.56	24.50	
3GPP Rel 6 DC-HSDPA Subtest-2	23.50	23.41	23.48	24.50	23.45	23.47	23.53	24.50	
3GPP Rel 6 DC-HSDPA Subtest-3	22.97	22.96	23.00	24.00	22.83	22.89	22.95	24.00	
3GPP Rel 6 DC-HSDPA Subtest-4	22.99	22.96	22.99	24.00	22.81	22.85	23.04	24.00	
3GPP Rel 6 HSUPA Subtest-1	23.82	23.85	23.80	24.50	23.46	23.55			



Band 2_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.36	17.43	17.45	18.5	0	
20	QPSK	1	49	17.18	17.25	17.28	18.5	0	
20	QPSK	1	99	17.35	17.39	17.39	18.5	0	
20	QPSK	50	0	17.25	17.43	17.42	18.5	0	
20	QPSK	50	24	17.27	17.43	17.42	18.5	0	
20	QPSK	50	50	17.24	17.38	17.40	18.5	0	
20	QPSK	100	0	17.19	17.36	17.33	18.5	0	
20	16QAM	1	0	17.11	17.27	17.30	18.5	0	
20	16QAM	1	49	17.18	17.25	17.28	18.5	0	
20	16QAM	1	99	17.12	17.33	17.30	18.5	0	
20	16QAM	50	0	17.10	17.34	17.28	18.5	0	
20	16QAM	50	24	17.18	17.28	17.29	18.5	0	
20	16QAM	50	50	17.10	17.29	17.29	18.5	0	
20	64QAM	1	0	17.11	17.30	17.26	18.5	0	
20	64QAM	1	49	17.15	17.30	17.29	18.5	0	
20	64QAM	1	99	17.12	17.23	17.23	18.5	0	
20	64QAM	50	0	17.14	17.31	17.31	18.5	0	
20	64QAM	50	24	17.18	17.30	17.30	18.5	0	
20	64QAM	50	50	17.12	17.27	17.25	18.5	0	
20	64QAM	100	0	17.11	17.28	17.26	18.5	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.42	17.43	17.43	18.5	0	
15	QPSK	1	37	17.28	17.34	17.31	18.5	0	
15	QPSK	1	74	17.38	17.30	17.35	18.5	0	
15	QPSK	36	0	17.40	17.42	17.42	18.5	0	
15	QPSK	36	18	17.28	17.31	17.31	18.5	0	
15	QPSK	36	39	17.30	17.37	17.31	18.5	0	
15	QPSK	75	0	17.28	17.42	17.28	18.5	0	
15	16QAM	1	0	17.19	17.38	17.26	18.5	0	
15	16QAM	1	37	17.16	17.21	17.20	18.5	0	
15	16QAM	1	74	17.27	17.30	17.24	18.5	0	
15	16QAM	36	0	17.29	17.32	17.27	18.5	0	
15	16QAM	36	18	17.25	17.23	17.24	18.5	0	
15	16QAM	36	39	17.27	17.21	17.26	18.5	0	
15	16QAM	75	0	17.20	17.29	17.26	18.5	0	
15	64QAM	1	0	17.20	17.23	17.24	18.5	0	
15	64QAM	1	37	17.20	17.20	17.20	18.5	0	
15	64QAM	1	74	17.23	17.23	17.23	18.5	0	
15	64QAM	36	0	17.27	17.30	17.24	18.5	0	
15	64QAM	36	18	17.20	17.23	17.24	18.5	0	
15	64QAM	36	39	17.17	17.18	17.21	18.5	0	
15	64QAM	75	0	17.25	17.25	17.23	18.5	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.42	17.41	17.47	18.5	0	
10	QPSK	1	25	17.28	17.36	17.33	18.5	0	
10	QPSK	1	49	17.38	17.33	17.36	18.5	0	
10	QPSK	25	0	17.28	17.33	17.31	18.5	0	
10	QPSK	25	12	17.28	17.31	17.35	18.5	0	
10	QPSK	25	25	17.31	17.28	17.31	18.5	0	
10	QPSK	50	0	17.26	17.21	17.23	18.5	0	
10	16QAM	1	25	17.24	17.16	17.25	18.5	0	
10	16QAM	1	49	17.28	17.25	17.31	18.5	0	
10	16QAM	25	0	17.20	17.23	17.24	18.5	0	
10	16QAM	25	12	17.22	17.19	17.26	18.5	0	
10	16QAM	25	25	17.23	17.23	17.21	18.5	0	
10	16QAM	50	0	17.23	17.21	17.21	18.5	0	
10	16QAM	50	12	17.25	17.23	17.26	18.5	0	
10	64QAM	1	25	17.26	17.19	17.19	18.5	0	
10	64QAM	1	49	17.20	17.20	17.27	18.5	0	
10	64QAM	25	0	17.26	17.29	17.27	18.5	0	
10	64QAM	25	12	17.22	17.22	17.25	18.5	0	
10	64QAM	25	25	17.21	17.22	17.24	18.5	0	
10	64QAM	50	0	17.26	17.22	17.24	18.5	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.42	17.47	17.38	18.5	0	
5	QPSK	1	12	17.33	17.29	17.35	18.5	0	
5	QPSK	12	0	17.34	17.33	17.33	18.5	0	
5	QPSK	12	6	17.33	17.38	17.40	18.5	0	
5	QPSK	12	7	17.27	17.30	17.32	18.5	0	
5	QPSK	12	13	17.34	17.36	17.28	18.5	0	
5	16QAM	1	0	17.18	17.21	17.26	18.5	0	
5	16QAM	1	12	17.25	17.23	17.17	18.5	0	
5	16QAM	12	0	17.26	17.29	17.27	18.5	0	
5	16QAM	12	6	17.25	17.33	17.28	18.5	0	
5	16QAM	12	7	17.26	17.23	17.24	18.5	0	
5	16QAM	12	13	17.25	17.22	17.23	18.5	0	
5	64QAM	1	0	17.22	17.29	17.25	18.5	0	
5	64QAM	1	12	17.28	17.21	17.21	18.5	0	
5	64QAM	12	0	17.25	17.24	17.22	18.5	0	
5	64QAM	12	6	17.24	17.28	17.17	18.5	0	
5	64QAM	12	7	17.29	17.27	17.22	18.5	0	
5	64QAM	12	13	17.22	17.25	17.25	18.5	0	
5	64QAM	25	0	17.25	17.21	17.24	18.5	0	
Channel									
Frequency (MHz)									
3	QPSK	1	0	17.44	17.46	17.41	18.5	0	
3	QPSK	1	8	17.36	17.34	17.32	18.5	0	
3	QPSK	1	14	17.32	17.33	17.33	18.5	0	
3	QPSK	8	0	17.40	17.40	17.41	18.5	0	
3	QPSK	8	4	17.30	17.28	17.26	18.5	0	
3	QPSK	8	7	17.33	17.23	17.27	18.5	0	
3	QPSK	15	0	17.32	17.26	17.30	18.5	0	
3	16QAM	1	0	17.18	17.21	17.19	18.5	0	
3	16QAM	1	8	17.18	17.16	17.20	18.5	0	
3	16QAM	8	0	17.31	17.29	17.31	18.5	0	
3	16QAM	8	4	17.22	17.27	17.18	18.5	0	
3	16QAM	8	7	17.20	17.19	17.27	18.5	0	
3	16QAM	15	0	17.20	17.23	17.25	18.5	0	
3	64QAM	1	0	17.29	17.27	17.30	18.5	0	
3	64QAM	1	8	17.26	17.25	17.19	18.5	0	
3	64QAM	8	0	17.24	17.23	17.28	18.5	0	
3	64QAM	8	4	17.25	17.23	17.29	18.5	0	
3	64QAM	8	7	17.24	17.26	17.17	18.5	0	
3	64QAM	15	0	17.23	17.27	17.25	18.5	0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	17.41	17.39	17.47	18.5	0	
1.4	QPSK	1	3	17.36	17.32	17.37	18.5	0	
1.4	QPSK	1	5	17.35	17.33	17.30	18.5	0	
1.4	QPSK	3	0	17.41	17.39	17.36	18.5	0	
1.4	QPSK	3	1	17.34	17.28	17.31	18.5	0	
1.4	QPSK	3	14	17.32	17.30	17.30	18.5	0	
1.4	QPSK	6	0	17.35	17.29	17.30	18.5	0	
1.4	16QAM	1	0	17.23	17.20	17.18	18.5	0	
1.4	16QAM	1	3	17.18	17.23	17.24	18.5	0	
1.4	16QAM	1	5	17.27	17.20	17.31	18.5	0	
1.4	16QAM	3	0	17.24	17.28	17.32	18.5	0	
1.4	16QAM	3	1	17.24	17.26	17.20	18.5	0	
1.4	16QAM	3	14	17.19	17.20	17.22	18.5	0	
1.4	16QAM	6	0	17.27	17.27	17.22	18.5	0	
1.4	64QAM	1	0	17.23	17.27	17.21	18.5	0	
1.4	64QAM	1	3	17.18	17.23	17.21	18.5	0	
1.4	64QAM	1	5	17.27	17.23	17.28	18.5	0	
1.4	64QAM	3	0	17.23	17.22	17.27	18.5	0	
1.4	64QAM	3	1	17.29	17.21	17.26	18.5	0	
1.4	64QAM	3	14	17.22	17.19	17.18	18.5	0	
1.4	64QAM	6	0	17.23	17.26	17.21	18.5	0	

Band 2_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.42	20.42	20.43	21.5	0	
20	QPSK	1	49	20.46	20.46	20.33	21.5	0	
20	QPSK	1	99	20.43	20.59	20.48	21.5	0	
20	QPSK	50	0	20.42	20.55	20.43	21.5	0	
20	QPSK	50	24						



Band 4_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.02	17.05	17.11				
20	QPSK	1	49	19.07	19.13	19.22				
20	QPSK	1	99	19.06	19.05	19.05				
20	QPSK	50	0	19.15	19.14	19.11				
20	QPSK	50	24	19.08	19.10	19.09				
20	QPSK	50	50	19.03	19.11	19.22			20	0
20	QPSK	100	0	19.07	19.13	19.21				
20	16QAM	1	0	19.04	19.12	19.20				
20	16QAM	1	49	19.04	19.13	19.22				
20	16QAM	1	99	19.05	19.11	19.20				
20	16QAM	50	0	19.03	19.05	19.20				
20	16QAM	50	24	19.04	19.10	19.21				
20	16QAM	50	50	19.01	19.08	19.22				
20	16QAM	100	0	19.02	19.13	19.21				
20	16QAM	1	0	19.06	19.10	19.21				
20	16QAM	1	49	19.04	19.07	19.22				
20	16QAM	1	99	19.09	19.05	19.23				
20	16QAM	50	0	19.01	19.08	19.24				
20	16QAM	50	24	19.04	19.10	19.21				
20	16QAM	50	50	19.03	19.13	19.21				
20	16QAM	100	0	19.03	19.13	19.20				
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.07	17.23	17.43				
15	QPSK	1	37	19.01	19.05	19.01				
15	QPSK	1	74	19.00	18.98	18.99				
15	QPSK	36	0	19.07	19.10	19.04				
15	QPSK	36	39	19.03	19.03	19.06				
15	QPSK	36	75	19.02	19.08	19.09				
15	16QAM	1	0	19.08	19.10	19.04				
15	16QAM	1	37	19.03	19.08	19.08				
15	16QAM	1	74	19.01	19.02	19.03				
15	16QAM	36	0	19.00	18.98	19.02				
15	16QAM	36	39	19.02	19.08	19.09				
15	16QAM	36	75	19.00	19.06	19.11				
15	16QAM	1	0	19.08	19.04	19.04				
15	16QAM	1	37	19.06	18.98	19.00				
15	16QAM	1	74	18.96	18.96	19.02				
15	16QAM	36	0	18.95	19.06	19.05				
15	16QAM	36	39	19.01	19.07	19.06				
15	16QAM	36	75	19.00	19.08	19.05				
15	16QAM	75	0	19.09	19.11	19.03				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.13	19.10	19.05				
10	QPSK	1	25	19.01	19.08	19.08				
10	QPSK	1	49	19.04	19.03	18.99				
10	QPSK	25	0	19.03	19.03	19.06				
10	QPSK	25	12	18.97	19.03	18.97				
10	QPSK	25	25	19.09	19.08	19.06				
10	QPSK	50	0	19.03	19.06	19.06				
10	16QAM	1	0	19.07	19.04	19.04				
10	16QAM	1	25	19.01	19.08	19.04				
10	16QAM	1	49	19.10	19.04	19.03				
10	16QAM	25	0	19.01	19.07	19.06				
10	16QAM	25	12	19.00	19.09	19.04				
10	16QAM	25	25	19.03	19.02	19.08				
10	16QAM	50	0	19.11	19.08	19.06				
10	16QAM	50	12	19.04	19.04	19.09				
10	16QAM	1	0	19.04	19.03	18.99				
10	16QAM	1	49	19.06	18.96	18.97				
10	16QAM	25	0	19.01	19.02	19.04				
10	16QAM	25	12	19.00	19.09	19.01				
10	16QAM	25	25	19.03	19.03	19.07				
10	16QAM	50	0	19.04	19.03	19.09				
10	16QAM	50	12	19.03	19.03	19.06				
10	16QAM	1	0	19.04	19.03	19.08				
10	16QAM	1	12	19.08	19.00	19.06				
10	16QAM	1	25	19.00	19.06	19.09				
10	16QAM	1	49	19.02	18.98	18.95				
10	16QAM	1	74	19.02	19.06	19.07				
10	16QAM	15	0	19.11	19.03	19.07				
10	16QAM	1	0	19.10	19.07	19.06				
10	16QAM	1	12	19.04	19.03	19.04				
10	16QAM	1	25	19.04	19.04	18.95				
10	16QAM	1	49	19.05	19.08	19.01				
10	16QAM	1	74	19.06	19.03	19.07				
10	16QAM	15	0	19.02	19.01	19.03				
10	16QAM	1	0	19.05	19.03	19.08				
10	16QAM	1	12	19.08	18.97	18.96				
10	16QAM	1	25	19.04	19.07	18.99				
10	16QAM	1	49	19.00	19.06	19.03				
10	16QAM	1	74	19.00	19.06	19.09				
10	16QAM	15	0	19.07	19.03	19.05				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.05	19.07	19.08				
1.4	QPSK	1	3	19.08	19.06	19.06				
1.4	QPSK	1	5	19.04	18.95	18.99				
1.4	QPSK	3	0	19.05	19.04	19.12				
1.4	QPSK	3	1	19.06	18.95	18.95				
1.4	QPSK	3	3	19.10	19.10	19.10				
1.4	QPSK	6	0	19.08	19.08	19.04				
1.4	16QAM	1	0	19.10	19.06	19.04				
1.4	16QAM	1	3	19.07	19.04	19.06				
1.4	16QAM	1	5	19.10	19.07	19.06				
1.4	16QAM	3	0	19.05	19.02	19.00				
1.4	16QAM	3	1	19.04	19.06	19.06				
1.4	16QAM	3	3	18.99	19.07	19.00				
1.4	16QAM	6	0	19.07	19.11	19.09				
1.4	16QAM	1	0	19.08	19.07	19.00				
1.4	16QAM	1	3	19.08	19.02	18.97				
1.4	16QAM	1	5	19.01	19.02	18.95				
1.4	16QAM	3	0	19.05	18.98	19.05				
1.4	16QAM	3	1	19.05	19.00	19.04				
1.4	16QAM	3	3	19.00	19.06	19.00				
1.4	16QAM	6	0	19.06	19.07	19.07				

Band 5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.14	24.32	24.31			25	0
10	QPSK	1	25	24.11	24.34	24.33				
10	QPSK	1	49	23.94	24.12	24.04				
10	QPSK	25	0	23.94	24.11	23.62				
10	QPSK	25	12	23.93	23.93	23.31				
10	QPSK	25	25	23.09	23.04	23.12			24	1
10	QPSK	50	0	23.11	23.18	23.04				
10	16QAM	1	0	23.37	23.24	23.27				
10	16QAM	1	25	22.82	22.28	22.16				
10	16QAM	1	49	23.01	22.73	23.47			24	1
10	16QAM	25	0	22.09	22.17	22.10				
10	16QAM	25	12	22.06	22.98	22.60				
10	16QAM	25	25	21.00	21.17	21.13				
10	16QAM	50	0	22.19	22.05	22.12				
10	16QAM	1	0	22.30	22.19	22.33				
10	16QAM	1	25	22.02	22.28	22.16				
10	16QAM	1	49	22.34	22.32	22.18				
10	16QAM	25	0	21.05	21.09	21.08				
10	16QAM	25	12	21.00	21.10	21.12				
10	16QAM	25	25	21.00	21.17	21.13				
10	16QAM	50	0	21.09	21.07	21.03				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.04	24.24	24.24				
5	QPSK	1	12	24.06	24.12	23.98				
5	QPSK	1	24	23.80	23.99	24.03				
5	QPSK	12	0	23.00	23.00	22.84				
5	QPSK	12	13	23.02	2					



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	21.02	21.13	21.07			22	0
20	QPSK	1	99	21.01	21.08	20.97				
20	QPSK	50	0	21.02	21.07	21.08				
20	QPSK	50	99	21.02	21.01	21.01			22	0
20	QPSK	100	0	20.97	21.02	20.98				
20	16QAM	1	0	20.94	21.04	20.99				
20	16QAM	1	99	21.01	21.01	21.00			22	0
20	16QAM	50	0	20.98	21.01	20.99				
20	16QAM	50	99	20.96	20.96	20.96			22	0
20	16QAM	100	0	20.98	21.02	20.98				
20	16QAM	100	99	20.97	20.99	21.05			22	0
20	16QAM	1	99	21.01	20.98	21.05				
20	16QAM	50	0	20.93	20.92	20.90				
20	16QAM	50	99	20.97	20.95	20.93			21	1
20	16QAM	100	0	20.93	20.91	20.95				
20	16QAM	100	99	20.93	19.97	19.97				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	21.04	21.11	21.02				
15	QPSK	1	99	20.96	20.97	21.02			22	0
15	QPSK	1	74	21.09	21.00	21.03				
15	QPSK	36	0	21.05	21.05	20.98				
15	QPSK	36	99	20.95	20.91	20.98			22	0
15	QPSK	75	0	21.00	20.93	20.95				
15	16QAM	1	0	20.97	20.99	20.97				
15	16QAM	1	99	20.98	20.99	20.97			22	0
15	16QAM	1	74	20.98	20.93	20.91				
15	16QAM	36	0	20.95	20.94	20.96				
15	16QAM	36	99	20.95	20.98	20.91			22	0
15	16QAM	75	0	20.98	21.01	20.97				
15	16QAM	75	99	20.95	20.93	20.95			22	0
15	16QAM	1	99	20.93	20.92	20.88				
15	16QAM	1	74	20.98	20.97	20.97				
15	16QAM	36	0	19.95	19.93	19.92				
15	16QAM	36	99	19.95	19.95	19.95			21	1
15	16QAM	75	0	19.93	19.94	19.93				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	21.08	21.12	21.10				
10	QPSK	1	25	20.94	20.95	20.95			22	0
10	QPSK	1	49	20.98	21.02	21.01				
10	16QAM	36	0	20.92	20.93	20.97				
10	16QAM	25	12	20.96	20.95	20.89			22	0
10	16QAM	25	25	20.97	20.96	20.99				
10	16QAM	50	0	20.96	20.92	20.97				
10	16QAM	50	99	21.01	20.94	20.98			22	0
10	16QAM	1	25	20.97	20.99	20.92				
10	16QAM	1	49	20.91	20.98	20.93				
10	16QAM	25	0	20.98	20.93	20.98			22	0
10	16QAM	25	12	20.95	20.89	20.88				
10	16QAM	25	25	20.99	20.97	20.99				
10	16QAM	50	0	20.92	21.00	20.97				
10	16QAM	50	99	20.92	20.95	20.94			22	0
10	16QAM	1	25	20.96	20.91	20.88				
10	16QAM	1	49	20.92	20.93	20.96				
10	16QAM	25	0	19.95	19.90	19.95				
10	16QAM	25	12	20.01	20.03	20.01			21	1
10	16QAM	25	25	19.91	19.99	19.92				
10	16QAM	50	0	19.92	19.98	19.92				
Channel										
Frequency (MHz)				20925	21100	21425				
5	QPSK	1	0	21.10	21.05	21.05				
5	QPSK	1	12	20.95	21.01	20.97			22	0
5	QPSK	1	24	20.98	21.00	21.06				
5	QPSK	12	0	20.97	21.00	20.97				
5	QPSK	12	7	20.95	20.95	20.94			22	0
5	16QAM	1	0	21.00	21.02	21.00				
5	16QAM	1	12	20.98	20.91	20.99			22	0
5	16QAM	1	24	20.96	20.96	20.93				
5	16QAM	12	0	21.00	20.97	20.91				
5	16QAM	12	7	20.94	20.90	20.95			22	0
5	16QAM	12	13	20.94	20.95	20.96				
5	16QAM	25	0	20.98	20.94	20.99				
5	16QAM	1	0	20.89	20.93	20.94				
5	16QAM	1	12	20.96	20.93	20.88			22	0
5	16QAM	1	24	20.92	20.92	20.97				
5	16QAM	12	0	19.97	19.90	19.98				
5	16QAM	12	7	19.96	20.02	19.97			21	1
5	16QAM	12	13	19.97	20.00	19.96				
5	16QAM	25	0	19.95	19.92	19.97				

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	15.18	15.21	15.14			16.5	0
20	QPSK	1	99	15.18	15.21	15.14				
20	QPSK	50	0	15.12	15.19	15.11				
20	QPSK	50	99	15.11	15.14	15.10			16.5	0
20	16QAM	1	0	15.08	15.08	15.03				
20	16QAM	1	99	15.01	15.02	15.00			16.5	0
20	16QAM	50	0	15.06	15.05	15.00				
20	16QAM	50	99	15.05	15.05	15.00			16.5	0
20	16QAM	100	0	15.02	15.10	15.06				
20	16QAM	100	99	15.08	15.04	15.07			16.5	0
20	16QAM	1	99	15.05	15.06	15.07				
20	16QAM	50	0	15.08	15.04	15.05				
20	16QAM	50	99	15.08	15.12	15.04			16.5	0
20	16QAM	100	0	15.08	15.06	15.03				
20	16QAM	100	99	15.08	15.06	15.03				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	15.11	15.20	15.11				
15	QPSK	1	99	15.05	15.02	15.03			16.5	0
15	QPSK	1	74	15.11	15.11	15.11				
15	QPSK	36	0	15.08	15.07	15.06				
15	QPSK	36	99	15.02	15.04	15.04			16.5	0
15	QPSK	75	0	15.00	15.05	14.99				
15	16QAM	1	0	15.06	15.03	15.03				
15	16QAM	1	99	15.06	15.03	15.03			16.5	0
15	16QAM	1	74	14.96	15.01	15.01				
15	16QAM	36	0	15.09	15.10	15.09				
15	16QAM	36	99	15.02	15.03	14.99			16.5	0
15	16QAM	75	0	15.01	15.05	14.97				
15	16QAM	75	99	15.09	15.03	15.02			16.5	0
15	16QAM	1	99	14.99	14.96	14.99				
15	16QAM	36	0	14.98	14.96	14.99				
15	16QAM	36	99	15.11	15.11	15.11			16.5	0
15	16QAM	75	0	14.99	15.04	14.99				
15	16QAM	75	99	14.99	14.98	14.99				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	15.18	15.17	15.15				
10	QPSK	1	25	15.06	15.06	15.07			16.5	0
10	QPSK	1	49	15.17	15.18	15.10				
10	16QAM	36	0	15.07	15.06	15.13				
10	16QAM	25	12	15.07	15.00	15.09			16.5	0
10	16QAM	25	25	14.99	15.01	15.05				
10	16QAM	50	0	15.07	15.07	15.00				
10	16QAM	50	99	14.99	15.00	14.99			16.5	0
10	16QAM	1	25	15.04	15.07	15.10				
10	16QAM	1	49	15.03	15.00	15.03				
10	16QAM	25	0	15.03	15.04	15.09			16.5	0
10	16QAM	25	12	15.06	14.99	15.02				
10	16QAM	25	25	15.02	15.03	15.00				



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11					
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11					
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13					
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.86					
10	64QAM	25	25	21.12					
10	64QAM	50	0	21.06					
Channel									
23205 23230 23255									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.96	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.86	21.89	21.85			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.88	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17					
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17					
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52					
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09					
10	64QAM	50	0	21.00					
Channel									
23205 23230 23255									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.85	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.83			
5	16QAM	12	7	22.00	22.05	21.83			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.84	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760 23790 23800									
Frequency (MHz)									
10	QPSK	1	0	23.45	23.51	23.41			
10	QPSK	1	25	23.41	23.49	23.37			
10	QPSK	1	49	23.38	23.47	23.39			
10	QPSK	25	0	22.94	22.98	22.85			
10	QPSK	25	12	22.91	22.80	22.80			
10	QPSK	25	25	22.89	22.97	22.78			
10	QPSK	50	0	22.87	22.90	22.85			
10	16QAM	1	0	22.92	22.90	22.82			
10	16QAM	1	25	22.88	22.88	22.76			
10	16QAM	1	49	22.87	22.90	22.85			
10	16QAM	25	0	21.92	21.95	21.76			
10	16QAM	25	12	21.91	21.92	21.85			
10	16QAM	25	25	21.85	21.95	21.78			
10	16QAM	50	0	21.90	21.87	21.81			
10	64QAM	1	0	21.85	21.86	21.85			
10	64QAM	1	25	21.91	21.88	21.81			
10	64QAM	1	49	21.93	21.95	21.82			
10	64QAM	25	0	20.92	20.88	20.76			
10	64QAM	25	12	20.85	20.83	20.82			
10	64QAM	25	25	20.93	20.87	20.80			
10	64QAM	50	0	20.90	20.86	20.81			
Channel									
23755 23790 23825									
Frequency (MHz)									
5	QPSK	1	0	23.42	23.44	23.42			
5	QPSK	1	12	23.48	23.39	23.40			
5	QPSK	1	24	23.38	23.37	23.46			
5	QPSK	12	0	22.91	22.80	22.92			
5	QPSK	12	7	22.87	22.90	22.90			
5	QPSK	12	13	22.91	22.86	22.88			
5	QPSK	25	0	22.87	22.82	22.87			
5	16QAM	1	0	22.95	22.86	22.95			
5	16QAM	1	12	22.83	22.87	22.83			
5	16QAM	1	24	22.95	22.90	22.91			
5	16QAM	12	0	21.89	21.87	21.91			
5	16QAM	12	7	21.82	21.83	21.80			
5	16QAM	12	13	21.94	21.88	21.87			
5	16QAM	25	0	21.91	21.89	21.86			
5	64QAM	1	0	21.94	21.95	21.89			
5	64QAM	1	12	21.83	21.82	21.80			
5	64QAM	1	24	21.85	21.84	21.87			
5	64QAM	12	0	20.84	20.83	20.86			
5	64QAM	12	7	20.85	20.87	20.87			
5	64QAM	12	13	20.92	20.94	20.93			
5	64QAM	25	0	20.94	20.90	20.94			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760 23790 23800									
Frequency (MHz)									
10	QPSK	1	0	24.25	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.16	23.50			
10	16QAM	1	0	2					

Band 26_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Max/Ch./Freq	Power Min/Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.75	23.75	23.75	25	0		
15	QPSK	1	0	23.75	23.75	23.75	25	0		
15	QPSK	1	74	23.80	23.79	23.80	24	1		
15	QPSK	36	0	22.71	22.92	22.92	24	1		
15	QPSK	36	20	22.80	22.86	22.86	24	1		
15	QPSK	36	89	22.89	22.96	22.96	24	1		
15	QPSK	75	0	22.94	22.99	22.99	24	1		
15	16QAM	1	0	23.15	23.11	23.29	24	1		
15	16QAM	1	37	23.33	23.17	23.66	24	1		
15	16QAM	1	74	23.24	23.24	23.27	23	2		
15	16QAM	36	0	21.90	21.82	21.94	23	2		
15	16QAM	36	20	21.97	21.84	21.83	23	2		
15	16QAM	36	89	22.00	21.91	21.89	23	2		
15	16QAM	75	0	21.96	21.84	21.82	23	2		
15	16QAM	1	0	22.14	22.04	22.13	23	2		
15	16QAM	1	37	22.06	22.07	22.05	22	3		
15	16QAM	1	74	22.08	21.76	21.69	22	3		
15	16QAM	36	0	20.89	20.94	20.88	22	3		
15	16QAM	36	20	21.07	20.82	20.88	22	3		
15	16QAM	36	89	21.00	20.97	20.95	22	3		
15	16QAM	75	0	21.06	20.81	20.85	22	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.62	23.61	23.67	25	0		
10	QPSK	1	25	23.62	23.69	23.81	25	0		
10	QPSK	1	49	23.78	23.64	23.52	24	1		
10	QPSK	25	0	22.80	22.90	22.82	24	1		
10	QPSK	25	12	22.83	22.83	22.87	24	1		
10	QPSK	25	25	22.78	22.74	22.80	24	1		
10	QPSK	50	0	22.82	22.88	22.87	24	1		
10	16QAM	1	0	23.11	23.06	23.13	24	1		
10	16QAM	1	35	23.20	23.08	23.26	24	1		
10	16QAM	1	49	23.23	23.09	23.25	23	2		
10	16QAM	25	0	21.83	21.73	21.89	23	2		
10	16QAM	25	12	21.87	21.82	21.87	23	2		
10	16QAM	25	25	21.90	21.80	21.81	23	2		
10	16QAM	50	0	21.83	21.73	21.90	23	2		
10	16QAM	1	0	21.88	21.71	21.83	23	2		
10	16QAM	1	25	21.94	21.85	21.79	23	2		
10	16QAM	1	49	21.96	21.75	21.68	22	3		
10	16QAM	25	0	20.87	20.86	20.85	22	3		
10	16QAM	25	12	20.92	20.77	20.90	22	3		
10	16QAM	25	25	20.93	20.69	20.79	22	3		
10	16QAM	50	0	20.89	20.75	20.83	22	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.76	23.69	23.74	25	0		
5	QPSK	1	12	23.73	23.69	23.77	25	0		
5	QPSK	1	24	23.77	23.68	23.67	24	1		
5	QPSK	12	0	22.78	22.70	22.70	24	1		
5	QPSK	12	7	22.78	22.70	22.70	24	1		
5	QPSK	12	13	22.83	22.76	22.81	24	1		
5	QPSK	25	0	22.80	22.86	22.85	24	1		
5	16QAM	1	0	23.00	23.08	23.15	24	1		
5	16QAM	1	12	23.27	23.12	23.11	23	2		
5	16QAM	1	24	23.18	23.12	23.26	23	2		
5	16QAM	12	0	21.88	21.67	21.68	23	2		
5	16QAM	12	7	21.89	21.79	21.79	23	2		
5	16QAM	12	13	21.87	21.89	21.76	23	2		
5	16QAM	25	0	21.81	21.82	21.80	23	2		
5	16QAM	25	12	21.88	21.99	21.87	23	2		
5	16QAM	1	12	21.84	22.25	21.79	23	2		
5	16QAM	1	24	21.88	21.64	21.59	22	3		
5	16QAM	12	0	20.92	20.74	20.76	22	3		
5	16QAM	12	7	20.92	20.74	20.72	22	3		
5	16QAM	12	13	21.06	20.74	20.90	22	3		
5	16QAM	25	0	20.95	20.79	20.85	22	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.80	23.86	23.80	25	0		
3	QPSK	1	8	23.75	23.78	23.78	25	0		
3	QPSK	1	14	23.73	23.67	23.56	24	1		
3	QPSK	8	0	22.79	22.85	22.88	24	1		
3	QPSK	8	4	22.78	22.70	22.70	24	1		
3	QPSK	8	7	22.81	22.81	22.72	24	1		
3	QPSK	15	0	22.82	22.86	22.87	24	1		
3	16QAM	1	0	23.10	22.99	23.24	24	1		
3	16QAM	1	8	23.22	23.08	23.00	24	1		
3	16QAM	1	14	23.22	23.17	23.06	24	1		
3	16QAM	8	0	21.79	21.74	21.82	23	2		
3	16QAM	8	4	21.86	21.77	21.70	23	2		
3	16QAM	8	7	21.89	21.88	21.75	23	2		
3	16QAM	15	0	21.86	21.80	21.81	23	2		
3	16QAM	1	0	22.08	22.02	22.04	23	2		
3	16QAM	1	8	21.96	22.23	21.81	23	2		
3	16QAM	1	14	21.96	21.74	21.76	23	2		
3	16QAM	1	20	20.73	20.84	20.86	22	3		
3	16QAM	8	4	20.93	20.88	20.79	22	3		
3	16QAM	8	7	20.97	20.81	20.81	22	3		
3	16QAM	15	0	21.03	20.78	20.71	22	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.78	23.81	23.83	25	0		
1.4	QPSK	1	3	23.88	23.81	23.77	25	0		
1.4	QPSK	1	5	23.80	23.76	23.82	25	0		
1.4	QPSK	3	0	23.88	23.81	23.81	24	1		
1.4	QPSK	3	1	23.88	23.77	23.80	24	1		
1.4	QPSK	3	3	23.68	23.74	23.72	24	1		
1.4	QPSK	6	0	22.92	22.91	22.86	24	1		
1.4	16QAM	1	0	22.85	22.73	22.86	24	1		
1.4	16QAM	1	3	22.85	22.90	22.88	24	1		
1.4	16QAM	3	0	23.03	22.94	22.94	24	1		
1.4	16QAM	3	1	23.05	23.09	22.99	23	2		
1.4	16QAM	3	3	23.03	22.94	22.94	23	2		
1.4	16QAM	6	0	21.88	21.85	21.79	23	2		
1.4	16QAM	1	0	21.90	21.80	21.92	23	2		
1.4	16QAM	1	3	21.88	21.96	21.85	23	2		
1.4	16QAM	15	0	21.86	21.80	21.71	23	2		
1.4	16QAM	3	0	21.89	21.86	22.03	23	2		
1.4	16QAM	3	1	22.10	21.96	22.04	22	3		
1.4	16QAM	6	0	20.83	20.76	20.80	22	3		

Band 26_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Max/Ch./Freq	Power Min/Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.76	23.76	23.76	25	0		
15	QPSK	1	37	23.71	23.00	23.04	24	1		
15	QPSK	1	74	23.75	23.71	23.89	24	1		
15	QPSK	36	0	22.50	22.91	22.83	24	1		
15	QPSK	36	20	22.87	22.78	22.79	24	1		
15	QPSK	36	39	22.89	22.82	22.73	24	1		
15	QPSK	75	0	22.83	22.80	22.81	24	1		
15	16QAM	1	0	22.79	23.34	23.36	24	1		
15	16QAM	1	37	23.21	23.00	23.04	24	1		
15	16QAM	1	74	23.28	23.45	23.02	24	1		
15	16QAM	36	0	21.88	21.88	21.89	23	2		
15	16QAM	36	20	22.00	21.82	21.79	23	2		
15	16QAM	36	89	22.14	21.89	21.82	23	2		
15	16QAM	75	0	21.90	21.78	21.87	23	2		
15	16QAM	1	0	21.83	21.81	22.15	23	2		
15	16QAM	1	37	21.80	22.04	21.81	23	2		
15	16QAM	1	74	22.04	21.77	21.69	23	2		
15	16QAM	36	0	20.93	20.88	20.88	22	3		
15	16QAM	36	20	21.00	20.80	21.00	22	3		
15	16QAM	36	89	20.83	20.84	20.82	22	3		
15	16QAM	75	0	2						



Band 66_Ant 11

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	16.50	16.51	16.51	17.5	0
20	QPSK	1	46	16.50	16.51	16.51		
20	QPSK	1	99	16.47	16.58	16.46		
20	QPSK	50	0	16.51	16.55	16.54		
20	QPSK	50	24	16.47	16.48	16.35		
20	QPSK	50	50	16.48	16.50	16.42		
20	QPSK	100	0	16.45	16.50	16.36		
20	16QAM	1	0	16.49	16.51	16.39		
20	16QAM	1	46	16.43	16.51	16.38		
20	16QAM	1	99	16.41	16.50	16.39		
20	16QAM	50	0	16.45	16.48	16.35		
20	16QAM	50	24	16.46	16.45	16.37		
20	16QAM	50	50	16.49	16.50	16.40		
20	64QAM	100	0	16.42	16.48	16.38		
20	64QAM	1	0	16.42	16.50	16.37		
20	64QAM	1	46	16.43	16.52	16.40		
20	64QAM	1	99	16.41	16.54	16.34		
20	64QAM	50	0	16.46	16.50	16.40		
20	64QAM	50	24	16.44	16.47	16.43		
20	64QAM	50	50	16.41	16.43	16.35		
20	64QAM	100	0	16.44	16.54	16.40		
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.53	16.50	16.55	17.5	0
15	QPSK	1	37	16.44	16.48	16.41		
15	QPSK	1	74	16.51	16.54	16.49		
15	QPSK	36	0	16.51	16.47	16.54		
15	QPSK	36	20	16.38	16.47	16.42		
15	QPSK	36	39	16.47	16.45	16.45		
15	QPSK	75	0	16.41	16.42	16.44		
15	16QAM	1	0	16.49	16.41	16.47		
15	16QAM	1	37	16.45	16.48	16.48		
15	16QAM	1	74	16.45	16.47	16.44		
15	16QAM	36	0	16.45	16.41	16.39		
15	16QAM	36	20	16.39	16.45	16.41		
15	16QAM	36	39	16.46	16.44	16.43		
15	16QAM	75	0	16.47	16.41	16.40		
15	64QAM	1	0	16.41	16.48	16.46		
15	64QAM	1	37	16.43	16.50	16.49		
15	64QAM	1	74	16.46	16.46	16.52		
15	64QAM	36	0	16.40	16.48	16.49		
15	64QAM	36	20	16.37	16.41	16.43		
15	64QAM	36	39	16.43	16.45	16.43		
15	64QAM	75	0	16.50	16.49	16.49		
Channel								
Frequency (MHz)								
10	QPSK	1	0	16.60	16.57	16.59	17.5	0
10	QPSK	1	25	16.46	16.43	16.46		
10	QPSK	1	49	16.57	16.57	16.48		
10	QPSK	25	0	16.50	16.54	16.46		
10	QPSK	25	12	16.44	16.40	16.39		
10	QPSK	25	25	16.40	16.46	16.41		
10	QPSK	50	0	16.43	16.44	16.42		
10	16QAM	1	0	16.44	16.46	16.47		
10	16QAM	1	25	16.46	16.46	16.44		
10	16QAM	1	49	16.44	16.46	16.43		
10	16QAM	25	0	16.46	16.45	16.38		
10	16QAM	25	12	16.41	16.40	16.42		
10	16QAM	25	25	16.42	16.42	16.40		
10	16QAM	50	0	16.40	16.46	16.41		
10	64QAM	1	0	16.46	16.42	16.42		
10	64QAM	1	25	16.46	16.45	16.49		
10	64QAM	1	49	16.53	16.44	16.50		
10	64QAM	25	0	16.46	16.41	16.49		
10	64QAM	25	12	16.45	16.41	16.41		
10	64QAM	25	25	16.48	16.49	16.52		
10	64QAM	50	0	16.44	16.45	16.45		
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.58	16.59	16.58	17.5	0
5	QPSK	1	12	16.47	16.50	16.44		
5	QPSK	1	24	16.55	16.50	16.50		
5	QPSK	12	0	16.45	16.48	16.50		
5	QPSK	12	7	16.39	16.39	16.47		
5	QPSK	12	13	16.41	16.44	16.47		
5	QPSK	25	0	16.47	16.45	16.48		
5	16QAM	1	0	16.50	16.41	16.47		
5	16QAM	1	12	16.49	16.48	16.49		
5	16QAM	1	24	16.40	16.42	16.41		
5	16QAM	12	0	16.41	16.41	16.40		
5	16QAM	12	7	16.44	16.41	16.36		
5	16QAM	12	13	16.40	16.41	16.42		
5	16QAM	25	0	16.44	16.38	16.45		
5	64QAM	1	0	16.42	16.40	16.40		
5	64QAM	1	12	16.50	16.48	16.49		
5	64QAM	1	24	16.52	16.47	16.44		
5	64QAM	12	0	16.45	16.44	16.41		
5	64QAM	12	7	16.41	16.39	16.43		
5	64QAM	12	13	16.45	16.51	16.52		
5	64QAM	25	0	16.47	16.46	16.49		
Channel								
Frequency (MHz)								
3	QPSK	1	0	16.53	16.50	16.59	17.5	0
3	QPSK	1	8	16.42	16.44	16.42		
3	QPSK	1	14	16.36	16.53	16.50		
3	QPSK	8	0	16.51	16.52	16.48		
3	QPSK	8	4	16.40	16.40	16.43		
3	QPSK	8	7	16.41	16.40	16.42		
3	QPSK	15	0	16.41	16.42	16.49		
3	16QAM	1	0	16.45	16.48	16.47		
3	16QAM	1	8	16.42	16.44	16.49		
3	16QAM	1	14	16.41	16.47	16.47		
3	16QAM	8	0	16.38	16.46	16.47		
3	16QAM	8	4	16.42	16.39	16.39		
3	16QAM	8	7	16.49	16.49	16.44		
3	16QAM	15	0	16.40	16.45	16.42		
3	64QAM	1	0	16.42	16.47	16.48		
3	64QAM	1	8	16.50	16.50	16.46		
3	64QAM	1	14	16.48	16.49	16.51		
3	64QAM	8	0	16.48	16.40	16.45		
3	64QAM	8	4	16.39	16.41	16.40		
3	64QAM	8	7	16.44	16.51	16.52		
3	64QAM	15	0	16.48	16.47	16.49		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	16.60	16.56	16.51	17.5	0
1.4	QPSK	1	3	16.45	16.44	16.47		
1.4	QPSK	1	5	16.57	16.51	16.50		
1.4	QPSK	3	0	16.46	16.48	16.50		
1.4	QPSK	3	1	16.45	16.47	16.41		
1.4	QPSK	3	3	16.45	16.41	16.42		
1.4	QPSK	6	0	16.44	16.48	16.47		
1.4	16QAM	1	0	16.45	16.42	16.41		
1.4	16QAM	1	3	16.45	16.50	16.46		
1.4	16QAM	1	5	16.40	16.47	16.48		
1.4	16QAM	3	0	16.41	16.39	16.41		
1.4	16QAM	3	1	16.37	16.39	16.42		
1.4	16QAM	3	3	16.45	16.43	16.43		
1.4	16QAM	6	0	16.42	16.39	16.38		
1.4	64QAM	1	0	16.49	16.43	16.47		
1.4	64QAM	1	3	16.47	16.46	16.44		
1.4	64QAM	1	5	16.51	16.52	16.49		
1.4	64QAM	3	0	16.43	16.43	16.49		
1.4	64QAM	3	1	16.43	16.39	16.42		
1.4	64QAM	3	3	16.49	16.49	16.48		
1.4	64QAM	6	0	16.48	16.46	16.51		



Band 38_Ant 13										
BW [MHz]	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)							2575	2595	2615	
20	QPSK	1	0	14.51	14.58	14.55				
20	QPSK	1	49	14.45	14.51	14.53	15.5	0		
20	QPSK	1	99	14.47	14.50	14.48				
20	QPSK	50	0	14.47	14.56	14.46				
20	QPSK	50	24	14.42	14.52	14.41	15.5	0		
20	QPSK	50	50	14.39	14.47	14.43				
20	QPSK	100	0	14.38	14.53	14.38				
20	16QAM	1	0	14.46	14.51	14.37				
20	16QAM	1	49	14.37	14.49	14.45	15.5	0		
20	16QAM	1	99	14.43	14.50	14.42				
20	16QAM	50	0	14.44	14.51	14.43				
20	16QAM	50	24	14.39	14.46	14.38	15.5	0		
20	16QAM	50	50	14.41	14.49	14.36				
20	16QAM	100	0	14.43	14.51	14.41				
20	64QAM	1	0	14.44	14.50	14.45				
20	64QAM	1	49	14.42	14.50	14.42	15.5	0		
20	64QAM	1	99	14.39	14.45	14.39				
20	64QAM	50	0	14.41	14.53	14.42				
20	64QAM	50	24	14.41	14.46	14.36	15.5	0		
20	64QAM	50	50	14.41	14.51	14.44				
20	64QAM	100	0	14.37	14.48	14.44				
Channel							37625	38000	38175	
Frequency (MHz)							2572.5	2595	2612.5	
15	QPSK	1	0	14.51	14.56	14.54				
15	QPSK	1	37	14.47	14.46	14.46	15.5	0		
15	QPSK	1	74	14.48	14.48	14.47				
15	QPSK	36	0	14.54	14.53	14.50				
15	QPSK	36	20	14.45	14.49	14.42	15.5	0		
15	QPSK	36	39	14.38	14.42	14.38				
15	QPSK	75	0	14.45	14.44	14.48				
15	16QAM	1	0	14.43	14.45	14.48				
15	16QAM	1	37	14.44	14.39	14.39	15.5	0		
15	16QAM	1	74	14.45	14.49	14.42				
15	16QAM	36	0	14.45	14.53	14.53				
15	16QAM	36	20	14.39	14.43	14.38	15.5	0		
15	16QAM	36	39	14.39	14.43	14.48				
15	16QAM	75	0	14.42	14.48	14.47				
15	64QAM	1	0	14.49	14.46	14.48				
15	64QAM	1	37	14.47	14.44	14.44	15.5	0		
15	64QAM	1	74	14.44	14.43	14.48				
15	64QAM	36	0	14.44	14.51	14.49				
15	64QAM	36	20	14.41	14.43	14.45	15.5	0		
15	64QAM	36	39	14.44	14.47	14.48				
15	64QAM	75	0	14.39	14.46	14.45				
Channel							37800	38000	38200	
Frequency (MHz)							2577.5	2595	2615	
10	QPSK	1	0	14.46	14.46	14.52				
10	QPSK	1	25	14.47	14.47	14.47	15.5	0		
10	QPSK	1	49	14.47	14.42	14.40				
10	QPSK	25	0	14.48	14.50	14.46				
10	QPSK	25	12	14.44	14.44	14.50	15.5	0		
10	QPSK	25	25	14.37	14.46	14.42				
10	QPSK	50	0	14.50	14.47	14.52				
10	16QAM	1	0	14.50	14.44	14.46				
10	16QAM	1	25	14.43	14.45	14.41	15.5	0		
10	16QAM	1	49	14.42	14.45	14.49				
10	16QAM	25	0	14.53	14.45	14.46				
10	16QAM	25	12	14.41	14.44	14.41	15.5	0		
10	16QAM	25	25	14.42	14.47	14.45				
10	16QAM	50	0	14.42	14.42	14.46				
10	64QAM	1	0	14.41	14.46	14.47				
10	64QAM	1	25	14.47	14.45	14.47	15.5	0		
10	64QAM	1	49	14.44	14.45	14.49				
10	64QAM	25	0	14.51	14.49	14.48				
10	64QAM	25	12	14.41	14.40	14.44	15.5	0		
10	64QAM	25	25	14.50	14.50	14.47				
10	64QAM	50	0	14.38	14.45	14.43				
Channel							37775	38000	38225	
Frequency (MHz)							2572.5	2595	2617.5	
5	QPSK	1	0	14.55	14.49	14.52				
5	QPSK	1	12	14.47	14.42	14.45	15.5	0		
5	QPSK	1	24	14.42	14.47	14.41				
5	QPSK	12	0	14.50	14.50	14.51				
5	QPSK	12	7	14.43	14.47	14.43	15.5	0		
5	QPSK	12	13	14.42	14.38	14.46				
5	QPSK	25	0	14.45	14.47	14.48				
5	16QAM	1	0	14.42	14.50	14.41	15.5	0		
5	16QAM	1	12	14.41	14.47	14.47				
5	16QAM	1	24	14.43	14.40	14.45				
5	16QAM	12	0	14.51	14.49	14.45				
5	16QAM	12	7	14.40	14.39	14.44	15.5	0		
5	16QAM	12	13	14.43	14.44	14.42				
5	16QAM	25	0	14.49	14.49	14.47				
5	64QAM	1	0	14.48	14.48	14.42	15.5	0		
5	64QAM	1	12	14.46	14.46	14.47				
5	64QAM	1	24	14.46	14.42	14.50				
5	64QAM	12	0	14.51	14.44	14.52				
5	64QAM	12	7	14.39	14.37	14.43	15.5	0		
5	64QAM	12	13	14.43	14.46	14.44				
5	64QAM	25	0	14.45	14.44	14.41				

Band 38_Ant 31										
BW [MHz]	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	23.42	23.65	23.58				
20	QPSK	1	49	23.43	23.46	23.57	24.5	0		
20	QPSK	1	99	23.44	23.56	23.52				
20	QPSK	50	0	22.70	22.79	22.73				
20	QPSK	50	24	22.66	22.62	22.62	23.5	1		
20	QPSK	50	50	22.54	22.62	22.58				
20	QPSK	100	0	22.71	22.77	22.52				
20	16QAM	1	0	22.71	22.42	22.43				
20	16QAM	1	49	22.86	22.81	22.74	23.5	1		
20	16QAM	1	99	22.54	23.03	22.84				
20	16QAM	50	0	21.57	21.46	21.43				
20	16QAM	50	24	21.80	21.61	21.70	22.5	1		
20	16QAM	50	50	21.72	21.74	21.73				
20	16QAM	100	0	21.65	21.62	21.62				
20	64QAM	1	0	21.82	22.01	21.13				
20	64QAM	1	49	21.52	21.87	21.65	22.5	2		
20	64QAM	1	99	21.69	21.72	21.52				
20	64QAM	50	0	20.57	20.52	20.55				
20	64QAM	50	24	20.67	20.58	20.69	21.5	3		
20	64QAM	50	50	20.78	20.84	20.71				
20	64QAM	100	0	20.76	20.60	20.49				
Channel							37825	38000	38175	
Frequency (MHz)							2577.5	2595	2612.5	
15	QPSK	1	0	23.37	23.50	23.56				
15	QPSK	1	37	23.30	23.31	23.56	24.5	0		
15	QPSK	1	74	23.30	23.47	23.43				
15	QPSK	36	0	22.54	22.66	22.63				
15	QPSK	36	20	22.52	22.51	22.61	23.5	1		
15	QPSK	36	39	22.49	22.54	22.52				
15	QPSK	75	0	22.60	22.63	22.46				
15	16QAM	1	0	22.57	22.30	22.31				
15	16QAM	1	37	22.83	22.71	22.83	23.5	1		
15	16QAM	1	74	22.47	22.87	22.83				
15	16QAM	36	0	21.47	21.45	21.35				
15	16QAM	36	20	21.69	21.67	21.42	22.5	2		
15	16QAM	36	39	21.63	21.73	21.65				
15	16QAM	75	0	21.58	21.58	21.61				
15	64QAM	1	0	21.67	21.93	21.09				
15	64QAM	1	37	21.38	21.75	21.59	22.5	2		
15	64QAM	1	74	21.69	21.67	21.42				
15	64QAM	36	0	20.46	20.47	20.42				
15	64QAM	36	20	20.59	20.53	20.58	21.5	3		
15	64QAM	36	39	20.71	20.69	20.66				
15	64QAM	75	0	20.65	20.50	20.40				
Channel							37800	38000	38200	
Frequency (MHz)							2575	2595	2615	
10	QPSK	1	0	23.46	23.63	23.53				
10	QPSK	1	25	23.46	23.44	23.52	24.5	0		
10	QPSK	1	49	23.28	23.49	23.50				
10	QPSK	25	0	22.66	22.73	22.64				
10	QPSK	25	12	22.82	22.55	22.58	23.5	1		
10	QPSK	25	25	22.53	22.47	22.50				
10	QPSK	50	0	22.70	22.64	22.42				
10	16QAM	1	0	22.68	22.33	22.38				
10	16QAM	1	25	22.72	22.72	22.80	23.5	1		
10	16QAM	1	49	22.49	23.01	22.74				
10	16QAM	25	0	21.42	21.32	21.28				
10	16QAM									



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
				2501	2545.5	2593	2638.5	2686			
20	QPSK	1	0	15.57	15.56	15.56	15.56	15.56			
20	QPSK	1	49	15.55	15.48	15.56	15.48	15.50		16.5	0
20	QPSK	1	99	15.52	15.55	15.60	15.48	15.53			
20	QPSK	50	0	15.55	15.47	15.63	15.54	15.56			
20	QPSK	50	24	15.53	15.38	15.62	15.51	15.50		18.5	0
20	16QAM	50	0	15.46	15.45	15.54	15.48	15.47			
20	16QAM	100	0	15.52	15.40	15.56	15.47	15.48			
20	16QAM	1	0	15.48	15.40	15.62	15.52	15.47			
20	16QAM	1	49	15.47	15.42	15.58	15.44	15.49		16.5	0
20	16QAM	1	99	15.48	15.39	15.62	15.50	15.55			
20	16QAM	50	24	15.52	15.43	15.53	15.49	15.55		16.5	0
20	16QAM	50	50	15.45	15.43	15.59	15.47	15.48			
20	16QAM	100	0	15.48	15.37	15.55	15.52	15.54			
20	16QAM	1	0	15.53	15.45	15.57	15.51	15.54			
20	16QAM	1	49	15.50	15.40	15.53	15.52	15.52		16.5	0
20	16QAM	1	99	15.51	15.45	15.54	15.45	15.50			
20	16QAM	50	0	15.53	15.45	15.62	15.45	15.52			
20	16QAM	50	24	15.54	15.37	15.56	15.48	15.53		16.5	0
20	16QAM	50	50	15.45	15.41	15.58	15.47	15.46			
20	16QAM	100	0	15.45	15.40	15.58	15.48	15.47			
Channel											
Frequency (MHz)				39725	40173	40620	41068	41515			
				2297.5	2343	2393	2438.5	2486			
15	QPSK	1	0	15.57	15.49	15.58	15.63	15.62			
15	QPSK	1	37	15.53	15.49	15.46	15.49	15.51		16.5	0
15	QPSK	1	74	15.50	15.55	15.58	15.52	15.54			
15	QPSK	36	0	15.59	15.60	15.55	15.60	15.61			
15	QPSK	36	20	15.58	15.56	15.56	15.59	15.59		16.5	0
15	QPSK	36	39	15.52	15.52	15.55	15.48	15.54			
15	QPSK	75	0	15.47	15.51	15.48	15.48	15.50			
15	16QAM	1	0	15.55	15.54	15.54	15.61	15.53			
15	16QAM	1	37	15.51	15.55	15.54	15.48	15.50		16.5	0
15	16QAM	1	74	15.54	15.56	15.57	15.58	15.61			
15	16QAM	36	0	15.53	15.52	15.47	15.51	15.45			
15	16QAM	36	20	15.57	15.48	15.46	15.45	15.50		16.5	0
15	16QAM	36	39	15.56	15.54	15.49	15.57	15.53			
15	16QAM	75	0	15.54	15.45	15.53	15.48	15.49			
15	16QAM	1	0	15.54	15.51	15.55	15.47	15.56			
15	16QAM	1	37	15.49	15.51	15.52	15.49	15.45		16.5	0
15	16QAM	1	74	15.50	15.48	15.46	15.44	15.50			
15	16QAM	36	0	15.54	15.56	15.52	15.61	15.55			
15	16QAM	36	20	15.53	15.53	15.47	15.47	15.54			
15	16QAM	36	39	15.54	15.56	15.54	15.55	15.49			
15	16QAM	75	0	15.50	15.54	15.50	15.52	15.49			
Channel											
Frequency (MHz)				39700	40160	40620	41080	41540			
				2501	2547	2593	2639	2685			
10	QPSK	1	0	15.60	15.65	15.57	15.59	15.65			
10	QPSK	1	25	15.48	15.54	15.46	15.54	15.46		16.5	0
10	QPSK	1	49	15.54	15.53	15.56	15.53	15.56			
10	QPSK	25	0	15.59	15.60	15.55	15.56	15.61			
10	QPSK	25	12	15.60	15.58	15.58	15.57	15.57		16.5	0
10	QPSK	25	25	15.50	15.48	15.54	15.51	15.54			
10	QPSK	50	0	15.53	15.49	15.48	15.49	15.47			
10	16QAM	1	0	15.57	15.60	15.54	15.58	15.56			
10	16QAM	1	25	15.51	15.56	15.52	15.53	15.50		16.5	0
10	16QAM	1	49	15.52	15.52	15.53	15.53	15.57			
10	16QAM	25	0	15.50	15.48	15.50	15.44	15.46			
10	16QAM	25	12	15.52	15.43	15.45	15.43	15.47		16.5	0
10	16QAM	25	25	15.52	15.51	15.56	15.50	15.53			
10	16QAM	50	0	15.47	15.52	15.48	15.48	15.53			
10	16QAM	1	0	15.49	15.49	15.55	15.52	15.54			
10	16QAM	1	25	15.48	15.43	15.44	15.43	15.49		16.5	0
10	16QAM	1	49	15.44	15.48	15.45	15.52	15.46			
10	16QAM	25	0	15.50	15.52	15.58	15.54	15.56			
10	16QAM	25	12	15.48	15.49	15.51	15.49	15.53		16.5	0
10	16QAM	25	25	15.57	15.53	15.47	15.49	15.50			
10	16QAM	50	0	15.56	15.54	15.57	15.49	15.56			
Channel											
Frequency (MHz)				39675	40148	40620	41093	41565			
				2498.5	2545.5	2593	2640.30	2687.5			
5	QPSK	1	0	15.62	15.62	15.59	15.58	15.64			
5	QPSK	1	12	15.48	15.54	15.46	15.54	15.46		16.5	0
5	QPSK	1	24	15.57	15.57	15.54	15.55	15.50			
5	QPSK	12	0	15.53	15.58	15.61	15.63	15.61			
5	QPSK	12	7	15.60	15.61	15.54	15.55	15.54		16.5	0
5	QPSK	12	13	15.46	15.51	15.53	15.48	15.47			
5	QPSK	25	0	15.55	15.47	15.48	15.50	15.49			
5	16QAM	1	0	15.61	15.53	15.57	15.58	15.52		16.5	0
5	16QAM	1	12	15.51	15.51	15.57	15.57	15.48			
5	16QAM	1	24	15.54	15.56	15.57	15.53	15.60			
5	16QAM	12	0	15.45	15.49	15.52	15.45	15.53			
5	16QAM	12	7	15.52	15.47	15.52	15.50	15.51		16.5	0
5	16QAM	12	13	15.57	15.51	15.57	15.55	15.51			
5	16QAM	25	0	15.50	15.54	15.49	15.45	15.46			
5	16QAM	1	0	15.56	15.50	15.50	15.47	15.50			
5	16QAM	1	12	15.47	15.45	15.45	15.50	15.50		16.5	0
5	16QAM	1	24	15.44	15.47	15.44	15.51	15.44			
5	16QAM	12	0	15.53	15.53	15.52	15.52	15.55			
5	16QAM	12	7	15.46	15.54	15.53	15.49	15.47		16.5	0
5	16QAM	12	13	15.54	15.57	15.52	15.55	15.53			
5	16QAM	25	0	15.57	15.53	15.55	15.57	15.52			

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
				2508	2548.5	2593	2638.5	2686			
20	QPSK	1	0	23.26	23.45	23.72	23.50	23.61			
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49		24.5	0
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56			
20	QPSK	50	0	22.60	22.66	22.70	22.57	22.66			
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51		23.5	1
20	16QAM	50	0	21.41	21.52	21.58	21.55	21.60			
20	16QAM	100	0	22.47	22.61	22.69	22.45	22.52			
20	16QAM	1	0	22.06	22.54	22.51	22.26	22.48			
20	16QAM	1	49	22.31	22.63	22.56	22.37	22.23		23.5	1
20	16QAM	1	99	22.31	22.33	22.80	22.42	22.55			
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58		22.5	2
20	16QAM	50	50	21.51	21.46	21.69	21.52	21.67			
20	16QAM	100	0	21.51	21.48	21.63	21.31	21.54			
20	16QAM	1	0	21.27	21.57	21.35	21.88	21.35			
20	16QAM	1	49	21.45	21.50	21.43	21.51	21.30		22.5	2



Reduced Power Mode for DSI9

GSM850_Ant 13	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.6	824.2	836.4	848.6	824.2	848.6
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	848.6
GSM 1 Tx slot	32.60	32.92	32.78	33.50	23.65	23.92	23.78	24.50
GPRS/EDGE GSMK 1 Tx slot	32.83	32.90	32.74	33.50	23.83	23.90	23.74	24.50
GPRS/EDGE GSMK 2 Tx slots	30.33	30.53	30.45	31.50	24.33	24.53	24.45	25.50
GPRS/EDGE GSMK 3 Tx slots	28.36	28.89	28.01	29.50	24.10	24.63	23.75	25.24
GPRS/EDGE GSMK 4 Tx slots	27.17	27.40	27.22	28.00	24.17	24.40	24.22	25.00
EDGE BPSK 1 Tx slot	26.88	26.79	26.80	26.00	17.86	17.79	17.80	19.00
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	25.00	15.12	15.01	15.02	20.00
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74
EDGE BPSK 4 Tx slots	21.52	21.56	21.63	22.50	18.52	18.56	18.63	19.50

GSM1900_Ant 13	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	1909.8
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1909.8
GSM 1 Tx slot	28.99	28.78	27.07	27.50	17.99	17.78	18.07	18.50
GPRS/EDGE GSMK 1 Tx slot	28.88	28.77	27.05	27.50	17.98	17.77	18.05	18.50
GPRS/EDGE GSMK 2 Tx slots	23.93	23.86	23.67	25.50	17.93	17.86	17.67	19.00
GPRS/EDGE GSMK 3 Tx slots	22.20	22.20	22.19	23.50	18.00	17.94	17.83	19.24
GPRS/EDGE GSMK 4 Tx slots	20.82	20.97	20.95	22.00	17.92	17.97	17.85	19.00
EDGE BPSK 1 Tx slot	26.12	26.39	26.01	27.00	17.12	17.39	17.01	18.00
EDGE BPSK 2 Tx slots	24.30	24.24	24.38	25.00	18.30	18.24	18.38	19.00
EDGE BPSK 3 Tx slots	22.37	22.31	22.30	23.00	18.11	18.05	18.04	18.74
EDGE BPSK 4 Tx slots	20.56	20.51	20.52	21.50	17.56	17.51	17.52	18.50

Band	WCDMA II_Ant 13			Tune-up Limit (dBm)	WCDMA II_Ant 31			Tune-up Limit (dBm)	
	9262	9400	9538		9262	9400	9538		
TX Channel	9662	9600	9596	9662	9600	9596	9662	9596	
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6	1852.4	1907.6	
3GPP Rel 99	AMR 12.2Kbps	15.91	15.95	15.89	16.50	20.40	20.42	20.36	21.00
3GPP Rel 99	RMC 12.2Kbps	15.95	15.98	15.93	16.50	20.41	20.44	20.39	21.00
3GPP Rel 6	HSDPA Subtest-1	14.85	14.78	14.78	16.00	19.33	19.35	19.28	20.50
3GPP Rel 6	HSDPA Subtest-2	14.88	14.80	14.83	16.00	19.43	19.37	19.33	20.50
3GPP Rel 6	HSDPA Subtest-3	14.36	14.24	14.23	15.50	18.87	18.76	18.90	20.00
3GPP Rel 6	HSDPA Subtest-4	14.41	14.32	14.25	15.50	18.90	18.81	18.90	20.00
3GPP Rel 6	DC-HSDPA Subtest-1	14.74	14.64	14.69	16.00	19.36	19.28	19.19	20.50
3GPP Rel 6	DC-HSDPA Subtest-2	14.82	14.61	14.68	16.00	19.34	19.27	19.26	20.50
3GPP Rel 6	DC-HSDPA Subtest-3	14.37	14.20	14.18	15.50	18.71	18.64	18.73	20.00
3GPP Rel 6	DC-HSDPA Subtest-4	14.25	14.19	14.19	15.50	18.94	18.75	18.76	20.00
3GPP Rel 6	HSUPA Subtest-1	14.84	14.83	14.77	16.00	19.40	19.41	19.36	20.50
3GPP Rel 6	HSUPA Subtest-2	12.77	12.77	12.87	14.00	17.36	17.40	17.36	18.50
3GPP Rel 6	HSUPA Subtest-3	13.82	13.83	13.81	15.00	18.29	18.33	18.33	19.50
3GPP Rel 6	HSUPA Subtest-4	12.88	12.81	12.76	14.00	17.32	17.34	17.29	18.50
3GPP Rel 6	HSUPA Subtest-5	14.79	14.74	14.74	16.00	19.40	19.34	19.28	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.75	13.75	13.71	15.00	18.31	18.50	18.28	19.50

Band	WCDMA V_Ant 13			Tune-up Limit (dBm)	WCDMA V_Ant 31			Tune-up Limit (dBm)	
	4132	4182	4233		4132	4182	4233		
TX Channel	4357	4407	4458	4357	4407	4458	4357	4458	
Rx Channel	856.4	836.4	846.6	856.4	836.4	846.6	856.4	846.6	
Frequency (MHz)	856.4	836.4	846.6	856.4	836.4	846.6	856.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.33	24.38	24.36	25.00	24.25	24.37	24.35	25.00
3GPP Rel 99	RMC 12.2Kbps	24.35	24.40	24.37	25.00	24.27	24.39	24.38	25.00
3GPP Rel 6	HSDPA Subtest-1	23.52	23.61	23.58	24.50	23.46	23.53	23.57	24.50
3GPP Rel 6	HSDPA Subtest-2	23.54	23.57	23.59	24.50	23.47	23.54	23.54	24.50
3GPP Rel 6	HSDPA Subtest-3	22.90	23.08	23.08	24.00	22.94	22.97	23.10	24.00
3GPP Rel 6	HSDPA Subtest-4	23.02	23.09	23.08	24.00	22.94	23.00	23.05	24.00
3GPP Rel 6	DC-HSDPA Subtest-1	23.39	23.24	23.55	24.50	23.45	23.47	23.59	24.50
3GPP Rel 6	DC-HSDPA Subtest-2	23.60	23.41	23.48	24.50	23.45	23.47	23.53	24.50
3GPP Rel 6	DC-HSDPA Subtest-3	22.97	22.96	23.00	24.00	22.83	22.88	22.95	24.00
3GPP Rel 6	DC-HSDPA Subtest-4	22.90	22.96	22.99	24.00	22.81	22.85	23.04	24.00
3GPP Rel 6	HSUPA Subtest-1	23.52	23.55	23.60	24.50	23.46	23.55	23.57	24.50
3GPP Rel 6	HSUPA Subtest-2	21.54	21.59	21.59	22.50	21.50	21.51	21.51	22.50
3GPP Rel 6	HSUPA Subtest-3	22.95	22.97	23.00	24.00	22.47	22.51	22.53	23.50
3GPP Rel 6	HSUPA Subtest-4	21.56	21.59	21.58	23.00	21.52	21.47	21.58	23.00
3GPP Rel 6	HSUPA Subtest-5	23.60	23.60	23.60	24.50	23.50	23.60	23.50	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.66	22.67	22.64	23.50	22.51	22.53	22.51	23.50

GSM850_Ant 31	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.6	824.2	836.4	848.6	824.2	848.6
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	848.6
GSM 1 Tx slot	32.60	32.95	32.74	33.50	23.60	23.95	23.74	24.50
GPRS/EDGE GSMK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50
GPRS/EDGE GSMK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50
GPRS/EDGE GSMK 3 Tx slots	27.60	28.85	28.82	29.50	23.34	24.59	24.36	25.24
GPRS/EDGE GSMK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	26.00	17.89	17.83	17.80	19.00
EDGE BPSK 2 Tx slots	24.98	24.81	25.01	26.00	18.98	18.81	19.01	20.00
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74
EDGE BPSK 4 Tx slots	21.63	21.38	21.56	22.50	18.63	18.38	18.56	19.50

GSM1900_Ant 31	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	1909.8
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1850.2	1909.8
GSM 1 Tx slot	29.37	29.40	29.33	30.00	20.37	20.40	20.33	21.00
GPRS/EDGE GSMK 1 Tx slot	29.34	29.36	29.30	30.00	20.34	20.36	20.30	21.00
GPRS/EDGE GSMK 2 Tx slots	26.56	26.58	26.55	28.00	20.56	20.58	20.55	22.00
GPRS/EDGE GSMK 3 Tx slots	24.60	24.63	24.58	26.00	20.34	20.37	20.32	21.74
GPRS/EDGE GSMK 4 Tx slots	23.38	23.42	23.36	24.50	20.38	20.42	20.36	21.50
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	16.91	16.96	17.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00
EDGE BPSK 3 Tx slots	22.18	22.17	22.35	23.00	17.92	17.91	18.09	18.74
EDGE BPSK 4 Tx slots	20.64	20.57	20.56	21.50	17.64	17.57	17.58	18.50

Band	WCDMA IV_Ant 13			Tune-up Limit (dBm)	WCDMA IV_Ant 31			Tune-up Limit (dBm)	
	1312	1413	1513		1312	1413	1513		
TX Channel	1537	1590	1738	1537	1590	1738	1537	1738	
Rx Channel	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6	1712.4	1752.6	
Frequency (MHz)	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6	1712.4	1752.6	
3GPP Rel 99	AMR 12.2Kbps	16.91	16.97	16.93	17.50	20.85	20.86	20.82	21.50
3GPP Rel 99	RMC 12.2Kbps	16.94	16.98	16.96	17.50	20.87	20.89	20.85	21.50
3GPP Rel 6	HSDPA Subtest-1	15.79	15.83	15.88	17.00	19.90	20.05	19.94	21.00
3GPP Rel 6	HSDPA Subtest-2	15.74	15.91	15.88	17.00	19.87	20.00	19.96	21.00
3GPP Rel 6	HSDPA Subtest-3	15.20	15.43	15.33	16.50	19.39	19.51	19.50	20.50
3GPP Rel 6	HSDPA Subtest-4	15.23	15.38	15.38	16.50	19.47	19.53	19.46	20.50
3GPP Rel 6	DC-HSDPA Subtest-1	15.72	15.81	15.81	17.00	19.84	19.83	19.82	21.00
3GPP Rel 6	DC-HSDPA Subtest-2	15.70	15.72	15.76	17.00	19.78	19.88	19.90	21.00
3GPP Rel 6	DC-HSDPA Subtest-3	15.22	15.30	15.19	16.50	19.41	19.49	19.48	20.50
3GPP Rel 6	DC-HSDPA Subtest-4	15.25	15.40	15.26	16.50	19.33	19.54	19.42	20.50
3GPP Rel 6	HSUPA Subtest-1	15.84	16.00	15.92	17.00	19.89	20.07	19.97	21.00
3GPP Rel 6	HSUPA Subtest-2	13.90	13.87	13.94	15.00	17.95			



Band 2_Ant 13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.36	17.43	17.51	18.5	0		
20	QPSK	1	49	17.18	17.26	17.34	18.5	0		
20	QPSK	1	99	17.35	17.39	17.39	18.5	0		
20	QPSK	50	0	17.25	17.43	17.42	18.5	0		
20	QPSK	50	24	17.27	17.28	17.28	18.5	0		
20	QPSK	50	50	17.24	17.38	17.40	18.5	0		
20	QPSK	100	0	17.19	17.36	17.33	18.5	0		
20	16QAM	1	0	17.11	17.27	17.30	18.5	0		
20	16QAM	1	49	17.18	17.26	17.28	18.5	0		
20	16QAM	1	99	17.12	17.33	17.30	18.5	0		
20	16QAM	50	0	17.10	17.34	17.28	18.5	0		
20	16QAM	50	24	17.18	17.28	17.29	18.5	0		
20	16QAM	50	50	17.10	17.29	17.29	18.5	0		
20	64QAM	1	0	17.11	17.30	17.26	18.5	0		
20	64QAM	1	49	17.15	17.30	17.29	18.5	0		
20	64QAM	1	99	17.16	17.23	17.23	18.5	0		
20	64QAM	50	0	17.14	17.31	17.31	18.5	0		
20	64QAM	50	24	17.18	17.30	17.30	18.5	0		
20	64QAM	50	50	17.12	17.27	17.25	18.5	0		
20	64QAM	100	0	17.11	17.28	17.26	18.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.47	17.43	17.39	18.5	0		
15	QPSK	1	37	17.28	17.34	17.31	18.5	0		
15	QPSK	1	74	17.38	17.30	17.36	18.5	0		
15	QPSK	36	0	17.40	17.42	17.37	18.5	0		
15	QPSK	36	18	17.28	17.31	17.31	18.5	0		
15	QPSK	36	39	17.30	17.37	17.31	18.5	0		
15	QPSK	75	0	17.28	17.42	17.28	18.5	0		
15	16QAM	1	0	17.19	17.38	17.26	18.5	0		
15	16QAM	1	37	17.16	17.21	17.20	18.5	0		
15	16QAM	1	74	17.27	17.30	17.24	18.5	0		
15	16QAM	36	0	17.29	17.32	17.27	18.5	0		
15	16QAM	36	18	17.25	17.23	17.24	18.5	0		
15	16QAM	36	39	17.27	17.21	17.26	18.5	0		
15	16QAM	75	0	17.20	17.29	17.26	18.5	0		
15	64QAM	1	0	17.28	17.29	17.26	18.5	0		
15	64QAM	1	37	17.20	17.20	17.20	18.5	0		
15	64QAM	1	74	17.23	17.23	17.22	18.5	0		
15	64QAM	36	0	17.27	17.30	17.24	18.5	0		
15	64QAM	36	18	17.20	17.23	17.24	18.5	0		
15	64QAM	36	39	17.17	17.18	17.21	18.5	0		
15	64QAM	75	0	17.25	17.25	17.23	18.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.42	17.41	17.47	18.5	0		
10	QPSK	1	25	17.28	17.36	17.33	18.5	0		
10	QPSK	1	49	17.38	17.33	17.36	18.5	0		
10	QPSK	1	74	17.28	17.31	17.31	18.5	0		
10	QPSK	25	12	17.28	17.31	17.36	18.5	0		
10	QPSK	25	25	17.31	17.28	17.31	18.5	0		
10	QPSK	50	0	17.26	17.21	17.23	18.5	0		
10	16QAM	1	25	17.34	17.16	17.26	18.5	0		
10	16QAM	1	49	17.28	17.25	17.31	18.5	0		
10	16QAM	25	0	17.29	17.23	17.32	18.5	0		
10	16QAM	25	12	17.22	17.19	17.26	18.5	0		
10	16QAM	25	25	17.23	17.23	17.21	18.5	0		
10	16QAM	50	0	17.23	17.21	17.21	18.5	0		
10	16QAM	50	12	17.25	17.23	17.26	18.5	0		
10	64QAM	1	25	17.26	17.19	17.19	18.5	0		
10	64QAM	1	49	17.20	17.20	17.27	18.5	0		
10	64QAM	25	0	17.26	17.29	17.27	18.5	0		
10	64QAM	25	12	17.22	17.22	17.25	18.5	0		
10	64QAM	50	0	17.26	17.22	17.24	18.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.44	17.47	17.38	18.5	0		
5	QPSK	1	12	17.33	17.29	17.35	18.5	0		
5	QPSK	12	0	17.34	17.33	17.33	18.5	0		
5	QPSK	12	6	17.33	17.38	17.40	18.5	0		
5	QPSK	12	7	17.27	17.30	17.32	18.5	0		
5	QPSK	12	13	17.34	17.36	17.28	18.5	0		
5	16QAM	1	0	17.18	17.21	17.26	18.5	0		
5	16QAM	1	12	17.25	17.23	17.17	18.5	0		
5	16QAM	12	0	17.28	17.29	17.27	18.5	0		
5	16QAM	12	6	17.25	17.33	17.28	18.5	0		
5	16QAM	12	7	17.26	17.23	17.24	18.5	0		
5	16QAM	12	13	17.25	17.22	17.23	18.5	0		
5	64QAM	1	0	17.22	17.29	17.25	18.5	0		
5	64QAM	1	12	17.28	17.21	17.21	18.5	0		
5	64QAM	12	0	17.24	17.26	17.22	18.5	0		
5	64QAM	12	6	17.28	17.21	17.29	18.5	0		
5	64QAM	12	7	17.29	17.27	17.22	18.5	0		
5	64QAM	12	13	17.22	17.25	17.25	18.5	0		
5	64QAM	25	0	17.25	17.21	17.24	18.5	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	17.44	17.46	17.41	18.5	0		
3	QPSK	1	8	17.36	17.34	17.32	18.5	0		
3	QPSK	1	14	17.32	17.33	17.33	18.5	0		
3	QPSK	8	4	17.30	17.28	17.26	18.5	0		
3	QPSK	8	4	17.33	17.23	17.27	18.5	0		
3	QPSK	15	0	17.32	17.26	17.30	18.5	0		
3	16QAM	1	0	17.18	17.21	17.19	18.5	0		
3	16QAM	1	8	17.18	17.16	17.20	18.5	0		
3	16QAM	8	4	17.31	17.29	17.31	18.5	0		
3	16QAM	8	4	17.22	17.27	17.18	18.5	0		
3	16QAM	8	7	17.20	17.19	17.27	18.5	0		
3	16QAM	15	0	17.26	17.23	17.25	18.5	0		
3	64QAM	1	0	17.29	17.27	17.30	18.5	0		
3	64QAM	1	8	17.26	17.25	17.19	18.5	0		
3	64QAM	8	4	17.24	17.26	17.17	18.5	0		
3	64QAM	8	4	17.24	17.23	17.28	18.5	0		
3	64QAM	15	0	17.23	17.27	17.25	18.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	17.41	17.39	17.47	18.5	0		
1.4	QPSK	1	3	17.36	17.32	17.37	18.5	0		
1.4	QPSK	1	5	17.35	17.33	17.30	18.5	0		
1.4	QPSK	3	0	17.41	17.39	17.36	18.5	0		
1.4	QPSK	3	1	17.34	17.28	17.31	18.5	0		
1.4	QPSK	3	1	17.32	17.30	17.36	18.5	0		
1.4	QPSK	6	0	17.36	17.29	17.30	18.5	0		
1.4	16QAM	1	0	17.23	17.20	17.18	18.5	0		
1.4	16QAM	1	3	17.18	17.23	17.24	18.5	0		
1.4	16QAM	1	5	17.27	17.20	17.31	18.5	0		
1.4	16QAM	3	0	17.24	17.28	17.32	18.5	0		
1.4	16QAM	3	1	17.24	17.26	17.20	18.5	0		
1.4	16QAM	3	1	17.19	17.20	17.22	18.5	0		
1.4	16QAM	6	0	17.27	17.27	17.22	18.5	0		
1.4	64QAM	1	0	17.23	17.21	17.26	18.5	0		
1.4	64QAM	1	3	17.22	17.19	17.24	18.5	0		
1.4	64QAM	3	0	17.27	17.23	17.28	18.5	0		
1.4	64QAM	3	0	17.23	17.22	17.27	18.5	0		
1.4	64QAM	3	1	17.29	17.21	17.26	18.5	0		
1.4	64QAM	6	0	17.22	17.18	17.18	18.5	0		
1.4	64QAM	6	0	17.23	17.26	17.21	18.5	0		

Band 2_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.42	20.42	20.33	21.5	0		



Band 4_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20550	20175	20350				
20	QPSK	1	0	17.02	18.15	18.11				
20	QPSK	1	49	19.07	19.13	19.02				
20	QPSK	1	99	19.06	19.05	19.05				
20	QPSK	50	0	18.15	18.14	18.01				
20	QPSK	50	24	19.08	19.10	19.04				
20	QPSK	50	50	19.03	19.11	19.02			20	0
20	QPSK	100	0	19.07	19.13	18.91				
20	16QAM	1	0	19.04	19.12	19.00				
20	16QAM	1	49	19.04	19.07	19.02				
20	16QAM	1	99	19.05	19.11	19.00				
20	16QAM	50	0	19.03	19.05	18.90				
20	16QAM	50	24	19.04	19.10	18.91				
20	16QAM	50	50	19.01	19.08	18.92				
20	16QAM	100	0	19.02	19.13	18.93				
20	16QAM	1	0	19.06	19.10	18.97				
20	16QAM	1	49	19.04	19.07	18.92				
20	16QAM	1	99	19.05	19.05	18.93				
20	16QAM	50	0	19.01	19.08	18.94				
20	16QAM	50	24	19.04	19.10	18.91				
20	16QAM	50	50	19.03	19.10	18.91				
20	16QAM	100	0	19.03	19.13	18.90				
Channel										
Frequency (MHz)				20025	20175	20325				
15	QPSK	1	0	17.73	17.23	17.43				
15	QPSK	1	37	19.01	19.05	19.01			20	0
15	QPSK	1	74	19.00	18.98	18.99				
15	QPSK	36	0	19.07	19.10	19.04				
15	QPSK	36	36	19.03	19.03	18.96				
15	QPSK	36	72	19.02	19.05	18.95				
15	QPSK	72	0	19.04	19.08	18.99				
15	16QAM	1	0	19.00	19.10	19.04				
15	16QAM	1	37	19.03	19.08	19.08				
15	16QAM	1	74	19.01	19.02	19.03				
15	16QAM	36	0	19.00	18.98	19.02				
15	16QAM	36	36	19.02	19.08	19.00				
15	16QAM	36	72	19.02	19.06	19.03				
15	16QAM	72	0	19.06	19.06	19.11				
15	16QAM	1	0	19.06	19.04	19.04				
15	16QAM	1	37	19.06	18.98	19.00				
15	16QAM	1	74	18.96	18.96	19.02				
15	16QAM	36	0	18.95	19.06	19.05				
15	16QAM	36	36	19.00	19.07	19.06				
15	16QAM	36	72	19.05	19.08	19.05				
15	16QAM	72	0	19.09	19.11	19.03				
Channel										
Frequency (MHz)				20000	20175	20350				
10	QPSK	1	0	19.13	19.10	19.05				
10	QPSK	1	25	19.01	19.08	19.08				
10	QPSK	1	49	19.04	19.03	18.99				
10	QPSK	25	0	19.03	19.03	18.96				
10	QPSK	25	12	18.97	19.03	18.97				
10	QPSK	25	25	19.09	19.08	19.06				
10	QPSK	50	0	19.03	19.06	19.07				
10	16QAM	1	25	19.07	19.04	19.04				
10	16QAM	1	49	19.10	19.04	19.03				
10	16QAM	25	0	19.01	19.07	19.06				
10	16QAM	25	12	19.00	19.09	19.04				
10	16QAM	25	25	19.03	19.02	19.08				
10	16QAM	50	0	19.11	19.08	19.06				
10	16QAM	50	12	19.04	19.04	19.09				
10	16QAM	1	25	19.04	19.03	18.99				
10	16QAM	1	49	18.96	18.96	18.97				
10	16QAM	25	0	19.00	19.00	19.04				
10	16QAM	25	12	19.06	19.09	19.01				
10	16QAM	25	25	19.03	19.03	19.07				
10	16QAM	50	0	19.04	19.09	19.09				
Channel										
Frequency (MHz)				19965	20175	20385				
3	QPSK	1	0	19.07	19.10	19.08				
3	QPSK	1	6	19.08	19.04	19.05				
3	QPSK	1	12	19.07	19.00	19.04				
3	QPSK	8	4	19.02	18.98	18.95				
3	QPSK	15	0	19.02	19.06	19.07				
3	16QAM	1	0	19.10	19.07	19.06				
3	16QAM	1	6	19.10	19.04	19.08				
3	16QAM	8	4	19.04	19.04	18.95				
3	16QAM	15	0	19.02	19.06	19.07				
3	16QAM	15	6	19.05	19.03	19.08				
3	16QAM	8	4	19.05	19.08	19.01				
3	16QAM	15	0	19.06	19.03	19.07				
3	16QAM	15	6	19.04	19.09	19.05				
3	16QAM	1	0	19.05	19.03	19.08				
3	16QAM	1	6	18.95	18.97	18.95				
3	16QAM	8	4	19.04	19.07	18.99				
3	16QAM	8	4	19.05	19.06	19.03				
3	16QAM	15	0	19.07	19.03	19.05				
Channel										
Frequency (MHz)				19957	20175	20393				
1.4	QPSK	1	0	19.05	19.07	19.08				
1.4	QPSK	1	3	19.08	19.06	19.05				
1.4	QPSK	1	6	19.04	18.95	18.99				
1.4	QPSK	3	0	19.05	19.04	19.12				
1.4	QPSK	3	3	19.10	19.10	19.10				
1.4	QPSK	6	0	19.08	19.08	19.04				
1.4	16QAM	1	0	19.10	19.06	19.04				
1.4	16QAM	1	3	19.07	19.04	19.06				
1.4	16QAM	1	6	19.10	19.07	19.00				
1.4	16QAM	3	0	19.05	19.02	19.00				
1.4	16QAM	3	3	18.99	19.07	19.00				
1.4	16QAM	6	0	19.07	19.11	19.09				
1.4	16QAM	1	0	19.08	19.07	19.00				
1.4	16QAM	1	3	19.08	19.02	18.97				
1.4	16QAM	1	6	19.01	19.02	18.95				
1.4	16QAM	3	0	19.05	19.00	19.04				
1.4	16QAM	3	3	19.00	19.03	19.01				
1.4	16QAM	6	0	19.06	19.07	19.07				

Band 5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				820	836.5	844				
10	QPSK	1	0	24.14	24.32	24.31			25	0
10	QPSK	1	25	24.11	24.34	24.31				
10	QPSK	1	49	23.94	24.12	24.04				
10	QPSK	25	0	23.94	24.11	23.62				
10	QPSK	25	12	23.93	23.93	23.31				
10	QPSK	25	25	23.99	23.94	23.12			24	1
10	QPSK	50	0	23.11	23.18	23.04				
10	16QAM	1	0	23.37	23.24	23.27				
10	16QAM	1	25	22.82	22.28	22.16				
10	16QAM	1	49	23.01	22.73	23.47			24	1
10	16QAM	25	0	22.09	22.17	22.10				
10	16QAM	25	12	22.06	22.98	22.60				
10	16QAM	25	25	21.10	21.17	21.13				
10	16QAM	50	0	22.19	22.05	22.12				
10	16QAM	1	0	22.30	22.19	22.33				
10	16QAM	1	25	22.82	22.28	22.16				
10	16QAM	1	49	22.34	22.32	22.18				
10	16QAM	25	0	21.05	21.09	21.08				
10	16QAM	25	12	21.00	21.10	21.12				
10	16QAM	25	25	21.10	21.17	21.13				
10	16QAM	50	0	21.09	21.07	21.03				
Channel										
Frequency (MHz)				20425	20525	20625				
5	QPSK	1	0	24.04	24.24	24.24				
5	QPSK	1	12	24.06	24.12	23.98				
5	QPSK	1	24	23.80	23.99	24.03				
5	QPSK	12	0	23.00						



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.02	21.13	21.07			22	0
20	QPSK	1	99	21.01	21.08	20.97				
20	QPSK	50	0	21.04	21.07	21.05				
20	QPSK	50	99	21.02	21.01	21.01			22	0
20	QPSK	100	0	20.97	21.02	20.98				
20	16QAM	1	0	20.94	21.04	20.99				
20	16QAM	1	99	21.01	21.01	21.00			22	0
20	16QAM	50	0	20.98	21.01	20.99				
20	16QAM	50	99	20.96	20.96	20.96			22	0
20	16QAM	100	0	20.98	21.02	20.98				
20	16QAM	100	99	20.97	20.99	21.00			22	0
20	16QAM	1	99	21.01	20.98	21.00				
20	16QAM	50	0	20.93	20.92	20.90				
20	16QAM	50	99	20.97	20.95	20.93			21	1
20	16QAM	100	0	20.93	20.91	20.90				
20	16QAM	100	99	20.93	19.97	19.97				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.04	21.11	21.02				
15	QPSK	1	99	20.96	20.97	21.02			22	0
15	QPSK	1	74	21.09	21.00	21.03				
15	QPSK	36	0	21.05	21.06	20.98				
15	QPSK	36	99	20.95	20.93	20.98			22	0
15	QPSK	75	0	21.00	20.93	20.95				
15	16QAM	1	0	20.97	20.99	20.97				
15	16QAM	1	99	20.98	20.99	20.97			22	0
15	16QAM	1	74	20.98	20.93	20.91				
15	16QAM	36	0	20.95	20.94	20.96				
15	16QAM	36	99	20.95	20.98	20.91			22	0
15	16QAM	75	0	20.98	21.01	20.97				
15	16QAM	75	99	20.95	20.93	20.90				
15	16QAM	1	99	20.93	20.92	20.88				
15	16QAM	1	74	20.98	20.97	20.97				
15	16QAM	36	0	19.95	19.93	19.92				
15	16QAM	36	99	19.97	19.95	19.93			21	1
15	16QAM	75	0	19.93	19.94	19.93				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.08	21.12	21.10				
10	QPSK	1	25	20.94	20.95	20.95			22	0
10	QPSK	1	49	20.98	21.02	21.01				
10	16QAM	36	0	20.97	20.95	20.97				
10	16QAM	25	12	20.96	20.95	20.89			22	0
10	16QAM	25	25	20.97	20.96	20.99				
10	16QAM	50	0	20.96	20.94	20.96				
10	16QAM	50	99	21.01	20.94	20.98			22	0
10	16QAM	1	25	20.97	20.99	20.92				
10	16QAM	1	49	20.91	20.98	20.93				
10	16QAM	25	0	20.98	20.93	20.98				
10	16QAM	25	12	20.95	20.89	20.88			22	0
10	16QAM	25	25	20.99	20.97	20.99				
10	16QAM	50	0	20.92	21.00	20.97				
10	16QAM	50	99	20.92	20.95	20.94			22	0
10	16QAM	1	25	20.96	20.91	20.88				
10	16QAM	1	49	20.92	20.93	20.96				
10	16QAM	25	0	19.95	19.90	19.95				
10	16QAM	25	12	20.01	20.03	20.01			21	1
10	16QAM	25	25	19.91	19.99	19.92				
10	16QAM	50	0	19.92	19.98	19.92				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.10	21.05	21.05				
5	QPSK	1	12	20.95	21.01	20.97			22	0
5	QPSK	1	24	20.98	21.00	21.06				
5	QPSK	12	0	20.97	21.00	20.97				
5	QPSK	12	7	20.95	20.95	20.94			22	0
5	16QAM	1	0	21.00	21.02	21.00				
5	16QAM	1	12	20.98	20.91	20.99			22	0
5	16QAM	1	24	20.96	20.96	20.93				
5	16QAM	12	0	21.00	20.97	20.91				
5	16QAM	12	7	20.94	20.90	20.95			22	0
5	16QAM	12	13	20.94	20.95	20.96				
5	16QAM	25	0	20.98	20.94	20.99				
5	16QAM	1	0	20.89	20.93	20.94				
5	16QAM	1	12	20.96	20.93	20.88			22	0
5	16QAM	1	24	20.92	20.92	20.97				
5	16QAM	12	0	19.97	20.00	19.98				
5	16QAM	12	7	19.96	20.02	19.97			21	1
5	16QAM	12	13	19.97	20.00	19.96				
5	16QAM	25	0	19.95	19.92	19.97				

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.16	15.21	15.14			16.5	0
20	QPSK	1	99	15.15	15.15	15.15				
20	QPSK	50	0	15.12	15.19	15.11				
20	QPSK	50	99	15.11	15.14	15.10			16.5	0
20	16QAM	1	0	15.08	15.08	15.03				
20	16QAM	1	99	15.01	15.02	15.00			16.5	0
20	16QAM	50	0	15.06	15.05	15.00				
20	16QAM	50	99	15.05	15.05	15.00			16.5	0
20	16QAM	100	0	15.02	15.10	15.06				
20	16QAM	100	99	15.08	15.04	15.07			16.5	0
20	16QAM	1	99	15.05	15.06	15.07				
20	16QAM	50	0	15.08	15.04	15.05				
20	16QAM	50	99	15.06	15.12	15.04			16.5	0
20	16QAM	100	0	15.08	15.06	15.03				
20	16QAM	100	99	15.08	15.06	15.03				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.11	15.20	15.11				
15	QPSK	1	37	15.05	15.02	15.03			16.5	0
15	QPSK	1	74	15.11	15.11	15.11				
15	QPSK	36	0	15.08	15.07	15.06				
15	QPSK	36	99	15.02	15.04	15.04			16.5	0
15	QPSK	36	39	15.04	14.98	15.06				
15	QPSK	75	0	15.00	15.05	14.99				
15	16QAM	1	0	15.06	15.03	15.03				
15	16QAM	1	37	15.06	15.03	15.03			16.5	0
15	16QAM	1	74	14.96	15.01	15.01				
15	16QAM	36	0	15.09	15.10	15.09				
15	16QAM	36	99	15.02	15.03	14.99			16.5	0
15	16QAM	36	39	15.01	15.05	14.97				
15	16QAM	75	0	15.09	15.03	15.02				
15	16QAM	75	99	15.02	15.03	14.99			16.5	0
15	16QAM	1	37	15.06	15.04	15.02				
15	16QAM	1	74	15.05	14.96	15.04			16.5	0
15	16QAM	36	0	14.98	14.96	14.99				
15	16QAM	36	99	15.01	15.01	14.99			16.5	0
15	16QAM	36	39	15.04	15.04	14.99				
15	16QAM	75	0	14.99	14.98	14.99				
15	16QAM	75	99	14.99	14.98	14.99			16.5	0
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.18	15.17	15.15				
10	QPSK	1	25	15.06	15.06	15.07			16.5	0
10	QPSK	1	49	15.17	15.18	15.10				
10	16QAM	36	0	15.07	15.06	15.13				
10	16QAM	25	12	15.07	15.00	15.09			16.5	0
10	16QAM	25	25	14.99	15.01	15.05				
10	16QAM	50	0	15.07	15.07	15.00				
10	16QAM	50	99	14.99	15.00	14.99			16.5	0
10	16QAM	1	25	15.04	15.07	15.10				
10	16QAM	1	49	15.03	15.00	15.03			16.5	0
10	16QAM	25	0	15.03	15.04	15.09				
10	16QAM	25	12	15.06	14.99	15.02			16.5	0
10	16QAM	25	25	15.02	15					



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11			25	0	
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11					
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13					
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.96					
10	64QAM	25	25	21.12					
10	64QAM	50	0	21.06					
Channel									
23205 23230 23255									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.96	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.86	21.89	21.85			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.98	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17			25	0	
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17					
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52					
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09					
10	64QAM	50	0	21.00					
Channel									
23205 23230 23255									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.85	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.83			
5	16QAM	12	7	22.00	22.05	21.83			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.84	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760 23790 23800									
Frequency (MHz)									
10	QPSK	1	0	23.45	23.51	23.41			
10	QPSK	1	25	23.41	23.49	23.37			
10	QPSK	1	49	23.38	23.47	23.39			
10	QPSK	25	0	22.94	22.98	22.85			
10	QPSK	25	12	22.91	22.80	22.80			
10	QPSK	25	25	22.89	22.97	22.78			
10	QPSK	50	0	22.87	22.90	22.85			
10	16QAM	1	0	22.92	22.90	22.82			
10	16QAM	1	25	22.88	22.88	22.76			
10	16QAM	1	49	22.87	22.90	22.85			
10	16QAM	25	0	21.92	21.95	21.76			
10	16QAM	25	12	21.91	21.92	21.85			
10	16QAM	25	25	21.85	21.95	21.78			
10	16QAM	50	0	21.90	21.87	21.81			
10	64QAM	1	0	21.85	21.86	21.85			
10	64QAM	1	25	21.91	21.88	21.81			
10	64QAM	1	49	21.93	21.95	21.82			
10	64QAM	25	0	20.92	20.88	20.76			
10	64QAM	25	12	20.85	20.83	20.82			
10	64QAM	25	25	20.93	20.87	20.80			
10	64QAM	50	0	20.90	20.86	20.81			
Channel									
23755 23790 23825									
Frequency (MHz)									
5	QPSK	1	0	23.42	23.44	23.42			
5	QPSK	1	12	23.48	23.39	23.40			
5	QPSK	1	24	23.38	23.37	23.46			
5	QPSK	12	0	22.91	22.80	22.92			
5	QPSK	12	7	22.87	22.90	22.90			
5	QPSK	12	13	22.91	22.86	22.88			
5	QPSK	25	0	22.87	22.82	22.87			
5	16QAM	1	0	22.95	22.88	22.95			
5	16QAM	1	12	22.83	22.87	22.83			
5	16QAM	1	24	22.95	22.90	22.91			
5	16QAM	12	0	21.89	21.87	21.91			
5	16QAM	12	7	21.82	21.83	21.80			
5	16QAM	12	13	21.94	21.88	21.87			
5	16QAM	25	0	21.91	21.89	21.86			
5	64QAM	1	0	21.94	21.95	21.89			
5	64QAM	1	12	21.83	21.82	21.80			
5	64QAM	1	24	21.85	21.84	21.87			
5	64QAM	12	0	20.84	20.83	20.86			
5	64QAM	12	7	20.85	20.87	20.87			
5	64QAM	12	13	20.92	20.94	20.93			
5	64QAM	25	0	20.94	20.90	20.94			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760 23790 23800									
Frequency (MHz)									
10	QPSK	1	0	24.25	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.16	23.50			
10	16QAM	1							



Band 26_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Max Ch./Freq	Power Min Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.75	23.75	23.75	25	0		
15	QPSK	1	0	23.75	23.75	23.75	25	0		
15	QPSK	1	74	23.80	23.79	23.80	24	1		
15	QPSK	36	0	22.21	22.92	22.92	24	1		
15	QPSK	36	89	22.89	22.86	22.85	24	1		
15	QPSK	75	0	22.94	22.99	22.76	24	1		
15	16QAM	1	0	23.15	23.11	23.29	24	1		
15	16QAM	1	37	23.33	23.17	23.66	24	1		
15	16QAM	1	74	23.24	23.24	22.87	24	1		
15	16QAM	36	0	21.90	21.82	21.94	23	2		
15	16QAM	36	20	21.97	21.84	21.83	23	2		
15	16QAM	36	89	22.90	21.61	21.89	23	2		
15	16QAM	75	0	21.96	21.84	21.82	23	2		
15	64QAM	1	0	22.14	22.04	22.13	23	2		
15	64QAM	1	37	22.06	22.27	21.82	23	2		
15	64QAM	1	74	22.08	21.76	21.69	23	2		
15	64QAM	36	0	20.89	20.94	20.88	22	3		
15	64QAM	36	20	21.47	20.82	20.88	22	3		
15	64QAM	36	89	21.00	20.97	20.95	22	3		
15	64QAM	75	0	21.06	20.81	20.85	22	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.62	23.61	23.67	25	0		
10	QPSK	1	25	23.62	23.69	23.81	25	0		
10	QPSK	1	49	23.78	23.64	23.52	25	0		
10	QPSK	25	0	22.86	22.90	22.82	24	1		
10	QPSK	25	12	22.83	22.83	22.87	24	1		
10	QPSK	25	25	22.78	22.74	22.80	24	1		
10	QPSK	50	0	22.82	22.98	22.87	24	1		
10	QPSK	50	12	22.85	22.95	22.83	24	1		
10	16QAM	1	25	23.20	23.08	23.26	24	1		
10	16QAM	1	49	23.23	23.09	23.25	24	1		
10	16QAM	25	0	21.83	21.73	21.89	23	2		
10	16QAM	25	12	21.81	21.82	21.81	23	2		
10	16QAM	25	25	21.90	21.80	21.81	23	2		
10	16QAM	50	0	21.83	21.73	21.79	23	2		
10	16QAM	50	12	21.88	21.71	21.82	23	2		
10	16QAM	50	25	21.84	21.81	21.71	23	2		
10	64QAM	1	25	22.03	22.26	21.80	23	2		
10	64QAM	1	49	21.96	21.75	21.68	23	2		
10	64QAM	25	0	20.87	20.96	20.85	22	3		
10	64QAM	25	12	20.88	20.72	20.79	22	3		
10	64QAM	25	25	20.85	20.91	20.87	22	3		
10	64QAM	50	0	20.89	20.75	20.78	22	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.76	23.69	23.74	25	0		
5	QPSK	1	12	23.73	23.69	23.77	25	0		
5	QPSK	1	24	23.77	23.68	23.67	25	0		
5	QPSK	12	0	22.78	22.70	22.70	24	1		
5	QPSK	12	7	22.78	22.70	22.70	24	1		
5	QPSK	12	13	22.83	22.76	22.81	24	1		
5	QPSK	25	0	22.92	22.86	22.85	24	1		
5	16QAM	1	12	23.00	23.08	23.15	24	1		
5	16QAM	1	12	23.27	23.12	23.51	24	1		
5	16QAM	1	24	23.18	23.12	23.26	24	1		
5	16QAM	12	0	21.88	21.67	21.83	23	2		
5	16QAM	12	7	21.89	21.79	21.79	23	2		
5	16QAM	12	13	21.87	21.89	21.76	23	2		
5	16QAM	25	0	21.81	21.82	21.80	23	2		
5	64QAM	1	12	21.98	21.99	21.87	23	2		
5	64QAM	1	12	21.94	22.25	21.79	23	2		
5	64QAM	1	24	21.98	21.64	21.59	23	2		
5	64QAM	12	0	20.82	20.74	20.76	22	3		
5	64QAM	12	7	20.92	20.74	20.72	22	3		
5	64QAM	12	13	21.06	20.94	20.90	22	3		
5	64QAM	25	0	20.95	20.73	20.70	22	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.80	23.86	23.80	25	0		
3	QPSK	1	8	23.75	23.78	23.78	25	0		
3	QPSK	1	14	23.73	23.67	23.56	25	0		
3	QPSK	8	0	22.79	22.85	22.88	24	1		
3	QPSK	8	4	22.78	22.70	22.70	24	1		
3	QPSK	8	7	22.81	22.81	22.72	24	1		
3	QPSK	15	0	22.82	22.86	22.87	24	1		
3	16QAM	1	0	23.10	22.99	23.24	24	1		
3	16QAM	1	8	23.22	23.08	23.60	24	1		
3	16QAM	1	14	23.22	23.17	23.66	24	1		
3	16QAM	8	0	21.79	21.74	21.82	23	2		
3	16QAM	8	4	21.96	21.77	21.70	23	2		
3	16QAM	8	7	21.89	21.88	21.75	23	2		
3	16QAM	15	0	21.86	21.80	21.81	23	2		
3	64QAM	1	0	22.08	22.02	22.04	23	2		
3	64QAM	1	8	21.95	22.23	21.81	23	2		
3	64QAM	1	14	21.96	21.74	21.76	23	2		
3	64QAM	8	0	20.73	20.84	20.86	22	3		
3	64QAM	8	4	20.93	20.68	20.79	22	3		
3	64QAM	8	7	20.97	20.81	20.81	22	3		
3	64QAM	15	0	21.03	20.78	20.71	22	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.78	23.81	23.83	25	0		
1.4	QPSK	1	3	23.88	23.81	23.77	25	0		
1.4	QPSK	1	5	23.63	23.76	23.88	25	0		
1.4	QPSK	3	0	23.86	23.81	23.81	25	0		
1.4	QPSK	3	1	23.88	23.77	23.80	25	0		
1.4	QPSK	3	3	23.68	23.74	23.72	25	0		
1.4	QPSK	6	0	22.92	22.91	22.86	24	1		
1.4	16QAM	1	0	22.85	22.73	22.86	24	1		
1.4	16QAM	1	3	22.86	22.90	22.86	24	1		
1.4	16QAM	1	5	22.92	22.93	22.78	24	1		
1.4	16QAM	3	0	23.03	23.05	22.89	24	1		
1.4	16QAM	3	1	23.05	23.09	22.99	24	1		
1.4	16QAM	3	3	23.03	22.94	22.94	24	1		
1.4	16QAM	6	0	21.88	21.85	21.79	23	2		
1.4	16QAM	6	1	21.90	21.80	21.82	23	2		
1.4	16QAM	6	3	21.86	21.86	21.85	23	2		
1.4	64QAM	1	0	21.89	21.86	21.82	23	2		
1.4	64QAM	3	1	22.10	21.96	22.04	23	2		
1.4	64QAM	3	3	21.86	21.86	21.86	23	2		
1.4	64QAM	6	0	20.83	20.76	20.80	22	3		

Band 26_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Max Ch./Freq	Power Min Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.76	23.76	23.76	25	0		
15	QPSK	1	37	23.71	23.00	23.64	25	0		
15	QPSK	1	74	23.75	23.71	23.89	25	0		
15	QPSK	36	0	22.50	22.91	22.83	24	1		
15	QPSK	36	28	22.87	22.78	22.79	24	1		
15	QPSK	36	39	22.89	22.82	22.73	24	1		
15	QPSK	75	0	22.83	22.90	22.81	24	1		
15	16QAM	1	0	22.79	23.34	23.36	24	1		
15	16QAM	1	37	23.21	23.00	23.64	24	1		
15	16QAM	1	74	23.28	23.45	23.02	24	1		
15	16QAM	36	0	21.88	21.88	21.89	23	2		
15	16QAM	36	20	22.00	21.82	21.79	23	2		
15	16QAM	36	89	22.74	22.74	22.87	23	2		
15	16QAM	75	0	21.90	21.78	21.87	23	2		
15	64QAM	1	0	21.83	21.81	22.15	23	2		
15	64QAM	1	37	21.80	22.04	21.81	23	2		
15	64QAM	1	74	22.04	21.77	21.69	23	2		



Band 66_Ant 11

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	16.50	16.51	16.51	17.5	0
20	QPSK	1	46	16.50	16.51	16.51		
20	QPSK	1	99	16.47	16.58	16.46		
20	QPSK	50	0	16.51	16.55	16.54		
20	QPSK	50	24	16.47	16.48	16.35		
20	QPSK	50	50	16.48	16.50	16.42		
20	QPSK	100	0	16.45	16.50	16.36		
20	16QAM	1	0	16.49	16.51	16.39		
20	16QAM	1	46	16.43	16.51	16.38		
20	16QAM	1	99	16.41	16.50	16.39		
20	16QAM	50	0	16.45	16.48	16.35		
20	16QAM	50	24	16.46	16.45	16.37		
20	16QAM	50	50	16.49	16.50	16.40		
20	64QAM	100	0	16.42	16.48	16.38		
20	64QAM	1	0	16.42	16.50	16.37		
20	64QAM	1	46	16.43	16.52	16.40		
20	64QAM	1	99	16.41	16.54	16.34		
20	64QAM	50	0	16.46	16.50	16.40		
20	64QAM	50	24	16.44	16.47	16.43		
20	64QAM	50	50	16.41	16.43	16.35		
20	64QAM	100	0	16.44	16.54	16.40		
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.53	16.50	16.55	17.5	0
15	QPSK	1	37	16.44	16.48	16.41		
15	QPSK	1	74	16.51	16.54	16.49		
15	QPSK	36	0	16.51	16.47	16.54		
15	QPSK	36	20	16.38	16.47	16.42		
15	QPSK	36	39	16.47	16.45	16.45		
15	QPSK	75	0	16.41	16.42	16.44		
15	16QAM	1	0	16.49	16.41	16.47		
15	16QAM	1	37	16.45	16.48	16.48		
15	16QAM	1	74	16.45	16.47	16.44		
15	16QAM	36	0	16.45	16.41	16.39		
15	16QAM	36	20	16.39	16.45	16.41		
15	16QAM	36	39	16.46	16.44	16.43		
15	16QAM	75	0	16.47	16.41	16.40		
15	64QAM	1	0	16.41	16.48	16.46		
15	64QAM	1	37	16.43	16.50	16.49		
15	64QAM	1	74	16.46	16.46	16.52		
15	64QAM	36	0	16.40	16.48	16.49		
15	64QAM	36	20	16.37	16.41	16.43		
15	64QAM	36	39	16.43	16.45	16.43		
15	64QAM	75	0	16.50	16.49	16.49		
Channel								
Frequency (MHz)								
10	QPSK	1	0	16.60	16.57	16.59	17.5	0
10	QPSK	1	25	16.46	16.43	16.46		
10	QPSK	1	49	16.57	16.57	16.48		
10	QPSK	25	0	16.50	16.54	16.46		
10	QPSK	25	12	16.44	16.40	16.39		
10	QPSK	25	29	16.40	16.46	16.41		
10	QPSK	50	0	16.43	16.44	16.42		
10	16QAM	1	0	16.44	16.46	16.47		
10	16QAM	1	25	16.46	16.46	16.44		
10	16QAM	1	49	16.44	16.46	16.43		
10	16QAM	25	0	16.46	16.45	16.38		
10	16QAM	25	12	16.41	16.40	16.42		
10	16QAM	25	29	16.42	16.42	16.40		
10	16QAM	50	0	16.40	16.46	16.41		
10	64QAM	1	0	16.46	16.42	16.42		
10	64QAM	1	25	16.46	16.45	16.49		
10	64QAM	1	49	16.53	16.44	16.50		
10	64QAM	25	0	16.46	16.41	16.49		
10	64QAM	25	12	16.45	16.41	16.41		
10	64QAM	25	29	16.48	16.49	16.52		
10	64QAM	50	0	16.44	16.45	16.45		
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.58	16.59	16.58	17.5	0
5	QPSK	1	12	16.47	16.50	16.44		
5	QPSK	1	24	16.55	16.50	16.50		
5	QPSK	12	0	16.45	16.48	16.50		
5	QPSK	12	7	16.39	16.39	16.47		
5	QPSK	12	13	16.41	16.44	16.47		
5	QPSK	25	0	16.47	16.45	16.48		
5	16QAM	1	0	16.50	16.41	16.47		
5	16QAM	1	12	16.49	16.48	16.49		
5	16QAM	1	24	16.40	16.42	16.41		
5	16QAM	12	0	16.41	16.41	16.40		
5	16QAM	12	7	16.44	16.41	16.36		
5	16QAM	12	13	16.40	16.41	16.42		
5	16QAM	25	0	16.44	16.38	16.45		
5	64QAM	1	0	16.42	16.40	16.40		
5	64QAM	1	12	16.50	16.48	16.49		
5	64QAM	1	24	16.52	16.47	16.44		
5	64QAM	12	0	16.45	16.44	16.41		
5	64QAM	12	7	16.41	16.39	16.43		
5	64QAM	12	13	16.45	16.51	16.52		
5	64QAM	25	0	16.47	16.46	16.49		
Channel								
Frequency (MHz)								
3	QPSK	1	0	16.53	16.50	16.59	17.5	0
3	QPSK	1	8	16.42	16.44	16.42		
3	QPSK	1	14	16.36	16.53	16.50		
3	QPSK	8	0	16.51	16.52	16.48		
3	QPSK	8	4	16.40	16.40	16.43		
3	QPSK	8	7	16.41	16.40	16.42		
3	QPSK	15	0	16.41	16.42	16.49		
3	16QAM	1	0	16.45	16.48	16.47		
3	16QAM	1	8	16.42	16.44	16.49		
3	16QAM	1	14	16.41	16.47	16.47		
3	16QAM	8	0	16.38	16.46	16.47		
3	16QAM	8	4	16.42	16.39	16.39		
3	16QAM	8	7	16.49	16.49	16.44		
3	16QAM	15	0	16.40	16.45	16.42		
3	64QAM	1	0	16.42	16.47	16.48		
3	64QAM	1	8	16.50	16.50	16.46		
3	64QAM	1	14	16.48	16.49	16.51		
3	64QAM	8	0	16.48	16.40	16.45		
3	64QAM	8	4	16.39	16.41	16.40		
3	64QAM	8	7	16.44	16.51	16.52		
3	64QAM	15	0	16.48	16.47	16.49		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	16.60	16.56	16.51	17.5	0
1.4	QPSK	1	3	16.45	16.44	16.47		
1.4	QPSK	1	5	16.57	16.51	16.50		
1.4	QPSK	3	0	16.46	16.48	16.50		
1.4	QPSK	3	1	16.45	16.47	16.41		
1.4	QPSK	3	3	16.45	16.41	16.42		
1.4	QPSK	6	0	16.44	16.48	16.47		
1.4	16QAM	1	0	16.45	16.42	16.41		
1.4	16QAM	1	3	16.45	16.50	16.46		
1.4	16QAM	1	5	16.40	16.47	16.48		
1.4	16QAM	3	0	16.41	16.39	16.41		
1.4	16QAM	3	1	16.37	16.39	16.42		
1.4	16QAM	3	3	16.45	16.43	16.43		
1.4	16QAM	6	0	16.42	16.39	16.38		
1.4	64QAM	1	0	16.49	16.43	16.47		
1.4	64QAM	1	3	16.47	16.46	16.44		
1.4	64QAM	1	5	16.51	16.52	16.49		
1.4	64QAM	3	0	16.43	16.43	16.49		
1.4	64QAM	3	1	16.43	16.39	16.42		
1.4	64QAM	3	3	16.49	16.49	16.48		
1.4	64QAM	6	0	16.48	16.46	16.51		



Band 38_Ant 13									
BW [MHz]	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)				37650	38000	38150			
20	QPSK	1	0	14.51	14.58	14.55			
20	QPSK	1	49	14.45	14.51	14.53	15.5	0	
20	QPSK	1	99	14.47	14.50	14.48			
20	QPSK	50	0	14.47	14.56	14.46			
20	QPSK	50	24	14.42	14.52	14.41	15.5	0	
20	QPSK	50	50	14.39	14.47	14.43			
20	QPSK	100	0	14.38	14.53	14.38			
20	16QAM	1	0	14.46	14.51	14.37			
20	16QAM	1	49	14.37	14.49	14.45	15.5	0	
20	16QAM	1	99	14.43	14.50	14.42			
20	16QAM	50	0	14.44	14.51	14.45			
20	16QAM	50	24	14.39	14.46	14.38	15.5	0	
20	16QAM	50	50	14.41	14.49	14.36			
20	16QAM	100	0	14.43	14.51	14.41			
20	64QAM	1	0	14.44	14.50	14.45			
20	64QAM	1	49	14.42	14.50	14.42	15.5	0	
20	64QAM	1	99	14.39	14.45	14.39			
20	64QAM	50	0	14.41	14.53	14.42			
20	64QAM	50	24	14.41	14.46	14.36	15.5	0	
20	64QAM	50	50	14.41	14.51	14.44			
20	64QAM	100	0	14.37	14.48	14.44			
Channel									
Frequency (MHz)				37625	38000	38175			
15	QPSK	1	0	14.51	14.55	14.54			
15	QPSK	1	37	14.47	14.46	14.46	15.5	0	
15	QPSK	1	74	14.48	14.48	14.47			
15	QPSK	36	0	14.54	14.53	14.50			
15	QPSK	36	20	14.45	14.49	14.42	15.5	0	
15	QPSK	36	39	14.38	14.42	14.38			
15	QPSK	75	0	14.45	14.44	14.48			
15	16QAM	1	0	14.43	14.45	14.48			
15	16QAM	1	37	14.44	14.39	14.39	15.5	0	
15	16QAM	1	74	14.45	14.49	14.42			
15	16QAM	36	0	14.45	14.53	14.53			
15	16QAM	36	20	14.39	14.43	14.38	15.5	0	
15	16QAM	36	39	14.39	14.43	14.48			
15	16QAM	75	0	14.42	14.48	14.47			
15	64QAM	1	0	14.49	14.46	14.48			
15	64QAM	1	37	14.47	14.44	14.44	15.5	0	
15	64QAM	1	74	14.44	14.43	14.48			
15	64QAM	36	0	14.44	14.51	14.49			
15	64QAM	36	20	14.41	14.43	14.45	15.5	0	
15	64QAM	36	39	14.44	14.47	14.48			
15	64QAM	75	0	14.39	14.46	14.45			
Channel									
Frequency (MHz)				37800	38000	38200			
10	QPSK	1	0	14.46	14.46	14.52			
10	QPSK	1	25	14.42	14.42	14.42	15.5	0	
10	QPSK	1	49	14.47	14.42	14.40			
10	QPSK	25	0	14.48	14.50	14.46			
10	QPSK	25	12	14.44	14.44	14.50	15.5	0	
10	QPSK	25	25	14.37	14.46	14.42			
10	QPSK	50	0	14.50	14.47	14.52			
10	16QAM	1	0	14.50	14.44	14.46			
10	16QAM	1	25	14.43	14.45	14.41	15.5	0	
10	16QAM	1	49	14.42	14.45	14.49			
10	16QAM	25	0	14.53	14.45	14.46			
10	16QAM	25	12	14.41	14.44	14.41	15.5	0	
10	16QAM	25	25	14.42	14.47	14.45			
10	16QAM	50	0	14.42	14.42	14.46			
10	64QAM	1	0	14.41	14.46	14.47			
10	64QAM	1	25	14.47	14.45	14.47	15.5	0	
10	64QAM	1	49	14.44	14.45	14.49			
10	64QAM	25	0	14.51	14.49	14.48			
10	64QAM	25	12	14.41	14.40	14.44	15.5	0	
10	64QAM	25	25	14.50	14.50	14.47			
10	64QAM	50	0	14.38	14.45	14.43			
Channel									
Frequency (MHz)				37775	38000	38225			
5	QPSK	1	0	14.55	14.49	14.52			
5	QPSK	1	12	14.47	14.42	14.45	15.5	0	
5	QPSK	1	24	14.42	14.47	14.41			
5	QPSK	12	0	14.50	14.50	14.51			
5	QPSK	12	7	14.43	14.47	14.43	15.5	0	
5	QPSK	12	13	14.42	14.38	14.46			
5	QPSK	25	0	14.45	14.47	14.48			
5	16QAM	1	0	14.42	14.50	14.51			
5	16QAM	1	12	14.41	14.47	14.47	15.5	0	
5	16QAM	1	24	14.43	14.40	14.45			
5	16QAM	12	0	14.51	14.49	14.45			
5	16QAM	12	7	14.40	14.39	14.44	15.5	0	
5	16QAM	12	13	14.43	14.44	14.42			
5	16QAM	25	0	14.49	14.49	14.47			
5	64QAM	1	0	14.48	14.48	14.42			
5	64QAM	1	12	14.46	14.46	14.47	15.5	0	
5	64QAM	1	24	14.46	14.42	14.50			
5	64QAM	12	0	14.51	14.44	14.52			
5	64QAM	12	7	14.39	14.37	14.43	15.5	0	
5	64QAM	12	13	14.43	14.46	14.44			
5	64QAM	25	0	14.45	14.44	14.41			

Band 38_Ant 31									
BW [MHz]	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			
20	QPSK	1	0	23.42	23.65	23.58			
20	QPSK	1	49	23.43	23.46	23.57	24.5	0	
20	QPSK	1	99	23.44	23.56	23.52			
20	QPSK	50	0	22.70	22.79	22.73			
20	QPSK	50	24	22.66	22.62	22.62	23.5	1	
20	QPSK	50	50	22.54	22.62	22.58			
20	QPSK	100	0	22.71	22.77	22.52			
20	16QAM	1	0	22.71	22.42	22.43			
20	16QAM	1	49	22.86	22.81	22.74	23.5	1	
20	16QAM	1	99	22.54	23.03	22.84			
20	16QAM	50	0	21.57	21.46	21.43			
20	16QAM	50	24	21.80	21.61	21.70	22.5	2	
20	16QAM	50	50	21.72	21.74	21.73			
20	16QAM	100	0	21.65	21.62	21.62			
20	64QAM	1	0	21.82	22.01	21.13			
20	64QAM	1	49	21.52	21.87	21.65	22.5	2	
20	64QAM	1	99	21.69	21.72	21.52			
20	64QAM	50	0	20.57	20.52	20.55			
20	64QAM	50	24	20.67	20.58	20.69	21.5	3	
20	64QAM	50	50	20.78	20.84	20.71			
20	64QAM	100	0	20.76	20.60	20.49			
Channel									
Frequency (MHz)				37825	38000	38175			
15	QPSK	1	0	23.37	23.50	23.56			
15	QPSK	1	37	23.30	23.31	23.56	24.5	0	
15	QPSK	1	74	23.30	23.47	23.43			
15	QPSK	36	0	22.54	22.66	22.63			
15	QPSK	36	20	22.52	22.51	22.61	23.5	1	
15	QPSK	36	39	22.49	22.54	22.52			
15	QPSK	75	0	22.60	22.63	22.46			
15	16QAM	1	0	22.57	22.30	22.31			
15	16QAM	1	37	22.83	22.71	22.83	23.5	1	
15	16QAM	1	74	22.47	22.87	22.83			
15	16QAM	36	0	21.47	21.45	21.35			
15	16QAM	36	20	21.69	21.67	21.42	22.5	2	
15	16QAM	36	39	21.63	21.73	21.65			
15	16QAM	75	0	21.58	21.58	21.61			
15	64QAM	1	0	21.67	21.93	21.09			
15	64QAM	1	37	21.38	21.75	21.59	22.5	2	
15	64QAM	1	74	21.69	21.67	21.42			
15	64QAM	36	0	20.46	20.47	20.42			
15	64QAM	36	20	20.59	20.53	20.58	21.5	3	
15	64QAM	36	39	20.71	20.69	20.66			
15	64QAM	75	0	20.65	20.50	20.40			
Channel									
Frequency (MHz)				37800	38000	38200			
10	QPSK	1	0	23.46	23.63	23.53			
1									



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
Frequency (MHz)				2501	2543	2585	2627	2669			
20	QPSK	1	0	15.57	15.56	15.56	15.56	15.56			
20	QPSK	1	49	15.55	15.48	15.56	15.48	15.50		16.5	0
20	QPSK	1	99	15.52	15.55	15.60	15.40	15.53			
20	QPSK	50	0	15.55	15.47	15.63	15.54	15.56			
20	QPSK	50	24	15.53	15.38	15.62	15.51	15.50		16.5	0
20	16QAM	50	0	15.46	15.45	15.54	15.48	15.47			
20	QPSK	100	0	15.52	15.40	15.56	15.47	15.48			
20	16QAM	1	0	15.48	15.40	15.62	15.52	15.47			
20	16QAM	1	49	15.47	15.42	15.58	15.44	15.49		16.5	0
20	16QAM	1	99	15.48	15.39	15.62	15.50	15.55			
20	16QAM	50	0	15.52	15.43	15.53	15.49	15.55		16.5	0
20	16QAM	50	24	15.54	15.43	15.59	15.47	15.48			
20	16QAM	100	0	15.48	15.37	15.55	15.52	15.54			
20	16QAM	1	0	15.53	15.45	15.57	15.51	15.54			
20	16QAM	1	49	15.50	15.40	15.53	15.52	15.52		16.5	0
20	16QAM	1	99	15.51	15.45	15.54	15.45	15.50			
20	16QAM	50	0	15.53	15.45	15.62	15.45	15.52			
20	16QAM	50	24	15.54	15.37	15.56	15.48	15.53		16.5	0
20	16QAM	50	50	15.45	15.41	15.58	15.47	15.46			
20	16QAM	100	0	15.45	15.40	15.58	15.48	15.47			
Channel											
Frequency (MHz)				39725	40173	40620	41068	41515			
Frequency (MHz)				22975	23413	23851	24289	24727			
15	QPSK	1	0	15.57	15.49	15.56	15.63	15.62			
15	QPSK	1	37	15.53	15.49	15.46	15.49	15.51		16.5	0
15	QPSK	1	74	15.50	15.55	15.58	15.52	15.54			
15	QPSK	36	0	15.59	15.60	15.55	15.60	15.61			
15	QPSK	36	20	15.58	15.56	15.56	15.59	15.59		16.5	0
15	QPSK	36	39	15.52	15.52	15.55	15.48	15.54			
15	QPSK	75	0	15.47	15.51	15.48	15.48	15.50		16.5	0
15	16QAM	1	0	15.55	15.54	15.54	15.61	15.53			
15	16QAM	1	37	15.51	15.55	15.54	15.48	15.50		16.5	0
15	16QAM	1	74	15.54	15.56	15.57	15.58	15.61			
15	16QAM	36	0	15.53	15.52	15.47	15.51	15.45			
15	16QAM	36	20	15.50	15.48	15.46	15.45	15.50		16.5	0
15	16QAM	36	39	15.56	15.54	15.49	15.57	15.53			
15	16QAM	75	0	15.54	15.45	15.53	15.48	15.49			
15	16QAM	1	0	15.54	15.51	15.55	15.47	15.56		16.5	0
15	16QAM	1	37	15.49	15.51	15.52	15.49	15.45			
15	16QAM	1	74	15.50	15.48	15.46	15.44	15.50			
15	16QAM	36	0	15.54	15.56	15.52	15.61	15.55			
15	16QAM	36	20	15.53	15.53	15.47	15.47	15.54		16.5	0
15	16QAM	36	39	15.54	15.56	15.54	15.55	15.49			
15	16QAM	75	0	15.50	15.54	15.50	15.52	15.49			
Channel											
Frequency (MHz)				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	15.60	15.65	15.57	15.59	15.65			
10	QPSK	1	25	15.48	15.54	15.46	15.54	15.46		16.5	0
10	QPSK	1	49	15.54	15.53	15.56	15.53	15.56			
10	QPSK	25	0	15.59	15.60	15.55	15.56	15.61			
10	QPSK	25	12	15.60	15.58	15.58	15.57	15.57		16.5	0
10	QPSK	25	25	15.50	15.48	15.54	15.51	15.54			
10	QPSK	50	0	15.53	15.49	15.48	15.49	15.47			
10	16QAM	1	0	15.57	15.60	15.54	15.58	15.56			
10	16QAM	1	25	15.51	15.56	15.52	15.53	15.50		16.5	0
10	16QAM	1	49	15.52	15.52	15.53	15.53	15.57			
10	16QAM	25	0	15.50	15.48	15.50	15.44	15.46			
10	16QAM	25	12	15.52	15.43	15.45	15.43	15.47		16.5	0
10	16QAM	25	25	15.52	15.51	15.56	15.50	15.53			
10	16QAM	50	0	15.47	15.52	15.48	15.48	15.53			
10	16QAM	1	0	15.49	15.49	15.55	15.52	15.54			
10	16QAM	1	25	15.48	15.43	15.44	15.43	15.49		16.5	0
10	16QAM	1	49	15.44	15.48	15.45	15.52	15.46			
10	16QAM	25	0	15.50	15.52	15.58	15.54	15.56			
10	16QAM	25	12	15.48	15.49	15.51	15.49	15.53		16.5	0
10	16QAM	25	25	15.57	15.53	15.47	15.49	15.50			
10	16QAM	50	0	15.56	15.54	15.57	15.49	15.56			
Channel											
Frequency (MHz)				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.6	2593	2640.30	2687.5			
5	QPSK	1	0	15.62	15.62	15.59	15.58	15.64			
5	QPSK	1	12	15.48	15.54	15.46	15.54	15.46		16.5	0
5	QPSK	1	24	15.57	15.57	15.54	15.55	15.50			
5	QPSK	12	0	15.53	15.58	15.61	15.63	15.61			
5	QPSK	12	7	15.60	15.61	15.54	15.55	15.54		16.5	0
5	QPSK	12	13	15.46	15.51	15.53	15.48	15.47			
5	QPSK	25	0	15.55	15.47	15.48	15.50	15.49			
5	16QAM	1	0	15.61	15.53	15.57	15.58	15.52		16.5	0
5	16QAM	1	12	15.51	15.51	15.57	15.57	15.48			
5	16QAM	1	24	15.54	15.56	15.57	15.53	15.60			
5	16QAM	12	0	15.45	15.49	15.52	15.45	15.53			
5	16QAM	12	7	15.52	15.47	15.52	15.50	15.51		16.5	0
5	16QAM	12	13	15.57	15.51	15.57	15.55	15.51			
5	16QAM	25	0	15.50	15.54	15.49	15.45	15.46			
5	16QAM	1	0	15.56	15.50	15.50	15.47	15.50			
5	16QAM	1	12	15.47	15.45	15.45	15.50	15.50		16.5	0
5	16QAM	1	24	15.44	15.47	15.44	15.51	15.44			
5	16QAM	12	0	15.53	15.53	15.52	15.52	15.55			
5	16QAM	12	7	15.46	15.54	15.53	15.49	15.47		16.5	0
5	16QAM	12	13	15.54	15.57	15.52	15.55	15.53			
5	16QAM	25	0	15.57	15.53	15.55	15.57	15.52			

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
Frequency (MHz)				2501	2543	2585	2627	2669			
20	QPSK	1	0	23.26	23.45	23.72	23.50	23.61			
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49		24.5	0
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56			
20	QPSK	50	0	22.60	22.66	22.70	22.57	22.66			
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51		23.5	1
20	16QAM	50	0	21.41	21.52	21.59	21.55	21.60			
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58			
20	QPSK	100	0	22.47	22.61	22.69	22.45	22.52			
20	16QAM	1	0	22.06	22.54	22.51	22.26	22.48			
20	16QAM	1	49	22.31	22.63	22.56	22.37	22.23		23.5	1
20	16QAM	1	99	22.31	22.33	22.80	22.42	22.55			
20	16QAM	50	0	21.41	21.50	21.62	21.56	21.54		22.5	2
20	16QAM	50	24	21.50	21.62	21.56	21.54	21.58			
20	16QAM	100	0	21.51	21.48	21.63	21.31	21.54			
20	16QAM	1	0	21.27	21.57	21.35	21.88	21.35			



Reduced Power Mode for DS10

GSM850_Ant 13	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	128	189	251	Limit	128	189	251	Limit
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	834.4	844.6	251.2	834.4	844.6	854.8	251.2
GSM 1 Tx slot	32.65	32.92	32.78	33.50	23.65	23.92	23.78	24.50
GPRS/EDGE GMSK 1 Tx slot	32.63	32.90	32.74	33.50	23.63	23.90	23.74	24.50
GPRS/EDGE GMSK 2 Tx slots	30.33	30.53	30.45	31.50	24.33	24.53	24.45	25.50
GPRS/EDGE GMSK 3 Tx slots	28.36	28.89	28.01	29.50	24.10	24.63	23.75	25.24
GPRS/EDGE GMSK 4 Tx slots	27.17	27.40	27.22	28.00	24.17	24.40	24.22	25.00
EDGE BPSK 1 Tx slot	26.86	26.79	26.80	28.00	17.86	17.79	17.80	19.00
EDGE BPSK 2 Tx slots	25.12	25.01	25.02	26.00	19.12	19.01	19.02	20.00
EDGE BPSK 3 Tx slots	22.97	23.01	23.05	24.00	18.71	18.75	18.79	19.74
EDGE BPSK 4 Tx slots	21.52	21.56	21.63	22.50	18.52	18.56	18.63	19.50

GSM1900_Ant 13	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	512	661	810	Limit	512	661	810	Limit
TX Channel	512 <td>661 <td>810 <td>Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td></td></td></td>	661 <td>810 <td>Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td></td></td>	810 <td>Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td></td>	Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td>	512 <td>661 <td>810 <td>Limit </td></td></td>	661 <td>810 <td>Limit </td></td>	810 <td>Limit </td>	Limit
Frequency (MHz)	1850.2	1860	1909.8	1909.8	1850.2	1860	1909.8	1909.8
GSM 1 Tx slot	26.99	26.78	27.07	27.50	17.99	17.78	18.07	18.50
GPRS/EDGE GMSK 1 Tx slot	26.98	26.77	27.05	27.50	17.98	17.77	18.05	18.50
GPRS/EDGE GMSK 2 Tx slots	23.93	23.56	23.95	25.50	17.93	17.96	17.95	19.50
GPRS/EDGE GMSK 3 Tx slots	22.26	22.20	22.19	23.50	18.00	17.94	17.93	19.24
GPRS/EDGE GMSK 4 Tx slots	20.92	20.97	20.95	22.00	17.92	17.97	17.95	19.00
EDGE BPSK 1 Tx slot	26.12	26.39	26.01	27.00	17.12	17.39	17.01	18.00
EDGE BPSK 2 Tx slots	24.30	24.24	24.36	25.00	18.30	18.24	18.36	19.00
EDGE BPSK 3 Tx slots	22.37	22.31	22.30	23.00	18.11	18.05	18.04	18.74
EDGE BPSK 4 Tx slots	20.56	20.51	20.52	21.50	17.56	17.51	17.52	18.50

Band	WCDMA V_Ant 13				WCDMA V_Ant 31			
	TX Channel	9662	8400	9638	9662	8400	9638	9662
TX Channel	9662	8400	9638	Limit	9662	8400	9638	Limit
Rx Channel	9662	8400	9638	9662	8400	9638	9662	9662
Frequency (MHz)	1852.4	1860	1907.6	1852.4	1860	1907.6	1852.4	1860
3GPP Rel 99 AMR 12.2Kbps	15.91	15.95	15.89	16.50	20.40	20.42	20.36	21.00
3GPP Rel 99 RMC 12.2Kbps	15.95	15.98	15.93	16.50	20.41	20.44	20.39	21.00
3GPP Rel 6 HSDPA Subtest-1	14.85	14.78	14.78	16.00	19.33	19.36	19.28	20.50
3GPP Rel 6 HSDPA Subtest-2	14.88	14.80	14.83	16.00	19.43	19.37	19.33	20.50
3GPP Rel 6 HSDPA Subtest-3	14.36	14.24	14.23	15.50	18.87	18.78	18.90	20.00
3GPP Rel 6 HSDPA Subtest-4	14.41	14.32	14.25	15.50	18.90	18.81	18.90	20.00
3GPP Rel 8 DC-HSDPA Subtest-1	14.74	14.64	14.69	16.00	19.36	19.28	19.19	20.50
3GPP Rel 8 DC-HSDPA Subtest-2	14.82	14.61	14.68	16.00	19.34	19.27	19.26	20.50
3GPP Rel 8 DC-HSDPA Subtest-3	14.37	14.30	14.18	15.50	18.71	18.64	18.73	20.00
3GPP Rel 8 DC-HSDPA Subtest-4	14.25	14.19	14.19	15.50	18.94	18.75	18.76	20.00
3GPP Rel 6 HSUPA Subtest-1	14.84	14.83	14.77	16.00	19.40	19.41	19.36	20.50
3GPP Rel 6 HSUPA Subtest-2	12.77	12.77	12.67	14.00	17.36	17.40	17.36	18.50
3GPP Rel 6 HSUPA Subtest-3	13.82	13.83	13.81	15.00	18.29	18.33	18.33	19.50
3GPP Rel 6 HSUPA Subtest-4	12.88	12.81	12.78	14.00	17.32	17.34	17.29	18.50
3GPP Rel 6 HSUPA Subtest-5	14.79	14.74	14.74	16.00	19.40	19.34	19.28	20.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	13.79	13.75	13.71	15.00	18.31	18.50	18.26	19.50

Band	WCDMA V_Ant 13				WCDMA V_Ant 31			
	TX Channel	4132	4182	4233	4132	4182	4233	4132
TX Channel	4132	4182	4233	Limit	4132	4182	4233	Limit
Rx Channel	4587	4407	4458	4587	4407	4458	4587	4587
Frequency (MHz)	826.4	836.4	846.6	826.4	836.4	846.6	826.4	836.4
3GPP Rel 99 AMR 12.2Kbps	24.33	24.38	24.36	25.00	24.25	24.37	24.35	25.00
3GPP Rel 99 RMC 12.2Kbps	24.35	24.40	24.37	25.00	24.27	24.39	24.38	25.00
3GPP Rel 6 HSDPA Subtest-1	23.52	23.61	23.58	24.50	23.46	23.53	23.57	24.50
3GPP Rel 6 HSDPA Subtest-2	23.54	23.57	23.59	24.50	23.47	23.54	23.54	24.50
3GPP Rel 6 HSDPA Subtest-3	22.99	23.08	23.08	24.00	22.94	22.97	23.10	24.00
3GPP Rel 6 HSDPA Subtest-4	23.02	23.09	23.08	24.00	22.94	23.00	23.05	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	23.39	23.54	23.55	24.50	23.45	23.47	23.56	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	23.50	23.41	23.48	24.50	23.45	23.47	23.53	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	22.97	22.96	23.00	24.00	22.83	22.89	22.95	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	22.99	22.96	22.99	24.00	22.81	22.85	23.04	24.00
3GPP Rel 6 HSUPA Subtest-1	23.52	23.55	23.60	24.50	23.46	23.55	23.57	24.50
3GPP Rel 6 HSUPA Subtest-2	21.54	21.59	21.59	22.50	21.50	21.51	21.51	22.50
3GPP Rel 6 HSUPA Subtest-3	22.59	22.57	22.57	23.50	22.47	22.51	22.53	23.50
3GPP Rel 6 HSUPA Subtest-4	21.56	21.59	21.58	23.00	21.52	21.47	21.58	23.00
3GPP Rel 6 HSUPA Subtest-5	23.60	23.60	23.60	24.50	23.50	23.60	23.50	24.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	22.66	22.67	22.64	23.50	22.51	22.53	22.51	23.50

GSM850_Ant 31	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	128	189	251	Limit	128	189	251	Limit
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	834.4	844.6	251.2	834.4	844.6	854.8	251.2
GSM 1 Tx slot	32.60	32.95	32.74	33.50	23.60	23.95	23.74	24.50
GPRS/EDGE GMSK 1 Tx slot	32.59	32.91	32.72	33.50	23.59	23.91	23.72	24.50
GPRS/EDGE GMSK 2 Tx slots	30.31	30.56	30.47	31.50	24.31	24.56	24.47	25.50
GPRS/EDGE GMSK 3 Tx slots	27.60	28.85	28.62	29.50	23.34	24.59	24.36	25.24
GPRS/EDGE GMSK 4 Tx slots	27.04	27.22	27.20	28.00	24.04	24.22	24.20	25.00
EDGE BPSK 1 Tx slot	26.89	26.83	26.80	28.00	17.89	17.83	17.80	19.00
EDGE BPSK 2 Tx slots	24.98	24.81	25.01	26.00	18.98	18.81	19.01	20.00
EDGE BPSK 3 Tx slots	22.99	23.02	23.25	24.00	18.73	18.76	18.99	19.74
EDGE BPSK 4 Tx slots	21.63	21.38	21.56	22.50	18.63	18.38	18.56	19.50

GSM1900_Ant 31	Burst Average Power (dBm)				Frame-Average Power (dBm)			
	512	661	810	Limit	512	661	810	Limit
TX Channel	512 <td>661 <td>810 <td>Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td></td></td></td>	661 <td>810 <td>Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td></td></td>	810 <td>Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td></td>	Limit <td>512 <td>661 <td>810 <td>Limit </td></td></td></td>	512 <td>661 <td>810 <td>Limit </td></td></td>	661 <td>810 <td>Limit </td></td>	810 <td>Limit </td>	Limit
Frequency (MHz)	1850.2	1860	1909.8	1909.8	1850.2	1860	1909.8	1909.8
GSM 1 Tx slot	26.97	26.40	26.33	30.00	20.37	20.40	20.33	21.00
GPRS/EDGE GMSK 1 Tx slot	26.94	26.36	26.30	30.00	20.34	20.36	20.30	21.00
GPRS/EDGE GMSK 2 Tx slots	26.56	26.58	26.55	28.00	20.56	20.58	20.55	22.00
GPRS/EDGE GMSK 3 Tx slots	24.80	24.83	24.58	26.00	20.34	20.37	20.32	21.74
GPRS/EDGE GMSK 4 Tx slots	23.38	23.42	23.36	24.50	20.38	20.42	20.36	21.50
EDGE BPSK 1 Tx slot	25.91	25.96	26.01	27.00	18.91	18.96	17.01	18.00
EDGE BPSK 2 Tx slots	24.20	24.20	24.23	25.00	18.20	18.20	18.23	19.00
EDGE BPSK 3 Tx slots	22.18	22.17	22.35	23.00	17.92	17.91	18.09	18.74
EDGE BPSK 4 Tx slots	20.84	20.57	20.56	21.50	17.64	17.57	17.56	18.50

Band	WCDMA V_Ant 13				WCDMA V_Ant 31			
	TX Channel	1312	1413	1513	1312	1413	1513	1312
TX Channel	1312	1413	1513	Limit	1312	1413	1513	Limit
Rx Channel	1537	1638	1738	1537	1638	1738	1537	1537
Frequency (MHz)	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6	1712.4	1732.6
3GPP Rel 99 AMR 12.2Kbps	16.91	16.97	16.93	17.50	20.85	20.86	20.82	21.50
3GPP Rel 99 RMC 12.2Kbps	16.94	16.98	16.96	17.50	20.87	20.89	20.85	21.50
3GPP Rel 6 HSDPA Subtest-1	15.79	15.83	15.88	17.00	19.80	20.05	19.94	21.00
3GPP Rel 6 HSDPA Subtest-2	15.74	15.91	15.88	17.00	19.87	20.00	19.96	21.00
3GPP Rel 6 HSDPA Subtest-3	15.20	15.43	15.33	16.50	19.39	19.51	19.50	20.50
3GPP Rel 6 HSDPA Subtest-4	15.23	15.38	15.38	16.50	19.47	19.53	19.46	20.50
3GPP Rel 8 DC-HSDPA Subtest-1	15.72	15.81	15.81	17.00	19.84	19.83	19.82	21.00
3GPP Rel 8 DC-HSDPA Subtest-2	15.70	15.72	15.76	17.00	19.79	19.88	19.90	21.00
3GPP Rel 8 DC-HSDPA Subtest-3	15.22	15.30	15.19	16.50	19.41	19.49	19.48	20.50
3GPP Rel 8 DC-HSDPA Subtest-4	15.25	15.40	15.26	16.50	19.33	19.54	19.42	20.50
3GPP Rel 6 HSUPA Subtest-1	15.84	16.00	15.92	17.00	19.89	20.07	19.97	21.00
3GPP Rel 6 HSUPA Subtest-2	13.89	13.87	13.94	15.00	17.95	17.98	17.93	19.00
3GPP Rel 6 HSUPA Subtest-3	14.87	14.85	14.94	16.00	18.79	18.89	18.95	20.00
3GPP Rel 6 HSUPA Subtest-4	13.92	14.01	13.92	15.00	17.90	18.06	17.99	19.00
3GPP Rel 6 HSUPA Subtest-5	15.83	15.94	15.84	17.00	19.91	20.03	19.99	21.00



Band 2_Ant 13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Ch./Freq	Power Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.36	17.43	17.51	18.5	0		
20	QPSK	1	49	17.18	17.26	17.34	18.5	0		
20	QPSK	1	99	17.35	17.39	17.39	18.5	0		
20	QPSK	50	0	17.25	17.43	17.42	18.5	0		
20	QPSK	50	24	17.27	17.29	17.29	18.5	0		
20	QPSK	50	50	17.24	17.38	17.40	18.5	0		
20	QPSK	100	0	17.19	17.36	17.33	18.5	0		
20	16QAM	1	0	17.11	17.27	17.30	18.5	0		
20	16QAM	1	49	17.18	17.26	17.28	18.5	0		
20	16QAM	1	99	17.12	17.33	17.30	18.5	0		
20	16QAM	50	0	17.10	17.34	17.28	18.5	0		
20	16QAM	50	24	17.16	17.28	17.29	18.5	0		
20	16QAM	50	50	17.10	17.29	17.29	18.5	0		
20	64QAM	1	0	17.11	17.30	17.29	18.5	0		
20	64QAM	1	49	17.16	17.23	17.23	18.5	0		
20	64QAM	1	99	17.16	17.30	17.25	18.5	0		
20	64QAM	50	0	17.14	17.31	17.31	18.5	0		
20	64QAM	50	24	17.16	17.30	17.30	18.5	0		
20	64QAM	50	50	17.12	17.27	17.25	18.5	0		
20	64QAM	100	0	17.11	17.28	17.26	18.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.42	17.43	17.43	18.5	0		
15	QPSK	1	37	17.28	17.34	17.31	18.5	0		
15	QPSK	1	74	17.38	17.30	17.36	18.5	0		
15	QPSK	36	0	17.40	17.42	17.42	18.5	0		
15	QPSK	36	18	17.28	17.31	17.31	18.5	0		
15	QPSK	36	39	17.30	17.37	17.31	18.5	0		
15	QPSK	75	0	17.28	17.42	17.28	18.5	0		
15	16QAM	1	0	17.19	17.38	17.26	18.5	0		
15	16QAM	1	37	17.16	17.21	17.20	18.5	0		
15	16QAM	1	74	17.27	17.30	17.24	18.5	0		
15	16QAM	36	0	17.29	17.32	17.27	18.5	0		
15	16QAM	36	18	17.25	17.23	17.24	18.5	0		
15	16QAM	36	39	17.27	17.21	17.26	18.5	0		
15	16QAM	75	0	17.20	17.29	17.26	18.5	0		
15	64QAM	1	0	17.29	17.23	17.24	18.5	0		
15	64QAM	1	37	17.20	17.20	17.20	18.5	0		
15	64QAM	1	74	17.23	17.23	17.22	18.5	0		
15	64QAM	36	0	17.27	17.30	17.24	18.5	0		
15	64QAM	36	18	17.20	17.23	17.24	18.5	0		
15	64QAM	36	39	17.17	17.18	17.21	18.5	0		
15	64QAM	75	0	17.25	17.25	17.23	18.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.42	17.41	17.47	18.5	0		
10	QPSK	1	25	17.28	17.36	17.33	18.5	0		
10	QPSK	1	49	17.38	17.33	17.36	18.5	0		
10	QPSK	1	74	17.28	17.31	17.31	18.5	0		
10	QPSK	25	12	17.28	17.31	17.36	18.5	0		
10	QPSK	25	25	17.31	17.28	17.31	18.5	0		
10	QPSK	50	0	17.26	17.21	17.23	18.5	0		
10	16QAM	1	25	17.24	17.16	17.26	18.5	0		
10	16QAM	1	49	17.28	17.25	17.31	18.5	0		
10	16QAM	25	0	17.20	17.23	17.24	18.5	0		
10	16QAM	25	12	17.22	17.19	17.26	18.5	0		
10	16QAM	25	25	17.23	17.23	17.21	18.5	0		
10	16QAM	50	0	17.23	17.21	17.21	18.5	0		
10	16QAM	50	12	17.25	17.23	17.26	18.5	0		
10	64QAM	1	25	17.26	17.19	17.19	18.5	0		
10	64QAM	1	49	17.20	17.20	17.27	18.5	0		
10	64QAM	25	0	17.26	17.29	17.27	18.5	0		
10	64QAM	25	12	17.22	17.22	17.25	18.5	0		
10	64QAM	50	0	17.26	17.22	17.24	18.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.42	17.47	17.38	18.5	0		
5	QPSK	1	12	17.33	17.29	17.35	18.5	0		
5	QPSK	12	0	17.34	17.33	17.33	18.5	0		
5	QPSK	12	6	17.33	17.38	17.40	18.5	0		
5	QPSK	12	7	17.27	17.30	17.32	18.5	0		
5	QPSK	12	13	17.34	17.36	17.28	18.5	0		
5	16QAM	1	0	17.18	17.21	17.26	18.5	0		
5	16QAM	1	12	17.25	17.23	17.17	18.5	0		
5	16QAM	12	24	17.26	17.29	17.27	18.5	0		
5	16QAM	12	7	17.25	17.33	17.28	18.5	0		
5	16QAM	12	7	17.26	17.23	17.24	18.5	0		
5	16QAM	12	13	17.25	17.22	17.23	18.5	0		
5	16QAM	25	0	17.23	17.23	17.25	18.5	0		
5	64QAM	1	0	17.28	17.21	17.21	18.5	0		
5	64QAM	1	12	17.25	17.24	17.22	18.5	0		
5	64QAM	12	24	17.24	17.26	17.17	18.5	0		
5	64QAM	12	7	17.28	17.21	17.29	18.5	0		
5	64QAM	12	7	17.29	17.27	17.22	18.5	0		
5	64QAM	12	13	17.22	17.25	17.25	18.5	0		
5	64QAM	25	0	17.26	17.21	17.24	18.5	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	17.44	17.46	17.41	18.5	0		
3	QPSK	1	8	17.36	17.34	17.32	18.5	0		
3	QPSK	1	14	17.32	17.33	17.33	18.5	0		
3	QPSK	8	4	17.40	17.40	17.41	18.5	0		
3	QPSK	8	4	17.30	17.28	17.26	18.5	0		
3	QPSK	8	4	17.33	17.23	17.27	18.5	0		
3	QPSK	15	0	17.32	17.26	17.30	18.5	0		
3	16QAM	1	0	17.18	17.21	17.19	18.5	0		
3	16QAM	1	8	17.18	17.16	17.20	18.5	0		
3	16QAM	8	4	17.31	17.29	17.31	18.5	0		
3	16QAM	8	4	17.31	17.27	17.25	18.5	0		
3	16QAM	8	4	17.22	17.27	17.18	18.5	0		
3	16QAM	8	7	17.20	17.19	17.27	18.5	0		
3	16QAM	15	0	17.26	17.23	17.25	18.5	0		
3	64QAM	1	0	17.29	17.27	17.30	18.5	0		
3	64QAM	1	8	17.26	17.25	17.19	18.5	0		
3	64QAM	8	4	17.24	17.26	17.17	18.5	0		
3	64QAM	8	4	17.24	17.23	17.28	18.5	0		
3	64QAM	15	0	17.23	17.27	17.25	18.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	17.41	17.39	17.47	18.5	0		
1.4	QPSK	1	3	17.36	17.32	17.37	18.5	0		
1.4	QPSK	1	5	17.35	17.33	17.30	18.5	0		
1.4	QPSK	3	0	17.41	17.39	17.36	18.5	0		
1.4	QPSK	3	1	17.34	17.28	17.31	18.5	0		
1.4	QPSK	3	1	17.32	17.30	17.36	18.5	0		
1.4	QPSK	6	0	17.36	17.29	17.30	18.5	0		
1.4	16QAM	1	0	17.23	17.20	17.18	18.5	0		
1.4	16QAM	1	3	17.18	17.23	17.24	18.5	0		
1.4	16QAM	1	5	17.27	17.20	17.31	18.5	0		
1.4	16QAM	3	0	17.24	17.28	17.32	18.5	0		
1.4	16QAM	3	1	17.24	17.26	17.20	18.5	0		
1.4	16QAM	3	1	17.19	17.20	17.22	18.5	0		
1.4	16QAM	6	0	17.27	17.27	17.22	18.5	0		
1.4	64QAM	1	0	17.23	17.21	17.26	18.5	0		
1.4	64QAM	1	3	17.22	17.19	17.24	18.5	0		
1.4	64QAM	3	0	17.27	17.23	17.28	18.5	0		
1.4	64QAM	3	0	17.23	17.22	17.27	18.5	0		
1.4	64QAM	3	1	17.29	17.21	17.26	18.5	0		
1.4	64QAM	6	0	17.22	17.18	17.24	18.5	0		
1.4	64QAM	6	0	17.23	17.26	17.21	18.5	0		



Band 4_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20550	20175	20350				
20	QPSK	1	0	17.02	18.15	18.11				
20	QPSK	1	49	19.07	19.13	19.02				
20	QPSK	1	99	19.06	19.05	19.05				
20	QPSK	50	0	18.15	18.14	18.01				
20	QPSK	50	24	19.08	19.10	19.04				
20	QPSK	50	50	19.03	19.11	19.02				
20	QPSK	100	0	19.07	19.13	18.91				
20	16QAM	1	0	19.04	19.12	19.00				
20	16QAM	1	49	19.04	19.07	19.02				
20	16QAM	1	99	19.05	19.11	19.00				
20	16QAM	50	0	19.03	19.05	18.90				
20	16QAM	50	24	19.04	19.10	18.91				
20	16QAM	50	50	19.01	19.08	18.92				
20	16QAM	100	0	19.02	19.13	18.93				
20	16QAM	1	0	19.06	19.10	18.97				
20	16QAM	1	49	19.04	19.07	18.92				
20	16QAM	1	99	19.05	19.05	18.93				
20	16QAM	50	0	19.01	19.08	18.94				
20	16QAM	50	24	19.04	19.10	18.91				
20	16QAM	50	50	19.03	19.10	18.91				
20	16QAM	100	0	19.03	19.13	18.90				
Channel										
Frequency (MHz)				20025	20175	20325				
15	QPSK	1	0	17.73	17.23	17.43				
15	QPSK	1	37	19.01	19.05	19.01				
15	QPSK	1	74	19.00	18.98	18.99				
15	QPSK	36	0	19.07	19.10	19.04				
15	QPSK	36	36	19.03	19.03	18.96				
15	QPSK	36	72	19.02	19.05	18.96				
15	QPSK	72	0	19.04	19.08	19.09				
15	16QAM	1	0	19.00	19.10	19.04				
15	16QAM	1	37	19.03	19.08	19.08				
15	16QAM	1	74	19.01	19.02	19.03				
15	16QAM	36	0	19.00	18.98	19.02				
15	16QAM	36	36	19.02	19.08	19.02				
15	16QAM	36	72	19.02	19.06	19.03				
15	16QAM	72	0	19.06	19.06	19.11				
15	16QAM	1	0	19.06	19.04	19.04				
15	16QAM	1	37	19.06	18.98	19.00				
15	16QAM	1	74	18.96	18.96	19.02				
15	16QAM	36	0	18.95	19.06	19.05				
15	16QAM	36	36	19.00	19.07	19.06				
15	16QAM	36	72	19.05	19.08	19.05				
15	16QAM	72	0	19.09	19.11	19.03				
Channel										
Frequency (MHz)				20000	20175	20350				
10	QPSK	1	0	19.13	19.10	19.05				
10	QPSK	1	25	19.01	19.08	19.08				
10	QPSK	1	49	19.04	19.03	18.99				
10	QPSK	25	0	19.03	19.03	18.96				
10	QPSK	25	12	18.97	19.03	18.97				
10	QPSK	25	25	19.09	19.08	19.06				
10	QPSK	50	0	19.03	19.06	19.02				
10	16QAM	1	0	19.03	19.06	19.04				
10	16QAM	1	49	19.10	19.04	19.03				
10	16QAM	1	99	19.01	19.07	19.04				
10	16QAM	25	0	19.02	19.09	19.04				
10	16QAM	25	12	19.03	19.02	19.08				
10	16QAM	50	0	19.11	19.08	19.06				
10	16QAM	50	24	19.04	19.04	19.04				
10	16QAM	1	0	19.04	19.03	18.99				
10	16QAM	1	49	18.96	18.96	18.97				
10	16QAM	25	0	19.00	19.02	19.04				
10	16QAM	25	12	19.06	19.09	19.01				
10	16QAM	25	25	19.03	19.03	19.07				
10	16QAM	50	0	19.04	19.09	18.99				
10	16QAM	50	24	19.03	19.03	19.06				
10	16QAM	100	0	19.04	19.03	19.07				
Channel										
Frequency (MHz)				19965	20175	20385				
3	QPSK	1	0	19.07	19.10	19.08				
3	QPSK	1	4	19.08	19.04	19.05				
3	QPSK	1	8	19.07	19.00	19.04				
3	QPSK	8	4	19.02	18.98	18.95				
3	QPSK	15	0	19.02	19.06	19.07				
3	QPSK	15	0	19.11	19.03	19.07				
3	16QAM	1	0	19.10	19.07	19.06				
3	16QAM	1	4	19.10	19.03	19.08				
3	16QAM	8	4	19.04	19.04	18.95				
3	16QAM	15	0	19.05	19.03	19.07				
3	16QAM	15	0	19.04	19.09	19.05				
3	16QAM	1	0	19.05	19.03	19.08				
3	16QAM	1	4	18.96	18.97	18.98				
3	16QAM	8	4	19.04	19.07	18.99				
3	16QAM	8	4	19.00	19.06	19.03				
3	16QAM	15	0	19.07	19.03	19.05				
Channel										
Frequency (MHz)				19957	20175	20393				
1.4	QPSK	1	0	19.06	19.07	19.08				
1.4	QPSK	1	3	19.08	19.06	19.05				
1.4	QPSK	1	5	19.04	18.95	18.99				
1.4	QPSK	3	0	19.05	19.04	19.12				
1.4	QPSK	3	1	19.06	18.95	18.95				
1.4	QPSK	6	0	19.08	19.08	19.04				
1.4	16QAM	1	0	19.10	19.06	19.04				
1.4	16QAM	1	3	19.07	19.04	19.06				
1.4	16QAM	1	5	19.10	19.07	19.00				
1.4	16QAM	3	0	19.05	19.02	19.00				
1.4	16QAM	3	1	19.04	19.06	19.07				
1.4	16QAM	3	1	18.99	19.07	19.00				
1.4	16QAM	6	0	19.07	19.11	19.09				
1.4	16QAM	1	0	19.08	19.07	19.00				
1.4	16QAM	1	3	19.08	19.02	18.97				
1.4	16QAM	1	5	19.01	19.02	18.95				
1.4	16QAM	3	0	19.05	18.98	19.05				
1.4	16QAM	3	1	19.05	19.00	19.04				
1.4	16QAM	3	1	19.00	19.03	19.01				
1.4	16QAM	6	0	19.06	19.07	19.07				

Band 5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				820	836.5	844				
10	QPSK	1	0	24.14	24.32	24.31				
10	QPSK	1	25	24.11	24.34	24.31				
10	QPSK	1	49	23.94	24.12	24.04				
10	QPSK	25	0	23.94	24.11	23.62				
10	QPSK	25	12	23.93	23.93	23.31				
10	QPSK	25	25	23.99	23.94	23.12				
10	QPSK	50	0	23.11	23.18	23.04				
10	16QAM	1	0	23.37	23.24	23.27				
10	16QAM	1	25	23.45	23.40	23.40				
10	16QAM	1	49	23.01	22.73	23.47				
10	16QAM	25	0	22.09	22.17	22.10				
10	16QAM	25	12	22.06	22.98	22.60				
10	16QAM	25	25	21.10	21.17	21.13				
10	16QAM	50	0	22.19	22.05	22.12				
10	16QAM	1	0	22.30	22.19	22.33				
10	16QAM	1	25	22.82	22.28	22.16				
10	16QAM	1	49	22.34	22.32	22.18				
10	16QAM	25	0	21.05	21.09	21.08				
10	16QAM	25	12	21.00	21.10	21.12				
10	16QAM	25	25	21.10	21.17	21.13				
10	16QAM	50	0	21.09	21.07	21.03				
Channel										
Frequency (MHz)				20425	20525	20625				
5	QPSK	1	0	24.04	24.24	24.24				
5	QPSK	1	12	24.06	24.12	23.98				



Band 7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	21.02	21.13	21.07			22	0
20	QPSK	1	99	21.01	21.08	20.97				
20	QPSK	50	0	21.02	21.07	21.08				
20	QPSK	50	99	21.02	21.01	21.01			22	0
20	QPSK	100	0	20.97	21.02	20.98				
20	16QAM	1	0	20.94	21.04	20.99				
20	16QAM	1	99	21.01	21.01	21.00			22	0
20	16QAM	50	0	20.98	21.01	20.99				
20	16QAM	50	99	20.96	20.96	20.96			22	0
20	16QAM	100	0	20.98	21.02	20.98				
20	16QAM	100	99	20.97	20.99	21.05			22	0
20	16QAM	1	49	21.01	20.98	21.05				
20	16QAM	1	99	21.03	20.98	20.96				
20	16QAM	50	0	20.93	20.92	20.90				
20	16QAM	50	99	20.97	20.95	20.93			21	1
20	16QAM	100	0	20.93	20.91	20.95				
20	16QAM	100	99	20.93	19.97	19.97				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	21.04	21.11	21.02				
15	QPSK	1	37	20.96	20.97	21.02			22	0
15	QPSK	1	74	21.09	21.00	21.03				
15	QPSK	36	0	21.05	21.05	20.98				
15	QPSK	36	99	20.95	20.91	20.98			22	0
15	QPSK	75	0	21.00	20.93	20.95				
15	16QAM	1	0	20.97	20.99	20.97				
15	16QAM	1	37	20.98	20.99	20.97			22	0
15	16QAM	1	74	20.98	20.93	20.91				
15	16QAM	36	0	20.95	20.94	20.96				
15	16QAM	36	99	20.95	20.98	20.91			22	0
15	16QAM	75	0	20.98	21.01	20.97				
15	16QAM	75	99	20.95	20.93	20.95			22	0
15	16QAM	1	37	20.93	20.92	20.88				
15	16QAM	1	74	20.98	20.97	20.97				
15	16QAM	36	0	19.95	19.93	19.92				
15	16QAM	36	99	19.97	19.95	19.93			21	1
15	16QAM	75	0	19.93	19.94	19.93				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	21.08	21.12	21.10				
10	QPSK	1	25	20.94	20.95	20.95			22	0
10	QPSK	1	49	20.98	21.02	21.01				
10	16QAM	36	0	20.92	20.93	20.97				
10	16QAM	25	12	20.96	20.95	20.89			22	0
10	16QAM	25	25	20.97	20.96	20.99				
10	16QAM	50	0	20.96	20.92	20.97				
10	16QAM	50	99	21.07	20.94	20.98			22	0
10	16QAM	1	25	20.97	20.99	20.92				
10	16QAM	1	49	20.91	20.98	20.93				
10	16QAM	25	0	20.98	20.93	20.98			22	0
10	16QAM	25	12	20.95	20.89	20.88				
10	16QAM	25	25	20.99	20.97	20.99				
10	16QAM	50	0	20.92	21.00	20.97				
10	16QAM	50	99	20.92	20.95	20.94			22	0
10	16QAM	1	25	20.96	20.91	20.88				
10	16QAM	1	49	20.92	20.93	20.96				
10	16QAM	25	0	19.95	19.90	19.95				
10	16QAM	25	12	20.01	20.03	20.01			21	1
10	16QAM	25	25	19.91	19.99	19.92				
10	16QAM	50	0	19.92	19.98	19.92				
Channel										
Frequency (MHz)				20925	21100	21425				
5	QPSK	1	0	21.10	21.05	21.05				
5	QPSK	1	12	20.95	21.01	20.97			22	0
5	QPSK	1	24	20.98	21.00	21.06				
5	QPSK	12	0	20.97	21.00	20.97				
5	QPSK	12	7	20.95	20.95	20.94			22	0
5	16QAM	1	0	21.00	21.02	21.00				
5	16QAM	1	12	20.98	20.91	20.99			22	0
5	16QAM	1	24	20.96	20.96	20.93				
5	16QAM	12	0	21.00	20.97	20.91				
5	16QAM	12	7	20.94	20.90	20.95			22	0
5	16QAM	12	13	20.94	20.95	20.96				
5	16QAM	25	0	20.98	20.94	20.99				
5	16QAM	1	0	20.89	20.93	20.94				
5	16QAM	1	12	20.96	20.93	20.88			22	0
5	16QAM	1	24	20.92	20.92	20.97				
5	16QAM	12	0	19.97	19.90	19.98				
5	16QAM	12	7	19.96	20.02	19.97			21	1
5	16QAM	12	13	19.97	20.00	19.96				
5	16QAM	25	0	19.95	19.92	19.97				

Band 7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				20850	21100	21350				
20	QPSK	1	0	15.18	15.21	15.14			16.5	0
20	QPSK	1	49	15.18	15.21	15.14				
20	QPSK	50	0	15.12	15.19	15.11				
20	QPSK	50	99	15.11	15.14	15.10			16.5	0
20	16QAM	1	0	15.08	15.08	15.03				
20	16QAM	1	49	15.01	15.11	15.03			16.5	0
20	16QAM	1	99	15.05	15.05	15.00				
20	16QAM	50	0	15.06	15.11	15.02				
20	16QAM	50	99	15.08	15.08	15.04			16.5	0
20	16QAM	100	0	15.07	15.08	15.05				
20	16QAM	100	99	15.02	15.10	15.05				
20	16QAM	1	0	15.08	15.04	15.07			16.5	0
20	16QAM	1	49	15.01	15.11	15.03				
20	16QAM	1	99	15.06	15.06	15.07				
20	16QAM	50	0	15.08	15.04	15.05				
20	16QAM	50	99	15.06	15.12	15.04			16.5	0
20	16QAM	100	0	15.08	15.06	15.03				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	15.11	15.20	15.11				
15	QPSK	1	37	15.05	15.02	15.03			16.5	0
15	QPSK	1	74	15.11	15.11	15.11				
15	QPSK	36	0	15.08	15.07	15.06				
15	QPSK	36	99	15.02	15.04	15.04			16.5	0
15	QPSK	36	39	15.04	14.98	15.06				
15	QPSK	75	0	15.00	15.05	14.99				
15	16QAM	1	0	15.06	15.03	15.03				
15	16QAM	1	37	15.06	15.03	15.03			16.5	0
15	16QAM	1	74	14.96	15.01	15.01				
15	16QAM	36	0	15.09	15.10	15.09				
15	16QAM	36	99	15.02	15.03	14.99			16.5	0
15	16QAM	36	39	15.01	15.05	14.97				
15	16QAM	75	0	15.09	15.03	15.02				
15	16QAM	75	99	15.00	15.02	14.99			16.5	0
15	16QAM	1	37	15.06	15.04	15.02				
15	16QAM	1	74	15.05	14.96	15.04				
15	16QAM	36	0	14.98	14.96	14.99			16.5	0
15	16QAM	36	99	15.01	15.01	14.99				
15	16QAM	36	39	15.04	15.04	14.99				
15	16QAM	75	0	14.99	14.98	14.99			16.5	0
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	15.18	15.17	15.15				
10	QPSK	1	25	15.06	15.06	15.07			16.5	0
10	QPSK	1	49	15.17	15.18	15.10				
10	16QAM	36	0	15.07	15.06	15.13				
10	16QAM	25	12	15.07	15.00	15.09			16.5	0
10	16QAM	25	25	14.99	15.01	15.05				
10	16QAM	50	0	15.07	15.07	15.00				



Band 13_Ant 13									
BW (MHz)	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)									
10	QPSK	1	0	24.17					
10	QPSK	1	25	24.13					
10	QPSK	1	49	23.88					
10	QPSK	25	0	23.11					
10	QPSK	25	12	22.97					
10	QPSK	25	25	23.10					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.12					
10	16QAM	1	25	22.91					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.10					
10	16QAM	25	12	21.98					
10	16QAM	25	25	22.11					
10	16QAM	50	0	22.05					
10	64QAM	1	0	22.61					
10	64QAM	1	25	22.13					
10	64QAM	1	49	22.04					
10	64QAM	25	0	21.00					
10	64QAM	25	12	20.96					
10	64QAM	25	25	21.12					
10	64QAM	50	0	21.06					
Channel									
23205 23230 23255									
Frequency (MHz)									
5	QPSK	1	0	24.13	24.09	24.04			
5	QPSK	1	12	24.08	24.05	23.98			
5	QPSK	1	24	23.86	23.84	23.72			
5	QPSK	12	0	23.07	23.03	23.02			
5	QPSK	12	7	22.81	22.87	22.94			
5	QPSK	12	13	23.01	23.06	23.00			
5	QPSK	25	0	22.82	22.88	22.85			
5	16QAM	1	0	23.09	23.00	23.05			
5	16QAM	1	12	22.85	22.89	22.79			
5	16QAM	1	24	23.28	23.20	23.19			
5	16QAM	12	0	22.07	22.02	21.94			
5	16QAM	12	7	21.96	21.97	21.83			
5	16QAM	12	13	22.09	22.10	22.05			
5	16QAM	25	0	21.96	21.89	21.95			
5	64QAM	1	0	22.37	22.45	22.45			
5	64QAM	1	12	22.00	22.02	22.04			
5	64QAM	1	24	21.91	21.88	21.91			
5	64QAM	12	0	20.98	20.93	20.91			
5	64QAM	12	7	20.86	20.88	20.90			
5	64QAM	12	13	21.04	21.09	21.08			
5	64QAM	25	0	20.96	21.01	20.99			

Band 13_Ant 31									
BW (MHz)	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)									
10	QPSK	1	0	24.16					
10	QPSK	1	25	24.11					
10	QPSK	1	49	23.94					
10	QPSK	25	0	23.17					
10	QPSK	25	12	22.99					
10	QPSK	25	25	23.16					
10	QPSK	50	0	22.98					
10	16QAM	1	0	23.58					
10	16QAM	1	25	23.26					
10	16QAM	1	49	23.32					
10	16QAM	25	0	22.04					
10	16QAM	25	12	22.98					
10	16QAM	25	25	22.17					
10	16QAM	50	0	22.10					
10	64QAM	1	0	22.28					
10	64QAM	1	25	22.52					
10	64QAM	1	49	22.14					
10	64QAM	25	0	20.97					
10	64QAM	25	12	21.11					
10	64QAM	25	25	21.09					
10	64QAM	50	0	21.00					
Channel									
23205 23230 23255									
Frequency (MHz)									
5	QPSK	1	0	24.07	24.14	24.11			
5	QPSK	1	12	24.08	24.02	24.01			
5	QPSK	1	24	23.81	23.78	23.84			
5	QPSK	12	0	23.15	23.11	23.14			
5	QPSK	12	7	22.85	22.89	22.85			
5	QPSK	12	13	23.05	23.15	23.13			
5	QPSK	25	0	23.04	22.95	23.04			
5	16QAM	1	0	23.50	23.56	23.51			
5	16QAM	1	12	23.18	23.19	23.19			
5	16QAM	1	24	23.25	23.22	23.28			
5	16QAM	12	0	21.96	22.01	21.93			
5	16QAM	12	7	22.00	22.05	21.93			
5	16QAM	12	13	22.14	22.10	22.02			
5	16QAM	25	0	21.98	21.94	22.04			
5	64QAM	1	0	22.17	22.15	22.25			
5	64QAM	1	12	22.47	22.50	22.47			
5	64QAM	1	24	22.09	21.98	22.12			
5	64QAM	12	0	20.82	20.85	20.80			
5	64QAM	12	7	21.02	21.06	21.08			
5	64QAM	12	13	21.05	21.02	21.01			
5	64QAM	25	0	20.89	20.99	20.92			

Band 17_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760 23790 23800									
Frequency (MHz)									
10	QPSK	1	0	23.45	23.51	23.41			
10	QPSK	1	25	23.41	23.49	23.37			
10	QPSK	1	49	23.38	23.47	23.39			
10	QPSK	25	0	22.94	22.98	22.85			
10	QPSK	25	12	22.91	22.80	22.80			
10	QPSK	25	25	22.89	22.97	22.78			
10	QPSK	50	0	22.87	22.90	22.85			
10	16QAM	1	0	22.92	22.90	22.82			
10	16QAM	1	25	22.98	22.88	22.76			
10	16QAM	1	49	22.87	22.90	22.85			
10	16QAM	25	0	21.92	21.95	21.76			
10	16QAM	25	12	21.91	21.92	21.85			
10	16QAM	25	25	21.85	21.95	21.78			
10	16QAM	50	0	21.90	21.87	21.81			
10	64QAM	1	0	21.85	21.86	21.85			
10	64QAM	1	25	21.91	21.88	21.81			
10	64QAM	1	49	21.93	21.95	21.82			
10	64QAM	25	0	20.92	20.88	20.76			
10	64QAM	25	12	20.85	20.83	20.82			
10	64QAM	25	25	20.93	20.97	20.80			
10	64QAM	50	0	20.90	20.86	20.81			
Channel									
23755 23790 23825									
Frequency (MHz)									
5	QPSK	1	0	23.42	23.44	23.42			
5	QPSK	1	12	23.48	23.39	23.40			
5	QPSK	1	24	23.38	23.37	23.46			
5	QPSK	12	0	22.91	22.80	22.92			
5	QPSK	12	7	22.87	22.90	22.90			
5	QPSK	12	13	22.91	22.96	22.88			
5	QPSK	25	0	22.87	22.82	22.87			
5	16QAM	1	0	22.95	22.86	22.95			
5	16QAM	1	12	22.83	22.87	22.83			
5	16QAM	1	24	22.95	22.90	22.91			
5	16QAM	12	0	21.89	21.87	21.91			
5	16QAM	12	7	21.82	21.83	21.80			
5	16QAM	12	13	21.94	21.88	21.87			
5	16QAM	25	0	21.91	21.89	21.86			
5	64QAM	1	0	21.94	21.95	21.89			
5	64QAM	1	12	21.83	21.82	21.80			
5	64QAM	1	24	21.85	21.84	21.87			
5	64QAM	12	0	20.84	20.83	20.86			
5	64QAM	12	7	20.85	20.87	20.87			
5	64QAM	12	13	20.92	20.94	20.93			
5	64QAM	25	0	20.94	20.90	20.94			

Band 17_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
23760 23790 23800									
Frequency (MHz)									
10	QPSK	1	0	24.25	24.38	24.18			
10	QPSK	1	25	24.19	24.13	24.16			
10	QPSK	1	49	24.07	24.15	23.19			
10	QPSK	25	0	23.27	23.24	23.25			
10	QPSK	25	12	23.17	23.23	23.20			
10	QPSK	25	25	23.21	23.20	23.20			
10	QPSK	50	0	23.21	23.16	23.50			
10	16QAM	1	0	2					



Band 26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Max Ch./Freq	Power Min Ch./Freq	Turn-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.75	23.75	23.75	23	0	
15	QPSK	1	0	23.75	23.75	23.75	23	0	
15	QPSK	1	74	23.80	23.79	23.80	24	1	
15	QPSK	36	0	22.71	22.92	22.50	24	1	
15	QPSK	36	20	22.80	22.86	22.84	24	1	
15	QPSK	36	89	22.89	22.96	22.85	24	1	
15	QPSK	75	0	22.94	22.99	22.76	24	1	
15	16QAM	1	0	23.15	23.11	23.29	24	1	
15	16QAM	1	37	23.33	23.17	23.66	24	1	
15	16QAM	1	74	23.24	23.24	22.87	24	1	
15	16QAM	36	0	21.90	21.82	21.94	23	2	
15	16QAM	36	20	21.97	21.84	21.83	23	2	
15	16QAM	36	89	22.00	21.91	21.89	23	2	
15	16QAM	75	0	21.96	21.84	21.82	23	2	
15	16QAM	1	0	22.14	22.04	22.13	23	2	
15	16QAM	1	37	22.06	22.07	21.85	23	2	
15	16QAM	1	74	22.08	21.76	21.69	23	2	
15	16QAM	36	0	20.89	20.94	20.88	22	3	
15	16QAM	36	20	21.07	20.82	20.88	22	3	
15	16QAM	36	89	21.00	20.97	20.95	22	3	
15	16QAM	75	0	21.06	20.81	20.85	22	3	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.62	23.61	23.67	25	0	
10	QPSK	1	25	23.62	23.69	23.81	25	0	
10	QPSK	1	49	23.78	23.64	23.52	25	0	
10	QPSK	25	0	22.80	22.90	22.82	24	1	
10	QPSK	25	12	22.83	22.83	22.87	24	1	
10	QPSK	25	25	22.78	22.74	22.80	24	1	
10	QPSK	50	0	22.82	22.98	22.87	24	1	
10	QPSK	50	12	22.85	22.95	22.83	24	1	
10	16QAM	1	25	23.20	23.08	22.96	24	1	
10	16QAM	1	49	23.23	23.09	22.95	24	1	
10	16QAM	25	0	21.83	21.73	21.89	23	2	
10	16QAM	25	12	21.87	21.82	21.88	23	2	
10	16QAM	25	25	21.90	21.80	21.81	23	2	
10	16QAM	50	0	21.83	21.73	21.79	23	2	
10	16QAM	50	12	21.88	21.77	21.74	23	2	
10	16QAM	50	25	21.88	21.87	21.87	23	2	
10	16QAM	75	0	21.84	21.81	21.71	23	2	
10	16QAM	75	12	21.84	21.81	21.71	23	2	
10	16QAM	75	25	21.84	21.81	21.71	23	2	
10	16QAM	1	49	21.96	21.75	21.68	23	2	
10	16QAM	25	0	20.87	20.96	20.85	22	3	
10	16QAM	25	12	20.92	20.77	20.79	22	3	
10	16QAM	25	25	20.93	20.91	20.87	22	3	
10	16QAM	50	0	20.89	20.75	20.70	22	3	
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.76	23.69	23.74	25	0	
5	QPSK	1	12	23.73	23.69	23.77	25	0	
5	QPSK	1	24	23.77	23.68	23.67	25	0	
5	QPSK	12	0	22.78	22.70	22.70	24	1	
5	QPSK	12	7	22.78	22.70	22.70	24	1	
5	QPSK	12	13	22.83	22.76	22.81	24	1	
5	QPSK	25	0	22.80	22.86	22.85	24	1	
5	16QAM	1	12	23.00	23.08	23.15	24	1	
5	16QAM	1	12	23.27	23.12	22.61	24	1	
5	16QAM	1	24	23.18	23.12	22.56	24	1	
5	16QAM	12	0	21.88	21.87	21.88	23	2	
5	16QAM	12	7	21.89	21.79	21.79	23	2	
5	16QAM	12	13	21.87	21.89	21.76	23	2	
5	16QAM	25	0	21.81	21.82	21.80	23	2	
5	16QAM	25	12	21.89	21.89	21.87	23	2	
5	16QAM	1	12	21.84	22.25	21.79	23	2	
5	16QAM	1	24	21.88	21.64	21.59	23	2	
5	16QAM	12	0	20.82	20.74	20.76	22	3	
5	16QAM	12	7	20.92	20.74	20.72	22	3	
5	16QAM	12	13	21.06	20.94	20.90	22	3	
5	16QAM	25	0	20.85	20.73	20.70	22	3	
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.80	23.86	23.80	25	0	
3	QPSK	1	8	23.75	23.78	23.78	25	0	
3	QPSK	1	14	23.73	23.67	23.56	25	0	
3	QPSK	8	0	22.79	22.85	22.88	24	1	
3	QPSK	8	4	22.78	22.70	22.70	24	1	
3	QPSK	8	7	22.81	22.81	22.72	24	1	
3	QPSK	15	0	22.82	22.96	22.87	24	1	
3	16QAM	1	0	23.10	22.99	23.24	24	1	
3	16QAM	1	8	23.22	23.08	22.60	24	1	
3	16QAM	1	14	23.22	23.17	22.66	24	1	
3	16QAM	8	0	21.79	21.74	21.82	23	2	
3	16QAM	8	4	21.86	21.77	21.70	23	2	
3	16QAM	8	7	21.89	21.88	21.75	23	2	
3	16QAM	15	0	21.86	21.80	21.71	23	2	
3	16QAM	1	0	22.08	22.02	22.04	23	2	
3	16QAM	1	8	21.96	22.23	21.81	23	2	
3	16QAM	1	14	21.96	21.74	21.76	23	2	
3	16QAM	1	0	20.73	20.84	20.86	22	3	
3	16QAM	8	4	20.93	20.88	20.79	22	3	
3	16QAM	8	7	20.97	20.81	20.81	22	3	
3	16QAM	15	0	21.03	20.78	20.71	22	3	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.78	23.81	23.83	25	0	
1.4	QPSK	1	3	23.88	23.81	23.77	25	0	
1.4	QPSK	1	5	23.83	23.76	23.68	25	0	
1.4	QPSK	3	0	23.88	23.81	23.81	25	0	
1.4	QPSK	3	1	23.88	23.77	23.80	25	0	
1.4	QPSK	3	3	23.68	23.74	23.72	24	1	
1.4	QPSK	6	0	22.92	22.91	22.86	24	1	
1.4	16QAM	1	0	22.85	22.73	22.86	24	1	
1.4	16QAM	1	3	22.85	22.90	22.86	24	1	
1.4	16QAM	1	5	22.92	22.93	22.78	24	1	
1.4	16QAM	3	0	23.03	23.05	22.89	24	1	
1.4	16QAM	3	1	23.05	23.09	22.99	24	1	
1.4	16QAM	3	3	23.03	22.94	22.94	24	1	
1.4	16QAM	6	0	21.88	21.85	21.79	23	2	
1.4	16QAM	6	1	21.90	21.80	21.82	23	2	
1.4	16QAM	6	3	21.88	21.86	21.85	23	2	
1.4	16QAM	15	0	21.85	21.80	21.71	23	2	
1.4	16QAM	3	0	21.89	21.86	22.03	23	2	
1.4	16QAM	3	1	22.10	21.96	22.04	23	2	
1.4	16QAM	3	3	21.86	21.86	21.86	23	2	
1.4	16QAM	6	0	20.83	20.76	20.80	22	3	

Band 26_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq	Power Max Ch./Freq	Power Min Ch./Freq	Turn-up limit (dBm)	MPR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.76	23.76	23.76	25	0	
15	QPSK	1	37	23.76	23.76	23.76	25	0	
15	QPSK	1	74	23.75	23.71	23.89	25	0	
15	QPSK	36	0	22.70	22.91	22.63	24	1	
15	QPSK	36	20	22.81	22.78	22.79	24	1	
15	QPSK	36	79	22.89	22.82	22.73	24	1	
15	QPSK	75	0	22.83	22.90	22.81	24	1	
15	16QAM	1	0	22.79	23.34	23.36	24	1	
15	16QAM	1	37	23.21	23.00	23.64	24	1	
15	16QAM	1	74	22.89	23.45	23.02	24	1	
15	16QAM	36	0	21.88	21.88	21.89	23	2	
15	16QAM	36	20	22.00	21.82	21.79	23	2	
15	16QAM	36	89	22.14	21.89	21.82	23	2	
15	16QAM	75	0	21.90	21.78	21.87	23	2	
15	16QAM	1	0	21.83	21.81	22.15	23	2	
15	16QAM	1	37	21.80	22.04	21.81	23	2	
15	16QAM	1	74	22.04	21.77	21.69	23	2	
15	16QAM	36	0	20.93	20.88	20.88	22	3	
15	16QAM	36	20	21.00	20.89	20.87	22	3	
15	16QAM	36	89						



Band 66_Ant 11

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	16.50	16.51	16.51	17.5	0
20	QPSK	1	46	16.50	16.51	16.51		
20	QPSK	1	99	16.47	16.58	16.46		
20	QPSK	50	0	16.51	16.55	16.54		
20	QPSK	50	24	16.47	16.48	16.35		
20	QPSK	50	50	16.48	16.50	16.42		
20	QPSK	100	0	16.45	16.50	16.36		
20	16QAM	1	0	16.49	16.51	16.39		
20	16QAM	1	46	16.43	16.51	16.38		
20	16QAM	1	99	16.41	16.50	16.39		
20	16QAM	50	0	16.45	16.48	16.35		
20	16QAM	50	24	16.46	16.45	16.37		
20	16QAM	50	50	16.49	16.50	16.40		
20	16QAM	100	0	16.42	16.48	16.38		
20	64QAM	1	0	16.42	16.50	16.37		
20	64QAM	1	46	16.43	16.52	16.40		
20	64QAM	1	99	16.41	16.54	16.34		
20	64QAM	50	0	16.46	16.50	16.40		
20	64QAM	50	24	16.44	16.47	16.43		
20	64QAM	50	50	16.41	16.43	16.35		
20	64QAM	100	0	16.44	16.54	16.40		
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.53	16.50	16.55	17.5	0
15	QPSK	1	37	16.44	16.48	16.41		
15	QPSK	1	74	16.51	16.54	16.49		
15	QPSK	36	0	16.51	16.47	16.54		
15	QPSK	36	20	16.38	16.47	16.42		
15	QPSK	36	39	16.47	16.45	16.45		
15	QPSK	75	0	16.41	16.42	16.44		
15	16QAM	1	0	16.49	16.41	16.47		
15	16QAM	1	37	16.45	16.48	16.48		
15	16QAM	1	74	16.45	16.47	16.44		
15	16QAM	36	0	16.45	16.41	16.39		
15	16QAM	36	20	16.39	16.45	16.41		
15	16QAM	36	39	16.46	16.44	16.43		
15	16QAM	75	0	16.47	16.41	16.40		
15	64QAM	1	0	16.41	16.48	16.46		
15	64QAM	1	37	16.43	16.50	16.49		
15	64QAM	1	74	16.46	16.46	16.52		
15	64QAM	36	0	16.40	16.48	16.49		
15	64QAM	36	20	16.37	16.41	16.43		
15	64QAM	36	39	16.43	16.45	16.43		
15	64QAM	75	0	16.50	16.49	16.49		
Channel								
Frequency (MHz)								
10	QPSK	1	0	16.60	16.57	16.59	17.5	0
10	QPSK	1	25	16.46	16.43	16.46		
10	QPSK	1	49	16.57	16.57	16.48		
10	QPSK	25	0	16.50	16.54	16.46		
10	QPSK	25	12	16.44	16.40	16.39		
10	QPSK	25	29	16.40	16.46	16.41		
10	QPSK	50	0	16.43	16.44	16.42		
10	16QAM	1	0	16.44	16.46	16.47		
10	16QAM	1	25	16.46	16.46	16.44		
10	16QAM	1	49	16.44	16.46	16.43		
10	16QAM	25	0	16.46	16.45	16.38		
10	16QAM	25	12	16.41	16.40	16.42		
10	16QAM	25	29	16.42	16.42	16.40		
10	16QAM	50	0	16.40	16.46	16.41		
10	64QAM	1	0	16.46	16.42	16.42		
10	64QAM	1	25	16.46	16.45	16.49		
10	64QAM	1	49	16.53	16.44	16.50		
10	64QAM	25	0	16.46	16.41	16.49		
10	64QAM	25	12	16.45	16.41	16.41		
10	64QAM	25	29	16.48	16.49	16.52		
10	64QAM	50	0	16.44	16.45	16.45		
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.58	16.59	16.58	17.5	0
5	QPSK	1	12	16.47	16.50	16.44		
5	QPSK	1	24	16.55	16.50	16.50		
5	QPSK	12	0	16.45	16.48	16.50		
5	QPSK	12	7	16.39	16.39	16.47		
5	QPSK	12	13	16.41	16.44	16.47		
5	QPSK	25	0	16.47	16.45	16.48		
5	16QAM	1	0	16.50	16.41	16.47		
5	16QAM	1	12	16.49	16.48	16.49		
5	16QAM	1	24	16.40	16.42	16.41		
5	16QAM	12	0	16.41	16.41	16.40		
5	16QAM	12	7	16.44	16.41	16.36		
5	16QAM	12	13	16.40	16.41	16.42		
5	16QAM	25	0	16.44	16.38	16.45		
5	64QAM	1	0	16.42	16.40	16.40		
5	64QAM	1	12	16.50	16.48	16.49		
5	64QAM	1	24	16.52	16.47	16.44		
5	64QAM	12	0	16.45	16.44	16.41		
5	64QAM	12	7	16.41	16.39	16.43		
5	64QAM	12	13	16.45	16.51	16.52		
5	64QAM	25	0	16.47	16.46	16.49		
Channel								
Frequency (MHz)								
3	QPSK	1	0	16.53	16.50	16.59	17.5	0
3	QPSK	1	8	16.42	16.44	16.42		
3	QPSK	1	14	16.36	16.53	16.50		
3	QPSK	8	0	16.51	16.52	16.48		
3	QPSK	8	4	16.40	16.40	16.43		
3	QPSK	8	7	16.41	16.40	16.42		
3	QPSK	15	0	16.41	16.42	16.49		
3	16QAM	1	0	16.45	16.48	16.47		
3	16QAM	1	8	16.42	16.44	16.49		
3	16QAM	1	14	16.41	16.47	16.47		
3	16QAM	8	0	16.38	16.46	16.47		
3	16QAM	8	4	16.42	16.39	16.39		
3	16QAM	8	7	16.49	16.49	16.44		
3	16QAM	15	0	16.40	16.45	16.42		
3	64QAM	1	0	16.42	16.47	16.48		
3	64QAM	1	8	16.50	16.50	16.46		
3	64QAM	1	14	16.48	16.49	16.51		
3	64QAM	8	0	16.48	16.40	16.45		
3	64QAM	8	4	16.39	16.41	16.40		
3	64QAM	8	7	16.44	16.51	16.52		
3	64QAM	15	0	16.48	16.47	16.49		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	16.60	16.56	16.51	17.5	0
1.4	QPSK	1	3	16.45	16.44	16.47		
1.4	QPSK	1	5	16.57	16.51	16.50		
1.4	QPSK	3	0	16.46	16.48	16.50		
1.4	QPSK	3	1	16.45	16.47	16.41		
1.4	QPSK	3	3	16.45	16.41	16.42		
1.4	QPSK	6	0	16.44	16.48	16.47		
1.4	16QAM	1	0	16.45	16.42	16.41		
1.4	16QAM	1	3	16.45	16.50	16.46		
1.4	16QAM	1	5	16.40	16.47	16.48		
1.4	16QAM	3	0	16.41	16.39	16.41		
1.4	16QAM	3	1	16.37	16.39	16.42		
1.4	16QAM	3	3	16.45	16.43	16.43		
1.4	16QAM	6	0	16.42	16.39	16.38		
1.4	64QAM	1	0	16.49	16.43	16.47		
1.4	64QAM	1	3	16.47	16.44	16.44		
1.4	64QAM	1	5	16.51	16.52	16.49		
1.4	64QAM	3	0	16.43	16.43	16.49		
1.4	64QAM	3	1	16.43	16.39	16.42		
1.4	64QAM	3	3	16.49	16.49	16.48		
1.4	64QAM	6	0	16.48	16.46	16.51		



Band 38_Ant 13										
BW [MHz]	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)				37650	38000	38150				
20	QPSK	1	0	14.51	14.58	14.55				
20	QPSK	1	49	14.45	14.51	14.53	15.5	0		
20	QPSK	1	99	14.47	14.50	14.48				
20	QPSK	50	0	14.47	14.56	14.46				
20	QPSK	50	24	14.42	14.52	14.41	15.5	0		
20	QPSK	50	50	14.39	14.47	14.43				
20	QPSK	100	0	14.38	14.53	14.38				
20	16QAM	1	0	14.46	14.51	14.37				
20	16QAM	1	49	14.37	14.49	14.45	15.5	0		
20	16QAM	1	99	14.43	14.50	14.42				
20	16QAM	50	0	14.44	14.51	14.43				
20	16QAM	50	24	14.39	14.46	14.38	15.5	0		
20	16QAM	50	50	14.41	14.49	14.38				
20	16QAM	100	0	14.43	14.51	14.41				
20	64QAM	1	0	14.44	14.50	14.45				
20	64QAM	1	49	14.42	14.50	14.42	15.5	0		
20	64QAM	1	99	14.39	14.45	14.39				
20	64QAM	50	0	14.41	14.53	14.42				
20	64QAM	50	24	14.41	14.46	14.36	15.5	0		
20	64QAM	50	50	14.41	14.51	14.44				
20	64QAM	100	0	14.37	14.48	14.44				
Channel										
Frequency (MHz)				37625	38000	38175				
15	QPSK	1	0	14.51	14.56	14.54				
15	QPSK	1	37	14.47	14.46	14.46	15.5	0		
15	QPSK	1	74	14.48	14.48	14.47				
15	QPSK	36	0	14.54	14.53	14.50				
15	QPSK	36	20	14.45	14.49	14.42	15.5	0		
15	QPSK	36	39	14.38	14.42	14.38				
15	QPSK	75	0	14.45	14.44	14.48				
15	16QAM	1	0	14.43	14.45	14.48				
15	16QAM	1	37	14.44	14.39	14.39	15.5	0		
15	16QAM	1	74	14.45	14.49	14.42				
15	16QAM	36	0	14.45	14.53	14.53				
15	16QAM	36	20	14.39	14.43	14.38	15.5	0		
15	16QAM	36	39	14.39	14.43	14.48				
15	16QAM	75	0	14.42	14.48	14.47				
15	64QAM	1	0	14.49	14.46	14.48				
15	64QAM	1	37	14.47	14.44	14.44	15.5	0		
15	64QAM	1	74	14.44	14.43	14.48				
15	64QAM	36	0	14.44	14.51	14.49				
15	64QAM	36	20	14.41	14.43	14.45	15.5	0		
15	64QAM	36	39	14.44	14.47	14.48				
15	64QAM	75	0	14.39	14.46	14.45				
Channel										
Frequency (MHz)				37800	38000	38200				
10	QPSK	1	0	14.46	14.46	14.52				
10	QPSK	1	25	14.47	14.47	14.47	15.5	0		
10	QPSK	1	49	14.47	14.42	14.40				
10	QPSK	25	0	14.48	14.50	14.46				
10	QPSK	25	12	14.44	14.44	14.50	15.5	0		
10	QPSK	25	25	14.37	14.46	14.42				
10	QPSK	50	0	14.50	14.47	14.52				
10	16QAM	1	0	14.50	14.44	14.46				
10	16QAM	1	25	14.43	14.45	14.41	15.5	0		
10	16QAM	1	49	14.42	14.45	14.49				
10	16QAM	25	0	14.53	14.45	14.46				
10	16QAM	25	12	14.41	14.44	14.41	15.5	0		
10	16QAM	25	25	14.42	14.47	14.45				
10	16QAM	50	0	14.42	14.42	14.46				
10	64QAM	1	0	14.41	14.46	14.47				
10	64QAM	1	25	14.47	14.45	14.47	15.5	0		
10	64QAM	1	49	14.44	14.45	14.49				
10	64QAM	25	0	14.51	14.49	14.48				
10	64QAM	25	12	14.41	14.40	14.44	15.5	0		
10	64QAM	25	25	14.50	14.50	14.47				
10	64QAM	50	0	14.38	14.45	14.43				
Channel										
Frequency (MHz)				37775	38000	38225				
5	QPSK	1	0	14.55	14.49	14.52				
5	QPSK	1	12	14.47	14.42	14.45	15.5	0		
5	QPSK	1	24	14.42	14.47	14.41				
5	QPSK	12	0	14.50	14.50	14.51				
5	QPSK	12	7	14.43	14.47	14.43	15.5	0		
5	QPSK	12	13	14.42	14.38	14.46				
5	QPSK	25	0	14.45	14.47	14.48				
5	16QAM	1	0	14.42	14.50	14.51				
5	16QAM	1	12	14.41	14.47	14.47	15.5	0		
5	16QAM	1	24	14.43	14.40	14.45				
5	16QAM	12	0	14.51	14.49	14.45				
5	16QAM	12	7	14.40	14.39	14.44	15.5	0		
5	16QAM	12	13	14.43	14.44	14.42				
5	16QAM	25	0	14.49	14.49	14.47				
5	64QAM	1	0	14.48	14.48	14.42				
5	64QAM	1	12	14.46	14.46	14.47	15.5	0		
5	64QAM	1	24	14.46	14.42	14.50				
5	64QAM	12	0	14.51	14.44	14.52				
5	64QAM	12	7	14.39	14.37	14.43	15.5	0		
5	64QAM	12	13	14.43	14.46	14.44				
5	64QAM	25	0	14.45	14.44	14.41				

Band 38_Ant 31										
BW [MHz]	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				
20	QPSK	1	0	23.42	23.65	23.58				
20	QPSK	1	49	23.43	23.46	23.57	24.5	0		
20	QPSK	1	99	23.44	23.56	23.52				
20	QPSK	50	0	22.70	22.79	22.73				
20	QPSK	50	24	22.66	22.62	22.62	23.5	1		
20	QPSK	50	50	22.54	22.62	22.58				
20	QPSK	100	0	22.71	22.77	22.52				
20	16QAM	1	0	22.71	22.42	22.43				
20	16QAM	1	49	22.86	22.81	22.74	23.5	1		
20	16QAM	1	99	22.54	23.03	22.84				
20	16QAM	50	0	21.57	21.46	21.43				
20	16QAM	50	24	21.80	21.61	21.70				
20	16QAM	50	50	21.72	21.74	21.73	22.5	2		
20	16QAM	100	0	21.65	21.62	21.62				
20	64QAM	1	0	21.82	22.01	21.13				
20	64QAM	1	49	21.52	21.87	21.65	22.5	2		
20	64QAM	1	99	21.69	21.72	21.52				
20	64QAM	50	0	20.57	20.52	20.55				
20	64QAM	50	24	20.67	20.58	20.69				
20	64QAM	50	50	20.78	20.84	20.71	21.5	3		
20	64QAM	100	0	20.76	20.60	20.49				
Channel										
Frequency (MHz)				37825	38000	38175				
15	QPSK	1	0	23.37	23.50	23.56				
15	QPSK	1	37	23.30	23.31	23.56	24.5	0		
15	QPSK	1	74	23.30	23.47	23.43				
15	QPSK	36	0	22.54	22.66	22.63				
15	QPSK	36	20	22.52	22.51	22.61	23.5	1		
15	QPSK	36	39	22.49	22.54	22.52				
15	QPSK	75	0	22.60	22.63	22.46				
15	16QAM	1	0	22.57	22.30	22.31				
15	16QAM	1	37	22.83	22.71	22.83	23.5	1		
15	16QAM	1	74	22.47	22.87	22.83				
15	16QAM	36	0	21.47	21.45	21.35				
15	16QAM	36	20	21.69	21.67	21.42	22.5	2		
15	16QAM	36	39	21.63	21.73	21.65				
15	16QAM	75	0	21.58	21.58	21.61				
15	64QAM	1	0	21.67	21.93	21.09				
15	64QAM	1	37	21.38	21.75	21.59	22.5			



Band 41_Ant 13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490	41925		
Frequency (MHz)				2501	2543	2585	2627	2669	2711		
20	QPSK	1	0	15.57	15.56	15.56	15.56	15.56	15.56	16.5	0
20	QPSK	1	49	15.55	15.48	15.56	15.48	15.50	15.50		
20	QPSK	1	99	15.52	15.55	15.60	15.40	15.53	15.56		
20	QPSK	50	0	15.55	15.47	15.63	15.54	15.56	15.56		
20	QPSK	50	24	15.53	15.38	15.62	15.51	15.50	15.50	16.5	0
20	16QAM	50	0	15.46	15.45	15.54	15.48	15.47	15.47		
20	16QAM	100	0	15.52	15.40	15.56	15.47	15.48	15.48		
20	16QAM	1	0	15.48	15.40	15.62	15.52	15.47	15.47		
20	16QAM	1	49	15.47	15.42	15.58	15.44	15.49	15.49	16.5	0
20	16QAM	1	99	15.48	15.39	15.62	15.50	15.55	15.55		
20	16QAM	50	0	15.52	15.43	15.53	15.49	15.55	15.55	16.5	0
20	16QAM	50	24	15.52	15.43	15.53	15.49	15.55	15.55		
20	16QAM	100	0	15.48	15.37	15.55	15.52	15.54	15.54		
20	16QAM	1	0	15.53	15.45	15.57	15.51	15.54	15.54		
20	16QAM	1	49	15.50	15.40	15.53	15.52	15.52	15.52	16.5	0
20	16QAM	1	99	15.51	15.45	15.54	15.45	15.50	15.50		
20	16QAM	50	0	15.53	15.45	15.62	15.45	15.52	15.52		
20	16QAM	50	24	15.54	15.37	15.56	15.48	15.53	15.53	16.5	0
20	16QAM	50	50	15.45	15.41	15.58	15.47	15.46	15.46		
20	16QAM	100	0	15.45	15.40	15.58	15.48	15.47	15.47		
Channel											
Frequency (MHz)				39725	40173	40620	41068	41515	41962		
Frequency (MHz)				22975	23423	23870	24318	24765	25213		
15	QPSK	1	0	15.57	15.49	15.56	15.63	15.62	15.62	16.5	0
15	QPSK	1	37	15.53	15.49	15.46	15.49	15.51	15.51		
15	QPSK	1	74	15.50	15.55	15.58	15.52	15.54	15.54		
15	QPSK	36	0	15.59	15.60	15.55	15.60	15.61	15.61		
15	QPSK	36	20	15.58	15.56	15.56	15.59	15.59	15.59	16.5	0
15	QPSK	36	39	15.52	15.52	15.55	15.48	15.54	15.54		
15	QPSK	75	0	15.47	15.51	15.48	15.48	15.50	15.50		
15	16QAM	1	0	15.55	15.54	15.54	15.61	15.53	15.53		
15	16QAM	1	37	15.51	15.55	15.54	15.48	15.50	15.50	16.5	0
15	16QAM	1	74	15.54	15.56	15.57	15.58	15.61	15.61		
15	16QAM	36	0	15.53	15.52	15.47	15.51	15.45	15.45		
15	16QAM	36	20	15.50	15.48	15.46	15.45	15.50	15.50	16.5	0
15	16QAM	36	39	15.56	15.54	15.49	15.57	15.53	15.53		
15	16QAM	75	0	15.54	15.45	15.53	15.48	15.49	15.49		
15	16QAM	1	0	15.54	15.51	15.55	15.47	15.56	15.56	16.5	0
15	16QAM	1	37	15.49	15.51	15.52	15.49	15.45	15.45		
15	16QAM	1	74	15.50	15.48	15.46	15.44	15.50	15.50		
15	16QAM	36	0	15.54	15.56	15.52	15.61	15.55	15.55		
15	16QAM	36	20	15.53	15.53	15.47	15.47	15.54	15.54	16.5	0
15	16QAM	36	39	15.54	15.56	15.54	15.55	15.49	15.49		
15	16QAM	75	0	15.50	15.54	15.50	15.52	15.49	15.49		
Channel											
Frequency (MHz)				39700	40160	40620	41080	41540	42000		
Frequency (MHz)				2501	2547	2593	2639	2685	2731		
10	QPSK	1	0	15.60	15.65	15.57	15.59	15.65	15.64	16.5	0
10	QPSK	1	25	15.48	15.54	15.46	15.54	15.46	15.46		
10	QPSK	1	49	15.54	15.53	15.56	15.53	15.56	15.56		
10	QPSK	25	0	15.59	15.60	15.55	15.56	15.61	15.61		
10	QPSK	25	12	15.60	15.58	15.58	15.57	15.57	15.57	16.5	0
10	QPSK	25	25	15.50	15.48	15.54	15.51	15.54	15.54		
10	QPSK	50	0	15.53	15.49	15.48	15.49	15.47	15.47		
10	16QAM	1	0	15.57	15.60	15.54	15.58	15.56	15.56		
10	16QAM	1	25	15.51	15.56	15.52	15.53	15.50	15.50	16.5	0
10	16QAM	1	49	15.52	15.52	15.53	15.53	15.57	15.57		
10	16QAM	25	0	15.50	15.48	15.50	15.44	15.46	15.46		
10	16QAM	25	12	15.52	15.43	15.45	15.43	15.47	15.47	16.5	0
10	16QAM	25	25	15.52	15.51	15.56	15.50	15.53	15.53		
10	16QAM	50	0	15.47	15.52	15.48	15.48	15.53	15.53		
10	16QAM	1	0	15.49	15.49	15.55	15.52	15.54	15.54		
10	16QAM	1	25	15.48	15.43	15.44	15.43	15.49	15.49	16.5	0
10	16QAM	1	49	15.44	15.48	15.45	15.52	15.46	15.46		
10	16QAM	25	0	15.50	15.52	15.58	15.54	15.56	15.56		
10	16QAM	25	12	15.48	15.49	15.51	15.49	15.53	15.53	16.5	0
10	16QAM	25	25	15.57	15.53	15.47	15.49	15.50	15.50		
10	16QAM	50	0	15.56	15.54	15.57	15.49	15.56	15.56		
Channel											
Frequency (MHz)				39675	40148	40620	41093	41565	42037		
Frequency (MHz)				2498.5	2545.6	2593	2640.30	2687.5	2734.6		
5	QPSK	1	0	15.62	15.62	15.59	15.58	15.64	15.64	16.5	0
5	QPSK	1	12	15.48	15.54	15.46	15.54	15.46	15.46		
5	QPSK	1	24	15.57	15.57	15.54	15.55	15.50	15.50		
5	QPSK	12	0	15.53	15.58	15.61	15.53	15.61	15.61		
5	QPSK	12	7	15.60	15.61	15.54	15.55	15.54	15.54	16.5	0
5	QPSK	12	13	15.46	15.51	15.53	15.48	15.47	15.47		
5	QPSK	25	0	15.55	15.47	15.48	15.50	15.49	15.49		
5	16QAM	1	0	15.61	15.53	15.57	15.58	15.52	15.52	16.5	0
5	16QAM	1	12	15.51	15.51	15.57	15.57	15.48	15.48		
5	16QAM	1	24	15.54	15.56	15.57	15.53	15.60	15.60		
5	16QAM	12	0	15.45	15.49	15.52	15.45	15.53	15.53		
5	16QAM	12	7	15.52	15.47	15.52	15.50	15.51	15.51	16.5	0
5	16QAM	12	13	15.57	15.51	15.57	15.55	15.51	15.51		
5	16QAM	25	0	15.50	15.54	15.49	15.45	15.46	15.46		
5	16QAM	1	0	15.56	15.50	15.50	15.47	15.50	15.50		
5	16QAM	1	12	15.47	15.45	15.45	15.40	15.50	15.50	16.5	0
5	16QAM	1	24	15.44	15.47	15.44	15.51	15.44	15.44		
5	16QAM	12	0	15.53	15.53	15.52	15.52	15.56	15.56		
5	16QAM	12	7	15.46	15.54	15.53	15.49	15.47	15.47	16.5	0
5	16QAM	12	13	15.54	15.57	15.52	15.55	15.53	15.53		
5	16QAM	25	0	15.57	15.53	15.55	15.52	15.52	15.52		

Band 41_Ant 31

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490	41925		
Frequency (MHz)				2501	2543	2585	2627	2669	2711		
20	QPSK	1	0	23.26	23.45	23.72	23.50	23.61	23.61	24.5	0
20	QPSK	1	49	23.19	23.40	23.55	23.48	23.49	23.49		
20	QPSK	1	99	23.22	23.32	23.45	23.38	23.56	23.56		
20	QPSK	50	0	22.60	22.66	22.70	22.57	22.66	22.66		
20	QPSK	50	24	22.55	22.58	22.59	22.54	22.51	22.51	23.5	1
20	16QAM	50	0	21.41	21.52	21.59	21.55	21.60	21.60		
20	16QAM	100	0	22.47	22.61	22.69	22.45	22.52	22.52		
20	16QAM	1	0	22.06	22.54	22.51	22.26	22.48	22.48		
20	16QAM	1	49	22.31	22.63	22.56	22.37	22.23	22.23	23.5	1
20	16QAM	1	99	22.31							



Uplink CA Power

CA_7C Ant13											
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	Full	22.85	24.00
21100	20902	QPSK	1	0	0	0	1	0	Full	22.78	24.00
21350	21152	QPSK	1	0	0	0	1	0	Full	22.80	24.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 2	14.02	15.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 2	13.95	15.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 2	13.92	15.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	13.05	14.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	12.96	14.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	12.90	14.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	20.88	22.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 4	20.80	22.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	20.78	22.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 5	16.38	17.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 5	16.35	17.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 5	16.33	17.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 8	9.89	11.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 8	9.87	11.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 8	9.83	11.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 9	9.89	11.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 9	9.87	11.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 9	9.83	11.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 10	9.89	11.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 10	9.87	11.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 10	9.83	11.00

CA_7C Ant31											
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	Full	22.76	24.00
21100	20902	QPSK	1	0	0	0	1	0	Full	22.77	24.00
21350	21152	QPSK	1	0	0	0	1	0	Full	22.56	24.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 2	22.76	24.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 2	22.77	24.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 2	22.56	24.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	22.76	24.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	22.77	24.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	22.56	24.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	20.73	22.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 4	20.78	22.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	20.62	22.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 5	20.73	22.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 5	20.78	22.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 5	20.62	22.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 8	20.73	22.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 8	20.78	22.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 8	20.62	22.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 9	20.73	22.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 9	20.78	22.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 9	20.62	22.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 10	20.73	22.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 10	20.78	22.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 10	20.62	22.00



CA_7C Ant11											
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	Full	22.23	24.00
21100	20902	QPSK	1	0	0	0	1	0	Full	22.18	24.00
21350	21152	QPSK	1	0	0	0	1	0	Full	22.20	24.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 2	19.19	21.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 2	19.11	21.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 2	19.16	21.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	17.65	19.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	17.63	19.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	17.60	19.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	22.23	24.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 4	22.18	24.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	22.20	24.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 5	18.70	20.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 5	18.65	20.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 5	18.66	20.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 6	14.72	16.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 8	14.65	16.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 8	14.67	16.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 9	14.72	16.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 9	14.65	16.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 9	14.67	16.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 10	14.72	16.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 10	14.65	16.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 10	14.67	16.50

CA_66B Ant13											
Combination 15MHz+5MHz (75RB+25RB)											
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					
132047	132140	QPSK	1	0	0	0	1	0	Full	23.02	24.50
132322	132229	QPSK	1	0	0	0	1	0	Full	22.98	24.50
132597	132504	QPSK	1	0	0	0	1	0	Full	22.95	24.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 2	17.03	18.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 2	17.00	18.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 2	16.98	18.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 3	14.56	16.00
132322	132229	QPSK	1	0	0	0	1	0	DSI 3	14.53	16.00
132597	132504	QPSK	1	0	0	0	1	0	DSI 3	14.48	16.00
132047	132140	QPSK	1	0	0	0	1	0	DSI 4	23.02	24.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 4	22.98	24.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 4	22.95	24.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 5	21.05	22.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 5	20.98	22.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 5	20.96	22.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 6	16.53	18.00
132322	132229	QPSK	1	0	0	0	1	0	DSI 8	16.48	18.00
132597	132504	QPSK	1	0	0	0	1	0	DSI 8	16.45	18.00
132047	132140	QPSK	1	0	0	0	1	0	DSI 9	16.53	18.00
132322	132229	QPSK	1	0	0	0	1	0	DSI 9	16.48	18.00
132597	132504	QPSK	1	0	0	0	1	0	DSI 9	16.45	18.00
132047	132140	QPSK	1	0	0	0	1	0	DSI 10	16.53	18.00
132322	132229	QPSK	1	0	0	0	1	0	DSI 10	16.48	18.00
132597	132504	QPSK	1	0	0	0	1	0	DSI 10	16.45	18.00



CA_66B Ant31											
Combination 15MHz+5MHz (75RB+25RB)											
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					
132047	132140	QPSK	1	0	0	0	1	0	Full	22.92	24.50
132322	132229	QPSK	1	0	0	0	1	0	Full	22.90	24.50
132597	132504	QPSK	1	0	0	0	1	0	Full	22.89	24.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 2	22.92	24.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 2	22.90	24.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 2	22.89	24.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 3	22.92	24.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 3	22.90	24.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 3	22.89	24.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 4	20.89	22.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 4	20.88	22.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 4	20.85	22.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 5	20.89	22.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 5	20.88	22.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 5	20.85	22.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 8	20.89	22.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 8	20.88	22.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 8	20.85	22.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 9	20.89	22.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 9	20.88	22.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 9	20.85	22.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 10	20.89	22.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 10	20.88	22.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 10	20.85	22.50

CA_66B AntH1											
Combination 15MHz+5MHz (75RB+25RB)											
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					
132047	132140	QPSK	1	0	0	0	1	0	Full	22.89	24.50
132322	132229	QPSK	1	0	0	0	1	0	Full	22.85	24.50
132597	132504	QPSK	1	0	0	0	1	0	Full	22.80	24.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 2	19.85	21.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 2	19.95	21.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 2	19.82	21.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 3	18.33	20.00
132322	132229	QPSK	1	0	0	0	1	0	DSI 3	18.38	20.00
132597	132504	QPSK	1	0	0	0	1	0	DSI 3	18.31	20.00
132047	132140	QPSK	1	0	0	0	1	0	DSI 4	22.89	24.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 4	22.85	24.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 4	22.80	24.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 5	19.85	21.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 5	19.95	21.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 5	19.82	21.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 8	15.83	17.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 8	15.86	17.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 8	15.83	17.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 9	15.83	17.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 9	15.86	17.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 9	15.83	17.50
132047	132140	QPSK	1	0	0	0	1	0	DSI 10	15.83	17.50
132322	132229	QPSK	1	0	0	0	1	0	DSI 10	15.86	17.50
132597	132504	QPSK	1	0	0	0	1	0	DSI 10	15.83	17.50



CA_66C Ant13											
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					
132072	132270	QPSK	1	0	0	0	1	0	Full	23.05	24.50
132322	132124	QPSK	1	0	0	0	1	0	Full	23.02	24.50
132572	132374	QPSK	1	0	0	0	1	0	Full	22.98	24.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 2	17.07	18.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 2	17.03	18.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 2	17.01	18.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 3	14.60	16.00
132322	132124	QPSK	1	0	0	0	1	0	DSI 3	14.58	16.00
132572	132374	QPSK	1	0	0	0	1	0	DSI 3	14.55	16.00
132072	132270	QPSK	1	0	0	0	1	0	DSI 4	23.05	24.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 4	23.02	24.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 4	22.98	24.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 5	21.08	22.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 5	21.05	22.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 5	21.02	22.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 8	16.58	18.00
132322	132124	QPSK	1	0	0	0	1	0	DSI 8	16.53	18.00
132572	132374	QPSK	1	0	0	0	1	0	DSI 8	16.52	18.00
132072	132270	QPSK	1	0	0	0	1	0	DSI 9	16.58	18.00
132322	132124	QPSK	1	0	0	0	1	0	DSI 9	16.53	18.00
132572	132374	QPSK	1	0	0	0	1	0	DSI 9	16.52	18.00
132072	132270	QPSK	1	0	0	0	1	0	DSI 10	16.58	18.00
132322	132124	QPSK	1	0	0	0	1	0	DSI 10	16.53	18.00
132572	132374	QPSK	1	0	0	0	1	0	DSI 10	16.52	18.00

CA_66C Ant31											
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					
132072	132270	QPSK	1	0	0	0	1	0	Full	22.98	24.50
132322	132124	QPSK	1	0	0	0	1	0	Full	23.01	24.50
132572	132374	QPSK	1	0	0	0	1	0	Full	22.95	24.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 2	22.98	24.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 2	23.01	24.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 2	22.95	24.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 3	22.98	24.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 3	23.01	24.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 3	22.95	24.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 4	20.95	22.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 4	20.98	22.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 4	20.92	22.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 5	20.95	22.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 5	20.98	22.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 5	20.92	22.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 8	20.95	22.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 8	20.98	22.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 8	20.92	22.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 9	20.95	22.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 9	20.98	22.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 9	20.92	22.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 10	20.95	22.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 10	20.98	22.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 10	20.92	22.50



CA_66C Ant11											
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					
132072	132270	QPSK	1	0	0	0	1	0	Full	22.90	24.50
132322	132124	QPSK	1	0	0	0	1	0	Full	22.98	24.50
132572	132374	QPSK	1	0	0	0	1	0	Full	22.89	24.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 2	19.89	21.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 2	19.97	21.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 2	19.85	21.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 3	18.46	20.00
132322	132124	QPSK	1	0	0	0	1	0	DSI 3	18.48	20.00
132572	132374	QPSK	1	0	0	0	1	0	DSI 3	18.43	20.00
132072	132270	QPSK	1	0	0	0	1	0	DSI 4	22.90	24.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 4	22.98	24.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 4	22.89	24.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 5	19.88	21.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 5	19.97	21.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 5	19.85	21.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 8	15.89	17.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 8	15.98	17.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 8	15.86	17.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 9	15.89	17.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 9	15.98	17.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 9	15.86	17.50
132072	132270	QPSK	1	0	0	0	1	0	DSI 10	15.89	17.50
132322	132124	QPSK	1	0	0	0	1	0	DSI 10	15.98	17.50
132572	132374	QPSK	1	0	0	0	1	0	DSI 10	15.86	17.50

CA_38C Ant13											
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	Full	22.98	24.50
37901	38099	QPSK	1	0	0	0	1	0	Full	22.95	24.50
38150	37952	QPSK	1	0	0	0	1	0	Full	22.90	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 2	15.75	17.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 2	15.73	17.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 2	15.70	17.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 3	14.83	16.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 3	14.80	16.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 3	14.68	16.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	22.48	24.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	22.43	24.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	22.41	24.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 5	17.93	19.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 5	17.95	19.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 5	17.90	19.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 8	13.97	15.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 8	13.95	15.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 8	13.92	15.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 9	13.97	15.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 9	13.95	15.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 9	13.92	15.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 10	13.97	15.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 10	13.95	15.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 10	13.92	15.50



CA_38C Ant11											
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	Full	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	Full	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	Full	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 2	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 2	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 2	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 3	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 3	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 3	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 5	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 5	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 5	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 6	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 6	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 6	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 7	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 7	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 7	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 8	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 8	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 8	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 9	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 9	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 9	22.95	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 10	23.02	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 10	22.92	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 10	22.95	24.50

CA_38C Ant11											
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	Full	22.65	24.50
37901	38099	QPSK	1	0	0	0	1	0	Full	22.76	24.50
38150	37952	QPSK	1	0	0	0	1	0	Full	22.60	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 2	19.65	21.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 2	19.68	21.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 2	19.60	21.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 3	18.63	20.00
37901	38099	QPSK	1	0	0	0	1	0	DSI 3	18.70	20.00
38150	37952	QPSK	1	0	0	0	1	0	DSI 3	18.61	20.00
37850	38048	QPSK	1	0	0	0	1	0	DSI 4	22.65	24.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 4	22.76	24.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 4	22.60	24.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 5	19.65	21.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 5	19.78	21.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 5	19.62	21.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 6	18.62	18.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 6	18.75	18.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 6	18.61	18.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 7	18.62	18.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 7	18.75	18.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 7	18.61	18.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 8	18.62	18.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 8	18.75	18.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 8	18.61	18.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 9	18.62	18.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 9	18.75	18.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 9	18.61	18.50
37850	38048	QPSK	1	0	0	0	1	0	DSI 10	18.62	18.50
37901	38099	QPSK	1	0	0	0	1	0	DSI 10	18.75	18.50
38150	37952	QPSK	1	0	0	0	1	0	DSI 10	18.61	18.50



CA_41C Ant13											
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)								
			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					
39750	39948	QPSK	1	0	0	0	1	0	Full	23.05	24.50
40185	39987	QPSK	1	0	0	0	1	0	Full	23.18	24.50
40620	40422	QPSK	1	0	0	0	1	0	Full	23.21	24.50
41055	40857	QPSK	1	0	0	0	1	0	Full	23.11	24.50
41490	41292	QPSK	1	0	0	0	1	0	Full	23.05	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 2	15.56	17.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 2	15.70	17.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 2	15.73	17.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 2	15.68	17.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 2	15.58	17.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 3	14.58	16.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 3	14.73	16.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 3	14.75	16.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 3	14.70	16.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 3	14.60	16.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	22.62	24.00
40185	39987	QPSK	1	0	0	0	1	0	DSI 4	22.75	24.00
40620	40422	QPSK	1	0	0	0	1	0	DSI 4	22.78	24.00
41055	40857	QPSK	1	0	0	0	1	0	DSI 4	22.71	24.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	22.85	24.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 5	18.08	19.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 5	18.20	19.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 5	18.22	19.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 5	18.17	19.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 5	18.06	19.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 8	15.08	16.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 8	15.20	16.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 8	15.22	16.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 8	15.12	16.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 8	15.05	16.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 9	15.06	16.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 9	15.20	16.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 9	15.22	16.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 9	15.12	16.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 9	15.05	16.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 10	15.08	16.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 10	15.20	16.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 10	15.22	16.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 10	15.12	16.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 10	15.05	16.50

CA_41C Ant31											
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)								
			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					
39750	39948	QPSK	1	0	0	0	1	0	Full	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	Full	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	Full	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	Full	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	Full	23.09	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 2	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 2	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 2	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 2	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 2	23.09	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 3	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 3	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 3	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 3	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 3	23.09	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 4	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 4	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 4	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	23.09	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 5	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 5	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 5	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 5	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 5	23.09	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 8	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 8	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 8	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 8	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 8	23.09	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 9	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 9	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 9	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 9	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 9	23.09	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 10	23.08	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 10	23.11	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 10	23.18	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 10	23.15	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 10	23.09	24.50



CA_41C Arit11											
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					
39750	39948	QPSK	1	0	0	0	1	0	Full	22.75	24.50
40185	39987	QPSK	1	0	0	0	1	0	Full	22.90	24.50
40620	40422	QPSK	1	0	0	0	1	0	Full	22.88	24.50
41055	40857	QPSK	1	0	0	0	1	0	Full	22.78	24.50
41490	41292	QPSK	1	0	0	0	1	0	Full	22.85	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 2	19.75	21.00
40185	39987	QPSK	1	0	0	0	1	0	DSI 2	19.85	21.00
40620	40422	QPSK	1	0	0	0	1	0	DSI 2	19.83	21.00
41055	40857	QPSK	1	0	0	0	1	0	DSI 2	19.56	21.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 2	19.62	21.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 3	18.83	20.00
40185	39987	QPSK	1	0	0	0	1	0	DSI 3	18.88	20.00
40620	40422	QPSK	1	0	0	0	1	0	DSI 3	18.83	20.00
41055	40857	QPSK	1	0	0	0	1	0	DSI 3	18.60	20.00
41490	41292	QPSK	1	0	0	0	1	0	DSI 3	18.58	20.00
39750	39948	QPSK	1	0	0	0	1	0	DSI 4	22.75	24.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 4	22.90	24.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 4	22.88	24.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 4	22.78	24.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 4	22.85	24.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 5	18.80	20.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 5	18.89	20.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 5	18.87	20.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 5	18.75	20.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 5	18.83	20.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 8	16.65	18.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 8	16.92	18.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 8	16.90	18.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 8	16.89	18.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 8	16.82	18.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 9	16.65	18.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 9	16.92	18.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 9	16.90	18.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 9	16.89	18.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 9	16.82	18.50
39750	39948	QPSK	1	0	0	0	1	0	DSI 10	16.65	18.50
40185	39987	QPSK	1	0	0	0	1	0	DSI 10	16.92	18.50
40620	40422	QPSK	1	0	0	0	1	0	DSI 10	16.90	18.50
41055	40857	QPSK	1	0	0	0	1	0	DSI 10	16.89	18.50
41490	41292	QPSK	1	0	0	0	1	0	DSI 10	16.82	18.50



Downlink CA Power

Full Power																		
2CC																		
Configure	CA Configuration (BCS)	PCC							SCC				Power					
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)				
Inter-Band	CA_2A-26A	Band 2	20M	1880	18900	QPSK	1	0	Band 28	15M	876.5	8865	23.41	23.54				
	CA_2A-38A	Band 2	20M	1880	18900	QPSK	1	0	Band 38	20M	2595	38000	23.44	23.54				
	CA_5A-38A	Band 5	10M	836.5	20525	QPSK	1	0	Band 38	20M	2595	38000	23.84	24.02				
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	23.75	24.02				
	CA_7A-26A	Band 7	20M	2535	21100	QPSK	1	0	Band 28	15M	876.5	8865	23.11	23.18				
	CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	23.79	24.06				
Intra-Band	Non-Contiguous	CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	23.22	23.54			
		CA_5A-5A	Band 5	10M	836.5	20525	QPSK	1	0	Band 5	5M	891.5	2625	23.86	24.02			
	Contiguous	CA_38C	Band 38	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.80	38198	23.34	23.51			
		CA_41C	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	2569.30	40383	23.58	23.70			
		CA_66B	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.30	66979	23.16	23.49			

3CC																			
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)	
Inter-Band	CA_2A-4A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	23.36	23.54	
	CA_2A-5A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	23.41	23.54	
	CA_2A-7A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.28	23.54	
	CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525	23.31	23.45	
	CA_4A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 7	20M	2655	3100	23.42	23.45	
	CA_2A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.41	23.54	
	CA_4A-7C	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.35	23.45	
	CA_5A-66C	Band 5	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.86	24.02	
	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.37	23.54	
	CA_2A-5A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	23.44	23.54	
	CA_2A-7A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	23.29	23.54	
	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	23.57
CA_41D			Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	2660.2	41292	Band 41	20M	2640.4	41094	23.61	23.70

4CC																						
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)
Inter-Band	CA_5A-7C-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	23.73	24.02
	CA_5A-7A-66A-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	10M	2120	66536	Band 66	5M	2145	66786	23.89	24.02
	CA_7C-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	10M	2120	66536	Band 66	5M	2145	66786	23.11	23.18



n7_Ant 11									
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22,28	22,32	22,41			
40	PI2 BPSK	1	108	22,45	22,54	22,52	24,0	0,0	
40	PI2 BPSK	1	214	22,58	22,48	22,40			
40	PI2 BPSK	108	9	22,50	22,52	21,50	23,5	0,5	
40	PI2 BPSK	108	54	22,58	22,40	22,30	24,0	0,0	
40	PI2 BPSK	108	108	21,79	21,86	21,78			
40	PI2 BPSK	216	9	21,55	21,60	21,58	23,5	0,5	
40	QPSK	1	1	22,05	22,05	22,04			
40	QPSK	1	108	22,08	22,08	22,01	24,0	0,0	
40	QPSK	1	214	22,46	22,42	22,33			
40	QPSK	108	9	21,51	21,58	21,54	23,0	1,0	
40	QPSK	108	54	21,55	22,41	22,41	24,0	0,0	
40	QPSK	108	108	21,28	21,39	21,30	23,0	1,0	
40	QPSK	216	9	21,33	21,33	21,30	23,0	1,0	
40	HQAM	1	1	21,59	21,62	21,62	23,0	1,0	
40	HQAM	1	1	21,77	21,72	21,74	21,0	2,5	
40	HQAM	1	1	18,12	18,13	18,05	18,5	4,5	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
30	QPSK	1	1	22,59	22,54	22,62	24,0	0,0	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
25	QPSK	1	1	22,57	22,54	22,55	24,0	0,0	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
20	QPSK	1	1	22,12	22,10	22,12	24,0	0,0	
Channel									
50300 50700 51500 Turn-up time MPR									
Frequency (MHz)									
15	QPSK	1	1	22,57	22,50	22,55	24,0	0,0	
Channel									
50600 50700 51500 Turn-up time MPR									
Frequency (MHz)									
10	QPSK	1	1	22,58	22,55	22,57	24,0	0,0	
Channel									
50500 50700 51500 Turn-up time MPR									
Frequency (MHz)									
5	QPSK	1	1	22,53	22,63	22,62	24,0	0,0	

n7_Ant 13									
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22,85	22,94	22,90			
40	PI2 BPSK	1	108	22,90	22,94	22,90	24,0	0,0	
40	PI2 BPSK	1	214	22,78	22,87	22,83			
40	PI2 BPSK	108	9	22,53	22,53	22,53	23,5	0,5	
40	PI2 BPSK	108	54	22,58	22,88	22,88	24,0	0,0	
40	PI2 BPSK	108	108	21,72	21,75	21,78			
40	PI2 BPSK	216	9	21,20	21,25	21,19	23,5	0,5	
40	QPSK	1	1	22,91	22,96	22,94			
40	QPSK	1	108	22,78	22,86	22,82	24,0	0,0	
40	QPSK	1	214	22,82	22,80	22,77			
40	QPSK	108	9	21,83	21,87	21,85	23,0	1,0	
40	QPSK	108	54	21,83	21,73	21,68	23,0	1,0	
40	QPSK	108	108	21,84	21,73	21,68	23,0	1,0	
40	HQAM	1	1	21,89	21,97	21,88	23,0	1,0	
40	HQAM	1	1	21,52	21,54	21,54	21,0	2,5	
40	HQAM	1	1	18,39	18,48	18,45	19,0	4,5	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
30	QPSK	1	1	22,90	22,87	22,87	24,0	0,0	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
25	QPSK	1	1	22,90	22,80	22,83	24,0	0,0	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
20	QPSK	1	1	22,13	22,82	22,83	24,0	0,0	
Channel									
50300 50700 51500 Turn-up time MPR									
Frequency (MHz)									
15	QPSK	1	1	22,58	22,49	22,50	24,0	0,0	
Channel									
50600 50700 51500 Turn-up time MPR									
Frequency (MHz)									
10	QPSK	1	1	22,80	22,88	22,84	24,0	0,0	
Channel									
50500 50700 51500 Turn-up time MPR									
Frequency (MHz)									
5	QPSK	1	1	22,82	22,86	22,84	24,0	0,0	

n7_Ant 31									
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22,36	22,36	22,37			
40	PI2 BPSK	1	108	22,36	22,42	22,38	24,0	0,0	
40	PI2 BPSK	1	214	22,23	22,31	22,25			
40	PI2 BPSK	108	9	21,62	21,74	21,68	23,5	0,5	
40	PI2 BPSK	108	54	22,14	22,17	22,16	24,0	0,0	
40	PI2 BPSK	108	108	21,88	21,88	21,87			
40	PI2 BPSK	216	9	21,81	21,71	21,84	23,5	0,5	
40	QPSK	1	1	22,41	22,48	22,40			
40	QPSK	1	108	22,40	22,42	22,40	24,0	0,0	
40	QPSK	1	214	22,37	22,38	22,31			
40	QPSK	108	9	21,37	21,35	21,34	23,0	1,0	
40	QPSK	108	54	21,37	22,38	22,31	24,0	0,0	
40	QPSK	108	108	21,84	21,10	21,87	23,0	1,0	
40	HQAM	1	1	21,32	21,33	21,38	23,0	1,0	
40	HQAM	1	1	21,52	21,54	21,46	23,0	1,0	
40	HQAM	1	1	21,82	21,82	21,80	21,0	2,5	
40	HQAM	1	1	17,91	18,00	17,98	19,0	4,5	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
30	QPSK	1	1	22,37	22,40	22,40	24,0	0,0	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
25	QPSK	1	1	22,33	22,41	22,44	24,0	0,0	
Channel									
50200 50700 51500 Turn-up time MPR									
Frequency (MHz)									
20	QPSK	1	1	22,32	22,42	22,38	24,0	0,0	
Channel									
50300 50700 51500 Turn-up time MPR									
Frequency (MHz)									
15	QPSK	1	1	22,39	22,37	22,34	24,0	0,0	
Channel									
50600 50700 51500 Turn-up time MPR									
Frequency (MHz)									
10	QPSK	1	1	22,35	22,35	22,44	24,0	0,0	
Channel									
50500 50700 51500 Turn-up time MPR									
Frequency (MHz)									
5	QPSK	1	1	22,35	22,38	22,41	24,0	0,0	

n26_Ant 13									
SW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	18,03	18,06	18,04			
25	PI2 BPSK	1	93	18,05	18,07	18,01	25,0	0,0	
25	PI2 BPSK	1	104	18,05	18,06	18,01			
25	PI2 BPSK	96	9	18,08	18,01	18,08	24,5	0,5	
25	PI2 BPSK	96	48	18,08	18,09	18,04	24,5	0,0	
25	PI2 BPSK	96	96	17,43	17,54	17,47			
25	PI2 BPSK	192	9	17,37	17,45	17,36	24,5	0,5	
25	QPSK	1	1	18,03	18,06	18,01			
25	QPSK	1	93	18,07	18,08	18,01	25,0	0,0	
25	QPSK	1	104	18,02	18,06	18,07			
25	QPSK	96	9	18,05	18,02	18,05	24,5	0,0	
25	QPSK	96	48	18,05	18,05	18,01	25,0	0,0	
25	QPSK	96	96	17,81	17,80	17,82	24,0	1,0	
25	QPSK	192	9	17,38	17,38	17,38	24,5	0,0	
25	16QAM	1	1	18,12	18,13	18,05	18,5	4,5	
25	16QAM	1	1	18,25	18,27	18,23	19,0	4,5	
25	16QAM	1	1	18,25	18,27	18,23	19,0	4,5	
Channel									
164300 168500 168300 Turn-up time MPR									
Frequency (MHz)									
15	QPSK	1	1	23,96	23,97	23,89	25,0	0,0	
Channel									
16300 163000 168400 Turn-up time MPR									
Frequency (MHz)									
10	QPSK	1	1	23,96	23,96	23,84	25,0	0,0	
Channel									
16300 163000 168300 Turn-up time MPR									
Frequency (MHz)									
5	QPSK	1	1	23,94	24,02	23,95	25,0	0,0	



n26_Ant 31									
SV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	23.12	23.12	23.12			
20	P12 BPSK	1	104	23.55	23.44	23.53	25.0	0.0	
20	P12 BPSK	50	1	23.07	23.12	23.06	24.5	0.5	
20	P12 BPSK	50	28	23.86	23.89	23.58	23.0	0.0	
20	P12 BPSK	50	56	23.24	23.25	23.3	24.5	0.5	
20	P12 BPSK	50	84	23.10	23.20	23.11	24.5	0.5	
20	QPSK	1	1	23.76	23.82	23.72	25.0	0.0	
20	QPSK	1	104	23.08	23.71	23.62	24.0	1.0	
20	QPSK	50	1	22.99	22.72	22.66	24.0	1.0	
20	QPSK	50	9	22.58	22.57	22.54	23.0	0.0	
20	QPSK	50	28	23.15	23.87	23.15	23.0	0.0	
20	QPSK	50	56	22.69	22.72	22.66	24.0	1.0	
20	QPSK	50	84	22.58	22.57	22.54	23.0	0.0	
20	HQAM	1	1	22.70	22.81	22.80	24.0	1.0	
20	HQAM	1	1	22.24	22.46	22.24	22.5	2.5	
20	HQAM	1	1	18.24	18.32	18.25	20.5	4.5	
Channel									
10	QPSK	1	1	23.67	23.81	23.70	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.70	23.78	23.67	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.71	23.72	23.71	25.0	0.0	

n66_Ant 11									
SV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	23.28	23.28	23.21			
40	P12 BPSK	1	104	23.25	23.35	23.25	24.5	0.0	
40	P12 BPSK	1	214	23.28	23.34	23.28			
40	P12 BPSK	104	1	22.80	22.86	22.78	24.0	0.5	
40	P12 BPSK	104	54	23.28	23.31	23.25	24.5	0.5	
40	P12 BPSK	104	104	22.76	22.84	22.77	24.0	0.5	
40	P12 BPSK	214	1	22.81	22.86	22.84	24.0	0.5	
40	QPSK	1	1	23.37	23.33	23.31	24.5	0.0	
40	QPSK	1	104	23.32	23.41	23.38	24.5	0.0	
40	QPSK	1	214	23.29	23.38	23.35			
40	QPSK	104	1	22.83	22.88	22.82	24.5	0.5	
40	QPSK	104	54	23.28	23.31	23.25	24.5	0.5	
40	QPSK	104	104	22.74	22.79	22.71	23.5	1.0	
40	QPSK	104	9	22.80	22.85	22.83	23.5	1.0	
40	QPSK	104	28	23.15	23.11	23.11	24.5	0.5	
40	QPSK	104	54	23.28	23.30	23.25	24.5	0.5	
40	QPSK	104	104	22.74	22.79	22.71	23.5	1.0	
40	QPSK	104	9	22.80	22.85	22.83	23.5	1.0	
40	HQAM	1	1	22.49	22.52	22.41	23.5	1.0	
40	HQAM	1	1	18.11	18.18	18.18	20.0	4.5	
40	HQAM	1	1	13.22	13.25	13.22	20.0	4.5	
40	HQAM	1	1	19.12	19.13	19.06	20.0	4.5	
Channel									
30	QPSK	1	1	23.32	23.46	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.34	23.46	23.40	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.29	23.42	23.47	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.24	23.45	23.49	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.27	23.45	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.33	23.47	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.29	23.42	23.48	24.5	0.0	

n66_Ant 13									
SV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	23.25	23.26	23.26			
40	P12 BPSK	1	104	23.35	23.42	23.30	24.5	0.0	
40	P12 BPSK	1	214	23.36	23.41	23.37			
40	P12 BPSK	104	1	22.80	22.85	22.88	24.0	0.5	
40	P12 BPSK	104	54	23.35	23.43	23.39	24.5	0.5	
40	P12 BPSK	104	104	22.81	22.88	22.84	24.0	0.5	
40	P12 BPSK	214	1	22.75	22.82	22.88	24.0	0.5	
40	QPSK	1	1	23.45	23.53	23.51	24.5	0.0	
40	QPSK	1	104	23.43	23.49	23.46	24.5	0.0	
40	QPSK	1	214	23.38	23.41	23.34			
40	QPSK	104	1	22.82	22.87	22.87	23.5	1.0	
40	QPSK	104	54	23.35	23.41	23.37	24.5	0.5	
40	QPSK	104	104	22.78	22.82	22.78	23.5	1.0	
40	QPSK	104	9	22.87	22.93	22.83	23.5	1.0	
40	HQAM	1	1	22.40	22.43	22.32	23.5	1.0	
40	HQAM	1	1	18.08	18.10	18.04	22.5	2.5	
40	HQAM	1	1	13.05	13.11	13.04	20.0	4.5	
Channel									
35	QPSK	1	1	23.40	23.44	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.36	23.40	23.40	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.24	23.42	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.29	23.42	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.40	23.50	23.40	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.36	23.48	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.39	23.45	23.50	24.5	0.0	

n66_Ant 31									
SV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	23.11	23.16	23.09			
40	P12 BPSK	1	104	23.12	23.17	23.07	24.5	0.0	
40	P12 BPSK	1	214	23.10	23.30	23.15			
40	P12 BPSK	104	1	22.70	22.71	22.62	24.0	0.5	
40	P12 BPSK	104	54	23.08	23.18	23.09	24.5	0.5	
40	P12 BPSK	104	104	22.66	22.76	22.68	24.0	0.5	
40	P12 BPSK	214	1	22.65	22.76	22.68	24.0	0.5	
40	QPSK	1	1	23.20	23.41	23.33	24.5	0.0	
40	QPSK	1	104	23.20	23.24	23.23	24.5	0.0	
40	QPSK	1	214	23.14	23.24	23.18			
40	QPSK	104	1	22.70	22.74	22.63	23.5	1.0	
40	QPSK	104	54	23.07	23.14	23.03	24.5	0.5	
40	QPSK	104	104	22.64	22.74	22.62	23.5	1.0	
40	QPSK	104	9	22.70	22.76	22.63	23.5	1.0	
40	HQAM	1	1	22.18	22.28	22.18	23.5	1.0	
40	HQAM	1	1	17.78	17.85	17.74	22.5	2.5	
40	HQAM	1	1	12.85	12.94	12.87	20.5	4.5	
Channel									
35	QPSK	1	1	23.17	23.38	23.31	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.17	23.37	23.30	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.14	23.29	23.23	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.13	23.32	23.33	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.20	23.38	23.34	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.24	23.35	23.32	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.15	23.36	23.36	24.5	0.0	



n38_Ant 11									
BW (MHz)	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)									
40	PI/2 BPSK	1	1	23.12	23.24	23.20			
40	PI/2 BPSK	1	53	23.17	23.16	23.16	24.5	0.0	
40	PI/2 BPSK	1	104	23.16	23.28	23.19			
40	PI/2 BPSK	50	0	22.86	22.75	22.88	24.0	0.5	
40	PI/2 BPSK	50	28	23.14	23.16	23.15	24.5	0.0	
40	PI/2 BPSK	50	56	22.88	22.74	22.81			
40	PI/2 BPSK	100	0	22.70	22.67	22.69	24.0	0.5	
40	QPSK	1	1	23.32	23.32	23.32			
40	QPSK	1	53	23.15	23.24	23.17	24.5	0.0	
40	QPSK	1	104	23.25	23.24	23.24			
40	QPSK	50	0	22.13	22.24	22.15	23.5	1.0	
40	QPSK	50	28	23.29	23.30	23.29	24.5	0.0	
40	QPSK	50	56	22.23	22.22	22.15			
40	QPSK	100	0	22.23	22.25	22.18	23.5	1.0	
40	16QAM	1	1	22.17	22.23	22.19	23.5	1.0	
40	64QAM	1	1	20.85	20.67	20.85	22.0	2.5	
40	256QAM	1	1	18.71	18.71	18.69	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.16	23.23	23.10	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.19	23.16	23.18	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.23	23.15	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.18	23.20	23.19	24.5	0.0	

n38_Ant 13									
BW (MHz)	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)									
40	PI/2 BPSK	1	1	23.32	23.33	23.33			
40	PI/2 BPSK	1	53	23.27	23.30	23.33	24.5	0.0	
40	PI/2 BPSK	1	104	23.28	23.38	23.25			
40	PI/2 BPSK	50	0	22.81	22.77	22.83	24.0	0.5	
40	PI/2 BPSK	50	28	23.32	23.34	23.32	24.5	0.0	
40	PI/2 BPSK	50	56	22.78	22.87	22.79			
40	PI/2 BPSK	100	0	22.76	22.81	22.72	24.0	0.5	
40	QPSK	1	1	23.43	23.43	23.43			
40	QPSK	1	53	23.27	23.30	23.25	24.5	0.0	
40	QPSK	1	104	23.30	23.37	23.33			
40	QPSK	50	0	22.25	22.36	22.30	23.5	1.0	
40	QPSK	50	28	23.41	23.43	23.39	24.5	0.0	
40	QPSK	50	56	22.24	22.27	22.30			
40	QPSK	100	0	22.25	22.37	22.31	23.5	1.0	
40	16QAM	1	1	22.30	22.38	22.27	23.5	1.0	
40	64QAM	1	1	20.80	20.84	20.79	22.0	2.5	
40	256QAM	1	1	18.76	18.79	18.73	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.33	23.30	23.30	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.25	23.35	23.22	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.37	23.33	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.27	23.33	23.24	24.5	0.0	

n38_Ant 31									
BW (MHz)	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)									
40	PI/2 BPSK	1	1	23.24	23.33	23.28			
40	PI/2 BPSK	1	53	23.24	23.33	23.31	24.5	0.0	
40	PI/2 BPSK	1	104	23.28	23.24	23.24			
40	PI/2 BPSK	50	0	22.72	22.83	22.78	24.0	0.5	
40	PI/2 BPSK	50	28	23.31	23.27	23.23	24.5	0.0	
40	PI/2 BPSK	50	56	22.82	22.74	22.75			
40	PI/2 BPSK	100	0	22.78	22.80	22.72	24.0	0.5	
40	QPSK	1	1	23.41	23.43	23.38			
40	QPSK	1	53	23.35	23.28	23.24	24.5	0.0	
40	QPSK	1	104	23.36	23.28	23.24			
40	QPSK	50	0	22.25	22.30	22.25	23.5	1.0	
40	QPSK	50	28	23.38	23.40	23.37	24.5	0.0	
40	QPSK	50	56	22.29	22.34	22.25			
40	QPSK	100	0	22.22	22.28	22.21	23.5	1.0	
40	16QAM	1	1	22.30	22.28	22.21	23.5	1.0	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.5	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.25	23.31	23.27	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.25	23.28	23.31	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.29	23.24	23.28	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.23	23.30	23.32	24.5	0.0	



FCC_n41_Ant 11									
BW (MHz)	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	23.51	23.52	23.51			
100	PI2 BPSK	1	137	23.51	23.51	23.44	25.0	0.0	
100	PI2 BPSK	1	271	23.45	23.48	23.49			
100	PI2 BPSK	135	0	22.98	23.05	22.94	24.5	0.5	
100	PI2 BPSK	135	69	23.50	23.58	23.51	25.0	0.0	
100	PI2 BPSK	135	138	22.96	23.05	22.97	24.5	0.5	
100	PI2 BPSK	270	0	23.04	23.07	22.92			
100	QPSK	1	1	23.53	23.55	23.50			
100	QPSK	1	137	23.55	23.56	23.47	25.0	0.0	
100	QPSK	1	271	23.51	23.50	23.50			
100	QPSK	135	0	22.47	22.56	22.50	24.0	1.0	
100	QPSK	135	69	23.00	23.03	23.00	25.0	0.0	
100	QPSK	135	138	22.45	22.55	22.46	24.0	1.0	
100	QPSK	270	0	22.54	22.56	22.43	24.0	1.0	
100	16QAM	1	1	22.49	22.58	22.42	24.0	1.0	
100	64QAM	1	1	20.95	20.98	21.02	22.5	2.5	
100	256QAM	1	1	19.00	19.00	19.88	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.51	23.47	23.43	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.53	23.49	23.53	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.47	23.55	23.49	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.50	23.47	23.70	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.50	23.55	23.45	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.54	23.57	23.45	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.45	23.50	23.51	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.45	23.47	23.50	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.44	23.56	23.46	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.49	23.56	23.46	25.0	0.0	

FCC_n41_Ant 13									
BW (MHz)	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	23.73	23.76	23.68			
100	PI2 BPSK	1	137	23.70	23.70	23.68	25.0	0.0	
100	PI2 BPSK	1	271	23.70	23.76	23.62			
100	PI2 BPSK	135	0	23.23	23.19	23.22	24.5	0.5	
100	PI2 BPSK	135	69	23.75	23.75	23.69	25.0	0.0	
100	PI2 BPSK	135	138	23.25	23.17	23.23	24.5	0.5	
100	PI2 BPSK	270	0	23.16	23.27	23.23			
100	QPSK	1	1	23.65	23.65	23.60			
100	QPSK	1	137	23.68	23.78	23.71	25.0	0.0	
100	QPSK	1	271	23.74	23.80	23.66			
100	QPSK	135	0	22.69	22.67	22.71	24.0	1.0	
100	QPSK	135	69	23.61	23.63	23.70	25.0	0.0	
100	QPSK	135	138	22.65	22.76	22.67	24.0	1.0	
100	QPSK	270	0	22.67	22.73	22.64	24.0	1.0	
100	16QAM	1	1	22.65	22.71	22.63	24.0	1.0	
100	64QAM	1	1	21.16	21.21	21.17	22.5	2.5	
100	256QAM	1	1	19.22	19.21	19.15	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.65	23.70	23.64	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.75	23.75	23.71	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.67	23.74	23.70	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.75	23.71	23.70	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.67	23.69	23.65	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.75	23.74	23.68	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.65	23.78	23.67	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.78	23.75	23.72	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.74	23.71	23.68	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.71	23.69	23.72	25.0	0.0	

FCC_n41_Ant 31									
BW (MHz)	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	23.78	23.77	23.72			
100	PI2 BPSK	1	137	23.76	23.75	23.67	25.0	0.0	
100	PI2 BPSK	1	271	23.76	23.71	23.69			
100	PI2 BPSK	135	0	23.20	23.23	23.24	24.5	0.5	
100	PI2 BPSK	135	69	23.74	23.77	23.67	25.0	0.0	
100	PI2 BPSK	135	138	23.28	23.23	23.19	24.5	0.5	
100	PI2 BPSK	270	0	23.23	23.24	23.24			
100	QPSK	1	1	23.68	23.61	23.55			
100	QPSK	1	137	23.72	23.78	23.72	25.0	0.0	
100	QPSK	1	271	23.72	23.83	23.73			
100	QPSK	135	0	22.69	22.75	22.71	24.0	1.0	
100	QPSK	135	69	23.67	23.65	23.60	25.0	0.0	
100	QPSK	135	138	22.74	22.70	22.70	24.0	1.0	
100	QPSK	270	0	22.71	22.80	22.70	24.0	1.0	
100	16QAM	1	1	22.70	22.74	22.74	24.0	1.0	
100	64QAM	1	1	21.22	21.26	21.20	22.5	2.5	
100	256QAM	1	1	19.28	19.25	19.25	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.70	23.71	23.67	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.69	23.80	23.75	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.71	23.92	23.75	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.66	23.76	23.74	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.65	23.72	23.69	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.70	23.73	23.67	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.71	23.69	23.67	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.67	23.70	23.69	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.67	23.76	23.67	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.71	23.74	23.69	25.0	0.0	



Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	22.83	22.83	22.83	24.0	0.0	
100	PI2-BPSK	1	137	22.74	22.74	22.74	24.0	0.0	
100	PI2-BPSK	1	271	22.85	22.85	22.85	24.0	0.0	
100	PI2-BPSK	135	0	22.26	22.26	22.26	23.5	0.5	
100	PI2-BPSK	135	86	22.72	22.72	22.72	24.0	0.0	
100	PI2-BPSK	135	138	22.31	22.31	22.31	23.5	0.5	
100	PI2-BPSK	270	0	22.24	22.24	22.24	24.0	0.0	
100	QPSK	1	1	22.78	22.78	22.78	24.0	0.0	
100	QPSK	1	137	22.76	22.76	22.76	24.0	0.0	
100	QPSK	1	271	22.78	22.78	22.78	24.0	0.0	
100	QPSK	135	0	21.71	21.71	21.71	24.0	0.0	
100	QPSK	135	86	22.14	22.14	22.14	24.0	0.0	
100	QPSK	135	138	21.79	21.79	21.79	24.0	0.0	
100	QPSK	270	0	21.02	21.02	21.02	23.5	1.0	
100	QPSK	270	1	21.74	21.74	21.74	23.5	1.0	
100	8QAM	1	1	20.26	20.26	20.26	21.5	2.5	
100	8QAM	1	1	18.21	18.21	18.21	19.5	4.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63300	63302	63308	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63298	63302	63400	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83200	83204	83204	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	8288	8291	8289	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	8291	8291	8291	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	53138	53132	53132	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	43100	43100	43100	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	33284	33284	33284	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23209	23209	23209	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13248	13248	13248	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	10281	10281	10281	Turn-up time (min)	MPR (dB)	

Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	22.84	22.80	22.80	24.0	0.0	
100	PI2-BPSK	1	137	22.89	22.82	22.82	24.0	0.0	
100	PI2-BPSK	1	271	22.28	22.21	22.21	24.0	0.0	
100	PI2-BPSK	135	0	22.22	22.11	22.14	23.5	0.5	
100	PI2-BPSK	135	86	22.69	22.75	22.75	24.0	0.0	
100	PI2-BPSK	135	138	22.23	22.22	21.54	23.5	0.5	
100	PI2-BPSK	270	0	22.18	22.13	21.58	24.0	0.0	
100	QPSK	1	1	23.11	23.05	23.11	24.0	0.0	
100	QPSK	1	137	22.86	22.78	22.82	24.0	0.0	
100	QPSK	1	271	22.75	22.77	22.45	24.0	0.0	
100	QPSK	135	0	21.29	21.68	21.53	24.0	0.0	
100	QPSK	135	86	22.21	22.06	22.06	24.0	0.0	
100	QPSK	135	138	21.88	21.85	21.38	24.0	0.0	
100	QPSK	270	0	21.08	21.02	21.07	23.0	1.0	
100	QPSK	270	1	21.59	21.04	21.15	23.0	1.0	
100	8QAM	1	1	20.47	20.39	20.18	21.5	2.5	
100	8QAM	1	1	18.47	18.30	18.25	19.5	4.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63300	63302	63308	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83200	83204	83204	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	8288	8291	8286	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	8291	8291	8291	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	43100	43100	43100	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	33284	33284	33284	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23209	23209	23209	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13248	13248	13248	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	10281	10281	10281	Turn-up time (min)	MPR (dB)	

Part27Q_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	23.18	23.18	23.18	24.0	0.0	
100	PI2-BPSK	1	137	23.15	23.15	23.15	24.0	0.0	
100	PI2-BPSK	1	271	23.25	23.25	23.25	24.0	0.0	
100	PI2-BPSK	135	0	22.80	22.80	22.80	23.5	0.5	
100	PI2-BPSK	135	86	23.07	23.07	23.07	24.0	0.0	
100	PI2-BPSK	135	138	22.85	22.85	22.85	23.5	0.5	
100	PI2-BPSK	270	0	22.82	22.82	22.82	24.0	0.0	
100	QPSK	1	1	23.25	23.25	23.25	24.0	0.0	
100	QPSK	1	137	23.24	23.24	23.24	24.0	0.0	
100	QPSK	1	271	23.41	23.41	23.41	24.0	0.0	
100	QPSK	135	0	22.12	22.12	22.12	24.0	0.0	
100	QPSK	135	86	23.02	23.02	23.02	24.0	0.0	
100	QPSK	135	138	22.10	22.10	22.10	23.5	1.0	
100	QPSK	270	0	22.06	22.06	22.06	23.5	1.0	
100	8QAM	1	1	21.25	21.25	21.25	21.5	2.5	
100	8QAM	1	1	20.73	20.73	20.73	21.5	2.5	
100	8QAM	1	1	18.60	18.60	18.60	19.5	4.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63300	63302	63308	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83200	83204	83204	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	8288	8291	8287	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	8291	8291	8291	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	43100	43100	43100	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	33284	33284	33284	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23209	23209	23209	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13248	13248	13248	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	10281	10281	10281	Turn-up time (min)	MPR (dB)	

Part27Q_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	23.31	23.18	23.18	24.0	0.0	
100	PI2-BPSK	1	137	23.34	23.08	23.08	24.0	0.0	
100	PI2-BPSK	1	271	23.84	23.80	23.80	24.0	0.0	
100	PI2-BPSK	135	0	22.76	22.83	22.84	23.5	0.5	
100	PI2-BPSK	135	86	23.17	23.04	23.04	24.0	0.0	
100	PI2-BPSK	135	138	22.85	22.42	22.43	23.5	0.5	
100	PI2-BPSK	270	0	22.88	22.53	22.53	24.0	0.0	
100	QPSK	1	1	23.43	23.38	23.43	24.0	0.0	
100	QPSK	1	137	23.30	23.18	23.18	24.0	0.0	
100	QPSK	1	271	23.12	23.05	23.04	24.0	0.0	
100	QPSK	135	0	22.24	22.89	22.89	24.0	0.0	
100	QPSK	135	86	23.12	23.06	23.06	24.0	0.0	
100	QPSK	135	138	22.82	21.88	21.87	23.0	1.0	
100	QPSK	270	0	22.01	22.01	21.87	23.0	1.0	
100	8QAM	1	1	20.98	20.77	20.36	21.5	2.5	
100	8QAM	1	1	18.92	18.74	18.33	19.5	4.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63300	63302	63308	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83200	83204	83204	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	8288	8291	8285	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	8291	8291	8291	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	43100	43100	43100	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	33284	33284	33284	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23209	23209	23209	Turn-up time (min)	MPR (dB)	
Channel									



Part27Q_n77_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	21.33	21.33	21.33	22.0	0.0	
100	PI2-BPSK	1	1	21.33	21.33	21.33	22.0	0.0	
100	PI2-BPSK	1	211	21.35	21.35	21.35	22.0	0.0	
100	PI2-BPSK	135	0	20.71	20.71	20.71	21.5	0.5	
100	PI2-BPSK	135	86	21.24	21.24	21.24	22.0	0.0	
100	PI2-BPSK	135	138	20.82	20.82	20.82	21.5	0.5	
100	PI2-BPSK	219	0	20.82	20.82	20.82	22.0	0.0	
100	QPSK	1	1	21.36	21.36	21.36	22.0	0.0	
100	QPSK	1	137	20.46	20.46	20.46	22.0	0.0	
100	QPSK	1	211	20.46	20.46	20.46	22.0	0.0	
100	QPSK	135	0	20.28	20.28	20.28	22.0	0.0	
100	QPSK	135	86	21.05	21.05	21.05	22.0	0.0	
100	QPSK	135	138	19.46	19.46	19.46	21.0	1.0	
100	QPSK	219	0	20.00	20.00	20.00	21.5	1.0	
100	QPSK	1	1	21.42	21.42	21.42	22.0	0.0	
100	8QAM	1	1	18.94	18.94	18.94	19.5	2.5	
100	8QAM	1	1	18.93	18.93	18.93	17.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.30	21.30	21.30	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.30	21.30	21.30	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.30	21.30	21.30	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.27	21.27	21.27	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.25	21.25	21.25	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.25	21.25	21.25	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.24	21.24	21.24	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.20	21.20	21.20	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.24	21.24	21.24	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.27	21.27	21.27	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.28	21.28	21.28	22.0	0.0	

Part27Q_n77_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	21.32	21.32	21.32	22.0	0.0	
100	PI2-BPSK	1	137	21.21	21.21	21.21	22.0	0.0	
100	PI2-BPSK	1	211	21.23	21.23	21.23	22.0	0.0	
100	PI2-BPSK	135	0	20.58	20.58	20.58	21.5	0.5	
100	PI2-BPSK	135	86	21.20	21.20	21.20	22.0	0.0	
100	PI2-BPSK	135	138	20.87	20.87	20.87	21.5	0.5	
100	PI2-BPSK	219	0	20.81	20.81	20.81	22.0	0.0	
100	QPSK	1	1	21.35	21.35	21.35	22.0	0.0	
100	QPSK	1	137	21.14	21.14	21.14	22.0	0.0	
100	QPSK	1	211	21.16	21.16	21.16	22.0	0.0	
100	QPSK	135	0	19.97	19.97	19.97	22.0	0.0	
100	QPSK	135	86	21.05	21.05	21.05	22.0	0.0	
100	QPSK	135	138	19.87	19.87	19.87	21.0	1.0	
100	QPSK	219	0	19.95	19.95	19.95	21.5	1.0	
100	8QAM	1	1	18.94	18.94	18.94	19.5	2.5	
100	8QAM	1	1	17.26	17.26	17.26	17.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.27	21.27	21.27	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.28	21.28	21.28	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.28	21.28	21.28	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.25	21.25	21.25	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.25	21.25	21.25	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.25	21.25	21.25	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.20	21.20	21.20	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.21	21.21	21.21	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.25	21.25	21.25	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.25	21.25	21.25	22.0	0.0	

Part27Q_n77_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	21.14	21.14	21.14	22.0	0.0	
100	PI2-BPSK	1	137	21.02	21.02	21.02	22.0	0.0	
100	PI2-BPSK	1	211	20.94	20.94	20.94	22.0	0.0	
100	PI2-BPSK	135	0	20.41	20.41	20.41	22.0	0.0	
100	PI2-BPSK	135	86	21.06	21.06	21.06	22.0	0.0	
100	PI2-BPSK	135	138	20.14	20.14	20.14	22.0	0.0	
100	PI2-BPSK	219	0	20.20	20.20	20.20	22.0	0.0	
100	QPSK	1	1	21.22	21.22	21.22	22.0	0.0	
100	QPSK	1	137	20.84	20.84	20.84	22.0	0.0	
100	QPSK	1	211	21.05	21.05	21.05	22.0	0.0	
100	QPSK	135	0	21.80	21.80	21.80	22.0	0.0	
100	QPSK	135	86	21.92	21.92	21.92	22.0	0.0	
100	QPSK	135	138	20.75	20.75	20.75	22.0	0.0	
100	QPSK	219	0	20.81	20.81	20.81	22.0	0.0	
100	8QAM	1	1	19.44	19.44	19.44	20.5	1.5	
100	8QAM	1	1	17.76	17.76	17.76	18.5	3.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.21	21.21	21.21	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.21	21.21	21.21	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.20	21.20	21.20	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.13	21.13	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.13	21.13	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.13	21.13	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.12	21.12	21.12	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.15	21.15	21.15	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.13	21.13	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.19	21.19	21.19	22.0	0.0	

Part27Q_n77_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	20.83	20.78	20.74	22.0	0.0	
100	PI2-BPSK	1	137	20.51	20.44	20.24	22.0	0.0	
100	PI2-BPSK	1	211	20.42	20.38	20.13	22.0	0.0	
100	PI2-BPSK	135	0	20.31	20.27	20.20	22.0	0.0	
100	PI2-BPSK	135	86	20.44	20.41	20.11	22.0	0.0	
100	PI2-BPSK	135	138	20.28	20.28	20.20	22.0	0.0	
100	PI2-BPSK	219	0	20.43	20.38	20.11	22.0	0.0	
100	QPSK	1	1	21.05	21.04	20.80	22.0	0.0	
100	QPSK	1	137	20.58	20.51	20.40	22.0	0.0	
100	QPSK	1	211	20.48	20.45	20.13	22.0	0.0	
100	QPSK	135	0	20.17	20.27	19.80	22.0	0.0	
100	QPSK	135	86	20.46	20.50	20.14	22.0	0.0	
100	QPSK	135	138	20.14	20.28	19.84	22.0	0.0	
100	QPSK	219	0	20.22	20.27	20.04	22.0	0.0	
100	8QAM	1	1	18.41	18.45	18.11	19.0	3.0	
100	8QAM	1	1	18.48	18.45	18.15	19.5	1.5	
100	8QAM	1	1	17.18	17.27	16.85	18.5	3.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.71	20.74	20.56	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.78	20.88	20.34	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.74	20.84	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.73	20.80	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.73	20.80	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.72	20.83	20.41	22.0	0.0	
Channel									
Frequency									



Part27Q_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	25.18	25.18	25.18	25.0	0.0	
100	PI2-BPSK	1	137	25.13	25.13	25.13	25.0	0.0	
100	PI2-BPSK	1	271	25.12	25.12	25.12	25.0	0.0	
100	PI2-BPSK	135	0	24.70	24.70	24.70	25.0	0.0	
100	PI2-BPSK	135	66	25.11	25.11	25.11	25.0	0.0	
100	PI2-BPSK	135	138	24.74	24.74	24.74	25.0	0.0	
100	PI2-BPSK	270	0	24.77	24.77	24.77	25.0	0.0	
100	QPSK	1	1	25.21	25.21	25.21	25.0	0.0	
100	QPSK	1	137	24.85	24.85	24.85	25.0	0.0	
100	QPSK	1	271	25.21	25.21	25.21	25.0	0.0	
100	QPSK	135	0	24.69	24.69	24.69	25.0	0.0	
100	QPSK	135	66	25.07	25.07	25.07	25.0	0.0	
100	QPSK	135	138	24.55	24.55	24.55	25.0	0.0	
100	QPSK	270	0	24.61	24.61	24.61	25.0	0.0	
100	QPSK	270	1	25.05	25.05	25.05	25.0	0.0	
100	8QAM	1	1	24.93	24.93	24.93	24.0	2.5	
100	8QAM	1	1	24.99	24.99	24.99	24.0	2.5	
100	8QAM	1	1	24.99	24.99	24.99	22.0	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.25	25.25	25.25	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.10	25.10	25.10	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.20	25.20	25.20	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.17	25.17	25.17	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.11	25.11	25.11	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.20	25.20	25.20	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.20	25.20	25.20	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.10	25.10	25.10	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.10	25.10	25.10	25.0	0.0	

Part27Q_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	25.13	25.13	25.13	25.0	0.0	
100	PI2-BPSK	1	137	25.30	25.30	25.30	25.0	0.0	
100	PI2-BPSK	1	271	25.17	25.17	25.17	25.0	0.0	
100	PI2-BPSK	135	0	24.64	24.64	24.64	25.0	0.0	
100	PI2-BPSK	135	66	25.12	25.12	25.12	25.0	0.0	
100	PI2-BPSK	135	138	24.82	24.82	24.82	25.0	0.0	
100	PI2-BPSK	270	0	24.82	24.82	24.82	25.0	0.0	
100	QPSK	1	1	25.33	25.33	25.33	25.0	0.0	
100	QPSK	1	137	25.27	25.27	25.27	25.0	0.0	
100	QPSK	1	271	25.33	25.33	25.33	25.0	0.0	
100	QPSK	135	0	24.69	24.69	24.69	25.0	0.0	
100	QPSK	135	66	25.30	25.30	25.30	25.0	0.0	
100	QPSK	135	138	24.12	24.12	24.12	25.0	0.0	
100	QPSK	270	0	24.33	24.33	24.33	25.0	0.0	
100	8QAM	1	1	24.27	24.27	24.27	25.0	0.0	
100	8QAM	1	1	24.75	24.75	24.75	24.0	2.5	
100	8QAM	1	1	24.75	24.75	24.75	22.0	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.30	25.30	25.30	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.20	25.20	25.20	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.29	25.29	25.29	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.21	25.21	25.21	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.25	25.25	25.25	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.29	25.29	25.29	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.29	25.29	25.29	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.27	25.27	25.27	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.32	25.32	25.32	25.0	0.0	

Part27Q_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	25.83	25.83	25.83	25.0	0.0	
100	PI2-BPSK	1	137	25.82	25.82	25.82	25.0	0.0	
100	PI2-BPSK	1	271	25.88	25.88	25.88	25.0	0.0	
100	PI2-BPSK	135	0	25.09	25.09	25.09	25.0	0.0	
100	PI2-BPSK	135	66	25.74	25.74	25.74	25.0	0.0	
100	PI2-BPSK	135	138	25.23	25.23	25.23	25.0	0.0	
100	PI2-BPSK	270	0	25.23	25.23	25.23	25.0	0.0	
100	QPSK	1	1	25.85	25.85	25.85	25.0	0.0	
100	QPSK	1	137	25.42	25.42	25.42	25.0	0.0	
100	QPSK	1	271	25.85	25.85	25.85	25.0	0.0	
100	QPSK	135	0	24.15	24.15	24.15	25.0	0.0	
100	QPSK	135	66	25.85	25.85	25.85	25.0	0.0	
100	QPSK	135	138	25.05	25.05	25.05	25.0	0.0	
100	QPSK	270	0	24.32	24.32	24.32	25.0	0.0	
100	8QAM	1	1	25.71	25.71	25.71	25.0	0.0	
100	8QAM	1	1	24.42	24.42	24.42	24.0	2.5	
100	8QAM	1	1	24.42	24.42	24.42	22.0	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.86	25.86	25.86	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.84	25.84	25.84	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.84	25.84	25.84	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.81	25.81	25.81	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.84	25.84	25.84	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.87	25.87	25.87	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.86	25.86	25.86	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.87	25.87	25.87	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.92	25.92	25.92	25.0	0.0	

Part27Q_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	25.78	25.78	25.78	25.0	0.0	
100	PI2-BPSK	1	138	25.78	25.78	25.78	25.0	0.0	
100	PI2-BPSK	1	271	25.79	25.79	25.79	25.0	0.0	
100	PI2-BPSK	135	0	25.21	25.21	25.21	25.0	0.0	
100	PI2-BPSK	135	66	25.83	25.83	25.83	25.0	0.0	
100	PI2-BPSK	135	138	25.15	25.15	25.15	25.0	0.0	
100	PI2-BPSK	270	0	25.17	25.17	25.17	25.0	0.0	
100	QPSK	1	1	25.82	25.82	25.82	25.0	0.0	
100	QPSK	1	137	25.82	25.82	25.82	25.0	0.0	
100	QPSK	1	271	25.82	25.82	25.82	25.0	0.0	
100	QPSK	135	0	24.71	24.71	24.71	25.0	0.0	
100	QPSK	135	66	25.78	25.78	25.78	25.0	0.0	
100	QPSK	135	138	24.68	24.68	24.68	25.0	0.0	
100	QPSK	270	0	24.62	24.62	24.62	25.0	0.0	
100	8QAM	1	1	24.90	24.90	24.90	25.0	0.0	
100	8QAM	1	1	24.94	24.94	24.94	24.0	2.5	
100	8QAM	1	1	24.94	24.94	24.94	22.0	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.83	25.83	25.83	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.86	25.86	25.86	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.81	25.81	25.81	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.83	25.83	25.83	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.87	25.87	25.87	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.86	25.86	25.86	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.83	25.83	25.83	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1						



Part27Q_n78_Ant 21

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Turn-up time, MPR. Rows include various modulation types like PIG BPSK, QPSK, and BQAM across different RB sizes and offsets.

Part27O_n78_Ant 21

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Turn-up time, MPR. Rows include various modulation types like PIG BPSK, QPSK, and BQAM across different RB sizes and offsets.

Part27Q_n78_Ant 23

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Turn-up time, MPR. Rows include various modulation types like PIG BPSK, QPSK, and BQAM across different RB sizes and offsets.

Part27O_n78_Ant 23

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Turn-up time, MPR. Rows include various modulation types like PIG BPSK, QPSK, and BQAM across different RB sizes and offsets.



Reduced Power Mode for DSI 2

n2_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (37200)	Power Media Ch. Freq. (37600)	Power High Ch. Freq. (38000)	Turn-up time (dBi)	MPR (dB)	
Channel									
20	PIQ BPSK	1	1	18.41	18.50	18.53			
20	PIQ BPSK	1	53	18.47	18.47	18.48	19.5	0.0	
20	PIQ BPSK	1	104	18.47	18.50	18.48			
20	PIQ BPSK	50	0	18.42	18.48	18.49	19.5	0.0	
20	PIQ BPSK	50	28	18.46	18.50	18.48	19.5	0.0	
20	PIQ BPSK	50	56	18.52	18.54	18.54	19.5	0.0	
20	PIQ BPSK	100	0	18.49	18.50	18.48	19.5	0.0	
20	QPSK	1	1	18.50	18.50	18.50			
20	QPSK	1	53	18.42	18.55	18.50	19.5	0.0	
20	QPSK	1	104	18.47	18.47	18.47			
20	QPSK	50	0	18.41	18.52	18.51	19.5	0.0	
20	QPSK	50	28	18.42	18.50	18.54	19.5	0.0	
20	QPSK	50	56	18.51	18.52	18.53	19.5	0.0	
20	QPSK	100	0	18.45	18.51	18.48	19.5	0.0	
20	16QAM	1	1	18.50	18.51	18.48	19.5	0.0	
20	16QAM	1	1	18.50	18.44	18.34	19.5	0.0	
Channel									
15	QPSK	1	1	18.40	18.51	18.50	19.5	0.0	
Channel									
15	QPSK	1	1	18.45	18.50	18.49	19.5	0.0	
Channel									
5	QPSK	1	1	18.48	18.58	18.51	19.5	0.0	

n2_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (37200)	Power Media Ch. Freq. (37600)	Power High Ch. Freq. (38000)	Turn-up time (dBi)	MPR (dB)	
Channel									
20	PIQ BPSK	1	1	17.47	17.46	17.50			
20	PIQ BPSK	1	53	17.38	17.43	17.47	18.5	0.0	
20	PIQ BPSK	1	104	17.42	17.49	17.49			
20	PIQ BPSK	50	0	17.33	17.31	17.37	18.5	0.0	
20	PIQ BPSK	50	28	17.38	17.41	17.42	18.5	0.0	
20	PIQ BPSK	50	56	17.54	17.38	17.38	18.5	0.0	
20	PIQ BPSK	100	0	17.38	17.48	17.43	18.5	0.0	
20	QPSK	1	1	17.50	17.50	17.50			
20	QPSK	1	53	17.38	17.50	17.50	18.5	0.0	
20	QPSK	1	104	17.44	17.50	17.49			
20	QPSK	50	0	17.33	17.41	17.41	18.5	0.0	
20	QPSK	50	28	17.44	17.50	17.41	18.5	0.0	
20	QPSK	50	56	17.53	17.43	17.41	18.5	0.0	
20	QPSK	100	0	17.39	17.51	17.48	18.5	0.0	
20	16QAM	1	1	17.50	17.48	17.48	18.5	0.0	
20	16QAM	1	1	17.45	17.41	17.48	18.5	0.0	
20	256QAM	1	1	17.33	17.48	17.44	18.5	0.0	
Channel									
15	QPSK	1	1	17.40	17.51	17.49	18.5	0.0	
Channel									
15	QPSK	1	1	17.45	17.50	17.49	18.5	0.0	
Channel									
5	QPSK	1	1	17.33	17.49	17.44	18.5	0.0	

n5_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (18400)	Power Media Ch. Freq. (18720)	Power High Ch. Freq. (19040)	Turn-up time (dBi)	MPR (dB)	
Channel									
20	PIQ BPSK	1	1	21.20	21.23	21.14			
20	PIQ BPSK	1	53	21.17	21.13	21.14	22.5	0.0	
20	PIQ BPSK	1	104	21.14	21.20	21.13			
20	PIQ BPSK	50	0	21.08	21.10	21.07	22.5	0.0	
20	PIQ BPSK	50	28	21.12	21.18	21.08	22.5	0.0	
20	PIQ BPSK	50	56	21.10	21.10	21.05	22.5	0.0	
20	PIQ BPSK	100	0	21.09	21.09	21.11	22.5	0.0	
20	QPSK	1	1	21.05	21.04	21.01			
20	QPSK	1	53	21.22	21.22	21.18	22.5	0.0	
20	QPSK	1	104	21.16	21.20	21.07			
20	QPSK	50	0	21.10	21.10	21.08	22.5	0.0	
20	QPSK	50	28	21.13	21.21	21.10	22.5	0.0	
20	QPSK	50	56	21.17	21.17	21.10	22.5	0.0	
20	QPSK	100	0	21.12	21.13	21.14	22.5	0.0	
20	16QAM	1	1	21.14	21.18	21.11	22.5	0.0	
20	16QAM	1	1	21.14	21.13	21.10	22.5	0.0	
20	256QAM	1	1	21.06	21.24	21.20	20.5	2.0	
Channel									
15	QPSK	1	1	21.13	21.23	21.13	22.5	0.0	
Channel									
15	QPSK	1	1	21.18	21.18	21.14	22.5	0.0	
Channel									
5	QPSK	1	1	21.17	21.20	21.13	22.5	0.0	

n5_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (18400)	Power Media Ch. Freq. (18720)	Power High Ch. Freq. (19040)	Turn-up time (dBi)	MPR (dB)	
Channel									
20	PIQ BPSK	1	1	23.43	23.40	23.48			
20	PIQ BPSK	1	53	23.42	23.48	23.37	25.0	0.0	
20	PIQ BPSK	1	104	23.35	23.51	23.38			
20	PIQ BPSK	50	0	23.38	23.47	23.38	24.5	0.0	
20	PIQ BPSK	50	28	23.31	23.50	23.32	25.0	0.0	
20	PIQ BPSK	50	56	23.41	23.37	23.30	24.5	0.0	
20	PIQ BPSK	100	0	23.35	23.45	23.38	24.5	0.0	
20	QPSK	1	1	23.32	23.51	23.48			
20	QPSK	1	53	23.40	23.40	23.30	25.0	0.0	
20	QPSK	1	104	23.38	23.40	23.31			
20	QPSK	50	0	23.28	23.35	23.29	24.0	1.0	
20	QPSK	50	28	23.30	23.50	23.31	25.0	0.0	
20	QPSK	50	56	23.38	23.33	23.25	24.0	1.0	
20	QPSK	100	0	23.34	23.50	23.25	24.0	1.0	
20	16QAM	1	1	23.38	23.40	23.30	24.0	1.0	
20	16QAM	1	1	23.02	23.10	23.03	22.5	2.5	
20	256QAM	1	1	23.04	23.10	23.08	20.5	4.5	
Channel									
15	QPSK	1	1	23.33	23.50	23.40	25.0	0.0	
Channel									
15	QPSK	1	1	23.38	23.40	23.34	25.0	0.0	
Channel									
5	QPSK	1	1	23.41	23.50	23.39	25.0	0.0	



n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
40	PFC-BPSK	1	1	19.42	19.51	19.43			
40	PFC-BPSK	1	108	19.37	19.48	19.47	21.0	0.0	
40	PFC-BPSK	1	214	19.36	19.44	19.40			
40	PFC-BPSK	108	0	19.25	19.44	19.33	21.0	0.0	
40	PFC-BPSK	108	54	19.34	19.46	19.40	21.0	0.0	
40	PFC-BPSK	108	108	19.35	19.42	19.37			
40	PFC-BPSK	216	0	19.24	19.41	19.38	21.0	0.0	
40	QPSK	1	1	19.38	19.50	19.33			
40	QPSK	1	108	19.46	19.52	19.48	21.0	0.0	
40	QPSK	1	214	19.44	19.50	19.48			
40	QPSK	108	0	19.35	19.50	19.45	21.0	0.0	
40	QPSK	108	54	19.38	19.51	19.45	21.0	0.0	
40	QPSK	108	108	19.39	19.48	19.47			
40	QPSK	216	0	19.29	19.50	19.44	21.0	0.0	
40	SSB-AM	1	1	19.41	19.52	19.42	21.0	0.0	
40	SSB-AM	1	1	19.45	19.49	19.42	21.0	0.0	
40	SSB-AM	1	1	19.09	19.07	17.69	20.0	1.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.44	19.52	19.47	21.0	0.0	
Channel									
Frequency (MHz)									
24	QPSK	1	1	19.41	19.52	19.52	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.47	19.49	19.52	21.0	0.0	
Channel									
Frequency (MHz)									
18	QPSK	1	1	19.37	19.51	19.47	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.49	19.59	19.52	21.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	19.32	19.52	19.51	21.0	0.0	

n7_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
40	PFC-BPSK	1	1	14.91	14.98	14.98			
40	PFC-BPSK	1	108	14.85	14.90	14.82	18.0	0.0	
40	PFC-BPSK	1	214	14.79	14.90	14.88			
40	PFC-BPSK	108	0	14.77	14.92	14.82	18.0	0.0	
40	PFC-BPSK	108	54	14.84	14.92	14.88	18.0	0.0	
40	PFC-BPSK	108	108	14.83	14.90	14.85			
40	PFC-BPSK	216	0	14.79	14.90	14.87	18.0	0.0	
40	QPSK	1	1	14.98	15.05	15.01			
40	QPSK	1	108	14.87	14.98	14.93	18.0	0.0	
40	QPSK	1	214	14.86	14.95	14.90			
40	QPSK	108	0	14.86	15.00	14.93	18.0	0.0	
40	QPSK	108	54	14.91	15.02	14.97	18.0	0.0	
40	QPSK	108	108	14.84	14.97	14.90			
40	QPSK	216	0	14.85	14.98	14.88	18.0	0.0	
40	SSB-AM	1	1	14.90	14.99	14.97	18.0	0.0	
40	SSB-AM	1	1	14.95	14.95	14.95	18.0	0.0	
40	SSB-AM	1	1	14.89	15.01	14.89	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.93	14.94	14.93	18.0	0.0	
Channel									
Frequency (MHz)									
24	QPSK	1	1	14.87	15.01	14.90	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.92	14.98	14.90	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.92	15.01	14.88	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.86	14.99	14.95	18.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	14.91	15.00	14.88	18.0	0.0	

n7_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
40	PFC-BPSK	1	1	22.36	22.35	22.37			
40	PFC-BPSK	1	108	22.36	22.42	22.38	24.0	0.0	
40	PFC-BPSK	1	214	22.33	22.31	22.35			
40	PFC-BPSK	108	0	21.85	21.74	21.89	23.0	0.0	
40	PFC-BPSK	108	54	21.74	22.27	22.06	24.0	0.0	
40	PFC-BPSK	108	108	21.80	21.70	21.87			
40	PFC-BPSK	216	0	21.81	21.71	21.84	23.0	0.0	
40	QPSK	1	1	22.41	22.46	22.46			
40	QPSK	1	108	22.42	22.45	22.45	24.0	0.0	
40	QPSK	1	214	22.37	22.42	22.41			
40	QPSK	108	0	21.37	21.25	21.34	23.0	1.0	
40	QPSK	108	54	22.11	22.09	22.10	24.0	0.0	
40	QPSK	108	108	21.84	21.25	21.87	23.0	1.0	
40	QPSK	216	0	21.30	21.23	21.39	23.0	1.0	
40	SSB-AM	1	1	21.32	21.24	21.40	23.0	1.0	
40	SSB-AM	1	1	21.02	20.93	20.90	23.0	2.0	
40	SSB-AM	1	1	17.81	18.00	17.88	19.0	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.33	22.42	22.42	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.33	22.41	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.32	22.43	22.38	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.39	22.37	22.34	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.35	22.35	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	22.38	22.38	22.41	24.0	0.0	

n26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
20	PFC-BPSK	1	1	21.30	21.47	21.41			
20	PFC-BPSK	1	54	21.30	21.46	21.28	22.5	0.0	
20	PFC-BPSK	1	104	21.23	21.38	21.27			
20	PFC-BPSK	50	0	21.24	21.43	21.24	22.0	0.0	
20	PFC-BPSK	50	26	21.25	21.46	21.32	22.5	0.0	
20	PFC-BPSK	50	48	21.23	21.35	21.32	22.5	0.0	
20	PFC-BPSK	100	0	21.20	21.36	21.31	22.5	0.0	
20	QPSK	1	1	21.33	21.30	21.41			
20	QPSK	1	54	21.37	21.47	21.38	22.5	0.0	
20	QPSK	1	104	21.37	21.46	21.37			
20	QPSK	50	0	21.25	21.44	21.25	22.5	0.0	
20	QPSK	50	26	21.30	21.47	21.35	22.5	0.0	
20	QPSK	50	48	21.32	21.40	21.33	22.5	0.0	
20	QPSK	100	0	21.25	21.44	21.32	22.5	0.0	
20	SSB-AM	1	1	21.28	21.45	21.24	22.0	0.0	
20	SSB-AM	1	1	21.48	21.55	21.49	22.0	0.0	
20	SSB-AM	1	1	19.44	19.53	19.51	20.0	2.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.30	21.42	21.42	22.5	0.0	
Channel									
Frequency (MHz)									
18	QPSK	1	1	21.30	21.43	21.44	22.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	21.38	21.47	21.40	22.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
20	Frequency (MHz)			23.15	23.15	23.15			
20	PI2 BPSK	1	1	23.10	23.15	23.21			
20	PI2 BPSK	1	33	23.63	23.68	23.74	25.0	0.0	
20	PI2 BPSK	1	104	23.95	23.94	23.93			
20	PI2 BPSK	50	0	23.07	23.15	23.08	24.5	0.0	
20	PI2 BPSK	50	28	23.86	23.89	23.92	25.0	0.0	
20	PI2 BPSK	50	56	23.24	23.25	23.25	24.5	0.0	
20	PI2 BPSK	100	0	23.09	23.20	23.32	24.5	0.0	
20	QPSK	1	1	23.15	23.15	23.15			
20	QPSK	1	33	23.66	23.71	23.62	25.0	0.0	
20	QPSK	1	104	23.96	23.98	23.97			
20	QPSK	50	0	23.05	23.07	23.04	24.0	1.0	
20	QPSK	50	28	23.89	23.89	23.89	25.0	0.0	
20	QPSK	50	56	22.09	22.72	22.86	24.0	1.0	
20	QPSK	100	0	22.58	22.62	22.59	24.0	1.0	
20	SSB-AM	1	1	23.15	23.15	23.15	24.0	1.0	
20	SSB-AM	1	1	23.25	23.40	23.50	23.5	2.5	
20	SSB-AM	1	1	19.24	19.32	19.26	20.5	4.5	
Channel									
15	QPSK	1	1	18.15	18.15	18.15	19.5	0.0	
Frequency (MHz)									
15	QPSK	1	1	18.15	18.15	18.15	19.5	0.0	
Channel									
15	QPSK	1	1	18.15	18.15	18.15	19.5	0.0	
Frequency (MHz)									
15	QPSK	1	1	18.15	18.15	18.15	19.5	0.0	
Channel									
5	QPSK	1	1	23.11	23.12	23.11	23.0	0.0	

n66_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
40	Frequency (MHz)			19.81	19.84	19.84			
40	PI2 BPSK	1	1	19.81	19.84	19.87	21.0	0.0	
40	PI2 BPSK	1	244	19.86	19.86	19.86			
40	PI2 BPSK	100	0	19.78	19.77	19.84	21.0	0.0	
40	PI2 BPSK	100	26	19.73	19.78	19.77	21.0	0.0	
40	PI2 BPSK	100	108	19.86	19.75	19.77	21.0	0.0	
40	PI2 BPSK	216	0	19.87	19.83	19.72	21.0	0.0	
40	QPSK	1	1	19.81	19.81	19.81			
40	QPSK	1	108	19.84	19.86	19.88	21.0	0.0	
40	QPSK	1	214	19.86	19.86	19.86			
40	QPSK	100	0	19.76	19.85	19.85	21.0	0.0	
40	QPSK	100	26	19.72	19.74	19.76	21.0	0.0	
40	QPSK	100	108	19.72	19.80	19.80	21.0	0.0	
40	QPSK	216	0	19.83	19.80	19.81	21.0	0.0	
40	SSB-AM	1	1	19.81	19.84	19.84	21.0	0.0	
40	SSB-AM	1	1	19.82	19.85	19.81	21.0	0.0	
40	SSB-AM	1	1	18.91	19.84	19.82	20.5	0.5	
Channel									
35	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Frequency (MHz)									
35	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Channel									
30	QPSK	1	1	19.83	19.83	19.83	21.0	0.0	
Frequency (MHz)									
30	QPSK	1	1	19.83	19.83	19.83	21.0	0.0	
Channel									
25	QPSK	1	1	19.82	19.86	19.82	21.0	0.0	
Frequency (MHz)									
25	QPSK	1	1	19.82	19.86	19.82	21.0	0.0	
Channel									
20	QPSK	1	1	19.81	19.86	19.86	21.0	0.0	
Frequency (MHz)									
20	QPSK	1	1	19.81	19.86	19.86	21.0	0.0	
Channel									
15	QPSK	1	1	19.86	19.86	19.86	21.0	0.0	
Frequency (MHz)									
15	QPSK	1	1	19.86	19.86	19.86	21.0	0.0	
Channel									
10	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Frequency (MHz)									
10	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Channel									
5	QPSK	1	1	19.83	19.83	19.83	21.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
40	Frequency (MHz)			17.36	17.46	17.41			
40	PI2 BPSK	1	108	17.36	17.42	17.46	18.5	0.0	
40	PI2 BPSK	1	244	17.32	17.31	17.40			
40	PI2 BPSK	100	0	17.18	17.33	17.37	18.5	0.0	
40	PI2 BPSK	100	26	17.33	17.41	17.37	18.5	0.0	
40	PI2 BPSK	100	108	17.35	17.41	17.36	18.5	0.0	
40	PI2 BPSK	216	0	17.35	17.38	17.38	18.5	0.0	
40	QPSK	1	1	17.35	17.35	17.35			
40	QPSK	1	108	17.37	17.47	17.49	18.5	0.0	
40	QPSK	1	214	17.38	17.38	17.38			
40	QPSK	100	0	17.28	17.45	17.40	18.5	0.0	
40	QPSK	100	26	17.36	17.40	17.41	18.5	0.0	
40	QPSK	100	108	17.28	17.40	17.40	18.5	0.0	
40	QPSK	216	0	17.34	17.41	17.38	18.5	0.0	
40	SSB-AM	1	1	17.35	17.35	17.41	18.5	0.0	
40	SSB-AM	1	1	17.31	17.40	17.39	18.5	0.0	
40	SSB-AM	1	1	17.33	17.37	17.41	18.5	0.0	
Channel									
35	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Frequency (MHz)									
35	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Channel									
30	QPSK	1	1	17.23	17.45	17.46	18.5	0.0	
Frequency (MHz)									
30	QPSK	1	1	17.23	17.45	17.46	18.5	0.0	
Channel									
25	QPSK	1	1	17.31	17.37	17.37	18.5	0.0	
Frequency (MHz)									
25	QPSK	1	1	17.31	17.37	17.37	18.5	0.0	
Channel									
20	QPSK	1	1	17.31	17.40	17.46	18.5	0.0	
Frequency (MHz)									
20	QPSK	1	1	17.31	17.40	17.46	18.5	0.0	
Channel									
15	QPSK	1	1	17.33	17.45	17.45	18.5	0.0	
Frequency (MHz)									
15	QPSK	1	1	17.33	17.45	17.45	18.5	0.0	
Channel									
10	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Frequency (MHz)									
10	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Channel									
5	QPSK	1	1	17.25	17.41	17.42	18.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
40	Frequency (MHz)			23.11	23.14	23.06			
40	PI2 BPSK	1	108	23.12	23.17	23.07	24.5	0.0	
40	PI2 BPSK	1	244	23.10	23.20	23.15			
40	PI2 BPSK	100	0	23.20	22.71	22.82	24.0	0.0	
40	PI2 BPSK	100	26	23.08	23.16	23.06	24.5	0.0	
40	PI2 BPSK	100	108	23.05	23.10	23.05	24.5	0.0	
40	PI2 BPSK	216	0	22.69	22.75	22.68	24.5	0.0	
40	QPSK	1	1	23.10	23.11	23.10			
40	QPSK	1	108	23.20	23.24	23.23	24.5	0.0	
40	QPSK	1	214	23.14	23.24	23.18			
40	QPSK	100	0	23.14	22.78	22.81	23.5	1.0	
40	QPSK	100	26	23.06	23.19	23.11	24.0	0.0	
40	QPSK	100	108	23.04	22.78	22.82	23.5	1.0	
40	QPSK	216	0	22.61	22.69	22.63	23.5	1.0	
40	SSB-AM	1	1	23.10	23.10	23.10	23.5	0.0	
40	SSB-AM	1	1	23.15	23.05	23.14	23.5	0.5	
40	SSB-AM	1	1	18.89	18.94	18.87	20.0	4.5	
Channel									
35	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Frequency (MHz)									
35	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Channel									
30	QPSK	1	1	17.23	17.45	17.46	18.5	0.0	
Frequency (MHz)									
30	QPSK	1	1	17.23	17.45	17.46	18.5	0.0	
Channel									
25	QPSK	1	1	17.31	17.39	17.38	18.5	0.0	
Frequency (MHz)									
25	QPSK	1	1	17.31	17.39	17.38	18.5	0.0	
Channel									
20	QPSK	1	1	17.31	17.40	17.46	18.5	0.0	
Frequency (MHz)									
20	QPSK	1	1	17.31	17.40	17.46	18.5	0.0	
Channel									
15	QPSK	1	1	17.33	17.45	17.45	18.5	0.0	
Frequency (MHz)									
15	QPSK	1	1	17.33	17.45	17.45	18.5	0.0	
Channel									
10	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Frequency (MHz)									
10	QPSK	1	1	17.23	17.45	17.63	17.0	0.0	
Channel									
5	QPSK	1	1						



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BW (MHz)	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)									
40	PI2 BPSK	1	1	20.80	20.90	20.89			
40	PI2 BPSK	1	83	20.87	20.96	20.86	22.0	0.0	
40	PI2 BPSK	1	104	20.90	20.94	20.84			
40	PI2 BPSK	50	0	20.83	20.97	20.85	22.0	0.0	
40	PI2 BPSK	50	28	20.89	20.99	20.82	22.0	0.0	
40	PI2 BPSK	50	56	20.84	21.01	20.90			
40	PI2 BPSK	100	0	20.83	20.90	20.88	22.0	0.0	
40	QPSK	1	1	20.85	21.05	20.95			
40	QPSK	1	83	20.84	20.91	20.82	22.0	0.0	
40	QPSK	1	104	20.84	20.99	20.88			
40	QPSK	50	0	20.80	21.00	20.84	22.0	0.0	
40	QPSK	50	28	20.86	21.01	20.87	22.0	0.0	
40	QPSK	50	56	20.81	20.95	20.82	22.0	0.0	
40	QPSK	100	0	20.80	20.93	20.93	22.0	0.0	
40	16QAM	1	1	20.82	20.95	20.85	22.0	0.0	
40	64QAM	1	1	20.85	20.87	20.85	22.0	0.0	
40	256QAM	1	1	18.71	18.71	18.69	20.0	2.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.74	23.84	23.73	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.80	20.86	20.79	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.83	20.92	20.80	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.77	20.92	20.77	22.0	0.0	

n38_Ant 13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	15.30	15.31	15.36			
40	PI2 BPSK	1	83	15.35	15.41	15.28	16.5	0.0	
40	PI2 BPSK	1	104	15.32	15.36	15.38			
40	PI2 BPSK	50	0	15.31	15.33	15.31	16.5	0.0	
40	PI2 BPSK	50	28	15.31	15.35	15.35	16.5	0.0	
40	PI2 BPSK	50	56	15.25	15.41	15.35			
40	PI2 BPSK	100	0	15.33	15.29	15.21	16.5	0.0	
40	QPSK	1	1	15.40	15.45	15.44			
40	QPSK	1	83	15.36	15.30	15.39	16.5	0.0	
40	QPSK	1	104	15.26	15.39	15.28			
40	QPSK	50	0	15.36	15.33	15.28	16.5	0.0	
40	QPSK	50	28	15.36	15.38	15.37	16.5	0.0	
40	QPSK	50	56	15.30	15.29	15.35	16.5	0.0	
40	QPSK	100	0	15.28	15.33	15.28	16.5	0.0	
40	16QAM	1	1	15.29	15.30	15.30	16.5	0.0	
40	64QAM	1	1	15.24	15.37	15.33	16.5	0.0	
40	256QAM	1	1	15.34	15.35	15.34	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.29	15.34	15.29	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.30	15.32	15.33	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.24	15.41	15.36	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.24	15.35	15.34	16.5	0.0	

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BW (MHz)	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)									
40	PI2 BPSK	1	1	23.24	23.33	23.26			
40	PI2 BPSK	1	83	23.24	23.33	23.31	24.5	0.0	
40	PI2 BPSK	1	104	23.28	23.24	23.24			
40	PI2 BPSK	50	0	22.72	22.83	22.78	24.0	0.5	
40	PI2 BPSK	50	28	23.31	23.27	23.23	24.5	0.0	
40	PI2 BPSK	50	56	22.82	22.74	22.75			
40	PI2 BPSK	100	0	22.78	22.80	22.72	24.0	0.5	
40	QPSK	1	1	23.41	23.43	23.38			
40	QPSK	1	83	23.35	23.28	23.24	24.5	0.0	
40	QPSK	1	104	23.36	23.28	23.24			
40	QPSK	50	0	22.25	22.20	22.25	23.5	1.0	
40	QPSK	50	28	23.35	23.40	23.37	24.5	0.0	
40	QPSK	50	56	22.29	22.34	22.25			
40	QPSK	100	0	22.22	22.28	22.21	23.5	1.0	
40	16QAM	1	1	22.30	22.28	22.21	23.5	1.0	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.5	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.29	23.31	23.27	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.25	23.28	23.31	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.29	23.24	23.28	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.23	23.30	23.32	24.5	0.0	



FCC_n41_Ant 11

BW (MHz)	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	20.95	21.06	20.99		
100	PI2 BPSK	1	137	20.92	21.06	21.00	22.0	0.0
100	PI2 BPSK	1	271	20.98	21.04	21.01		
100	PI2 BPSK	135	9	20.97	21.04	20.98	22.0	0.0
100	PI2 BPSK	135	69	21.00	21.08	20.90	22.0	0.0
100	PI2 BPSK	135	138	20.89	21.07	20.94	22.0	0.0
100	PI2 BPSK	270	0	20.94	20.96	21.00		
100	QPSK	1	1	21.03	21.09	21.11		
100	QPSK	1	137	20.89	21.06	20.98	22.0	0.0
100	QPSK	1	271	20.94	21.07	21.03		
100	QPSK	135	0	20.90	21.08	20.99	22.0	0.0
100	QPSK	135	69	20.92	21.10	21.00	22.0	0.0
100	QPSK	135	138	20.91	21.05	20.93	22.0	0.0
100	QPSK	270	0	20.90	21.03	20.97	22.0	0.0
100	16QAM	1	1	20.92	21.05	20.95	22.0	0.0
100	64QAM	1	1	20.92	20.98	20.90	22.0	0.0
100	256QAM	1	1	19.00	19.00	19.88	20.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.41	22.92.99	22.44.98	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.99	21.00	20.94	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.93	20.97	20.95	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.93	21.05	21.04	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.95	20.99	20.93	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.92	20.94	21.04	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.92	20.95	20.92	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.90	20.97	20.94	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.94	21.02	20.95	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.88	20.97	20.95	22.0	0.0

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BW (MHz)	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	15.43	15.51	15.50		
100	PI2 BPSK	1	137	15.47	15.48	15.44	16.5	0.0
100	PI2 BPSK	1	271	15.44	15.43	15.41		
100	PI2 BPSK	135	9	15.48	15.45	15.49	16.5	0.0
100	PI2 BPSK	135	69	15.46	15.46	15.45	16.5	0.0
100	PI2 BPSK	135	138	15.42	15.44	15.40	16.5	0.0
100	PI2 BPSK	270	0	15.45	15.53	15.28		
100	QPSK	1	1	15.35	15.39	15.34		
100	QPSK	1	137	15.43	15.51	15.39	16.5	0.0
100	QPSK	1	271	15.40	15.53	15.45		
100	QPSK	135	0	15.41	15.46	15.40	16.5	0.0
100	QPSK	135	69	15.37	15.53	15.47	16.5	0.0
100	QPSK	135	138	15.46	15.43	15.38	16.5	0.0
100	QPSK	270	0	15.43	15.49	15.44	16.5	0.0
100	16QAM	1	1	15.46	15.54	15.44	16.5	0.0
100	64QAM	1	1	15.43	15.52	15.43	16.5	0.0
100	256QAM	1	1	15.42	15.42	15.42	16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.44	15.44	15.41	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.40	15.44	15.48	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.43	15.48	15.42	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.43	15.43	15.44	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.44	15.43	15.39	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.49	15.54	15.47	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.49	15.43	15.39	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.43	15.52	15.40	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.46	15.47	15.43	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.51	15.48	15.48	16.5	0.0

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BW (MHz)	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	23.76	23.77	23.72		
100	PI2 BPSK	1	137	23.76	23.75	23.67	25.0	0.0
100	PI2 BPSK	1	271	23.78	23.71	23.69		
100	PI2 BPSK	135	9	23.20	23.23	23.24	24.5	0.5
100	PI2 BPSK	135	69	23.74	23.77	23.67	25.0	0.0
100	PI2 BPSK	135	138	23.28	23.23	23.19	24.5	0.5
100	PI2 BPSK	270	0	23.23	23.21	23.24		
100	QPSK	1	1	23.38	23.91	23.55		
100	QPSK	1	137	23.72	23.78	23.72	25.0	0.0
100	QPSK	1	271	23.72	23.83	23.73		
100	QPSK	135	0	22.69	22.75	22.71	24.0	1.0
100	QPSK	135	69	23.67	23.85	23.60	25.0	0.0
100	QPSK	135	138	22.74	22.70	22.70	24.0	1.0
100	QPSK	270	0	22.71	22.80	22.70	24.0	1.0
100	16QAM	1	1	22.70	22.74	22.74	24.0	1.0
100	64QAM	1	1	21.22	21.26	21.20	22.5	2.5
100	256QAM	1	1	19.28	19.25	19.25	20.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	23.71	23.67	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.69	23.80	23.75	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.71	23.71	23.75	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.66	23.76	23.74	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.65	23.72	23.69	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.70	23.73	23.67	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.71	23.69	23.67	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.67	23.70	23.67	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.67	23.76	23.67	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.71	23.74	23.69	25.0	0.0



Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	20.87	20.87	20.87	22.0	0.0	
100	PI2-BPSK	1	137	20.88	20.88	20.88	22.0	0.0	
100	PI2-BPSK	1	271	20.88	20.88	20.88	22.0	0.0	
100	PI2-BPSK	135	0	20.92	20.92	20.92	22.0	0.0	
100	PI2-BPSK	135	88	20.94	20.94	20.94	22.0	0.0	
100	PI2-BPSK	135	138	20.79	20.79	20.79	22.0	0.0	
100	PI2-BPSK	270	0	20.79	20.79	20.79	22.0	0.0	
100	QPSK	1	1	20.87	20.87	20.87	22.0	0.0	
100	QPSK	1	137	20.88	20.88	20.88	22.0	0.0	
100	QPSK	1	271	20.88	20.88	20.88	22.0	0.0	
100	QPSK	135	0	20.79	20.79	20.79	22.0	0.0	
100	QPSK	135	88	20.98	20.98	20.98	22.0	0.0	
100	QPSK	135	138	20.86	20.86	20.86	22.0	0.0	
100	QPSK	270	0	20.86	20.86	20.86	22.0	0.0	
100	QPSK	270	88	20.84	20.84	20.84	22.0	0.0	
100	8QAM	1	1	20.78	20.78	20.78	21.5	0.5	
100	8QAM	1	1	18.17	18.17	18.17	18.5	2.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.78	20.78	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.78	20.78	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.77	20.78	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.71	20.73	20.87	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.71	20.74	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.71	20.71	20.71	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.70	20.80	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.78	20.81	20.88	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.79	20.81	20.88	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.77	20.71	20.70	22.0	0.0	

Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	20.84	20.91	20.88	22.0	0.0	
100	PI2-BPSK	1	137	20.78	20.78	20.80	22.0	0.0	
100	PI2-BPSK	1	271	20.85	20.82	20.88	22.0	0.0	
100	PI2-BPSK	135	0	20.75	20.74	20.80	22.0	0.0	
100	PI2-BPSK	135	88	20.90	20.88	20.85	22.0	0.0	
100	PI2-BPSK	135	138	20.85	20.91	20.72	22.0	0.0	
100	PI2-BPSK	270	0	20.84	20.85	20.85	22.0	0.0	
100	QPSK	1	1	20.81	20.89	20.85	22.0	0.0	
100	QPSK	1	137	20.85	20.82	20.88	22.0	0.0	
100	QPSK	1	271	20.84	20.87	20.75	22.0	0.0	
100	QPSK	135	0	20.84	20.89	20.85	22.0	0.0	
100	QPSK	135	88	20.88	20.88	20.88	22.0	0.0	
100	QPSK	135	138	20.88	20.88	20.72	22.0	0.0	
100	QPSK	270	0	20.87	20.88	20.76	22.0	0.0	
100	QPSK	270	88	20.75	20.84	20.75	22.0	0.0	
100	8QAM	1	1	20.45	20.53	20.33	21.5	0.5	
100	8QAM	1	1	18.28	18.40	18.20	18.5	2.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.77	20.78	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.89	20.84	20.71	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.65	20.87	20.73	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.61	20.88	20.73	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.72	20.74	20.74	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.71	20.80	20.74	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.70	20.88	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.78	20.80	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.78	20.80	20.78	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.72	20.85	20.79	22.0	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	18.33	18.33	18.33	19.0	0.0	
100	PI2-BPSK	1	137	18.34	18.34	18.34	19.0	0.0	
100	PI2-BPSK	1	271	18.31	18.31	18.31	19.0	0.0	
100	PI2-BPSK	135	0	18.30	18.30	18.30	19.0	0.0	
100	PI2-BPSK	135	88	18.21	18.24	18.24	19.0	0.0	
100	PI2-BPSK	135	138	18.19	18.19	18.19	19.0	0.0	
100	PI2-BPSK	270	0	18.20	18.20	18.20	19.0	0.0	
100	QPSK	1	1	18.30	18.30	18.30	19.0	0.0	
100	QPSK	1	137	18.32	18.32	18.32	19.0	0.0	
100	QPSK	1	271	18.30	18.30	18.30	19.0	0.0	
100	QPSK	135	0	18.18	18.18	18.18	19.0	0.0	
100	QPSK	135	88	18.32	18.32	18.32	19.0	0.0	
100	QPSK	135	138	18.24	18.24	18.24	19.0	0.0	
100	QPSK	270	0	18.26	18.26	18.26	19.0	0.0	
100	QPSK	270	88	18.27	18.27	18.27	19.0	0.0	
100	8QAM	1	1	18.21	18.21	18.21	18.0	0.0	
100	8QAM	1	1	18.12	18.12	18.12	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.31	18.31	18.31	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.33	18.34	18.34	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.35	18.38	18.31	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.32	18.30	18.32	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.32	18.34	18.34	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.30	18.30	18.30	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.30	18.30	18.31	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.29	18.34	18.31	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.27	18.30	18.32	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.28	18.28	18.24	19.0	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	18.19	18.40	17.80	19.0	0.0	
100	PI2-BPSK	1	137	18.00	18.28	17.80	19.0	0.0	
100	PI2-BPSK	1	271	18.04	18.33	17.87	19.0	0.0	
100	PI2-BPSK	135	0	18.07	18.24	17.76	19.0	0.0	
100	PI2-BPSK	135	88	18.14	18.24	17.80	19.0	0.0	
100	PI2-BPSK	135	138	18.05	18.29	17.87	19.0	0.0	
100	PI2-BPSK	270	0	18.12	18.28	17.80	19.0	0.0	
100	QPSK	1	1	18.22	18.43	17.88	19.0	0.0	
100	QPSK	1	137	18.10	18.28	17.88	19.0	0.0	
100	QPSK	1	271	18.15	18.28	17.88	19.0	0.0	
100	QPSK	135	0	18.09	18.28	17.88	19.0	0.0	
100	QPSK	135	88	18.15	18.28	17.88	19.0	0.0	
100	QPSK	135	138	18.12	18.31	17.82	19.0	0.0	
100	QPSK	270	0	18.10	18.24	17.82	19.0	0.0	
100	QPSK	270	88	18.17	18.25	17.82	19.0	0.0	
100	8QAM	1	1	18.15	18.25	17.82	19.0	0.0	
100	8QAM	1	1	18.08	18.28	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.04	18.21	17.84	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.08	18.19	17.88	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.10	18.26	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.14	18.31	17.84	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.13	18.24	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.18	18.17				



Part27Q_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Mask Ch./Freq.	Power Rpt. Ch./Freq.	Turn-up lim (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.70			22.0	0.0	
100	PI2 BPSK	1	137	20.80					
100	PI2 BPSK	1	271	20.85					
100	PI2 BPSK	135	0	20.81			22.0	0.0	
100	PI2 BPSK	135	66	20.77			22.0	0.0	
100	PI2 BPSK	135	138	20.82			22.0	0.0	
100	PI2 BPSK	270	0	20.72					
100	QPSK	1	1	20.75					
100	QPSK	1	137	20.87			22.0	0.0	
100	QPSK	1	271	20.79					
100	QPSK	135	0	20.79			22.0	0.0	
100	QPSK	135	66	20.71					
100	QPSK	135	138	20.84					
100	QPSK	270	0	20.80			22.0	0.0	
100	QPSK	270	1	20.74			22.0	0.0	
100	8QAM	1	1	20.82			22.0	0.0	
100	8QAM	1	1	20.88			22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.72	20.72	20.72	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.67	20.66	20.64	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.73	20.73	20.65	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.87	20.70	20.74	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.68	20.71	20.71	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.51	20.53	20.30	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.74	20.68	20.70	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.66	20.65	20.70	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.80	20.70	20.84	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.74	20.78	20.68	22.0	0.0	

Part27Q_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Mask Ch./Freq.	Power Rpt. Ch./Freq.	Turn-up lim (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.86			22.0	0.0	
100	PI2 BPSK	1	137	20.80					
100	PI2 BPSK	1	271	20.84					
100	PI2 BPSK	135	0	20.80			22.0	0.0	
100	PI2 BPSK	135	66	20.71			22.0	0.0	
100	PI2 BPSK	135	138	20.80			22.0	0.0	
100	PI2 BPSK	270	0	20.70					
100	QPSK	1	1	20.70					
100	QPSK	1	137	20.80			22.0	0.0	
100	QPSK	1	271	20.79					
100	QPSK	135	0	20.80			22.0	0.0	
100	QPSK	135	66	20.70					
100	QPSK	135	138	20.85					
100	QPSK	270	0	20.80			22.0	0.0	
100	8QAM	1	1	20.84			22.0	0.0	
100	8QAM	1	1	20.83			22.0	0.0	
100	8QAM	1	1	20.88			22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.72	20.72	20.72	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.69	20.67	20.60	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.60	20.61	20.60	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.82	20.82	20.87	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.60	20.60	20.60	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.61	20.63	20.61	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.63	20.62	20.64	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.59	20.54	20.60	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.62	20.54	20.60	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.60	20.58	20.64	22.0	0.0	

Part27Q_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Mask Ch./Freq.	Power Rpt. Ch./Freq.	Turn-up lim (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.20			19.0	0.0	
100	PI2 BPSK	1	137	18.12					
100	PI2 BPSK	1	271	18.18					
100	PI2 BPSK	135	0	18.08			19.0	0.0	
100	PI2 BPSK	135	66	18.14			19.0	0.0	
100	PI2 BPSK	135	138	18.11			19.0	0.0	
100	PI2 BPSK	270	0	18.00					
100	QPSK	1	1	18.20					
100	QPSK	1	137	18.20			19.0	0.0	
100	QPSK	1	271	18.24					
100	QPSK	135	0	18.18			19.0	0.0	
100	QPSK	135	66	18.10					
100	QPSK	135	138	18.13					
100	QPSK	270	0	18.10			19.0	0.0	
100	8QAM	1	1	18.12			19.0	0.0	
100	8QAM	1	1	18.08			19.0	0.0	
100	8QAM	1	1	18.12			19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.20	18.20	18.20	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.15	18.17	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.10	18.21	18.10	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.13	18.23	18.10	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.10	18.09	18.20	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.10	18.17	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.16	18.22	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.10	18.22	18.21	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.13	18.22	18.17	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.05	18.09	18.16	19.0	0.0	

Part27Q_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Mask Ch./Freq.	Power Rpt. Ch./Freq.	Turn-up lim (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.18			19.0	0.0	
100	PI2 BPSK	1	138	18.08					
100	PI2 BPSK	1	271	18.12					
100	PI2 BPSK	135	0	18.08			19.0	0.0	
100	PI2 BPSK	135	66	18.07			19.0	0.0	
100	PI2 BPSK	135	138	18.01			19.0	0.0	
100	PI2 BPSK	270	0	18.04					
100	QPSK	1	1	18.20					
100	QPSK	1	137	18.14			19.0	0.0	
100	QPSK	1	271	18.20					
100	QPSK	135	0	18.18			19.0	0.0	
100	QPSK	135	66	18.10					
100	QPSK	135	138	18.07					
100	QPSK	270	0	18.00			19.0	0.0	
100	8QAM	1	1	18.05			19.0	0.0	
100	8QAM	1	1	18.07			19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.14	18.14	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.20	18.14	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.18	18.10	18.18	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.13	18.13	18.12	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.11	18.09	18.08	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.13	18.13	18.10	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.21	18.19	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.18	18.21	18.17	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.13	18.14	18.20	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.05	18.07	18.14	19.0	0.0	



Part27Q_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.78	18.84	18.90	18.0	0.0	
100	PI2 BPSK	1	137	18.78	18.84	18.90	18.0	0.0	
100	PI2 BPSK	1	271	18.80	18.85	18.90	18.0	0.0	
100	PI2 BPSK	135	0	18.82	18.87	18.92	18.0	0.0	
100	PI2 BPSK	135	66	18.74	18.79	18.84	18.0	0.0	
100	PI2 BPSK	135	138	18.79	18.84	18.89	18.0	0.0	
100	PI2 BPSK	270	0	18.82	18.87	18.92	18.0	0.0	
100	QPSK	1	1	18.80	18.85	18.90	18.0	0.0	
100	QPSK	1	137	18.77	18.82	18.87	18.0	0.0	
100	QPSK	1	271	18.75	18.80	18.85	18.0	0.0	
100	QPSK	135	0	18.80	18.85	18.90	18.0	0.0	
100	QPSK	135	66	18.80	18.85	18.90	18.0	0.0	
100	QPSK	135	138	18.82	18.87	18.92	18.0	0.0	
100	QPSK	270	0	18.82	18.87	18.92	18.0	0.0	
100	QPSK	270	0	18.80	18.85	18.90	18.0	0.0	
100	8QAM	1	1	18.84	18.89	18.94	18.0	0.0	
100	8QAM	1	1	18.84	18.89	18.94	18.0	0.0	
100	8QAM	1	1	18.84	18.89	18.94	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.78	18.83	18.88	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.78	18.83	18.88	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.81	18.86	18.91	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.81	18.86	18.91	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.72	18.77	18.82	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.71	18.76	18.81	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.77	18.82	18.87	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.72	18.77	18.82	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.72	18.77	18.82	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.72	18.77	18.82	18.0	0.0	

Part27O_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.84	18.89	18.94	18.0	0.0	
100	PI2 BPSK	1	137	18.84	18.89	18.94	18.0	0.0	
100	PI2 BPSK	1	271	18.85	18.90	18.95	18.0	0.0	
100	PI2 BPSK	135	0	18.88	18.93	18.98	18.0	0.0	
100	PI2 BPSK	135	66	18.77	18.82	18.87	18.0	0.0	
100	PI2 BPSK	135	138	18.80	18.85	18.90	18.0	0.0	
100	PI2 BPSK	270	0	18.88	18.93	18.98	18.0	0.0	
100	QPSK	1	1	18.82	18.87	18.92	18.0	0.0	
100	QPSK	1	137	18.82	18.87	18.92	18.0	0.0	
100	QPSK	1	271	18.82	18.87	18.92	18.0	0.0	
100	QPSK	135	0	18.82	18.87	18.92	18.0	0.0	
100	QPSK	135	66	18.82	18.87	18.92	18.0	0.0	
100	QPSK	135	138	18.85	18.90	18.95	18.0	0.0	
100	QPSK	270	0	18.82	18.87	18.92	18.0	0.0	
100	8QAM	1	1	18.86	18.91	18.96	18.0	0.0	
100	8QAM	1	1	18.86	18.91	18.96	18.0	0.0	
100	8QAM	1	1	18.86	18.91	18.96	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.81	18.86	18.91	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.81	18.86	18.91	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.82	18.87	18.92	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.81	18.86	18.91	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.74	18.79	18.84	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.72	18.77	18.82	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.78	18.83	18.88	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.73	18.78	18.83	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.73	18.78	18.83	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.73	18.78	18.83	18.0	0.0	

Part27Q_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.88	22.93	22.98	23.5	0.0	
100	PI2 BPSK	1	137	22.88	22.93	22.98	23.5	0.0	
100	PI2 BPSK	1	271	22.38	22.43	22.48	23.0	0.0	
100	PI2 BPSK	135	0	22.38	22.43	22.48	23.0	0.0	
100	PI2 BPSK	135	66	22.35	22.40	22.45	23.5	0.0	
100	PI2 BPSK	135	138	21.79	21.84	21.89	23.0	0.5	
100	PI2 BPSK	270	0	22.38	22.43	22.48	23.0	0.0	
100	QPSK	1	1	22.88	22.93	22.98	23.5	0.0	
100	QPSK	1	137	22.88	22.93	22.98	23.5	0.0	
100	QPSK	1	271	21.38	21.43	21.48	23.0	0.0	
100	QPSK	135	0	22.41	22.46	22.51	23.5	0.0	
100	QPSK	135	66	21.28	21.33	21.38	23.0	0.0	
100	QPSK	135	138	21.20	21.25	21.30	23.0	0.0	
100	QPSK	270	0	22.38	22.43	22.48	23.0	0.0	
100	8QAM	1	1	21.87	21.92	21.97	23.5	1.0	
100	8QAM	1	1	22.89	22.94	22.99	23.5	2.0	
100	8QAM	1	1	22.89	22.94	22.99	23.5	2.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.85	22.90	22.95	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.81	22.86	22.91	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.82	22.87	22.92	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.88	22.93	22.98	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.11	22.16	22.21	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.83	22.88	22.93	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.81	22.86	22.91	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.87	22.92	22.97	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.87	22.92	22.97	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.93	22.98	23.5	0.0	

Part27O_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.83	22.88	22.93	23.5	0.0	
100	PI2 BPSK	1	137	22.83	22.88	22.93	23.5	0.0	
100	PI2 BPSK	1	271	21.88	21.93	21.98	23.0	0.0	
100	PI2 BPSK	135	0	21.47	21.52	21.57	23.0	0.0	
100	PI2 BPSK	135	66	21.85	21.90	21.95	23.5	0.0	
100	PI2 BPSK	135	138	21.38	21.43	21.48	23.0	0.5	
100	PI2 BPSK	270	0	22.37	22.42	22.47	23.0	0.0	
100	QPSK	1	1	22.88	22.93	22.98	23.5	0.0	
100	QPSK	1	137	22.88	22.93	22.98	23.5	0.0	
100	QPSK	1	271	21.38	21.43	21.48	23.0	0.0	
100	QPSK	135	0	21.91	21.96	22.01	23.5	0.0	
100	QPSK	135	66	21.88	21.93	21.98	23.5	0.0	
100	QPSK	135	138	21.50	21.55	21.60	23.0	0.0	
100	QPSK	270	0	22.37	22.42	22.47	23.0	0.0	
100	8QAM	1	1	21.95	22.00	22.05	23.5	1.0	
100	8QAM	1	1	22.97	23.02	23.07	23.5	2.0	
100	8QAM	1	1	22.97	23.02	23.07	23.5	2.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.85	22.90	22.95	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.87	21.92	21.97	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.86	21.91	21.96	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.82	22.87	22.92	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.12	22.17	22.22	23.5	0.0	



Reduced Power Mode for DSI 3

n2_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PB-SSB	1	1	18.83	18.93	18.85			
20	PB-SSB	1	53	18.71	18.84	18.80	18.5	0.0	
20	PB-SSB	1	104	18.62	18.80	18.86	18.5	0.0	
20	PB-SSB	50	0	18.75	18.80	18.82	18.5	0.0	
20	PB-SSB	50	38	18.63	18.82	18.85	18.5	0.0	
20	PB-SSB	50	56	18.63	18.86	18.85	18.5	0.0	
20	PB-SSB	100	0	18.74	18.78	18.71			
20	QPSK	1	1	18.95	18.95	18.95			
20	QPSK	1	53	18.89	18.90	18.89	18.5	0.0	
20	QPSK	1	104	18.77	18.81	18.86	18.5	0.0	
20	QPSK	50	0	18.74	18.75	18.75	18.5	0.0	
20	QPSK	50	38	18.78	18.82	18.85	18.5	0.0	
20	QPSK	50	56	18.73	18.76	18.85	18.5	0.0	
20	QPSK	100	0	18.75	18.80	18.79	18.5	0.0	
20	84QAM	1	1	18.76	18.76	18.75	18.5	0.0	
20	84QAM	1	1	18.74	18.78	18.80	18.5	0.0	
20	84QAM	1	1	18.71	18.81	18.72	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.28	18.91	18.79	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.73	18.72	18.75	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.69	18.81	18.69	18.5	0.0	

n2_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PB-SSB	1	1	18.91	18.98	18.95			
20	PB-SSB	1	53	18.41	18.50	18.50	17.0	0.0	
20	PB-SSB	1	104	18.42	18.47	18.45	17.0	0.0	
20	PB-SSB	50	0	18.52	18.48	18.53	17.0	0.0	
20	PB-SSB	50	38	18.48	18.49	18.45	17.0	0.0	
20	PB-SSB	50	56	18.37	18.42	18.31	17.0	0.0	
20	PB-SSB	100	0	18.41	18.42	18.43			
20	QPSK	1	1	18.95	18.95	18.95			
20	QPSK	1	53	18.59	18.57	18.52	17.0	0.0	
20	QPSK	1	104	18.36	18.57	18.48	17.0	0.0	
20	QPSK	50	0	18.41	18.38	18.44	17.0	0.0	
20	QPSK	50	38	18.31	18.38	18.38	17.0	0.0	
20	QPSK	50	56	18.47	18.45	18.35	17.0	0.0	
20	QPSK	100	0	18.45	18.52	18.44	17.0	0.0	
20	84QAM	1	1	18.48	18.47	18.41	17.0	0.0	
20	84QAM	1	1	18.47	18.46	18.47	17.0	0.0	
20	84QAM	1	1	18.46	18.47	18.46	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.47	18.48	18.43	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.47	18.45	18.41	17.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.48	18.49	18.39	17.0	0.0	

n5_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PB-SSB	1	1	18.74	18.88	18.83			
20	PB-SSB	1	53	18.65	18.85	18.82	21.0	0.0	
20	PB-SSB	1	104	18.65	18.80	18.80	21.0	0.0	
20	PB-SSB	50	0	18.88	18.82	18.87	21.0	0.0	
20	PB-SSB	50	38	18.88	18.87	18.81	21.0	0.0	
20	PB-SSB	50	56	18.55	18.81	18.88	21.0	0.0	
20	PB-SSB	100	0	18.58	18.82	18.82			
20	QPSK	1	1	18.76	18.76	18.71			
20	QPSK	1	53	18.86	18.87	18.82	21.0	0.0	
20	QPSK	1	104	18.86	18.74	18.81	21.0	0.0	
20	QPSK	50	0	18.73	18.89	18.82	21.0	0.0	
20	QPSK	50	38	18.73	18.74	18.73	21.0	0.0	
20	QPSK	50	56	18.85	18.85	18.89	21.0	0.0	
20	QPSK	100	0	18.86	18.72	18.86	21.0	0.0	
20	84QAM	1	1	18.83	18.72	18.85	21.0	0.0	
20	84QAM	1	1	18.71	18.71	18.64	21.0	0.0	
20	84QAM	1	1	18.75	18.70	18.62	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.80	18.80	18.80	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.75	18.73	18.80	21.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.70	18.64	18.67	21.0	0.0	

n5_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PB-SSB	1	1	23.43	23.49	23.46			
20	PB-SSB	1	53	23.42	23.46	23.37	25.0	0.0	
20	PB-SSB	1	104	23.35	23.21	23.19	25.0	0.0	
20	PB-SSB	50	0	23.78	22.87	22.78	24.5	0.5	
20	PB-SSB	50	38	23.71	23.24	23.32	25.0	0.0	
20	PB-SSB	50	56	22.71	22.70	22.70	24.5	0.5	
20	PB-SSB	100	0	22.75	22.85	22.76			
20	QPSK	1	1	23.35	23.35	23.44			
20	QPSK	1	53	23.42	23.42	23.38	25.0	0.0	
20	QPSK	1	104	23.35	23.25	23.17	25.0	0.0	
20	QPSK	50	0	22.28	22.29	22.29	24.0	1.0	
20	QPSK	50	38	22.28	22.29	22.29	25.0	0.0	
20	QPSK	50	56	22.08	22.10	22.17	24.0	1.0	
20	QPSK	100	0	22.24	22.25	22.25			
20	84QAM	1	1	22.55	22.51	22.51	24.0	1.0	
20	84QAM	1	1	21.02	21.10	21.03	22.5	2.5	
20	84QAM	1	1	18.84	18.71	18.68	25.0	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.42	23.38	23.43	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.43	23.53	23.47	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.41	23.52	23.39	25.0	0.0	



n7_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Time-up limit (min)	MPR (dB)		
Channel										
Frequency (MHz)										
40	PUSC	1	1	18.81	18.86	18.87				
40	PUSC	1	1	18.82	18.82	18.84	20.0	0.0		
40	PUSC	1	1	18.83	18.82	18.82				
40	PUSC	108	0	18.84	18.82	18.82	20.0	0.0		
40	PUSC	108	54	18.82	18.84	18.83	20.0	0.0		
40	PUSC	108	108	18.86	18.82	18.82	20.0	0.0		
40	PUSC	216	0	18.86	18.82	18.82				
40	QPSK	1	1	18.88	18.76	18.72				
40	QPSK	1	108	18.88	18.71	18.62	20.0	0.0		
40	QPSK	1	216	18.85	18.67	18.68				
40	QPSK	108	0	18.85	18.68	18.61	20.0	0.0		
40	QPSK	108	54	18.82	18.71	18.68	20.0	0.0		
40	QPSK	108	108	18.81	18.62	18.62	20.0	0.0		
40	QPSK	216	0	18.84	18.64	18.63				
40	16QAM	1	1	18.96	18.56	18.56	20.0	0.0		
40	16QAM	1	1	18.24	18.33	18.29	20.0	0.0		
40	256QAM	1	1	18.99	18.32	18.32	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.79	18.69	18.69	20.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.87	18.76	18.67	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.86	18.87	18.76	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.81	18.68	18.63	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.73	18.72	18.62	20.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.70	18.70	18.64	20.0	0.0		

n7_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Time-up limit (min)	MPR (dB)		
Channel										
Frequency (MHz)										
40	PUSC	1	1	14.10	14.14	14.06				
40	PUSC	1	108	13.94	14.05	14.04	15.0	0.0		
40	PUSC	1	216	13.99	14.05	14.01				
40	PUSC	108	0	13.99	13.95	13.96	15.0	0.0		
40	PUSC	108	54	13.96	14.06	14.04	15.0	0.0		
40	PUSC	108	108	13.92	13.92	13.87	15.0	0.0		
40	PUSC	216	0	13.83	14.02	13.93				
40	QPSK	1	1	14.11	14.15	14.11				
40	QPSK	1	108	14.02	14.06	14.10	15.0	0.0		
40	QPSK	1	216	14.03	14.06	14.11				
40	QPSK	108	0	13.98	14.05	14.04	15.0	0.0		
40	QPSK	108	54	13.95	14.06	14.05	15.0	0.0		
40	QPSK	108	108	13.95	13.96	13.95	15.0	0.0		
40	QPSK	216	0	13.89	14.03	14.02				
40	16QAM	1	1	13.95	13.96	13.97	15.0	0.0		
40	16QAM	1	1	13.83	13.96	14.01	15.0	0.0		
40	256QAM	1	1	13.91	14.01	14.03	15.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	13.96	13.95	13.90	15.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	13.91	13.96	14.02	15.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	13.94	13.95	13.96	15.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	13.93	13.94	13.97	15.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.91	13.94	13.93	15.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	13.91	14.00	13.97	15.0	0.0		

n7_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Time-up limit (min)	MPR (dB)		
Channel										
Frequency (MHz)										
40	PUSC	1	1	22.36	22.39	22.37				
40	PUSC	1	108	22.36	22.42	22.36	24.0	0.0		
40	PUSC	1	216	22.23	22.31	22.25				
40	PUSC	108	0	21.85	21.79	21.89	23.5	0.5		
40	PUSC	108	54	21.74	21.71	21.76	24.0	0.0		
40	PUSC	108	108	21.80	21.69	21.87	23.5	0.5		
40	PUSC	216	0	21.81	21.71	21.84				
40	QPSK	1	1	22.41	22.46	22.45				
40	QPSK	1	108	22.40	22.45	22.46	24.0	0.0		
40	QPSK	1	216	22.37	22.36	22.31				
40	QPSK	108	0	21.17	21.22	21.14	23.0	1.0		
40	QPSK	108	54	21.11	21.11	21.08	24.0	0.0		
40	QPSK	108	108	21.04	21.15	21.07	23.0	1.0		
40	QPSK	216	0	21.20	21.22	21.10				
40	16QAM	1	1	21.52	21.54	21.46	23.0	1.0		
40	16QAM	1	1	20.92	20.93	20.90	21.5	2.0		
40	256QAM	1	1	21.74	21.67	21.58	19.0	4.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.37	22.43	22.40	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.33	22.43	22.44	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.32	22.43	22.35	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.39	22.37	22.34	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.36	22.36	22.44	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.35	22.38	22.41	24.0	0.0		

n26_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Time-up limit (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PUSC	1	1	18.92	18.97	18.96				
20	PUSC	1	50	18.81	18.82	18.82	21.0	0.0		
20	PUSC	1	100	18.96	18.83	18.86				
20	PUSC	50	0	18.75	18.72	18.83	21.0	0.0		
20	PUSC	50	25	18.75	18.87	18.82	21.0	0.0		
20	PUSC	50	50	18.75	18.82	18.80	21.0	0.0		
20	PUSC	100	0	18.70	18.82	18.86				
20	QPSK	1	1	18.94	18.94	18.91				
20	QPSK	1	50	18.83	18.85	18.83	21.0	0.0		
20	QPSK	1	100	18.93	18.93	18.93				
20	QPSK	50	0	18.85	18.78	18.91	21.0	0.0		
20	QPSK	50	25	18.88	18.87	18.88	21.0	0.0		
20	QPSK	50	50	18.77	18.84	18.85	21.0	0.0		
20	QPSK	100	0	18.80	18.86	18.85				
20	16QAM	1	1	18.78	18.78	18.85	21.0	0.0		
20	16QAM	1	1	18.81	18.77	18.85	21.0	0.0		
20	256QAM	1	1	18.84	18.42	18.44	20.5	1.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.94	18.93	18.97	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.90	18.85	18.92	21.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.92	18.94	18.92	21.0	0.0		



n26_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.76	23.78	23.87			
30	PI2 BPSK	1	33	23.83	23.85	23.85	25.0	0.0	
30	PI2 BPSK	1	104	23.95	23.94	23.93			
30	PI2 BPSK	100	0	23.97	23.19	23.98	24.5	0.5	
30	PI2 BPSK	30	38	23.96	23.99	23.94	25.0	0.0	
30	PI2 BPSK	30	56	23.94	23.95	23.18	24.0	0.5	
30	PI2 BPSK	100	0	23.99	23.98	23.12			
30	QPSK	1	1	23.96	23.93	23.71			
30	QPSK	1	33	23.98	23.71	23.82	25.0	0.0	
30	QPSK	1	104	23.96	23.99	23.93			
30	QPSK	30	0	22.96	22.87	22.64	24.0	1.0	
30	QPSK	30	38	22.97	22.89	22.73	25.0	0.0	
30	QPSK	30	56	22.99	22.72	22.65	24.0	1.0	
30	QPSK	100	0	22.98	22.69	22.59			
30	SSB-AM	1	1	22.78	22.81	22.80	24.0	1.0	
30	SSB-AM	1	1	21.29	21.40	21.39	22.5	2.5	
30	SSB-AM	1	1	19.24	19.32	19.21	20.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.17	23.13	23.13	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.10	23.78	23.67	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.21	23.72	23.71	23.0	0.0	

n66_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.82	18.80	18.84			
40	PI2 BPSK	1	159	18.74	18.81	18.82	20.0	0.0	
40	PI2 BPSK	1	214	18.76	18.86	18.89			
40	PI2 BPSK	100	0	18.84	18.85	18.73	20.0	0.0	
40	PI2 BPSK	100	66	18.71	18.86	18.81	20.0	0.0	
40	PI2 BPSK	100	108	18.78	18.77	18.71	20.0	0.0	
40	PI2 BPSK	216	0	18.73	18.71	18.70			
40	QPSK	1	1	18.80	18.96	18.95			
40	QPSK	1	159	18.81	18.88	18.89	20.0	0.0	
40	QPSK	1	214	18.83	18.86	18.89			
40	QPSK	100	0	18.71	18.86	18.75	20.0	0.0	
40	QPSK	100	66	18.71	18.86	18.81	20.0	0.0	
40	QPSK	100	108	18.78	18.79	18.75	20.0	0.0	
40	QPSK	216	0	18.73	18.75	18.75	20.0	0.0	
40	SSB-AM	1	1	18.80	18.86	18.85	20.0	0.0	
40	SSB-AM	1	1	18.73	18.80	18.84	20.0	0.0	
40	SSB-AM	1	1	18.68	18.74	18.74	20.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.80	18.84	18.79	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.80	18.80	18.80	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.80	18.80	18.80	20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.85	18.85	18.83	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.82	18.80	18.80	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.80	18.80	18.80	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.81	18.80	18.79	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.80	18.80	18.80	20.0	0.0	

n66_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.38	18.40	18.42			
40	PI2 BPSK	1	159	18.38	18.31	18.37	17.5	0.0	
40	PI2 BPSK	1	214	18.31	18.40	18.38			
40	PI2 BPSK	100	0	18.20	18.22	18.28	17.5	0.0	
40	PI2 BPSK	100	66	18.24	18.25	18.32	17.5	0.0	
40	PI2 BPSK	100	108	18.28	18.22	18.25	17.5	0.0	
40	PI2 BPSK	216	0	18.17	18.20	18.23			
40	QPSK	1	1	18.41	18.40	18.44			
40	QPSK	1	159	18.39	18.42	18.44	17.5	0.0	
40	QPSK	1	214	18.37	18.40	18.40			
40	QPSK	100	0	18.28	18.31	18.32	17.5	0.0	
40	QPSK	100	66	18.30	18.31	18.32	17.5	0.0	
40	QPSK	100	108	18.20	18.24	18.26	17.5	0.0	
40	QPSK	216	0	18.23	18.20	18.20	17.5	0.0	
40	SSB-AM	1	1	18.31	18.30	18.26	17.5	0.0	
40	SSB-AM	1	1	18.23	18.29	18.28	17.5	0.0	
40	SSB-AM	1	1	18.29	18.27	18.28	17.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.27	18.31	18.30	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.27	18.27	18.26	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.27	18.27	18.26	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.24	18.31	18.33	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.28	18.25	18.30	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.30	18.30	18.30	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.27	18.27	18.26	17.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.29	18.29	18.29	17.5	0.0	

n66_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.11	23.14	23.09			
40	PI2 BPSK	1	159	23.12	23.11	23.07	24.5	0.0	
40	PI2 BPSK	1	214	23.10	23.09	23.15			
40	PI2 BPSK	100	0	23.09	23.11	23.02	24.0	0.5	
40	PI2 BPSK	100	66	23.08	23.18	23.00	24.0	0.5	
40	PI2 BPSK	100	108	23.08	23.05	23.05	24.0	0.5	
40	PI2 BPSK	216	0	22.89	22.95	22.88			
40	QPSK	1	1	23.05	23.01	23.06			
40	QPSK	1	159	23.20	23.24	23.23	24.5	0.0	
40	QPSK	1	214	23.14	23.24	23.16			
40	QPSK	100	0	22.78	22.84	22.83	23.0	1.0	
40	QPSK	100	66	22.78	22.78	22.77	24.0	0.0	
40	QPSK	100	108	22.74	22.74	22.71	24.0	0.0	
40	QPSK	216	0	22.74	22.74	22.71	24.0	0.0	
40	SSB-AM	1	1	22.87	22.89	22.83	23.0	1.0	
40	SSB-AM	1	1	22.78	22.78	22.75	23.0	1.0	
40	SSB-AM	1	1	22.78	20.85	20.74	22.0	0.5	
40	SSB-AM	1	1	18.80	18.84	18.87	20.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.17	23.19	23.11	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.17	23.17	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.17	23.17	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.18	23.39	23.28	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.19	23.30	23.38	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.20	23.20	23.34	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.24	23.29	23.32	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.15	23.16	23.26	24.5	0.0	



n38_Ant 11									
BW (MHz)	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)									
40	PI2 BPSK	1	1	19.81	19.96	19.90			
40	PI2 BPSK	1	53	19.92	19.96	19.84			
40	PI2 BPSK	1	104	19.98	19.92	19.92			
40	PI2 BPSK	50	0	19.75	19.95	19.88	21.0	0.0	
40	PI2 BPSK	50	28	19.87	19.84	19.80	21.0	0.0	
40	PI2 BPSK	50	56	19.84	19.97	19.87			
40	PI2 BPSK	100	0	19.82	19.91	19.94	21.0	0.0	
40	QPSK	1	1	19.95	20.08	19.91			
40	QPSK	1	53	19.84	19.95	19.88	21.0	0.0	
40	QPSK	1	104	19.89	20.05	19.87			
40	QPSK	50	0	19.80	19.95	19.81	21.0	0.0	
40	QPSK	50	28	19.81	20.00	19.85	21.0	0.0	
40	QPSK	50	56	19.80	19.95	19.80			
40	QPSK	100	0	19.80	19.97	19.94	21.0	0.0	
40	16QAM	1	1	19.82	19.95	19.91	21.0	0.0	
40	64QAM	1	1	19.81	20.05	19.83	21.0	0.0	
40	256QAM	1	1	18.71	18.71	18.69	20.0	1.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	29.93	29.96	29.94	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.80	20.02	19.84	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.80	20.02	19.82	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.92	20.02	19.85	21.0	0.0	

n38_Ant 13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	14.41	14.47	14.41			
40	PI2 BPSK	1	53	14.41	14.52	14.41			
40	PI2 BPSK	1	104	14.42	14.52	14.47	15.5	0.0	
40	PI2 BPSK	50	0	14.37	14.43	14.46	15.5	0.0	
40	PI2 BPSK	50	28	14.40	14.42	14.46	15.5	0.0	
40	PI2 BPSK	50	56	14.33	14.54	14.50			
40	PI2 BPSK	100	0	14.40	14.45	14.40	15.5	0.0	
40	QPSK	1	1	14.45	14.50	14.52			
40	QPSK	1	53	14.42	14.39	14.50	15.5	0.0	
40	QPSK	1	104	14.36	14.50	14.43			
40	QPSK	50	0	14.46	14.43	14.35	15.5	0.0	
40	QPSK	50	28	14.40	14.51	14.50	15.5	0.0	
40	QPSK	50	56	14.40	14.39	14.48			
40	QPSK	100	0	14.38	14.43	14.32	15.5	0.0	
40	16QAM	1	1	14.39	14.40	14.35	15.5	0.0	
40	64QAM	1	1	14.34	14.47	14.45	15.5	0.0	
40	256QAM	1	1	14.44	14.45	14.48	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.40	24.52	24.31	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.36	14.49	14.41	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.41	14.46	14.31	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.42	14.48	14.33	15.5	0.0	

n38_Ant 31									
BW (MHz)	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)									
40	PI2 BPSK	1	1	23.24	23.33	23.26			
40	PI2 BPSK	1	53	23.24	23.33	23.31			
40	PI2 BPSK	1	104	23.28	23.24	23.24	24.5	0.0	
40	PI2 BPSK	50	0	22.72	22.83	22.78	24.0	0.5	
40	PI2 BPSK	50	28	23.31	23.27	23.23	24.5	0.0	
40	PI2 BPSK	50	56	22.82	22.74	22.75			
40	PI2 BPSK	100	0	22.78	22.80	22.72	24.0	0.5	
40	QPSK	1	1	23.41	23.43	23.38			
40	QPSK	1	53	23.35	23.28	23.24	24.5	0.0	
40	QPSK	1	104	23.36	23.28	23.24			
40	QPSK	50	0	22.25	22.20	22.25	23.5	1.0	
40	QPSK	50	28	23.35	23.40	23.37	24.5	0.0	
40	QPSK	50	56	22.29	22.34	22.25			
40	QPSK	100	0	22.22	22.28	22.21	23.5	1.0	
40	16QAM	1	1	22.30	22.28	22.21	23.5	1.0	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.5	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.23	23.31	23.27	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.25	23.28	23.31	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.29	23.24	23.28	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.23	23.30	23.32	24.5	0.0	



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BW (MHz)	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	20.06	20.04		
100	PI2 BPSK	1	137	19.90	20.11	20.01	21.0	0.0
100	PI2 BPSK	1	271	19.94	19.99	20.02		
100	PI2 BPSK	135	0	19.92	19.99	19.93	21.0	0.0
100	PI2 BPSK	135	69	20.02	20.02	19.98	21.0	0.0
100	PI2 BPSK	135	138	19.87	20.05	19.97	21.0	0.0
100	PI2 BPSK	270	0	19.94	20.00	20.03		
100	QPSK	1	1	20.00	20.02	20.00		
100	QPSK	1	137	19.92	20.04	19.97	21.0	0.0
100	QPSK	1	271	19.88	20.06	20.08		
100	QPSK	135	0	19.90	20.08	19.98	21.0	0.0
100	QPSK	135	69	19.95	20.10	20.00	21.0	0.0
100	QPSK	135	138	19.91	20.05	19.91	21.0	0.0
100	QPSK	270	0	19.90	20.03	19.97	21.0	0.0
100	16QAM	1	1	19.92	20.06	19.98	21.0	0.0
100	64QAM	1	1	19.90	20.10	19.97	21.0	0.0
100	256QAM	1	1	19.00	19.00	19.88	20.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.89	19.94	19.85	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.89	19.94	19.85	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.87	19.97	19.79	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.87	20.02	19.87	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.87	20.02	19.87	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.88	20.04	19.75	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.89	19.95	19.81	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.91	19.96	19.83	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.91	20.04	19.83	21.0	0.0

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BW (MHz)	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	14.51	14.50	14.42		
100	PI2 BPSK	1	137	14.51	14.52	14.44	15.5	0.0
100	PI2 BPSK	1	271	14.48	14.48	14.45		
100	PI2 BPSK	135	0	14.44	14.50	14.42	15.5	0.0
100	PI2 BPSK	135	69	14.42	14.55	14.41	15.5	0.0
100	PI2 BPSK	135	138	14.49	14.50	14.38		
100	PI2 BPSK	270	0	14.46	14.53	14.38	15.5	0.0
100	QPSK	1	1	14.50	14.50	14.50		
100	QPSK	1	137	14.41	14.53	14.45	15.5	0.0
100	QPSK	1	271	14.43	14.45	14.43		
100	QPSK	135	0	14.42	14.45	14.40	15.5	0.0
100	QPSK	135	69	14.50	14.53	14.43	15.5	0.0
100	QPSK	135	138	14.42	14.42	14.38	15.5	0.0
100	QPSK	270	0	14.39	14.50	14.48	15.5	0.0
100	16QAM	1	1	14.46	14.53	14.38	15.5	0.0
100	64QAM	1	1	14.47	14.56	14.36	15.5	0.0
100	256QAM	1	1	14.43	14.47	14.45	15.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.44	14.54	14.43	15.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.41	14.50	14.37	15.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.45	14.55	14.40	15.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.43	14.52	14.48	15.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.50	14.53	14.43	15.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.42	14.46	14.47	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.39	14.52	14.41	15.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.50	14.53	14.44	15.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.40	14.50	14.37	15.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.46	14.48	14.37	15.5	0.0

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BW (MHz)	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	23.78	23.77	23.72		
100	PI2 BPSK	1	137	23.76	23.75	23.67	25.0	0.0
100	PI2 BPSK	1	271	23.78	23.71	23.69		
100	PI2 BPSK	135	0	23.50	23.53	23.24	24.5	0.5
100	PI2 BPSK	135	69	23.74	23.77	23.67	25.0	0.0
100	PI2 BPSK	135	138	23.28	23.23	23.19		
100	PI2 BPSK	270	0	23.23	23.21	23.24	24.5	0.5
100	QPSK	1	1	23.98	23.91	23.85		
100	QPSK	1	137	23.72	23.78	23.72	25.0	0.0
100	QPSK	1	271	23.72	23.83	23.73		
100	QPSK	135	0	22.69	22.75	22.71	24.0	1.0
100	QPSK	135	69	23.67	23.65	23.60	25.0	0.0
100	QPSK	135	138	22.74	22.70	22.70	24.0	1.0
100	QPSK	270	0	22.71	22.80	22.70	24.0	1.0
100	16QAM	1	1	22.70	22.74	22.74	24.0	1.0
100	64QAM	1	1	21.27	21.26	21.20	22.5	2.5
100	256QAM	1	1	19.28	19.25	19.25	20.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	23.71	23.67	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.69	23.80	23.75	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.71	23.71	23.75	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.66	23.76	23.74	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.65	23.72	23.69	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.70	23.73	23.67	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.71	23.69	23.67	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.67	23.76	23.67	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.67	23.76	23.67	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.71	23.74	23.69	25.0	0.0



Part27Q_n77_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1M Ch./Freq.	Power L1S Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P1/2 BPSK	1	1	13.28	13.31	13.34	14.5	0.0		
100	P1/2 BPSK	1	1	13.32	13.35	13.38	14.5	0.0		
100	P1/2 BPSK	1	271	13.28	13.31	13.34	14.5	0.0		
100	P1/2 BPSK	155	5	13.12	13.15	13.18	14.5	0.0		
100	P1/2 BPSK	155	6	13.11	13.14	13.17	14.5	0.0		
100	P1/2 BPSK	135	138	13.12	13.15	13.18	14.5	0.0		
100	P1/2 BPSK	270	5	13.13	13.16	13.19	14.5	0.0		
100	QPSK	1	1	13.31	13.34	13.37	14.5	0.0		
100	QPSK	1	137	13.31	13.34	13.37	14.5	0.0		
100	QPSK	1	271	13.31	13.34	13.37	14.5	0.0		
100	QPSK	135	5	13.29	13.32	13.35	14.5	0.0		
100	QPSK	135	6	13.28	13.31	13.34	14.5	0.0		
100	QPSK	135	138	13.15	13.18	13.21	14.5	0.0		
100	QPSK	270	5	13.31	13.34	13.37	14.5	0.0		
100	QPSK	1	1	13.15	13.18	13.21	14.5	0.0		
100	4QAM	1	1	13.15	13.18	13.21	14.5	0.0		
100	256QAM	1	1	13.13	13.16	13.19	14.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.04	13.07	13.10	14.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.08	13.11	13.14	14.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	13.21	13.25	13.29	14.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	13.28	13.32	13.36	14.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	13.29	13.33	13.37	14.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	13.21	13.25	13.29	14.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	13.20	13.24	13.28	14.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	13.21	13.25	13.29	14.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	13.25	13.29	13.33	14.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.28	13.32	13.36	14.5	0.0		

Part27Q_n77_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1M Ch./Freq.	Power L1S Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P1/2 BPSK	1	1	13.08	13.11	13.14	14.5	0.0		
100	P1/2 BPSK	1	137	13.08	13.11	13.14	14.5	0.0		
100	P1/2 BPSK	1	271	13.08	13.11	13.14	14.5	0.0		
100	P1/2 BPSK	155	5	12.93	12.96	12.99	14.5	0.0		
100	P1/2 BPSK	155	6	12.91	12.94	12.97	14.5	0.0		
100	P1/2 BPSK	135	138	12.95	12.98	13.01	14.5	0.0		
100	P1/2 BPSK	270	5	13.05	13.08	13.11	14.5	0.0		
100	QPSK	1	1	13.17	13.20	13.23	14.5	0.0		
100	QPSK	1	137	13.17	13.20	13.23	14.5	0.0		
100	QPSK	1	271	13.17	13.20	13.23	14.5	0.0		
100	QPSK	135	5	13.01	13.04	13.07	14.5	0.0		
100	QPSK	135	6	12.99	13.02	13.05	14.5	0.0		
100	QPSK	135	138	12.98	13.01	13.04	14.5	0.0		
100	QPSK	270	5	13.06	13.09	13.12	14.5	0.0		
100	QPSK	1	1	13.04	13.07	13.10	14.5	0.0		
100	4QAM	1	1	13.09	13.12	13.15	14.5	0.0		
100	256QAM	1	1	13.10	13.13	13.16	14.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	12.96	12.99	13.02	14.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.00	13.03	13.06	14.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	13.13	13.17	13.21	14.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	13.14	13.18	13.22	14.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	13.17	13.21	13.25	14.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	13.08	13.12	13.16	14.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	13.09	13.13	13.17	14.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	13.11	13.15	13.19	14.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	13.14	13.18	13.22	14.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.11	13.15	13.19	14.5	0.0		

Part27Q_n77_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1M Ch./Freq.	Power L1S Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P1/2 BPSK	1	1	18.67	18.70	18.73	19.5	0.0		
100	P1/2 BPSK	1	137	18.67	18.70	18.73	19.5	0.0		
100	P1/2 BPSK	1	271	18.67	18.70	18.73	19.5	0.0		
100	P1/2 BPSK	155	5	18.47	18.50	18.53	19.5	0.0		
100	P1/2 BPSK	155	6	18.46	18.49	18.52	19.5	0.0		
100	P1/2 BPSK	135	138	18.53	18.56	18.59	19.5	0.0		
100	P1/2 BPSK	270	5	18.55	18.58	18.61	19.5	0.0		
100	QPSK	1	1	18.70	18.73	18.76	19.5	0.0		
100	QPSK	1	137	18.70	18.73	18.76	19.5	0.0		
100	QPSK	1	271	18.70	18.73	18.76	19.5	0.0		
100	QPSK	135	5	18.50	18.53	18.56	19.5	0.0		
100	QPSK	135	6	18.49	18.52	18.55	19.5	0.0		
100	QPSK	135	138	18.54	18.57	18.60	19.5	0.0		
100	QPSK	270	5	18.58	18.61	18.64	19.5	0.0		
100	4QAM	1	1	18.54	18.57	18.60	19.5	0.0		
100	256QAM	1	1	18.58	18.61	18.64	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.60	18.63	18.66	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.64	18.67	18.70	19.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.85	18.88	18.91	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.82	18.85	18.88	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.93	18.96	18.99	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.85	18.88	18.91	19.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.82	18.85	18.88	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.89	18.92	18.95	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.94	18.97	19.00	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.96	18.99	19.02	19.5	0.0		

Part27Q_n77_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1M Ch./Freq.	Power L1S Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P1/2 BPSK	1	1	18.68	18.71	18.74	19.5	0.0		
100	P1/2 BPSK	1	137	18.68	18.71	18.74	19.5	0.0		
100	P1/2 BPSK	1	271	18.68	18.71	18.74	19.5	0.0		
100	P1/2 BPSK	155	5	18.48	18.51	18.54	19.5	0.0		
100	P1/2 BPSK	155	6	18.47	18.50	18.53	19.5	0.0		
100	P1/2 BPSK	135	138	18.54	18.57	18.60	19.5	0.0		
100	P1/2 BPSK	270	5	18.62	18.65	18.68	19.5	0.0		
100	QPSK	1	1	18.75	18.78	18.81	19.5	0.0		
100	QPSK	1	137	18.75	18.78	18.81	19.5	0.0		
100	QPSK	1	271	18.75	18.78	18.81	19.5	0.0		
100	QPSK	135	5	18.51	18.54	18.57	19.5	0.0		
100	QPSK	135	6	18.50	18.53	18.56	19.5	0.0		
100	QPSK	135	138	18.55	18.58	18.61	19.5	0.0		
100	QPSK	270	5	18.63	18.66	18.69	19.5	0.0		
100	4QAM	1	1	18.59	18.62	18.65	19.5	0.0		
100	256QAM	1	1	18.63	18.66	18.69	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.65	18.68	18.71	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.69	18.72	18.75	19.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.94	18.97	19.00	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.91	18.94	18.97	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.02	19.05	19.08	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.94	18.97	19.00	19.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.91	18.94	18.97	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.98	19.01	19.04	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.03	19.06	19.09	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.05	19.08	19.11	19.5	0.0		



Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	14.70				18.0	0.0	
100	P12 BPSK	1	137	14.70				18.0	0.0	
100	P12 BPSK	1	273	14.80				18.0	0.0	
100	P12 BPSK	135	3	14.21				18.0	0.0	
100	P12 BPSK	135	99	14.74				18.0	0.0	
100	P12 BPSK	135	138	14.23				18.0	0.0	
100	P12 BPSK	270	3	14.52				18.0	0.0	
100	QPSK	1	1	14.52				18.0	0.0	
100	QPSK	1	137	14.72				18.0	0.0	
100	QPSK	1	273	14.82				18.0	0.0	
100	QPSK	135	3	14.40				18.0	0.0	
100	QPSK	135	99	14.70				18.0	0.0	
100	QPSK	135	138	14.52				18.0	0.0	
100	QPSK	270	3	14.70				18.0	0.0	
100	16QAM	1	1	14.54				18.0	0.0	
100	16QAM	1	1	14.54				18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.51	14.70	14.74		18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.72	14.72	14.78		18.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.81	14.78	14.74		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.81	14.78	14.74		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.72	14.72	14.78		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.74	14.77	14.73		18.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.72	14.80	14.72		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.74	14.81	14.73		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.72	14.77	14.71		18.0	0.0	
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.71	14.71	14.80		18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.77	14.71	14.77		18.0	0.0	
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.72	14.78	14.80		18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.73	14.80	14.77		18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.73	14.80	14.77		18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.78	14.80	14.73		18.0	0.0	

Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	14.54				18.0	0.0	
100	P12 BPSK	1	137	14.54				18.0	0.0	
100	P12 BPSK	1	273	14.60				18.0	0.0	
100	P12 BPSK	135	3	14.40				18.0	0.0	
100	P12 BPSK	135	99	14.77				18.0	0.0	
100	P12 BPSK	135	138	14.60				18.0	0.0	
100	P12 BPSK	270	3	14.58				18.0	0.0	
100	QPSK	1	1	14.58				18.0	0.0	
100	QPSK	1	137	14.60				18.0	0.0	
100	QPSK	1	273	14.75				18.0	0.0	
100	QPSK	135	3	14.52				18.0	0.0	
100	QPSK	135	99	14.60				18.0	0.0	
100	QPSK	135	138	14.58				18.0	0.0	
100	QPSK	270	3	14.64				18.0	0.0	
100	16QAM	1	1	14.55				18.0	0.0	
100	16QAM	1	1	14.55				18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.56	14.50	14.52		18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.76	14.71	14.71		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.74	14.77	14.73		18.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.72	14.80	14.72		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.74	14.77	14.73		18.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.72	14.80	14.72		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.74	14.77	14.73		18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.72	14.77	14.71		18.0	0.0	
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.72	14.77	14.81		18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.74	14.80	14.77		18.0	0.0	
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.78	14.79	14.76		18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.73	14.81	14.72		18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.73	14.80	14.75		18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.80	14.78	14.73		18.0	0.0	

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	20.68				21.5	0.0	
100	P12 BPSK	1	137	20.58				21.5	0.0	
100	P12 BPSK	1	273	20.38				21.5	0.0	
100	P12 BPSK	135	3	20.00				21.5	0.0	
100	P12 BPSK	135	99	20.30				21.5	0.0	
100	P12 BPSK	135	138	19.95				21.5	0.0	
100	P12 BPSK	270	3	19.95				21.5	0.0	
100	QPSK	1	1	20.00				21.5	0.0	
100	QPSK	1	137	20.40				21.5	0.0	
100	QPSK	1	273	20.41				21.5	0.0	
100	QPSK	135	3	20.18				21.5	0.0	
100	QPSK	135	99	20.41				21.5	0.0	
100	QPSK	135	138	20.29				21.5	0.0	
100	QPSK	270	3	20.29				21.5	0.0	
100	16QAM	1	1	20.34				21.5	0.0	
100	16QAM	1	1	20.32				21.5	0.0	
100	16QAM	1	1	20.32				21.5	0.0	
100	16QAM	1	1	20.32				21.5	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.63	20.63	20.63		21.5	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.61	20.64	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.62	20.60	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.61	20.64	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.62	20.60	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.63	20.63	20.63		21.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.61	20.64	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.62	20.60	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.63	20.63	20.63		21.5	0.0	
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.63	20.60	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.61	20.60	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.67	20.67	20.66		21.5	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.69	20.67	20.64		21.5	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.63	20.63	20.63		21.5	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.58	20.61	20.61		21.5	0.0	

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	20.03				21.5	0.0	
100	P12 BPSK	1	137	20.03				21.5	0.0	
100	P12 BPSK	1	273	19.98				21.5	0.0	
100	P12 BPSK	135	3	19.90				21.5	0.0	
100	P12 BPSK	135	99	19.91				21.5	0.0	
100	P12 BPSK	135	138	20.25				21.5	0.0	
100	P12 BPSK	270	3	20.20				21.5	0.0	
100	QPSK	1	1	20.00				21.5	0.0	
100	QPSK	1	137	20.40				21.5	0.0	
100	QPSK	1	273	20.41				21.5	0.0	
100	QPSK	135	3	19.81				21.5	0.0	
100	QPSK	135	99	20.01				21.5	0.0	
100	QPSK	135	138	21.00				21.5	0.0	
100	QPSK	270	3	21.00				21.5	0.0	
100	16QAM	1	1	20.14				21.5	0.0	
100	16QAM	1	1	20.10				21.5	0.0	
100	16QAM	1	1	20.10				21.5	0.0	
100	16QAM	1	1	20.10				21.5	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.02	20.02	20.02		21.5	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.01	20.04	20.04		21.5	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.02	20.00	20.04		21.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.01	20.04	20.04		21.5	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.02	20.00	20.04		21.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.03	20.03	20.03		21.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.01	20.04	20.04		21.5	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1								



Reduced Power Mode for DSI 4

n2_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	21.79	21.80	21.77	23.5	0.0		
30	PI2 BPSK	1	53	21.78	21.80	21.72				
30	PI2 BPSK	1	104	21.78	21.87	21.72				
30	PI2 BPSK	50	0	21.73	21.77	21.71	23.5	0.0		
30	PI2 BPSK	50	29	21.81	21.81	21.77	23.5	0.0		
30	PI2 BPSK	50	58	21.75	21.88	21.77	23.5	0.0		
30	PI2 BPSK	100	0	21.71	21.85	21.77				
30	QPSK	1	1	21.82	21.82	21.77				
30	QPSK	1	53	21.78	21.81	21.82	23.5	0.0		
30	QPSK	1	104	21.81	21.88	21.78	23.5	0.0		
30	QPSK	50	0	21.80	21.88	21.77	23.5	0.0		
30	QPSK	50	29	21.82	21.80	21.85	23.5	0.0		
30	QPSK	50	58	21.79	21.80	21.82	23.5	0.0		
30	QPSK	100	0	21.80	21.87	21.85				
30	MSKAM	1	1	20.58	20.22	20.12	22.0	1.5		
30	MSKAM	1	1	18.30	18.47	18.30	20.0	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.77	21.84	21.84	23.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.78	21.82	21.84	23.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	21.77	21.81	21.83	23.5	0.0		

n2_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	22.03	22.00	22.00	24.5	0.0		
30	PI2 BPSK	1	53	22.03	22.00	22.00				
30	PI2 BPSK	1	104	22.02	22.03	22.00				
30	PI2 BPSK	50	0	22.00	22.00	22.02	24.0	0.0		
30	PI2 BPSK	50	29	22.00	22.00	22.02	24.5	0.0		
30	PI2 BPSK	50	58	22.00	22.02	22.00	24.0	0.5		
30	PI2 BPSK	100	0	22.00	22.02	22.00				
30	QPSK	1	1	22.03	22.02	22.01				
30	QPSK	1	53	22.00	22.00	22.01	24.5	0.0		
30	QPSK	1	104	22.04	22.00	22.01	24.5	1.0		
30	QPSK	50	0	22.00	22.00	22.01	24.5	1.0		
30	QPSK	50	29	22.04	22.02	22.01	24.5	1.0		
30	QPSK	50	58	21.94	21.72	21.87	23.0	1.0		
30	QPSK	100	0	21.88	21.71	21.88				
30	MSKAM	1	1	21.85	21.85	21.85	23.5	1.0		
30	MSKAM	1	1	20.40	20.44	20.39	22.0	2.5		
30	MSKAM	1	1	18.34	18.42	18.41	20.0	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.00	22.00	22.00	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.01	22.00	22.00	24.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.00	22.00	22.00	24.5	0.0		

n5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	23.81	23.77	23.82	25.0	0.0		
30	PI2 BPSK	1	58	23.84	23.84	23.81				
30	PI2 BPSK	1	104	23.82	23.82	23.81				
30	PI2 BPSK	50	0	23.81	23.80	23.80	24.0	0.0		
30	PI2 BPSK	50	29	23.81	23.80	23.80	24.5	0.0		
30	PI2 BPSK	50	58	23.80	23.87	23.82	24.5	0.5		
30	PI2 BPSK	100	0	23.81	23.80	23.81				
30	QPSK	1	1	23.82	23.82	23.81				
30	QPSK	1	53	23.81	23.80	23.80	25.0	0.0		
30	QPSK	1	104	23.84	23.80	23.80	24.0	1.0		
30	QPSK	50	0	23.80	23.80	23.80	24.0	1.0		
30	QPSK	50	29	23.84	23.80	23.81	24.0	1.0		
30	QPSK	50	58	23.82	23.80	23.81	24.0	1.0		
30	QPSK	100	0	23.84	23.80	23.80				
30	MSKAM	1	1	23.75	23.82	23.81	24.0	1.0		
30	MSKAM	1	1	21.41	21.40	21.40	22.5	2.5		
30	MSKAM	1	1	19.31	19.30	19.31	20.0	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.78	23.78	23.78	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.78	23.77	23.81	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.72	23.82	23.80	25.0	0.0		

n5_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	23.43	23.40	23.48	26.0	0.0		
30	PI2 BPSK	1	58	23.42	23.40	23.47				
30	PI2 BPSK	1	104	23.42	23.41	23.47				
30	PI2 BPSK	50	0	23.40	23.40	23.40	24.0	0.0		
30	PI2 BPSK	50	29	23.41	23.39	23.42	23.5	0.0		
30	PI2 BPSK	50	58	23.41	23.47	23.40	24.5	0.5		
30	PI2 BPSK	100	0	23.40	23.40	23.40				
30	QPSK	1	1	23.42	23.42	23.41				
30	QPSK	1	53	23.40	23.40	23.40	25.0	0.0		
30	QPSK	1	104	23.40	23.39	23.41	24.0	1.0		
30	QPSK	50	0	23.40	23.40	23.40	24.0	1.0		
30	QPSK	50	29	23.44	23.40	23.40	24.0	1.0		
30	QPSK	50	58	23.40	23.40	23.41	24.0	1.0		
30	QPSK	100	0	23.44	23.40	23.40				
30	MSKAM	1	1	23.38	23.40	23.41	24.0	1.0		
30	MSKAM	1	1	21.02	21.10	21.03	22.5	2.5		
30	MSKAM	1	1	18.84	18.70	18.80	20.0	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.42	23.40	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.43	23.43	23.41	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.41	23.50	23.39	25.0	0.0		



n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Time-up lim (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC	1	1	22.50	22.42	22.41	24.0	0.0	
40	PUSC	1	168	22.44	22.54	22.53			
40	PUSC	1	214	22.35	22.45	22.40			
40	PUSC	108	0	22.50	22.52	21.95	23.5	0.5	
40	PUSC	108	54	22.30	22.40	22.30	24.0	0.0	
40	PUSC	108	108	21.79	21.89	21.78	23.5	0.5	
40	PUSC	216	0	21.90	21.90	21.90			
40	QPSK	1	1	22.45	22.42	22.41			
40	QPSK	1	108	22.58	22.58	22.51	24.0	0.0	
40	QPSK	1	214	22.40	22.42	22.53			
40	QPSK	108	0	21.91	21.38	21.34	23.0	1.0	
40	QPSK	108	54	22.10	22.41	22.39	24.0	0.0	
40	QPSK	108	108	21.28	21.38	21.30	23.0	1.0	
40	QPSK	216	0	21.52	21.50	21.50			
40	16QAM	1	1	21.90	21.83	21.82	23.0	1.0	
40	16QAM	1	1	20.17	20.22	20.14	21.5	2.5	
40	16QAM	1	1	18.10	18.13	18.05	18.5	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.15	21.08	21.07	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.87	22.84	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.82	22.87	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.50	22.50	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.10	22.10	22.10	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.55	22.63	22.62	24.0	0.0	

n7_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Time-up lim (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC	1	1	18.97	20.02	20.03	21.0	0.0	
40	PUSC	1	168	18.90	19.96	20.00			
40	PUSC	1	214	18.91	18.90	18.93			
40	PUSC	108	0	18.95	18.96	18.92	21.0	0.0	
40	PUSC	108	54	18.89	18.96	18.95	21.0	0.0	
40	PUSC	108	108	18.89	18.84	18.77	21.0	0.0	
40	PUSC	216	0	18.76	18.76	18.76			
40	QPSK	1	1	20.12	20.11	20.12			
40	QPSK	1	108	18.97	20.07	20.02	21.0	0.0	
40	QPSK	1	214	18.99	20.06	20.02			
40	QPSK	108	0	18.97	18.91	18.92	21.0	0.0	
40	QPSK	108	54	18.98	20.05	19.99	21.0	0.0	
40	QPSK	108	108	18.92	18.92	18.87	21.0	0.0	
40	QPSK	216	0	18.87	18.89	18.93			
40	16QAM	1	1	18.87	18.91	18.95	21.0	0.0	
40	16QAM	1	1	18.30	18.56	18.94	21.0	0.0	
40	16QAM	1	1	18.30	18.40	18.38	18.5	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.12	21.05	21.04	21.0	0.0	
30	QPSK	1	1	18.87	18.96	18.98	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.98	18.95	18.87	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.97	18.91	18.91	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.91	18.93	18.93	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.90	18.90	18.90	21.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.89	18.96	18.92	21.0	0.0	

n7_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Time-up lim (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC	1	1	21.38	21.43	21.38	23.0	0.0	
40	PUSC	1	168	21.53	21.50	21.48			
40	PUSC	1	214	21.40	21.40	21.54			
40	PUSC	108	0	21.38	21.40	21.38	23.0	0.0	
40	PUSC	108	54	21.42	21.50	21.48	23.0	0.0	
40	PUSC	108	108	21.20	21.40	21.47	23.0	0.0	
40	PUSC	216	0	21.41	21.40	21.30			
40	QPSK	1	1	21.41	21.42	21.41			
40	QPSK	1	108	21.58	21.40	21.58	23.0	0.0	
40	QPSK	1	214	21.50	21.50	21.58			
40	QPSK	108	0	21.43	21.40	21.44	23.0	0.0	
40	QPSK	108	54	21.40	21.41	21.54	23.0	0.0	
40	QPSK	108	108	21.30	21.53	21.51	23.0	0.0	
40	QPSK	216	0	21.43	21.40	21.46			
40	16QAM	1	1	21.40	21.50	21.43	23.0	0.0	
40	16QAM	1	1	18.38	18.54	18.97	21.0	1.5	
40	16QAM	1	1	17.84	17.82	17.84	18.0	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.12	20.12	20.12	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.58	21.58	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.49	21.54	21.54	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.54	21.43	21.53	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.53	21.53	21.53	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.50	21.54	21.54	23.0	0.0	

n26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Time-up lim (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PUSC	1	1	24.03	24.04	23.94	25.0	0.0	
20	PUSC	1	80	23.94	23.97	23.91			
20	PUSC	1	164	23.95	23.96	23.91			
20	PUSC	50	0	23.99	24.01	23.98	24.0	0.0	
20	PUSC	50	80	23.96	23.99	23.94	25.0	0.0	
20	PUSC	50	160	23.43	23.54	23.47	24.0	0.0	
20	PUSC	100	0	23.97	24.00	23.90			
20	QPSK	1	1	24.02	24.00	24.02			
20	QPSK	1	50	23.97	23.98	23.91	25.0	0.0	
20	QPSK	1	164	23.92	23.94	23.97			
20	QPSK	50	0	23.89	23.91	23.83	24.0	1.0	
20	QPSK	50	80	23.96	23.99	23.94	25.0	0.0	
20	QPSK	50	160	22.91	23.00	22.89	24.0	1.0	
20	QPSK	100	0	23.98	23.99	23.86			
20	16QAM	1	1	23.92	23.91	23.90	24.0	1.0	
20	16QAM	1	1	21.50	21.46	21.52	22.0	2.0	
20	16QAM	1	1	18.94	18.90	18.93	20.0	4.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.94	23.93	23.93	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.96	23.94	23.94	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.94	24.04	23.95	25.0	0.0	



n26_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Time-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
30	PLCP BPSK	1	1	23.73	23.78	23.87	23.97	24.0	0.0
30	PLCP BPSK	1	104	23.83	23.88	23.97	24.07	24.0	0.0
30	PLCP BPSK	1	104	23.93	23.98	24.07	24.17	24.0	0.0
30	PLCP BPSK	1	104	24.03	24.08	24.17	24.27	24.0	0.0
30	PLCP BPSK	1	104	24.13	24.18	24.27	24.37	24.0	0.0
30	PLCP BPSK	1	104	24.23	24.28	24.37	24.47	24.0	0.0
30	PLCP BPSK	1	104	24.33	24.38	24.47	24.57	24.0	0.0
30	PLCP BPSK	1	104	24.43	24.48	24.57	24.67	24.0	0.0
30	PLCP BPSK	1	104	24.53	24.58	24.67	24.77	24.0	0.0
30	PLCP BPSK	1	104	24.63	24.68	24.77	24.87	24.0	0.0
30	PLCP BPSK	1	104	24.73	24.78	24.87	24.97	24.0	0.0
30	PLCP BPSK	1	104	24.83	24.88	24.97	25.07	24.0	0.0
30	PLCP BPSK	1	104	24.93	24.98	25.07	25.17	24.0	0.0
30	PLCP BPSK	1	104	25.03	25.08	25.17	25.27	24.0	0.0
30	PLCP BPSK	1	104	25.13	25.18	25.27	25.37	24.0	0.0
30	PLCP BPSK	1	104	25.23	25.28	25.37	25.47	24.0	0.0
30	PLCP BPSK	1	104	25.33	25.38	25.47	25.57	24.0	0.0
30	PLCP BPSK	1	104	25.43	25.48	25.57	25.67	24.0	0.0
30	PLCP BPSK	1	104	25.53	25.58	25.67	25.77	24.0	0.0
30	PLCP BPSK	1	104	25.63	25.68	25.77	25.87	24.0	0.0
30	PLCP BPSK	1	104	25.73	25.78	25.87	25.97	24.0	0.0
30	PLCP BPSK	1	104	25.83	25.88	25.97	26.07	24.0	0.0
30	PLCP BPSK	1	104	25.93	25.98	26.07	26.17	24.0	0.0
30	PLCP BPSK	1	104	26.03	26.08	26.17	26.27	24.0	0.0
30	PLCP BPSK	1	104	26.13	26.18	26.27	26.37	24.0	0.0
30	PLCP BPSK	1	104	26.23	26.28	26.37	26.47	24.0	0.0
30	PLCP BPSK	1	104	26.33	26.38	26.47	26.57	24.0	0.0
30	PLCP BPSK	1	104	26.43	26.48	26.57	26.67	24.0	0.0
30	PLCP BPSK	1	104	26.53	26.58	26.67	26.77	24.0	0.0
30	PLCP BPSK	1	104	26.63	26.68	26.77	26.87	24.0	0.0
30	PLCP BPSK	1	104	26.73	26.78	26.87	26.97	24.0	0.0
30	PLCP BPSK	1	104	26.83	26.88	26.97	27.07	24.0	0.0
30	PLCP BPSK	1	104	26.93	26.98	27.07	27.17	24.0	0.0
30	PLCP BPSK	1	104	27.03	27.08	27.17	27.27	24.0	0.0
30	PLCP BPSK	1	104	27.13	27.18	27.27	27.37	24.0	0.0
30	PLCP BPSK	1	104	27.23	27.28	27.37	27.47	24.0	0.0
30	PLCP BPSK	1	104	27.33	27.38	27.47	27.57	24.0	0.0
30	PLCP BPSK	1	104	27.43	27.48	27.57	27.67	24.0	0.0
30	PLCP BPSK	1	104	27.53	27.58	27.67	27.77	24.0	0.0
30	PLCP BPSK	1	104	27.63	27.68	27.77	27.87	24.0	0.0
30	PLCP BPSK	1	104	27.73	27.78	27.87	27.97	24.0	0.0
30	PLCP BPSK	1	104	27.83	27.88	27.97	28.07	24.0	0.0
30	PLCP BPSK	1	104	27.93	27.98	28.07	28.17	24.0	0.0
30	PLCP BPSK	1	104	28.03	28.08	28.17	28.27	24.0	0.0
30	PLCP BPSK	1	104	28.13	28.18	28.27	28.37	24.0	0.0
30	PLCP BPSK	1	104	28.23	28.28	28.37	28.47	24.0	0.0
30	PLCP BPSK	1	104	28.33	28.38	28.47	28.57	24.0	0.0
30	PLCP BPSK	1	104	28.43	28.48	28.57	28.67	24.0	0.0
30	PLCP BPSK	1	104	28.53	28.58	28.67	28.77	24.0	0.0
30	PLCP BPSK	1	104	28.63	28.68	28.77	28.87	24.0	0.0
30	PLCP BPSK	1	104	28.73	28.78	28.87	28.97	24.0	0.0
30	PLCP BPSK	1	104	28.83	28.88	28.97	29.07	24.0	0.0
30	PLCP BPSK	1	104	28.93	28.98	29.07	29.17	24.0	0.0
30	PLCP BPSK	1	104	29.03	29.08	29.17	29.27	24.0	0.0
30	PLCP BPSK	1	104	29.13	29.18	29.27	29.37	24.0	0.0
30	PLCP BPSK	1	104	29.23	29.28	29.37	29.47	24.0	0.0
30	PLCP BPSK	1	104	29.33	29.38	29.47	29.57	24.0	0.0
30	PLCP BPSK	1	104	29.43	29.48	29.57	29.67	24.0	0.0
30	PLCP BPSK	1	104	29.53	29.58	29.67	29.77	24.0	0.0
30	PLCP BPSK	1	104	29.63	29.68	29.77	29.87	24.0	0.0
30	PLCP BPSK	1	104	29.73	29.78	29.87	29.97	24.0	0.0
30	PLCP BPSK	1	104	29.83	29.88	29.97	30.07	24.0	0.0
30	PLCP BPSK	1	104	29.93	29.98	30.07	30.17	24.0	0.0
30	PLCP BPSK	1	104	30.03	30.08	30.17	30.27	24.0	0.0
30	PLCP BPSK	1	104	30.13	30.18	30.27	30.37	24.0	0.0
30	PLCP BPSK	1	104	30.23	30.28	30.37	30.47	24.0	0.0
30	PLCP BPSK	1	104	30.33	30.38	30.47	30.57	24.0	0.0
30	PLCP BPSK	1	104	30.43	30.48	30.57	30.67	24.0	0.0
30	PLCP BPSK	1	104	30.53	30.58	30.67	30.77	24.0	0.0
30	PLCP BPSK	1	104	30.63	30.68	30.77	30.87	24.0	0.0
30	PLCP BPSK	1	104	30.73	30.78	30.87	30.97	24.0	0.0
30	PLCP BPSK	1	104	30.83	30.88	30.97	31.07	24.0	0.0
30	PLCP BPSK	1	104	30.93	30.98	31.07	31.17	24.0	0.0
30	PLCP BPSK	1	104	31.03	31.08	31.17	31.27	24.0	0.0
30	PLCP BPSK	1	104	31.13	31.18	31.27	31.37	24.0	0.0
30	PLCP BPSK	1	104	31.23	31.28	31.37	31.47	24.0	0.0
30	PLCP BPSK	1	104	31.33	31.38	31.47	31.57	24.0	0.0
30	PLCP BPSK	1	104	31.43	31.48	31.57	31.67	24.0	0.0
30	PLCP BPSK	1	104	31.53	31.58	31.67	31.77	24.0	0.0
30	PLCP BPSK	1	104	31.63	31.68	31.77	31.87	24.0	0.0
30	PLCP BPSK	1	104	31.73	31.78	31.87	31.97	24.0	0.0
30	PLCP BPSK	1	104	31.83	31.88	31.97	32.07	24.0	0.0
30	PLCP BPSK	1	104	31.93	31.98	32.07	32.17	24.0	0.0
30	PLCP BPSK	1	104	32.03	32.08	32.17	32.27	24.0	0.0
30	PLCP BPSK	1	104	32.13	32.18	32.27	32.37	24.0	0.0
30	PLCP BPSK	1	104	32.23	32.28	32.37	32.47	24.0	0.0
30	PLCP BPSK	1	104	32.33	32.38	32.47	32.57	24.0	0.0
30	PLCP BPSK	1	104	32.43	32.48	32.57	32.67	24.0	0.0
30	PLCP BPSK	1	104	32.53	32.58	32.67	32.77	24.0	0.0
30	PLCP BPSK	1	104	32.63	32.68	32.77	32.87	24.0	0.0
30	PLCP BPSK	1	104	32.73	32.78	32.87	32.97	24.0	0.0
30	PLCP BPSK	1	104	32.83	32.88	32.97	33.07	24.0	0.0
30	PLCP BPSK	1	104	32.93	32.98	33.07	33.17	24.0	0.0
30	PLCP BPSK	1	104	33.03	33.08	33.17	33.27	24.0	0.0
30	PLCP BPSK	1	104	33.13	33.18	33.27	33.37	24.0	0.0
30	PLCP BPSK	1	104	33.23	33.28	33.37	33.47	24.0	0.0
30	PLCP BPSK	1	104	33.33	33.38	33.47	33.57	24.0	0.0
30	PLCP BPSK	1	104	33.43	33.48	33.57	33.67	24.0	0.0
30	PLCP BPSK	1	104	33.53	33.58	33.67	33.77	24.0	0.0
30	PLCP BPSK	1	104	33.63	33.68	33.77	33.87	24.0	0.0
30	PLCP BPSK	1	104	33.73	33.78	33.87	33.97	24.0	0.0
30	PLCP BPSK	1	104	33.83	33.88	33.97	34.07	24.0	0.0
30	PLCP BPSK	1	104	33.93	33.98	34.07	34.17	24.0	0.0
30	PLCP BPSK	1	104	34.03	34.08	34.17	34.27	24.0	0.0
30	PLCP BPSK	1	104	34.13	34.18	34.27	34.37	24.0	0.0
30	PLCP BPSK	1	104	34.23	34.28	34.37	34.47	24.0	0.0
30	PLCP BPSK	1	104	34.33	34.38	34.47	34.57	24.0	0.0
30	PLCP BPSK	1	104	34.43	34.48	34.57	34.67	24.0	0.0
30	PLCP BPSK	1	104	34.53	34.58	34.67	34.77	24.0	0.0
30	PLCP BPSK	1	104	34.63	34.68	34.77	34.87	24.0	0.0
30	PLCP BPSK	1	104	34.73	34.78	34.87	34.97	24.0	0.0
30	PLCP BPSK	1	104	34.83	34.88	34.97	35.07	24.0	0.0
30	PLCP BPSK	1	104	34.93	34.98	35.07	35.17	24.0	0.0
30	PLCP BPSK	1	104	35.03	35.08	35.17	35.27	24.0	0.0
30	PLCP BPSK	1	104	35.13	35.18	35.27	35.37	24.0	0.0
30	PLCP BPSK	1							



n38_Ant 11									
BW (MHz)	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)									
40	PI2 BPSK	1	1	23.12	23.24	23.20			
40	PI2 BPSK	1	53	23.17	23.16	23.16	24.5	0.0	
40	PI2 BPSK	1	104	23.16	23.28	23.19			
40	PI2 BPSK	50	0	22.86	22.75	22.88	24.0	0.5	
40	PI2 BPSK	50	28	23.14	23.16	23.15	24.5	0.0	
40	PI2 BPSK	50	56	22.88	22.74	22.81			
40	PI2 BPSK	100	0	22.70	22.67	22.69	24.0	0.5	
40	QPSK	1	1	23.32	23.32	23.32			
40	QPSK	1	53	23.15	23.24	23.17	24.5	0.0	
40	QPSK	1	104	23.25	23.24	23.24			
40	QPSK	50	0	22.13	22.24	22.15	23.5	1.0	
40	QPSK	50	28	23.29	23.30	23.29	24.5	0.0	
40	QPSK	50	56	22.23	22.22	22.15			
40	QPSK	100	0	22.23	22.23	22.18	23.5	1.0	
40	16QAM	1	1	22.17	22.23	22.19	23.5	1.0	
40	64QAM	1	1	20.85	20.67	20.65	22.0	2.5	
40	256QAM	1	1	18.71	18.71	18.69	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.16	23.23	23.10	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.19	23.16	23.18	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.23	23.15	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.18	23.20	23.19	24.5	0.0	

n38_Ant 13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	19.47	19.53	19.51			
40	PI2 BPSK	1	53	19.47	19.48	19.48	20.5	0.0	
40	PI2 BPSK	1	104	19.47	19.51	19.43			
40	PI2 BPSK	50	0	19.53	19.47	19.45	20.5	0.0	
40	PI2 BPSK	50	28	19.52	19.55	19.46	20.5	0.0	
40	PI2 BPSK	50	56	19.50	19.44	19.43			
40	PI2 BPSK	100	0	19.48	19.52	19.42	20.5	0.0	
40	QPSK	1	1	19.57	19.50	19.55			
40	QPSK	1	53	19.50	19.48	19.44	20.5	0.0	
40	QPSK	1	104	19.47	19.44	19.50			
40	QPSK	50	0	19.50	19.50	19.47	20.5	0.0	
40	QPSK	50	28	19.52	19.50	19.45	20.5	0.0	
40	QPSK	50	56	19.50	19.50	19.47	20.5	0.0	
40	QPSK	100	0	19.42	19.47	19.42	20.5	0.0	
40	16QAM	1	1	19.47	19.45	19.42	20.5	0.0	
40	64QAM	1	1	19.50	19.51	19.48	20.5	0.0	
40	256QAM	1	1	19.52	19.54	19.44	20.0	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.41	19.52	19.41	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.41	19.54	19.42	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.42	19.53	19.45	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.48	19.53	19.42	20.5	0.0	

n38_Ant 31									
BW (MHz)	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)									
40	PI2 BPSK	1	1	22.83	22.96	22.82			
40	PI2 BPSK	1	53	22.86	22.86	22.85	24.0	0.0	
40	PI2 BPSK	1	104	22.93	22.90	22.88			
40	PI2 BPSK	50	0	22.92	22.93	22.91	24.0	0.0	
40	PI2 BPSK	50	28	22.90	22.95	22.78	24.0	0.0	
40	PI2 BPSK	50	56	22.87	22.86	22.88			
40	PI2 BPSK	100	0	22.93	22.94	22.83	24.0	0.0	
40	QPSK	1	1	23.38	23.00	23.34			
40	QPSK	1	53	22.91	22.90	22.90	24.0	0.0	
40	QPSK	1	104	22.92	22.96	22.89			
40	QPSK	50	0	22.25	22.20	22.25	23.5	0.5	
40	QPSK	50	28	22.25	22.28	22.21	24.0	0.0	
40	QPSK	50	56	22.29	22.34	22.25			
40	QPSK	100	0	22.22	22.28	22.21	23.5	0.5	
40	16QAM	1	1	22.30	22.28	22.21	23.5	0.5	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.0	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.82	22.94	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.86	22.84	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.82	22.96	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.89	22.87	22.79	24.0	0.0	



FCC_n41_Ant 11									
BW (MHz)	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	22.91	22.85			
100	PI2 BPSK	1	137	22.85	23.00	22.87	24.0	0.0	
100	PI2 BPSK	1	271	22.87	23.00	22.85			
100	PI2 BPSK	135	0	22.88	22.98	22.88	24.0	0.0	
100	PI2 BPSK	135	69	22.86	22.96	22.79	24.0	0.0	
100	PI2 BPSK	135	138	22.73	23.03	22.82	24.0	0.0	
100	PI2 BPSK	270	0	22.84	22.93	22.95			
100	QPSK	1	1	22.95	23.05	23.05			
100	QPSK	1	137	22.80	22.95	22.85	24.0	0.0	
100	QPSK	1	271	22.78	22.95	22.99			
100	QPSK	135	0	22.90	22.98	22.88	24.0	0.0	
100	QPSK	135	69	22.86	22.98	22.79	24.0	0.0	
100	QPSK	135	138	22.81	22.95	22.79	24.0	0.0	
100	QPSK	270	0	22.80	22.93	22.88			
100	16QAM	1	1	22.82	22.95	22.80	24.0	0.0	
100	64QAM	1	1	20.90	21.10	20.97	22.5	1.5	
100	256QAM	1	1	19.00	19.00	19.88	20.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.41	22.92	22.48	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.88	22.93	22.86	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.11	23.02	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.87	22.92	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.47	22.93	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.59	22.99	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.85	22.97	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.63	22.91	22.75	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.57	22.86	22.66	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.58	22.92	22.84	24.0	0.0	

FCC_n41_Ant 13									
BW (MHz)	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	19.51	19.59	19.41			
100	PI2 BPSK	1	137	19.49	19.51	19.46	20.5	0.0	
100	PI2 BPSK	1	271	19.51	19.59	19.41			
100	PI2 BPSK	135	0	19.52	19.59	19.49	20.5	0.0	
100	PI2 BPSK	135	69	19.48	19.49	19.49	20.5	0.0	
100	PI2 BPSK	135	138	19.51	19.50	19.59			
100	PI2 BPSK	270	0	19.46	19.51	19.43	20.5	0.0	
100	QPSK	1	1	19.59	19.59	19.55			
100	QPSK	1	137	19.48	19.49	19.43	20.5	0.0	
100	QPSK	1	271	19.42	19.55	19.51			
100	QPSK	135	0	19.45	19.47	19.48	20.5	0.0	
100	QPSK	135	69	19.50	19.50	19.50	20.5	0.0	
100	QPSK	135	138	19.55	19.55	19.39	20.5	0.0	
100	QPSK	270	0	19.44	19.54	19.47	20.5	0.0	
100	16QAM	1	1	19.44	19.52	19.41	20.5	0.0	
100	64QAM	1	1	19.42	19.55	19.42	20.5	0.0	
100	256QAM	1	1	19.48	19.56	19.39	20.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.41	22.92	22.48	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.45	19.53	19.41	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.48	19.53	19.48	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.48	19.55	19.50	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.45	19.50	19.41	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.41	19.52	19.59	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.53	19.52	19.51	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.43	19.50	19.47	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.42	19.43	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.53	19.52	19.59	20.5	0.0	

FCC_n41_Ant 31									
BW (MHz)	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	21.74	21.85	21.77			
100	PI2 BPSK	1	137	21.79	21.86	21.82	23.0	0.0	
100	PI2 BPSK	1	271	21.77	21.83	21.78			
100	PI2 BPSK	135	0	21.85	21.83	21.84	23.0	0.0	
100	PI2 BPSK	135	69	21.77	21.80	21.78	23.0	0.0	
100	PI2 BPSK	135	138	21.83	21.81	21.75	23.0	0.0	
100	PI2 BPSK	270	0	21.81	21.87	21.73			
100	QPSK	1	1	21.90	21.95	21.98			
100	QPSK	1	137	21.88	21.90	21.73	23.0	0.0	
100	QPSK	1	271	21.78	21.83	21.79			
100	QPSK	135	0	21.75	21.83	21.74	23.0	0.0	
100	QPSK	135	69	21.68	21.90	21.75	23.0	0.0	
100	QPSK	135	138	21.81	21.85	21.72	23.0	0.0	
100	QPSK	270	0	21.78	21.88	21.74			
100	16QAM	1	1	21.82	21.91	21.77	23.0	0.0	
100	64QAM	1	1	21.22	21.26	21.20	22.5	0.5	
100	256QAM	1	1	19.28	19.25	19.25	20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.81	21.87	21.73	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.74	21.86	21.75	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.80	21.88	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.80	21.84	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.82	21.81	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.75	21.91	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.80	21.85	21.72	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.83	21.80	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.75	21.91	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.85	21.84	21.80	23.0	0.0	



Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch./Freq.	Power Mask Ch./Freq.	Power Fltr Ch./Freq.	Power Fltr Ch./Freq.	Turn-up time (min)	MPR (dB)
100	PI2 BPSK	1	1	22.34	22.34	22.34	22.34	23.5	0.0
100	PI2 BPSK	1	137	22.30	22.30	22.30	22.30	23.5	0.0
100	PI2 BPSK	1	271	22.37	22.37	22.37	22.37	23.5	0.0
100	PI2 BPSK	135	5	22.33	22.33	22.33	22.33	23.5	0.0
100	PI2 BPSK	135	69	22.45	22.45	22.45	22.45	23.5	0.0
100	PI2 BPSK	135	138	22.34	22.34	22.34	22.34	23.5	0.0
100	PI2 BPSK	270	5	22.30	22.30	22.30	22.30	23.5	0.0
100	QPSK	1	1	22.47	22.47	22.47	22.47	23.5	0.0
100	QPSK	1	137	22.38	22.38	22.38	22.38	23.5	0.0
100	QPSK	1	271	22.45	22.45	22.45	22.45	23.5	0.0
100	QPSK	135	5	22.37	22.37	22.37	22.37	23.5	0.0
100	QPSK	135	69	22.40	22.40	22.40	22.40	23.5	0.0
100	QPSK	135	138	22.40	22.40	22.40	22.40	23.5	0.0
100	QPSK	270	5	21.90	21.90	21.90	21.90	23.5	0.0
100	QPSK	270	138	21.72	21.72	21.72	21.72	23.5	0.0
100	84QAM	1	1	20.14	20.14	20.14	20.14	21.5	2.0
100	84QAM	1	1	18.17	18.17	18.17	18.17	18.5	4.0
Channel									
				83300	83332	83368	83368	Turn-up time (min)	MPR (dB)
				21.38	21.38	21.38	21.38	23.5	0.0
Channel									
				83688	83332	83400	83400	Turn-up time (min)	MPR (dB)
				3693.98	3693.98	3693.98	3693.98	23.5	0.0
Channel									
				84	84	84	84	Turn-up time (min)	MPR (dB)
				22.48	22.43	22.43	22.43	23.5	0.0
Channel									
				83250	83332	83332	83332	Turn-up time (min)	MPR (dB)
				3493.98	3493.98	3493.98	3493.98	23.5	0.0
Channel									
				70	70	70	70	Turn-up time (min)	MPR (dB)
				22.38	22.41	22.38	22.38	23.5	0.0
Channel									
				83332	83332	83332	83332	Turn-up time (min)	MPR (dB)
				3493.98	3493.98	3493.98	3493.98	23.5	0.0
Channel									
				80	80	80	80	Turn-up time (min)	MPR (dB)
				22.43	22.38	22.38	22.38	23.5	0.0
Channel									
				83332	83332	83332	83332	Turn-up time (min)	MPR (dB)
				3493.98	3493.98	3493.98	3493.98	23.5	0.0
Channel									
				40	40	40	40	Turn-up time (min)	MPR (dB)
				22.43	22.38	22.43	22.43	23.5	0.0
Channel									
				83300	83332	83368	83368	Turn-up time (min)	MPR (dB)
				3693.98	3693.98	3693.98	3693.98	23.5	0.0
Channel									
				30	30	30	30	Turn-up time (min)	MPR (dB)
				22.38	22.39	22.37	22.37	23.5	0.0
Channel									
				83688	83332	83688	83688	Turn-up time (min)	MPR (dB)
				3693.98	3693.98	3693.98	3693.98	23.5	0.0
Channel									
				20	20	20	20	Turn-up time (min)	MPR (dB)
				22.39	22.37	22.38	22.38	23.5	0.0
Channel									
				83332	83332	83332	83332	Turn-up time (min)	MPR (dB)
				3493.98	3493.98	3493.98	3493.98	23.5	0.0
Channel									
				15	15	15	15	Turn-up time (min)	MPR (dB)
				22.43	22.43	22.43	22.43	23.5	0.0
Channel									
				83688	83332	83688	83688	Turn-up time (min)	MPR (dB)
				3493.98	3493.98	3493.98	3493.98	23.5	0.0
Channel									
				10	10	10	10	Turn-up time (min)	MPR (dB)
				22.43	22.40	22.40	22.40	23.5	0.0

Part27O_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch./Freq.	Power Mask Ch./Freq.	Power Fltr Ch./Freq.	Power Fltr Ch./Freq.	Turn-up time (min)	MPR (dB)
100	PI2 BPSK	1	1	22.33	22.33	22.33	22.33	23.5	0.0
100	PI2 BPSK	1	137	22.34	22.34	22.34	22.34	23.5	0.0
100	PI2 BPSK	1	271	22.38	22.38	22.38	22.38	23.5	0.0
100	PI2 BPSK	135	5	22.30	22.30	22.30	22.30	23.5	0.0
100	PI2 BPSK	135	69	22.14	22.30	22.32	22.32	23.5	0.0
100	PI2 BPSK	135	138	22.23	22.37	22.33	22.33	23.5	0.0
100	PI2 BPSK	270	5	22.15	22.38	22.21	22.21	23.5	0.0
100	QPSK	1	1	22.31	22.33	22.33	22.33	23.5	0.0
100	QPSK	1	137	22.37	22.40	22.34	22.34	23.5	0.0
100	QPSK	1	271	22.34	22.40	22.35	22.35	23.5	0.0
100	QPSK	135	5	22.21	22.43	22.35	22.35	23.5	0.0
100	QPSK	135	69	22.03	22.50	22.34	22.34	23.5	0.0
100	QPSK	135	138	22.22	22.40	22.37	22.37	23.5	0.0
100	QPSK	270	5	21.88	21.87	21.88	21.88	23.5	0.0
100	QPSK	270	138	21.61	21.87	21.75	21.75	23.5	0.0
100	84QAM	1	1	20.35	20.41	20.33	20.33	21.5	2.0
100	84QAM	1	1	18.29	18.42	18.35	18.35	18.5	4.0
Channel									
				84688	84688	84632	84632	Turn-up time (min)	MPR (dB)
				22.40	22.33	22.40	22.40	23.5	0.0
Channel									
				84634	84688	84688	84688	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				80	80	80	80	Turn-up time (min)	MPR (dB)
				22.48	22.34	22.30	22.30	23.5	0.0
Channel									
				84688	84688	84688	84688	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				70	70	70	70	Turn-up time (min)	MPR (dB)
				22.32	22.34	22.38	22.38	23.5	0.0
Channel									
				84688	84688	84688	84688	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				60	60	60	60	Turn-up time (min)	MPR (dB)
				22.42	22.27	22.15	22.15	23.5	0.0
Channel									
				84688	84688	84688	84688	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				40	40	40	40	Turn-up time (min)	MPR (dB)
				22.39	22.28	22.11	22.11	23.5	0.0
Channel									
				84688	84688	84632	84632	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				30	30	30	30	Turn-up time (min)	MPR (dB)
				22.49	22.28	22.18	22.18	23.5	0.0
Channel									
				84688	84688	84688	84688	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				20	20	20	20	Turn-up time (min)	MPR (dB)
				22.46	22.30	22.10	22.10	23.5	0.0
Channel									
				84688	84688	84688	84688	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				15	15	15	15	Turn-up time (min)	MPR (dB)
				22.43	22.30	22.13	22.13	23.5	0.0
Channel									
				84688	84688	84688	84688	Turn-up time (min)	MPR (dB)
				3748.11	3748.11	3748.11	3748.11	23.5	0.0
Channel									
				10	10	10	10	Turn-up time (min)	MPR (dB)
				22.46	22.34	22.10	22.10	23.5	0.0

Part27Q_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch./Freq.	Power Mask Ch./Freq.	Power Fltr Ch./Freq.	Power Fltr Ch./Freq.	Turn-up time (min)	MPR (dB)
100	PI2 BPSK	1	1	19.81	19.78	19.81	19.81	20.5	0.0
100	PI2 BPSK	1	137	19.78	19.78	19.78	19.78	20.5	0.0
100	PI2 BPSK	1	271	19.82	19.83	19.82	19.82	20.5	0.0
100	PI2 BPSK	135	5	19.72	19.78	19.78	19.78	20.5	0.0
100	PI2 BPSK	135	69	19.78	19.78	19.78	19.78	20.5	0.0
100	PI2 BPSK	135	138	19.78	19.78	19.78	19.78	20.5	0.0
100	PI2 BPSK	270	5	19.82	19.82	19.82	19.82	20.5	0.0
100	QPSK	1	1	19.82	19.82	19.82	19.82	20.5	0.0
100	QPSK	1	137	19.82	19.82	19.82	19.82	20.5	0.0
100	QPSK	1	271	19.82	19.82	19.82	19.82	20.5	0.0
100	QPSK	135	5	19.80	19.80	19.80	19.80	20.5	0.0
100	QPSK	135	69	19.82	19.82	19.82	19.82	20.5	0.0



Part27Q_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.19					
100	PI2 BPSK	1	137	22.13					
100	PI2 BPSK	1	273	22.06					
100	PI2 BPSK	135	5	22.09				23.5	0.0
100	PI2 BPSK	135	138	22.03				23.5	0.0
100	PI2 BPSK	270	5	22.02				23.5	0.0
100	QPSK	1	1	22.17					
100	QPSK	1	137	22.14				23.5	0.0
100	QPSK	1	273	22.07				23.5	0.0
100	QPSK	135	5	22.09				23.5	0.0
100	QPSK	135	138	22.03				23.5	0.0
100	QPSK	270	5	22.02				23.5	0.0
100	ISDM	1	1	22.05				23.5	0.0
100	ISDM	1	1	22.09				23.5	0.0
100	ISDM	1	1	22.02				23.5	1.5
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.16				23.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.12				23.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.09				23.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.15				23.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.08				23.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.13				23.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.08				23.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.15				23.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.11				23.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.12				23.5	0.0

Part27Q_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.15					
100	PI2 BPSK	1	137	22.15				23.5	0.0
100	PI2 BPSK	1	273	22.08				23.5	0.0
100	PI2 BPSK	135	5	22.07				23.5	0.0
100	PI2 BPSK	135	138	22.08				23.5	0.0
100	PI2 BPSK	270	5	22.02				23.5	0.0
100	QPSK	1	1	22.20					
100	QPSK	1	137	22.22				23.5	0.0
100	QPSK	1	273	22.15				23.5	0.0
100	QPSK	135	5	22.13				23.5	0.0
100	QPSK	135	138	22.02				23.5	0.0
100	QPSK	270	5	22.02				23.5	0.0
100	ISDM	1	1	22.05				23.5	0.0
100	ISDM	1	1	22.13				23.5	0.0
100	ISDM	1	1	22.05				23.5	1.5
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.16				23.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.12				23.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.15				23.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.19				23.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.14				23.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.24				23.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.15				23.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.17				23.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.23				23.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.22				23.5	0.0

Part27Q_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.58					
100	PI2 BPSK	1	137	20.25			21.0	0.0	
100	PI2 BPSK	1	273	20.21			21.0	0.0	
100	PI2 BPSK	135	5	20.05			21.0	0.0	
100	PI2 BPSK	135	138	20.12			21.0	0.0	
100	PI2 BPSK	270	5	20.01			21.0	0.0	
100	QPSK	1	1	20.20					
100	QPSK	1	137	20.22			21.0	0.0	
100	QPSK	1	273	20.14			21.0	0.0	
100	QPSK	135	5	20.14			21.0	0.0	
100	QPSK	135	138	20.01			21.0	0.0	
100	QPSK	270	5	20.12			21.0	0.0	
100	ISDM	1	1	20.15			21.0	0.0	
100	ISDM	1	1	20.18			21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.20			21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.24			21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.29			21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.23			21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.29			21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.27			21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.25			21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.21			21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.22			21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22			21.0	0.0	

Part27Q_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.22					
100	PI2 BPSK	1	137	20.28			21.0	0.0	
100	PI2 BPSK	1	273	20.12			21.0	0.0	
100	PI2 BPSK	135	5	20.02			21.0	0.0	
100	PI2 BPSK	135	138	20.04			21.0	0.0	
100	PI2 BPSK	270	5	20.05			21.0	0.0	
100	QPSK	1	1	20.20					
100	QPSK	1	137	20.10			21.0	0.0	
100	QPSK	1	273	20.17			21.0	0.0	
100	QPSK	135	5	20.08			21.0	0.0	
100	QPSK	135	138	20.01			21.0	0.0	
100	QPSK	270	5	20.05			21.0	0.0	
100	ISDM	1	1	20.04			21.0	0.0	
100	ISDM	1	1	20.04			21.0	0.0	
100	ISDM	1	1	20.13			21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.23			21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.20			21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.17			21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.14			21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.21			21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.20			21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.23			21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.22			21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.18			21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.23			21.0	0.0	



Reduced Power Mode for DSI 5

n2_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. (37200)	Power High Ch. 1 Freq. (38000)	Power Media Ch. 1 Freq. (37600)	Power High Ch. 2 Freq. (38000)	Tune-up time (dftm)	MPR (dB)	
Channel										
Frequency (MHz)										
20	PIQ BPSK	1	1	18.28	18.32	18.30	18.30			
20	PIQ BPSK	1	53	18.18	18.24	18.21	18.21	20.0	0.0	
20	PIQ BPSK	1	104	18.23	18.30	18.26	18.26			
20	PIQ BPSK	50	0	18.12	18.24	18.18	18.18	20.0	0.0	
20	PIQ BPSK	50	28	18.18	18.27	18.22	18.22	20.0	0.0	
20	PIQ BPSK	50	56	18.25	18.36	18.30	18.30	20.0	0.0	
20	PIQ BPSK	100	0	18.21	18.18	18.19	18.19	20.0	0.0	
20	QPSK	1	1	18.21	18.30	18.25	18.25			
20	QPSK	1	53	18.23	18.31	18.27	18.27	20.0	0.0	
20	QPSK	1	104	18.28	18.30	18.29	18.29			
20	QPSK	50	0	18.25	18.21	18.21	18.21	20.0	0.0	
20	QPSK	50	28	18.29	18.31	18.30	18.30	20.0	0.0	
20	QPSK	50	56	18.31	18.24	18.28	18.28	20.0	0.0	
20	QPSK	100	0	18.13	18.23	18.22	18.22	20.0	0.0	
20	16QAM	1	1	18.22	18.32	18.27	18.27			
20	16QAM	1	1	18.25	18.24	18.25	18.25	20.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.22	18.24	18.23	18.23	20.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.25	18.30	18.27	18.27	20.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.29	18.30	18.29	18.29	20.0	0.0	
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.30	18.30	18.30	18.30	20.0	0.0	

n2_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. (37200)	Power High Ch. 1 Freq. (38000)	Power Media Ch. 1 Freq. (37600)	Power High Ch. 2 Freq. (38000)	Tune-up time (dftm)	MPR (dB)	
Channel										
Frequency (MHz)										
20	PIQ BPSK	1	1	18.45	18.47	18.46	18.46			
20	PIQ BPSK	1	53	18.36	18.53	18.45	18.45	21.0	0.0	
20	PIQ BPSK	1	104	18.41	18.54	18.48	18.48			
20	PIQ BPSK	50	0	18.25	18.45	18.41	18.41	21.0	0.0	
20	PIQ BPSK	50	28	18.40	18.42	18.41	18.41	21.0	0.0	
20	PIQ BPSK	50	56	18.41	18.43	18.42	18.42	21.0	0.0	
20	PIQ BPSK	100	0	18.36	18.38	18.38	18.38	21.0	0.0	
20	QPSK	1	1	18.25	18.50	18.38	18.38			
20	QPSK	1	53	18.44	18.57	18.45	18.45	21.0	0.0	
20	QPSK	1	104	18.49	18.52	18.51	18.51			
20	QPSK	50	0	18.35	18.47	18.43	18.43	21.0	0.0	
20	QPSK	50	28	18.44	18.50	18.48	18.48	21.0	0.0	
20	QPSK	50	56	18.45	18.49	18.46	18.46	21.0	0.0	
20	QPSK	100	0	18.40	18.47	18.43	18.43	21.0	0.0	
20	16QAM	1	1	18.35	18.48	18.42	18.42			
20	16QAM	1	1	18.34	18.42	18.41	18.41	21.0	0.0	
20	16QAM	1	1	18.24	18.41	18.30	18.30	20.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.27	18.44	18.42	18.42	21.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.25	18.30	18.28	18.28	21.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.29	18.40	18.37	18.37	21.0	0.0	
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.43	18.46	18.44	18.44	21.0	0.0	

n5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. (16800)	Power High Ch. 1 Freq. (18720)	Power Media Ch. 1 Freq. (17760)	Power High Ch. 2 Freq. (18720)	Tune-up time (dftm)	MPR (dB)	
Channel										
Frequency (MHz)										
20	PIQ BPSK	1	1	23.81	23.71	23.76	23.76			
20	PIQ BPSK	1	53	23.54	23.81	23.67	23.67	25.0	0.0	
20	PIQ BPSK	1	104	23.48	23.48	23.47	23.47			
20	PIQ BPSK	50	0	23.87	23.13	23.50	23.50	24.5	0.0	
20	PIQ BPSK	50	28	23.61	23.69	23.65	23.65	25.0	0.0	
20	PIQ BPSK	50	56	23.58	23.67	23.62	23.62	25.0	0.0	
20	PIQ BPSK	100	0	23.12	23.15	23.13	23.13	24.5	0.0	
20	QPSK	1	1	23.86	23.82	23.84	23.84			
20	QPSK	1	53	23.57	23.80	23.69	23.69	25.0	0.0	
20	QPSK	1	104	23.44	23.44	23.44	23.44			
20	QPSK	50	0	23.85	23.05	23.45	23.45	24.0	1.0	
20	QPSK	50	28	23.59	23.60	23.59	23.59	25.0	0.0	
20	QPSK	50	56	23.42	23.50	23.46	23.46	24.0	1.0	
20	QPSK	100	0	23.54	23.58	23.48	23.48	24.0	1.0	
20	16QAM	1	1	23.75	23.75	23.75	23.75			
20	16QAM	1	1	21.41	21.45	21.43	21.43	22.5	2.5	
20	16QAM	1	1	19.31	19.30	19.31	19.31	20.5	4.5	
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.72	23.82	23.77	23.77	25.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.78	23.77	23.78	23.78	25.0	0.0	
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.72	23.82	23.78	23.78	25.0	0.0	

n5_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. (16800)	Power High Ch. 1 Freq. (18720)	Power Media Ch. 1 Freq. (17760)	Power High Ch. 2 Freq. (18720)	Tune-up time (dftm)	MPR (dB)	
Channel										
Frequency (MHz)										
20	PIQ BPSK	1	1	23.43	23.40	23.46	23.46			
20	PIQ BPSK	1	53	23.42	23.46	23.37	23.37	25.0	0.0	
20	PIQ BPSK	1	104	23.10	23.21	23.16	23.16			
20	PIQ BPSK	50	0	23.78	22.87	23.33	23.33	24.5	0.0	
20	PIQ BPSK	50	28	23.31	23.34	23.32	23.32	25.0	0.0	
20	PIQ BPSK	50	56	23.31	23.37	23.34	23.34	25.0	0.0	
20	PIQ BPSK	100	0	22.75	22.85	22.78	22.78	24.5	0.0	
20	QPSK	1	1	23.82	23.81	23.82	23.82			
20	QPSK	1	53	23.40	23.42	23.39	23.39	25.0	0.0	
20	QPSK	1	104	23.18	23.20	23.17	23.17			
20	QPSK	50	0	23.25	22.35	22.29	22.29	24.0	1.0	
20	QPSK	50	28	23.30	23.30	23.31	23.31	25.0	0.0	
20	QPSK	50	56	23.08	23.11	23.11	23.11	24.0	1.0	
20	QPSK	100	0	22.24	22.25	22.25	22.25	24.0	1.0	
20	16QAM	1	1	23.25	23.25	23.25	23.25			
20	16QAM	1	1	21.02	21.10	21.03	21.03	22.5	2.5	
20	16QAM	1	1	19.04	19.10	19.08	19.08	20.5	4.5	
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.42	23.50	23.43	23.43	25.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.43	23.53	23.47	23.47	25.0	0.0	
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.41	23.52	23.39	23.39	25.0	0.0	



n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PFC-BPSK	1	1	18.67	18.74	18.72			
40	PFC-BPSK	1	108	18.53	18.60	18.75	20.0	0.0	
40	PFC-BPSK	1	214	18.67	18.60	18.72			
40	PFC-BPSK	108	0	18.54	18.72	18.70	20.0	0.0	
40	PFC-BPSK	108	54	18.56	18.68	18.74	20.0	0.0	
40	PFC-BPSK	108	108	18.55	18.71	18.65	20.0	0.0	
40	PFC-BPSK	216	0	18.48	18.68	18.63	20.0	0.0	
40	QPSK	1	1	18.75	18.60	18.50			
40	QPSK	1	108	18.63	18.74	18.77	20.0	0.0	
40	QPSK	1	214	18.68	18.77	18.79			
40	QPSK	108	0	18.52	18.72	18.71	20.0	0.0	
40	QPSK	108	54	18.63	18.76	18.71	20.0	0.0	
40	QPSK	108	108	18.63	18.76	18.71	20.0	0.0	
40	QPSK	216	0	18.57	18.72	18.74	20.0	0.0	
40	SSB-AM	1	1	18.65	18.68	18.7	20.0	0.0	
40	SSB-AM	1	1	18.57	18.72	18.65	20.0	0.0	
40	SSB-AM	1	1	18.68	18.63	17.65	19.5	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.7	18.6	18.7	20.0	0.0	
Channel									
Frequency (MHz)									
24	QPSK	1	1	18.57	18.63	18.77	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.73	18.75	18.72	20.0	0.0	
Channel									
Frequency (MHz)									
18	QPSK	1	1	18.63	18.79	18.78	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.63	18.81	18.75	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.64	18.84	18.73	20.0	0.0	

n7_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PFC-BPSK	1	1	18.91	18.68	18.97			
40	PFC-BPSK	1	108	18.88	18.66	18.92	17.0	0.0	
40	PFC-BPSK	1	214	18.94	18.62	18.93			
40	PFC-BPSK	108	0	18.89	18.89	18.82	17.0	0.0	
40	PFC-BPSK	108	54	18.87	18.98	18.94	17.0	0.0	
40	PFC-BPSK	108	108	18.88	18.94	18.94	17.0	0.0	
40	PFC-BPSK	216	0	18.82	18.94	18.80	17.0	0.0	
40	QPSK	1	1	18.92	18.60	18.90			
40	QPSK	1	108	18.84	18.67	18.95	17.0	0.0	
40	QPSK	1	214	18.90	18.65	18.99			
40	QPSK	108	0	18.92	18.92	18.84	17.0	0.0	
40	QPSK	108	54	18.90	18.81	18.95	17.0	0.0	
40	QPSK	108	108	18.90	18.90	18.94	17.0	0.0	
40	QPSK	216	0	18.82	18.92	18.89	17.0	0.0	
40	SSB-AM	1	1	18.97	18.68	18.9	17.0	0.0	
40	SSB-AM	1	1	18.92	18.68	18.93	17.0	0.0	
40	SSB-AM	1	1	18.95	18.60	18.94	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.83	18.62	18.9	17.0	0.0	
Channel									
Frequency (MHz)									
24	QPSK	1	1	18.89	18.52	18.93	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.92	18.60	18.90	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.90	18.92	18.90	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.89	18.60	18.92	17.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.97	18.60	18.94	17.0	0.0	

n7_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PFC-BPSK	1	1	21.56	21.51	21.58			
40	PFC-BPSK	1	108	21.53	21.59	21.48	23.0	0.0	
40	PFC-BPSK	1	214	21.42	21.49	21.54			
40	PFC-BPSK	108	0	21.38	21.59	21.38	23.0	0.0	
40	PFC-BPSK	108	54	21.42	21.59	21.48	23.0	0.0	
40	PFC-BPSK	108	108	21.29	21.53	21.47	23.0	0.0	
40	PFC-BPSK	216	0	21.41	21.55	21.35	23.0	0.0	
40	QPSK	1	1	21.65	21.65	21.65			
40	QPSK	1	108	21.56	21.63	21.58	23.0	0.0	
40	QPSK	1	214	21.55	21.55	21.55			
40	QPSK	108	0	21.45	21.55	21.44	23.0	0.0	
40	QPSK	108	54	21.46	21.62	21.54	23.0	0.0	
40	QPSK	108	108	21.39	21.53	21.51	23.0	0.0	
40	QPSK	216	0	21.43	21.59	21.46	23.0	0.0	
40	SSB-AM	1	1	21.48	21.52	21.42	23.0	0.0	
40	SSB-AM	1	1	21.46	21.54	21.37	23.0	0.0	
40	SSB-AM	1	1	21.84	21.62	21.64	19.5	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.53	21.62	21.56	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.53	21.52	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.49	21.54	21.54	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.54	21.61	21.53	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.51	21.60	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.56	21.64	21.54	23.0	0.0	

n26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Media Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PFC-BPSK	1	1	23.83	24.04	23.94			
20	PFC-BPSK	1	54	23.84	23.97	23.91	25.0	0.0	
20	PFC-BPSK	1	104	23.92	23.96	23.91			
20	PFC-BPSK	50	0	23.39	23.41	23.38	24.0	0.0	
20	PFC-BPSK	50	26	23.39	23.59	23.34	25.0	0.0	
20	PFC-BPSK	50	46	23.43	23.54	23.47	24.0	0.0	
20	PFC-BPSK	100	0	23.37	23.45	23.38	24.0	0.0	
20	QPSK	1	1	23.92	23.98	23.95			
20	QPSK	1	54	23.87	23.98	23.91	25.0	0.0	
20	QPSK	1	104	23.92	23.98	23.93			
20	QPSK	50	0	23.35	23.37	23.35	24.0	1.0	
20	QPSK	50	26	23.36	23.45	23.33	25.0	0.0	
20	QPSK	50	46	23.37	23.49	23.36	24.0	1.0	
20	QPSK	100	0	23.32	23.41	23.35	24.0	0.0	
20	SSB-AM	1	1	23.72	23.71	23.69	24.0	0.0	
20	SSB-AM	1	1	23.65	23.56	23.52	23.5	0.5	
20	SSB-AM	1	1	23.84	23.59	23.63	20.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.84	23.87	23.83	24.0	0.0	
Channel									
Frequency (MHz)									
18	QPSK	1	1	23.79	23.78	23.74	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.94	24.04	23.95	25.0	0.0	



n26_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up loss (dBm)	MFR (dB)	
20	Frequency (MHz)			164000	166000	167000			
20	PI2 BPSK	1	1	23.70	23.70	23.71			
20	PI2 BPSK	1	33	23.63	23.63	23.60	25.0	0.0	
20	PI2 BPSK	1	104	23.56	23.54	23.51			
20	PI2 BPSK	50	0	23.67	23.55	23.68	24.5	0.0	
20	PI2 BPSK	50	28	23.68	23.69	23.59	25.0	0.0	
20	PI2 BPSK	50	56	23.74	23.75	23.75			
20	PI2 BPSK	100	0	23.69	23.70	23.72	24.5	0.0	
20	QPSK	1	1	23.78	23.82	23.71			
20	QPSK	1	33	23.66	23.71	23.62	25.0	0.0	
20	QPSK	1	104	23.68	23.68	23.62			
20	QPSK	50	0	23.55	23.87	23.54	24.0	1.0	
20	QPSK	50	28	23.59	23.69	23.56	25.0	0.0	
20	QPSK	50	56	22.08	22.72	22.86			
20	QPSK	100	0	22.58	22.62	22.59	24.0	1.0	
20	16QAM	1	1	22.75	22.81	22.65			
20	16QAM	1	1	21.25	21.41	21.29	23.5	2.5	
20	256QAM	1	1	19.24	19.32	19.26	20.5	4.5	
	Channel			164000	167000	167000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			84.5	84.5	84.5			
15	QPSK	1	1	23.77	23.84	23.73	23.0	0.0	
	Channel			166000	166000	166000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			84.5	84.5	84.5			
15	QPSK	1	1	23.70	23.73	23.67	23.0	0.0	
	Channel			163000	163000	163000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			84.0	84.0	84.0			
5	QPSK	1	1	23.71	23.72	23.71	23.0	0.0	

n66_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up loss (dBm)	MFR (dB)	
40	Frequency (MHz)			340000	340000	340000			
40	PI2 BPSK	1	1	19.93	19.94	19.91			
40	PI2 BPSK	1	104	19.93	19.95	19.96	21.0	0.0	
40	PI2 BPSK	1	214	19.94	20.00	19.99			
40	PI2 BPSK	100	0	19.84	19.91	19.79	21.0	0.0	
40	PI2 BPSK	100	26	19.86	19.92	19.81	21.0	0.0	
40	PI2 BPSK	100	104	19.86	19.93	19.79			
40	PI2 BPSK	210	0	19.88	19.91	19.85	21.0	0.0	
40	QPSK	1	1	19.90	20.00	20.01			
40	QPSK	1	104	19.85	20.01	19.99	21.0	0.0	
40	QPSK	1	214	19.92	20.00	19.98			
40	QPSK	100	0	19.81	19.95	19.85	21.0	0.0	
40	QPSK	100	26	19.87	20.00	19.91	21.0	0.0	
40	QPSK	100	104	19.83	19.94	19.81			
40	QPSK	210	0	19.81	19.98	19.89	21.0	0.0	
40	16QAM	1	1	19.81	19.82	19.86			
40	16QAM	1	1	19.80	19.95	19.83	21.0	0.0	
40	256QAM	1	1	18.94	19.00	18.95	20.0	1.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
35	QPSK	1	1	19.78	19.84	19.74	21.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
30	QPSK	1	1	19.81	19.93	19.79	21.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
25	QPSK	1	1	19.80	19.90	19.84	21.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
20	QPSK	1	1	19.85	20.00	19.81	21.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
15	QPSK	1	1	19.82	19.86	19.80	21.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
10	QPSK	1	1	19.78	19.89	19.74	21.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
5	QPSK	1	1	19.78	19.90	19.75	21.0	0.0	

n66_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up loss (dBm)	MFR (dB)	
40	Frequency (MHz)			340000	340000	340000			
40	PI2 BPSK	1	1	20.90	20.93	20.95			
40	PI2 BPSK	1	104	20.92	20.99	20.88	22.0	0.0	
40	PI2 BPSK	1	214	20.90	20.94	20.97			
40	PI2 BPSK	100	0	20.90	20.83	20.80	22.0	0.0	
40	PI2 BPSK	100	26	20.92	20.98	20.82	22.0	0.0	
40	PI2 BPSK	100	104	20.85	20.95	20.90			
40	PI2 BPSK	210	0	20.83	20.83	20.79	21.0	0.0	
40	QPSK	1	1	20.90	21.00	21.00			
40	QPSK	1	104	20.90	21.00	20.96	22.0	0.0	
40	QPSK	1	214	20.90	20.99	20.96			
40	QPSK	100	0	20.85	20.94	20.90	22.0	0.0	
40	QPSK	100	26	20.90	20.99	20.94	22.0	0.0	
40	QPSK	100	104	20.86	20.93	20.90			
40	QPSK	210	0	20.84	20.83	20.80	21.0	0.0	
40	16QAM	1	1	20.88	20.90	20.91			
40	16QAM	1	1	20.86	20.96	20.91	22.0	0.0	
40	256QAM	1	1	19.88	19.90	19.84	20.0	2.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
35	QPSK	1	1	20.83	20.87	20.79	22.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
30	QPSK	1	1	20.84	20.94	20.87	22.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
25	QPSK	1	1	20.84	20.85	20.86	22.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
20	QPSK	1	1	20.87	20.93	20.87	22.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
15	QPSK	1	1	20.84	20.85	20.86	22.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
10	QPSK	1	1	20.86	20.87	20.87	22.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
5	QPSK	1	1	20.87	20.91	20.86	22.0	0.0	

n66_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up loss (dBm)	MFR (dB)	
40	Frequency (MHz)			340000	340000	340000			
40	PI2 BPSK	1	1	20.83	20.91	20.74			
40	PI2 BPSK	1	104	20.82	20.72	20.75	22.0	0.0	
40	PI2 BPSK	1	214	20.80	20.81	20.81			
40	PI2 BPSK	100	0	20.84	20.81	20.81	22.0	0.0	
40	PI2 BPSK	100	26	20.85	20.90	20.82	22.0	0.0	
40	PI2 BPSK	100	104	20.79	20.75	20.68			
40	PI2 BPSK	210	0	20.85	20.87	20.88	21.0	0.0	
40	QPSK	1	1	20.83	20.90	20.80			
40	QPSK	1	104	20.81	20.79	20.79	22.0	0.0	
40	QPSK	1	214	20.83	20.77	20.80			
40	QPSK	100	0	20.80	20.76	20.84	22.0	0.0	
40	QPSK	100	26	20.86	20.79	20.80	22.0	0.0	
40	QPSK	100	104	20.84	20.77	20.80			
40	QPSK	210	0	20.83	20.79	20.87	22.0	0.0	
40	16QAM	1	1	20.87	20.88	20.85			
40	16QAM	1	1	20.84	20.77	20.88	22.0	0.0	
40	256QAM	1	1	19.80	19.81	19.81	20.0	2.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	
	Frequency (MHz)			172.5	174.5	172.5			
35	QPSK	1	1	20.84	20.83	20.79	22.0	0.0	
	Channel			340000	340000	340000	Time-up loss (dBm)	MFR (dB)	



n38_Ant 11									
BW (MHz)	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)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	19.19	19.39	19.35			
40	PI2 BPSK	1	53	19.27	19.39	19.20	20.5	0.0	
40	PI2 BPSK	1	104	19.32	19.39	19.35			
40	PI2 BPSK	50	0	19.25	19.32	19.28	20.5	0.0	
40	PI2 BPSK	50	28	19.33	19.34	19.25	20.5	0.0	
40	PI2 BPSK	50	56	19.22	19.41	19.25	20.5	0.0	
40	PI2 BPSK	100	0	19.22	19.34	19.36			
40	QPSK	1	1	19.35	19.47	19.35			
40	QPSK	1	53	19.28	19.40	19.24	20.5	0.0	
40	QPSK	1	104	19.23	19.43	19.24			
40	QPSK	50	0	19.20	19.38	19.25	20.5	0.0	
40	QPSK	50	28	19.22	19.38	19.25	20.5	0.0	
40	QPSK	50	56	19.20	19.35	19.18	20.5	0.0	
40	QPSK	100	0	19.20	19.37	19.32			
40	16QAM	1	1	19.22	19.35	19.31	20.5	0.0	
40	64QAM	1	1	19.21	19.45	19.17	20.5	0.0	
40	256QAM	1	1	18.71	18.71	18.69	20.0	0.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.21	19.30	19.33	20.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.22	19.36	19.37	20.5	0.0	
Channel				515502	519000	522500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.26	19.32	19.31	20.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.27	19.25	19.20	20.5	0.0	

n38_Ant 13									
BW (MHz)	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)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	16.39	16.54	16.43			
40	PI2 BPSK	1	53	16.47	16.49	16.48	17.5	0.0	
40	PI2 BPSK	1	104	16.41	16.51	16.40			
40	PI2 BPSK	50	0	16.42	16.46	16.43	17.5	0.0	
40	PI2 BPSK	50	28	16.38	16.51	16.42	17.5	0.0	
40	PI2 BPSK	50	56	16.47	16.44	16.40	17.5	0.0	
40	PI2 BPSK	100	0	16.47	16.44	16.49			
40	QPSK	1	1	16.35	16.50	16.35			
40	QPSK	1	53	16.43	16.49	16.46	17.5	0.0	
40	QPSK	1	104	16.43	16.55	16.50			
40	QPSK	50	0	16.36	16.51	16.40	17.5	0.0	
40	QPSK	50	28	16.41	16.55	16.45	17.5	0.0	
40	QPSK	50	56	16.44	16.50	16.45			
40	QPSK	100	0	16.36	16.50	16.48	17.5	0.0	
40	16QAM	1	1	16.46	16.56	16.43	17.5	0.0	
40	64QAM	1	1	16.47	16.52	16.48	17.5	0.0	
40	256QAM	1	1	16.43	16.53	16.49	17.5	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	16.43	16.40	16.43	17.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.44	16.49	16.42	17.5	0.0	
Channel				515502	519000	522500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	16.48	16.53	16.45	17.5	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	16.40	16.48	16.41	17.5	0.0	

n38_Ant 31									
BW (MHz)	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)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	22.83	22.96	22.82			
40	PI2 BPSK	1	53	22.86	22.86	22.85	24.0	0.0	
40	PI2 BPSK	1	104	22.93	22.90	22.88			
40	PI2 BPSK	50	0	22.92	22.93	22.91	24.0	0.0	
40	PI2 BPSK	50	28	22.90	22.95	22.78	24.0	0.0	
40	PI2 BPSK	50	56	22.87	22.86	22.88	24.0	0.0	
40	PI2 BPSK	100	0	22.93	22.94	22.93			
40	QPSK	1	1	22.95	23.00	22.94			
40	QPSK	1	53	22.91	22.90	22.90	24.0	0.0	
40	QPSK	1	104	22.92	22.96	22.89			
40	QPSK	50	0	22.25	22.20	22.25	23.5	0.5	
40	QPSK	50	28	22.23	22.28	22.21	24.0	0.0	
40	QPSK	50	56	22.29	22.34	22.25			
40	QPSK	100	0	22.22	22.28	22.21	23.5	0.5	
40	16QAM	1	1	22.30	22.28	22.21	23.5	0.5	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.0	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.92	22.94	22.93	24.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.86	22.84	22.84	24.0	0.0	
Channel				515502	519000	522500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.82	22.96	22.81	24.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.89	22.87	22.79	24.0	0.0	



FCC_n41_Ant 11									
BW (MHz)	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	19.37	19.50	19.48			
100	PI2 BPSK	1	137	19.25	19.54	19.43	20.5	0.0	
100	PI2 BPSK	1	271	19.40	19.39	19.39			
100	PI2 BPSK	135	0	19.34	19.41	19.36	20.5	0.0	
100	PI2 BPSK	135	69	19.39	19.47	19.40	20.5	0.0	
100	PI2 BPSK	135	138	19.28	19.49	19.41	20.5	0.0	
100	PI2 BPSK	270	0	19.30	19.35	19.47			
100	QPSK	1	1	19.34	19.35	19.33			
100	QPSK	1	137	19.30	19.41	19.31	20.5	0.0	
100	QPSK	1	271	19.33	19.47	19.53			
100	QPSK	135	0	19.30	19.46	19.41	20.5	0.0	
100	QPSK	135	69	19.42	19.49	19.47	20.5	0.0	
100	QPSK	135	138	19.45	19.36	19.35	20.5	0.0	
100	QPSK	270	0	19.30	19.43	19.43	20.5	0.0	
100	16QAM	1	1	19.32	19.46	19.43	20.5	0.0	
100	64QAM	1	1	19.30	19.50	19.39	20.5	0.0	
100	256QAM	1	1	19.27	19.44	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.30	19.41	19.40	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.32	19.48	19.49	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.29	19.39	19.38	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.22	19.39	19.32	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.33	19.46	19.34	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.21	19.41	19.33	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.28	19.49	19.32	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.21	19.41	19.42	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.26	19.40	19.31	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.26	19.42	19.38	20.5	0.0	

FCC_n41_Ant 13									
BW (MHz)	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	18.53	18.59	18.43			
100	PI2 BPSK	1	137	18.48	18.47	18.36	17.5	0.0	
100	PI2 BPSK	1	271	18.48	18.48	18.40			
100	PI2 BPSK	135	0	18.44	18.48	18.45	17.5	0.0	
100	PI2 BPSK	135	69	18.52	18.49	18.45	17.5	0.0	
100	PI2 BPSK	135	138	18.49	18.53	18.47	17.5	0.0	
100	PI2 BPSK	270	0	18.44	18.57	18.41			
100	QPSK	1	1	18.57	18.53	18.52			
100	QPSK	1	137	18.47	18.57	18.36	17.5	0.0	
100	QPSK	1	271	18.53	18.56	18.37			
100	QPSK	135	0	18.45	18.49	18.28	17.5	0.0	
100	QPSK	135	69	18.49	18.54	18.47	17.5	0.0	
100	QPSK	135	138	18.45	18.48	18.40	17.5	0.0	
100	QPSK	270	0	18.42	18.49	18.43	17.5	0.0	
100	16QAM	1	1	18.47	18.49	18.47	17.5	0.0	
100	64QAM	1	1	18.45	18.54	18.37	17.5	0.0	
100	256QAM	1	1	18.42	18.53	18.46	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.51	18.52	18.40	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.45	18.47	18.48	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.43	18.48	18.39	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.45	18.56	18.39	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.41	18.57	18.39	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.53	18.56	18.42	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.49	18.55	18.36	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.45	18.57	18.43	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.45	18.51	18.44	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.42	18.56	18.48	17.5	0.0	

FCC_n41_Ant 31									
BW (MHz)	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	21.74	21.85	21.77			
100	PI2 BPSK	1	137	21.79	21.86	21.82	23.0	0.0	
100	PI2 BPSK	1	271	21.77	21.83	21.78			
100	PI2 BPSK	135	0	21.85	21.83	21.84	23.0	0.0	
100	PI2 BPSK	135	69	21.77	21.80	21.78	23.0	0.0	
100	PI2 BPSK	135	138	21.83	21.81	21.75	23.0	0.0	
100	PI2 BPSK	270	0	21.81	21.87	21.73			
100	QPSK	1	1	21.78	21.85	21.78			
100	QPSK	1	137	21.88	21.90	21.73	23.0	0.0	
100	QPSK	1	271	21.78	21.83	21.79			
100	QPSK	135	0	21.75	21.83	21.74	23.0	0.0	
100	QPSK	135	69	21.88	21.90	21.73	23.0	0.0	
100	QPSK	135	138	21.81	21.85	21.72	23.0	0.0	
100	QPSK	270	0	21.78	21.88	21.74	23.0	0.0	
100	16QAM	1	1	21.82	21.91	21.77	23.0	0.0	
100	64QAM	1	1	21.22	21.26	21.20	22.5	0.5	
100	256QAM	1	1	19.28	19.25	19.25	20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.84	21.87	21.73	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.74	21.86	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.80	21.88	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.80	21.84	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.82	21.81	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.75	21.91	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.80	21.85	21.72	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.83	21.80	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.75	21.91	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.85	21.84	21.80	23.0	0.0	



Part27Q_n77_Ant 11

BW (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch./Freq.	Power Masks Ch./Freq.	Power Flgts Ch./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.89				
100	PI2 BPSK	1	137	18.76			20.0	0.0
100	PI2 BPSK	1	271	18.81				
100	PI2 BPSK	135	0	18.74			20.0	0.0
100	PI2 BPSK	135	66	18.76			20.0	0.0
100	PI2 BPSK	135	138	18.73			20.0	0.0
100	PI2 BPSK	270	0	18.73				
100	QPSK	1	1	18.92				
100	QPSK	1	137	18.84			20.0	0.0
100	QPSK	1	271	18.90				
100	QPSK	135	0	18.78			20.0	0.0
100	QPSK	135	66	18.81			20.0	0.0
100	QPSK	135	138	18.80			20.0	0.0
100	QPSK	270	0	18.77			20.0	0.0
100	QPSK	1	1	18.76			20.0	0.0
100	HQAM	1	1	18.78			20.0	0.0
100	HQAM	1	1	18.74			18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83300	83332	83368	Turn-up time (min)	MPR (dB)
50	QPSK	1	1	83300	83332	83368	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.91	18.84	18.87	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.89	18.86	18.84	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.82	18.85	18.88	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.82	18.85	18.88	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.82	18.85	18.88	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.84	18.84	18.84	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.80	18.80	18.80	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.81	18.82	18.83	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.81	18.81	18.81	20.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch./Freq.	Power Masks Ch./Freq.	Power Flgts Ch./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.71	18.83	18.68		
100	PI2 BPSK	1	137	18.67	18.82	18.53	20.0	0.0
100	PI2 BPSK	1	271	18.81	18.88	18.58		
100	PI2 BPSK	135	0	18.67	18.71	18.43	20.0	0.0
100	PI2 BPSK	135	66	18.73	18.77	18.54	20.0	0.0
100	PI2 BPSK	135	138	18.69	18.78	18.53	20.0	0.0
100	PI2 BPSK	270	0	18.67	18.69	18.53		
100	QPSK	1	1	18.82	18.82	18.82		
100	QPSK	1	137	18.75	18.82	18.62	20.0	0.0
100	QPSK	1	271	18.77	18.84	18.52		
100	QPSK	135	0	18.71	18.82	18.54	20.0	0.0
100	QPSK	135	66	18.73	18.84	18.54	20.0	0.0
100	QPSK	135	138	18.62	18.82	18.60	20.0	0.0
100	QPSK	270	0	18.71	18.76	18.51	20.0	0.0
100	QPSK	1	1	18.71	18.82	18.51	20.0	0.0
100	HQAM	1	1	18.71	18.81	18.56	20.0	0.0
100	HQAM	1	1	18.53	18.38	18.24	18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	84934	84930	84936	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.77	18.82	18.58	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.74	18.82	18.61	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.80	18.80	18.80	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.73	18.69	18.43	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.76	18.85	18.54	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.78	18.87	18.62	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.83	18.70	18.55	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.73	18.84	18.62	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.75	18.87	18.53	20.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch./Freq.	Power Masks Ch./Freq.	Power Flgts Ch./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.81				
100	PI2 BPSK	1	138	18.78			20.0	0.0
100	PI2 BPSK	1	271	18.83				
100	PI2 BPSK	135	0	18.72			20.0	0.0
100	PI2 BPSK	135	66	18.78			20.0	0.0
100	PI2 BPSK	135	138	18.78			20.0	0.0
100	PI2 BPSK	270	0	18.82				
100	QPSK	1	1	18.82				
100	QPSK	1	138	18.82			20.0	0.0
100	QPSK	1	271	18.82				
100	QPSK	135	0	18.80			20.0	0.0
100	QPSK	135	66	18.82			20.0	0.0
100	QPSK	135	138	18.82			20.0	0.0
100	QPSK	270	0	18.78			20.0	0.0
100	HQAM	1	1	18.82			20.0	0.0
100	HQAM	1	1	18.69			19.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	83300	83332	83368	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.81	18.76	18.76	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.81	18.88	18.82	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.88	18.82	18.82	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.80	18.74	18.50	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.80	18.80	18.80	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.80	18.87	18.82	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.88	18.80	18.88	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.88	18.87	18.87	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.84	18.82	18.82	20.0	0.0

Part27O_n77_Ant 12

BW (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch./Freq.	Power Masks Ch./Freq.	Power Flgts Ch./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.82	18.83	18.84		
100	PI2 BPSK	1	138	18.82	18.78	18.81	20.0	0.0
100	PI2 BPSK	1	271	18.83	18.80	18.87		
100	PI2 BPSK	135	0	18.82	18.82	18.82	20.0	0.0
100	PI2 BPSK	135	66	18.82	18.82	18.82	20.0	0.0
100	PI2 BPSK	135	138	18.84	18.73	18.83	20.0	0.0
100	PI2 BPSK	270	0	18.82	18.82	18.82		
100	QPSK	1	1	18.82	18.82	18.82		
100	QPSK	1	138	18.82	18.82	18.82	20.0	0.0
100	QPSK	1	271	18.82	18.82	18.82		
100	QPSK	135	0	18.80	18.80	18.80	20.0	0.0
100	QPSK	135	66	18.82	18.82	18.82	20.0	0.0
100	QPSK	135	138	18.82	18.82	18.82	20.0	0.0
100	QPSK	270	0	18.82	18.82	18.82	20.0	0.0
100	HQAM	1	1	18.82	18.82	18.82	20.0	0.0
100	HQAM	1	1	18.82	18.82	18.82	20.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	84934	84930	84936	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.82	18.81	18.81	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.89	18.86	18.84	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.84	18.82	18.82	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.80	18.80	18.80	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.80	18.80	18.80	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.80	18.80	18.80	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.88	18.85	18.85	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.84	18.84	18.84	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.87	18.83	18.83	20.0	0.0



Part27Q_n77_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
100	PB2 BPSK	1	1	17.84	17.84	17.84	18.5	0.0		
Frequency (MHz)										
100	PB2 BPSK	1	1	17.83	17.83	17.83	18.5	0.0		
100	PB2 BPSK	1	271	17.77	17.84	17.81	18.5	0.0		
100	PB2 BPSK	135	5	17.85	17.85	17.85	18.5	0.0		
100	PB2 BPSK	135	138	17.78	17.85	17.82	18.5	0.0		
100	PB2 BPSK	270	5	17.82	17.84	17.86	18.5	0.0		
100	QPSK	1	1	17.84	17.84	17.84	18.5	0.0		
100	QPSK	1	137	17.87	17.87	17.87	18.5	0.0		
100	QPSK	1	271	17.81	17.84	17.87	18.5	0.0		
100	QPSK	135	5	17.89	17.89	17.89	18.5	0.0		
100	QPSK	135	88	17.82	17.82	17.82	18.5	0.0		
100	QPSK	135	138	17.84	17.84	17.84	18.5	0.0		
100	QPSK	270	5	17.85	17.85	17.85	18.5	0.0		
100	QPSK	270	9	17.82	17.82	17.82	18.5	0.0		
100	4QAM	1	1	17.87	17.87	17.87	18.5	0.0		
100	4QAM	1	1	17.83	17.83	17.83	18.5	0.0		
Channel										
80	QPSK	1	1	17.80	17.80	17.80	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.80	17.80	17.80	18.5	0.0		
Channel										
80	QPSK	1	1	17.82	17.82	17.82	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.82	17.82	17.82	18.5	0.0		
Channel										
70	QPSK	1	1	17.88	17.88	17.88	18.5	0.0		
Frequency (MHz)										
70	QPSK	1	1	17.88	17.88	17.88	18.5	0.0		
Channel										
80	QPSK	1	1	17.84	17.84	17.84	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.84	17.84	17.84	18.5	0.0		
Channel										
80	QPSK	1	1	17.85	17.85	17.85	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.85	17.85	17.85	18.5	0.0		
Channel										
80	QPSK	1	1	17.86	17.86	17.86	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.86	17.86	17.86	18.5	0.0		
Channel										
80	QPSK	1	1	17.87	17.87	17.87	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.87	17.87	17.87	18.5	0.0		
Channel										
80	QPSK	1	1	17.88	17.88	17.88	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.88	17.88	17.88	18.5	0.0		
Channel										
80	QPSK	1	1	17.89	17.89	17.89	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.89	17.89	17.89	18.5	0.0		
Channel										
80	QPSK	1	1	17.90	17.90	17.90	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.90	17.90	17.90	18.5	0.0		
Channel										
80	QPSK	1	1	17.91	17.91	17.91	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.91	17.91	17.91	18.5	0.0		
Channel										
80	QPSK	1	1	17.92	17.92	17.92	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.92	17.92	17.92	18.5	0.0		
Channel										
80	QPSK	1	1	17.93	17.93	17.93	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.93	17.93	17.93	18.5	0.0		
Channel										
80	QPSK	1	1	17.94	17.94	17.94	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.94	17.94	17.94	18.5	0.0		
Channel										
80	QPSK	1	1	17.95	17.95	17.95	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.95	17.95	17.95	18.5	0.0		
Channel										
80	QPSK	1	1	17.96	17.96	17.96	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.96	17.96	17.96	18.5	0.0		
Channel										
80	QPSK	1	1	17.97	17.97	17.97	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.97	17.97	17.97	18.5	0.0		
Channel										
80	QPSK	1	1	17.98	17.98	17.98	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.98	17.98	17.98	18.5	0.0		
Channel										
80	QPSK	1	1	17.99	17.99	17.99	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	17.99	17.99	17.99	18.5	0.0		
Channel										
80	QPSK	1	1	18.00	18.00	18.00	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.00	18.00	18.00	18.5	0.0		
Channel										
80	QPSK	1	1	18.01	18.01	18.01	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.01	18.01	18.01	18.5	0.0		
Channel										
80	QPSK	1	1	18.02	18.02	18.02	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.02	18.02	18.02	18.5	0.0		
Channel										
80	QPSK	1	1	18.03	18.03	18.03	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.03	18.03	18.03	18.5	0.0		
Channel										
80	QPSK	1	1	18.04	18.04	18.04	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.04	18.04	18.04	18.5	0.0		
Channel										
80	QPSK	1	1	18.05	18.05	18.05	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.05	18.05	18.05	18.5	0.0		
Channel										
80	QPSK	1	1	18.06	18.06	18.06	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.06	18.06	18.06	18.5	0.0		
Channel										
80	QPSK	1	1	18.07	18.07	18.07	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.07	18.07	18.07	18.5	0.0		
Channel										
80	QPSK	1	1	18.08	18.08	18.08	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.08	18.08	18.08	18.5	0.0		
Channel										
80	QPSK	1	1	18.09	18.09	18.09	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.09	18.09	18.09	18.5	0.0		
Channel										
80	QPSK	1	1	18.10	18.10	18.10	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.10	18.10	18.10	18.5	0.0		
Channel										
80	QPSK	1	1	18.11	18.11	18.11	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.11	18.11	18.11	18.5	0.0		
Channel										
80	QPSK	1	1	18.12	18.12	18.12	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.12	18.12	18.12	18.5	0.0		
Channel										
80	QPSK	1	1	18.13	18.13	18.13	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.13	18.13	18.13	18.5	0.0		
Channel										
80	QPSK	1	1	18.14	18.14	18.14	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.14	18.14	18.14	18.5	0.0		
Channel										
80	QPSK	1	1	18.15	18.15	18.15	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.15	18.15	18.15	18.5	0.0		
Channel										
80	QPSK	1	1	18.16	18.16	18.16	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.16	18.16	18.16	18.5	0.0		
Channel										
80	QPSK	1	1	18.17	18.17	18.17	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.17	18.17	18.17	18.5	0.0		
Channel										
80	QPSK	1	1	18.18	18.18	18.18	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.18	18.18	18.18	18.5	0.0		
Channel										
80	QPSK	1	1	18.19	18.19	18.19	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.19	18.19	18.19	18.5	0.0		
Channel										
80	QPSK	1	1	18.20	18.20	18.20	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.20	18.20	18.20	18.5	0.0		
Channel										
80	QPSK	1	1	18.21	18.21	18.21	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.21	18.21	18.21	18.5	0.0		
Channel										
80	QPSK	1	1	18.22	18.22	18.22	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.22	18.22	18.22	18.5	0.0		
Channel										
80	QPSK	1	1	18.23	18.23	18.23	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.23	18.23	18.23	18.5	0.0		
Channel										
80	QPSK	1	1	18.24	18.24	18.24	18.5	0.0		
Frequency (MHz)										
80	QPSK	1	1	18.24	18.24	18.24	18.5	0.0		



Reduced Power Mode for DSI 8

n2_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (37200)	Power High Ch. Freq. (37600)	Power Mid Ch. Freq. (37400)	Power Pwr. Ch. Freq. (37400)	Turn-up time (dBm)	MFR (dB)
20	PB-SSB	1	1	15.84	15.80	15.84			
20	PB-SSB	1	53	15.71	15.86	15.86		17.5	0.0
20	PB-SSB	1	104	15.50	15.97	15.86			
20	PB-SSB	50	0	15.70	15.82	15.86		17.5	0.0
20	PB-SSB	50	56	15.64	15.75	15.72		17.5	0.0
20	PB-SSB	100	0	15.73	15.83	15.75		17.5	0.0
20	QPSK	1	1	15.70	15.80	15.75			
20	QPSK	1	53	15.82	15.86	15.80		17.5	0.0
20	QPSK	1	104	15.48	15.81	15.80			
20	QPSK	50	0	15.73	15.81	15.75		17.5	0.0
20	QPSK	50	56	15.69	15.81	15.75		17.5	0.0
20	QPSK	100	0	15.73	15.81	15.75		17.5	0.0
20	QPSK	100	56	15.61	15.83	15.81		17.5	0.0
20	16QAM	1	1	15.82	15.79	15.75		17.5	0.0
20	16QAM	1	53	15.70	15.87	15.77		17.5	0.0
10	QPSK	1	1	15.83	15.80	15.80		17.5	0.0
10	QPSK	1	53	15.70	15.86	15.80		17.5	0.0
10	QPSK	1	104	15.49	15.80	15.80			
10	QPSK	50	0	15.73	15.80	15.75		17.5	0.0
10	QPSK	50	56	15.69	15.80	15.75		17.5	0.0
10	QPSK	100	0	15.73	15.80	15.75		17.5	0.0
10	QPSK	100	56	15.61	15.82	15.80		17.5	0.0
5	QPSK	1	1	15.87	15.84	15.86		17.5	0.0

n2_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (37200)	Power High Ch. Freq. (37600)	Power Mid Ch. Freq. (37400)	Power Pwr. Ch. Freq. (37400)	Turn-up time (dBm)	MFR (dB)
20	PB-SSB	1	1	15.80	15.86	15.84			
20	PB-SSB	1	53	15.62	15.91	15.84		18.5	0.0
20	PB-SSB	1	104	15.77	15.83	15.80			
20	PB-SSB	50	0	15.77	15.82	15.82		18.5	0.0
20	PB-SSB	50	56	15.68	15.82	15.82		18.5	0.0
20	PB-SSB	100	0	15.73	15.84	15.81		18.5	0.0
20	QPSK	1	1	15.70	15.75	15.75			
20	QPSK	1	53	15.83	15.84	15.80		18.5	0.0
20	QPSK	1	104	15.49	15.80	15.81			
20	QPSK	50	0	15.82	15.82	15.82		18.5	0.0
20	QPSK	50	56	15.62	15.82	15.82		18.5	0.0
20	QPSK	100	0	15.82	15.82	15.82		18.5	0.0
20	QPSK	100	56	15.61	15.82	15.82		18.5	0.0
20	16QAM	1	1	15.81	15.84	15.82		18.5	0.0
20	16QAM	1	53	15.81	15.82	15.83		18.5	0.0
10	QPSK	1	1	15.87	15.80	15.80		18.5	0.0
10	QPSK	1	53	15.70	15.86	15.80		18.5	0.0
10	QPSK	1	104	15.49	15.80	15.80			
10	QPSK	50	0	15.73	15.80	15.75		18.5	0.0
10	QPSK	50	56	15.69	15.80	15.75		18.5	0.0
10	QPSK	100	0	15.73	15.80	15.75		18.5	0.0
10	QPSK	100	56	15.61	15.82	15.80		18.5	0.0
5	QPSK	1	1	15.87	15.84	15.86		18.5	0.0

n5_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (18600)	Power High Ch. Freq. (18720)	Power Mid Ch. Freq. (18660)	Power Pwr. Ch. Freq. (18660)	Turn-up time (dBm)	MFR (dB)
20	PB-SSB	1	1	23.81	23.71	23.82			
20	PB-SSB	1	53	23.54	23.81	23.82		25.0	0.0
20	PB-SSB	1	104	23.48	23.48	23.47			
20	PB-SSB	50	0	23.87	23.10	23.10		24.5	0.0
20	PB-SSB	50	56	23.51	23.68	23.68		24.5	0.0
20	PB-SSB	100	0	23.56	23.87	23.82		24.5	0.0
20	QPSK	1	1	23.12	23.13	23.13			
20	QPSK	1	53	23.37	23.80	23.50		25.0	0.0
20	QPSK	1	104	23.44	23.48	23.48			
20	QPSK	50	0	23.85	23.85	23.85		24.0	1.0
20	QPSK	50	56	23.50	23.80	23.40		25.0	0.0
20	QPSK	100	0	23.42	23.50	23.43		24.0	1.0
20	QPSK	100	56	23.34	23.38	23.48		24.0	1.0
20	16QAM	1	1	23.75	23.62	23.61		24.0	1.0
20	16QAM	1	53	23.41	23.45	23.42		23.5	2.5
20	16QAM	1	104	23.51	23.32	23.31		20.5	4.5
10	QPSK	1	1	23.75	23.62	23.62		24.0	1.0
10	QPSK	1	53	23.37	23.81	23.81		25.0	0.0
10	QPSK	1	104	23.44	23.48	23.48			
10	QPSK	50	0	23.87	23.10	23.10		24.5	0.0
10	QPSK	50	56	23.51	23.68	23.68		24.5	0.0
10	QPSK	100	0	23.56	23.87	23.82		24.5	0.0
5	QPSK	1	1	23.72	23.82	23.86		25.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (18600)	Power High Ch. Freq. (18720)	Power Mid Ch. Freq. (18660)	Power Pwr. Ch. Freq. (18660)	Turn-up time (dBm)	MFR (dB)
20	PB-SSB	1	1	23.43	23.40	23.46			
20	PB-SSB	1	53	23.42	23.40	23.37		25.0	0.0
20	PB-SSB	1	104	23.15	23.21	23.18			
20	PB-SSB	50	0	23.78	22.87	22.78		24.5	0.0
20	PB-SSB	50	56	23.31	23.34	23.34		25.0	0.0
20	PB-SSB	100	0	23.71	23.70	23.70		24.5	0.0
20	PB-SSB	100	56	23.75	22.85	22.78		24.5	0.0
20	QPSK	1	1	23.12	23.12	23.12			
20	QPSK	1	53	23.40	23.41	23.39		25.0	0.0
20	QPSK	1	104	23.16	23.20	23.11			
20	QPSK	50	0	23.78	22.50	22.28		24.0	1.0
20	QPSK	50	56	23.30	23.30	23.30		25.0	0.0
20	QPSK	100	0	23.42	23.50	23.43		24.0	1.0
20	QPSK	100	56	23.24	23.25	23.25		24.0	1.0
20	16QAM	1	1	23.46	23.40	23.43		24.0	1.0
20	16QAM	1	53	23.12	23.10	23.03		22.5	2.5
20	16QAM	1	104	23.04	23.10	23.08		20.5	4.5
10	QPSK	1	1	23.42	23.42	23.42		24.0	1.0
10	QPSK	1	53	23.37	23.81	23.81		25.0	0.0
10	QPSK	1	104	23.44	23.48	23.48			
10	QPSK	50	0	23.87	23.10	23.10		24.5	0.0
10	QPSK	50	56	23.51	23.68	23.68		24.5	0.0
10	QPSK	100	0	23.56	23.87	23.82		24.5	0.0
5	QPSK	1	1	23.41	23.50	23.36		25.0	0.0



n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
40	PIC2BPSK	1	1	17.16	17.32	17.23			
40	PIC2BPSK	1	108	17.14	17.18	17.22	18.5	0.0	
40	PIC2BPSK	1	214	17.11	17.28	17.14			
40	PIC2BPSK	108	0	17.04	17.18	17.07	18.5	0.0	
40	PIC2BPSK	108	54	17.06	17.26	17.16	18.5	0.0	
40	PIC2BPSK	108	108	16.94	17.17	17.09	18.5	0.0	
40	PIC2BPSK	216	0	16.95	17.18	17.02			
40	QPSK	1	1	17.24	17.33	17.29			
40	QPSK	1	108	17.18	17.26	17.23	18.5	0.0	
40	QPSK	1	214	17.14	17.22	17.20			
40	QPSK	108	0	17.07	17.23	17.14	18.5	0.0	
40	QPSK	108	54	17.05	17.29	17.15	18.5	0.0	
40	QPSK	108	108	17.04	17.28	17.15	18.5	0.0	
40	QPSK	216	0	17.04	17.22	17.11			
40	8QAM	1	1	17.08	17.26	17.13	18.5	0.0	
40	8QAM	1	1	17.05	17.21	17.09	18.5	0.0	
40	25QAM	1	1	17.11	17.24	17.14	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.22	17.23	17.23	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.13	17.25	17.15	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.12	17.23	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
18	QPSK	1	1	17.14	17.25	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.13	17.23	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.11	17.21	17.11	18.5	0.0	

n7_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
40	PIC2BPSK	1	1	13.48	13.54	13.47			
40	PIC2BPSK	1	108	13.42	13.46	13.43	14.5	0.0	
40	PIC2BPSK	1	214	13.47	13.45	13.39			
40	PIC2BPSK	108	0	13.33	13.42	13.31	14.5	0.0	
40	PIC2BPSK	108	54	13.44	13.46	13.46	14.5	0.0	
40	PIC2BPSK	108	108	13.40	13.41	13.43	14.5	0.0	
40	PIC2BPSK	216	0	13.34	13.51	13.44			
40	QPSK	1	1	13.32	13.52	13.39			
40	QPSK	1	108	13.32	13.52	13.54	14.5	0.0	
40	QPSK	1	214	13.46	13.42	13.41			
40	QPSK	108	0	13.41	13.45	13.32	14.5	0.0	
40	QPSK	108	54	13.50	13.50	13.50	14.5	0.0	
40	QPSK	108	108	13.48	13.45	13.32	14.5	0.0	
40	QPSK	216	0	13.39	13.52	13.51			
40	16QAM	1	1	13.42	13.48	13.39	14.5	0.0	
40	8QAM	1	1	13.41	13.48	13.40	14.5	0.0	
40	25QAM	1	1	13.48	13.49	13.32	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.43	13.43	13.43	14.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.44	13.45	13.46	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.45	13.52	13.47	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.47	13.52	13.44	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.46	13.42	13.44	14.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	13.47	13.48	13.30	14.5	0.0	

n7_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
40	PIC2BPSK	1	1	21.56	21.61	21.58			
40	PIC2BPSK	1	108	21.53	21.59	21.48	23.0	0.0	
40	PIC2BPSK	1	214	21.45	21.49	21.54			
40	PIC2BPSK	108	0	21.38	21.58	21.38	23.0	0.0	
40	PIC2BPSK	108	54	21.42	21.49	21.46	23.0	0.0	
40	PIC2BPSK	108	108	21.39	21.43	21.47	23.0	0.0	
40	PIC2BPSK	216	0	21.41	21.65	21.35			
40	QPSK	1	1	21.59	21.60	21.51			
40	QPSK	1	108	21.56	21.61	21.53	23.0	0.0	
40	QPSK	1	214	21.56	21.46	21.56			
40	QPSK	108	0	21.48	21.60	21.44	23.0	0.0	
40	QPSK	108	54	21.49	21.62	21.54	23.0	0.0	
40	QPSK	108	108	21.39	21.59	21.51	23.0	0.0	
40	QPSK	216	0	21.42	21.60	21.46			
40	16QAM	1	1	21.46	21.42	21.42	23.0	0.0	
40	8QAM	1	1	21.38	21.54	21.37	21.5	1.5	
40	25QAM	1	1	21.44	21.42	21.54	19.5	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.53	21.53	21.53	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.53	21.53	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.49	21.54	21.54	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.54	21.61	21.53	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.51	21.62	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.56	21.64	21.54	23.0	0.0	

n26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
Channel									
20	PIC2BPSK	1	1	34.03	34.04	34.04			
20	PIC2BPSK	1	53	33.94	33.97	33.91	25.0	0.0	
20	PIC2BPSK	1	104	33.95	33.96	33.91			
20	PIC2BPSK	53	0	33.39	33.91	33.38	24.0	0.0	
20	PIC2BPSK	53	26	33.38	33.99	33.44	24.0	0.0	
20	PIC2BPSK	53	56	33.43	33.54	33.47	24.0	0.0	
20	PIC2BPSK	100	0	33.37	33.45	33.38			
20	QPSK	1	1	33.92	33.98	33.91			
20	QPSK	1	53	33.87	33.98	33.91	25.0	0.0	
20	QPSK	1	104	33.92	33.98	33.91			
20	QPSK	53	0	33.25	33.91	33.83	24.0	1.0	
20	QPSK	53	26	33.26	33.95	33.85	25.0	0.0	
20	QPSK	53	56	33.31	33.90	33.89	24.0	1.0	
20	16QAM	1	1	33.72	33.73	33.69	24.0	0.0	
20	8QAM	1	1	33.20	33.66	33.52	22.5	2.5	
20	25QAM	1	1	33.54	33.59	33.53	20.0	4.5	
Channel									
Frequency (MHz)									
18	QPSK	1	1	33.94	33.97	33.93	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	33.92	33.98	33.94	25.0	0.0	
Channel									
Frequency (MHz)									
1	QPSK	1	1	33.94	34.04	33.95	25.0	0.0	



n38_Ant 11									
BW (MHz)	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)									
40	PI2 BPSK	1	1	17.24	17.34	17.32			
40	PI2 BPSK	1	53	17.31	17.44	17.34	18.5	0.0	
40	PI2 BPSK	1	104	17.29	17.38	17.29			
40	PI2 BPSK	50	0	17.35	17.34	17.30	18.5	0.0	
40	PI2 BPSK	50	28	17.33	17.42	17.32	18.5	0.0	
40	PI2 BPSK	50	56	17.30	17.35	17.28			
40	PI2 BPSK	100	0	17.29	17.40	17.29	18.5	0.0	
40	QPSK	1	1	17.35	17.45	17.41			
40	QPSK	1	53	17.26	17.36	17.38	18.5	0.0	
40	QPSK	1	104	17.34	17.38	17.40			
40	QPSK	50	0	17.36	17.36	17.30	18.5	0.0	
40	QPSK	50	28	17.35	17.40	17.33	18.5	0.0	
40	QPSK	50	56	17.28	17.37	17.30			
40	QPSK	100	0	17.28	17.33	17.30	18.5	0.0	
40	16QAM	1	1	17.35	17.44	17.28	18.5	0.0	
40	64QAM	1	1	17.26	17.38	17.35	18.5	0.0	
40	256QAM	1	1	17.27	17.38	17.35	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.24	17.31	17.23	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.30	17.33	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.31	17.35	17.32	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.31	17.34	17.30	18.5	0.0	

n38_Ant 13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	13.89	13.92	13.91			
40	PI2 BPSK	1	53	13.85	13.95	13.95	15.0	0.0	
40	PI2 BPSK	1	104	13.91	13.98	13.94			
40	PI2 BPSK	50	0	13.80	13.97	13.92	15.0	0.0	
40	PI2 BPSK	50	28	13.83	13.94	13.94	15.0	0.0	
40	PI2 BPSK	50	56	13.91	13.91	13.92			
40	PI2 BPSK	100	0	13.86	13.95	13.90	15.0	0.0	
40	QPSK	1	1	13.95	14.04	13.95			
40	QPSK	1	53	13.88	13.99	13.98	15.0	0.0	
40	QPSK	1	104	13.80	13.90	13.83			
40	QPSK	50	0	13.81	13.93	13.95	15.0	0.0	
40	QPSK	50	28	13.91	13.98	13.95	15.0	0.0	
40	QPSK	50	56	13.81	13.88	13.89			
40	QPSK	100	0	13.85	13.95	13.84	15.0	0.0	
40	16QAM	1	1	13.81	13.91	13.83	15.0	0.0	
40	64QAM	1	1	13.83	13.95	13.87	15.0	0.0	
40	256QAM	1	1	13.84	13.93	13.83	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.86	13.95	13.93	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.80	13.92	13.83	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.84	13.94	13.93	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.82	13.90	13.86	15.0	0.0	

n38_Ant 31									
BW (MHz)	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)									
40	PI2 BPSK	1	1	22.83	22.96	22.82			
40	PI2 BPSK	1	53	22.86	22.86	22.85	24.0	0.0	
40	PI2 BPSK	1	104	22.93	22.90	22.88			
40	PI2 BPSK	50	0	22.92	22.93	22.91	24.0	0.0	
40	PI2 BPSK	50	28	22.90	22.95	22.78	24.0	0.0	
40	PI2 BPSK	50	56	22.87	22.86	22.88			
40	PI2 BPSK	100	0	22.93	22.94	22.93	24.0	0.0	
40	QPSK	1	1	22.95	23.00	22.94			
40	QPSK	1	53	22.91	22.90	22.90	24.0	0.0	
40	QPSK	1	104	22.92	22.96	22.89			
40	QPSK	50	0	22.25	22.20	22.25	23.5	0.5	
40	QPSK	50	28	22.23	22.28	22.21	24.0	0.0	
40	QPSK	50	56	22.25	22.34	22.25			
40	QPSK	100	0	22.22	22.28	22.21	23.5	0.5	
40	16QAM	1	1	22.30	22.28	22.21	23.5	0.5	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.0	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.83	22.96	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.86	22.84	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.82	22.96	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.89	22.87	22.79	24.0	0.0	



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BW (MHz)	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	17.99	17.98	17.98		
100	PI2 BPSK	1	137	17.89	17.88	17.89	19.0	0.0
100	PI2 BPSK	1	271	17.88	17.90	17.84		
100	PI2 BPSK	135	0	17.87	17.95	17.84	19.0	0.0
100	PI2 BPSK	135	69	17.91	17.88	17.92	19.0	0.0
100	PI2 BPSK	135	138	17.92	17.89	17.94	19.0	0.0
100	PI2 BPSK	270	0	17.98	17.97	17.95		
100	QPSK	1	1	18.03	18.04	18.03		
100	QPSK	1	137	17.91	17.97	17.95	19.0	0.0
100	QPSK	1	271	17.94	18.00	17.94		
100	QPSK	135	0	17.87	17.95	17.91	19.0	0.0
100	QPSK	135	69	17.91	17.88	17.94	19.0	0.0
100	QPSK	135	138	17.89	17.93	17.90	19.0	0.0
100	QPSK	270	0	17.98	17.99	17.90		
100	16QAM	1	1	17.90	17.91	17.88	19.0	0.0
100	64QAM	1	1	17.96	17.91	17.85	19.0	0.0
100	256QAM	1	1	17.98	17.95	17.88	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.41	22.92.99	22.44.88		
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.94	17.91	17.88	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.93	18.00	17.94	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.97	17.94	17.94	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.90	17.93	17.93	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.94	17.96	17.83	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.94	17.94	17.83	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.95	17.93	17.85	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.94	17.97	17.85	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.87	18.00	17.84	19.0	0.0

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BW (MHz)	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	13.99	14.02	13.99		
100	PI2 BPSK	1	137	13.97	14.02	14.01	15.0	0.0
100	PI2 BPSK	1	271	13.93	14.03	13.94		
100	PI2 BPSK	135	0	13.93	14.04	14.00	15.0	0.0
100	PI2 BPSK	135	69	13.97	14.06	14.00	15.0	0.0
100	PI2 BPSK	135	138	14.01	14.06	13.91	15.0	0.0
100	PI2 BPSK	270	0	13.96	13.99	13.92		
100	QPSK	1	1	14.08	14.10	14.05		
100	QPSK	1	137	13.98	13.98	14.02	15.0	0.0
100	QPSK	1	271	13.92	13.97	13.91		
100	QPSK	135	0	14.00	13.95	13.99	15.0	0.0
100	QPSK	135	69	14.01	14.05	14.01	15.0	0.0
100	QPSK	135	138	13.94	13.99	13.90	15.0	0.0
100	QPSK	270	0	13.92	14.01	13.92		
100	16QAM	1	1	14.00	14.01	13.96	15.0	0.0
100	64QAM	1	1	13.99	13.98	14.02	15.0	0.0
100	256QAM	1	1	14.01	14.03	13.91	15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.41	22.92.99	22.44.88		
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.03	14.05	13.99	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.02	14.04	13.98	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.04	13.99	13.90	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.97	14.00	13.92	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.03	14.04	13.93	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.97	13.94	13.99	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.98	14.05	14.01	15.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.00	14.02	13.95	15.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.00	13.96	13.91	15.0	0.0

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BW (MHz)	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	21.74	21.85	21.77		
100	PI2 BPSK	1	137	21.79	21.86	21.82	23.0	0.0
100	PI2 BPSK	1	271	21.77	21.83	21.78		
100	PI2 BPSK	135	0	21.85	21.83	21.84	23.0	0.0
100	PI2 BPSK	135	69	21.77	21.80	21.78	23.0	0.0
100	PI2 BPSK	135	138	21.83	21.81	21.75	23.0	0.0
100	PI2 BPSK	270	0	21.81	21.87	21.73		
100	QPSK	1	1	21.80	21.85	21.78		
100	QPSK	1	137	21.88	21.90	21.73	23.0	0.0
100	QPSK	1	271	21.78	21.83	21.79		
100	QPSK	135	0	21.75	21.83	21.74	23.0	0.0
100	QPSK	135	69	21.78	21.80	21.73	23.0	0.0
100	QPSK	135	138	21.81	21.85	21.72	23.0	0.0
100	QPSK	270	0	21.78	21.88	21.74		
100	16QAM	1	1	21.82	21.91	21.77	23.0	0.0
100	64QAM	1	1	21.22	21.26	21.20	22.5	0.5
100	256QAM	1	1	21.28	21.25	21.25	20.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.84	21.87	21.73	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.74	21.86	21.75	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.80	21.88	21.74	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.80	21.84	21.82	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.82	21.81	21.80	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.75	21.91	21.74	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.80	21.85	21.72	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.83	21.90	21.74	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.75	21.91	21.74	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.85	21.84	21.80	23.0	0.0



Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
100	PB2 BPSK	1	1	15.48	15.48	15.48	16.5	0.0	
100	PB2 BPSK	1	137	15.40	15.40	15.40	16.5	0.0	
100	PB2 BPSK	1	271	15.43	15.43	15.43	16.5	0.0	
100	PB2 BPSK	135	0	15.33	15.33	15.33	16.5	0.0	
100	PB2 BPSK	135	66	15.41	15.41	15.41	16.5	0.0	
100	PB2 BPSK	135	138	15.37	15.37	15.37	16.5	0.0	
100	PB2 BPSK	270	0	15.30	15.30	15.30	16.5	0.0	
100	QPSK	1	1	15.48	15.48	15.48	16.5	0.0	
100	QPSK	1	137	15.40	15.40	15.40	16.5	0.0	
100	QPSK	1	271	15.32	15.32	15.32	16.5	0.0	
100	QPSK	135	0	15.38	15.38	15.38	16.5	0.0	
100	QPSK	135	66	15.32	15.32	15.32	16.5	0.0	
100	QPSK	135	138	15.40	15.40	15.40	16.5	0.0	
100	QPSK	270	0	15.30	15.30	15.30	16.5	0.0	
100	QPSK	270	66	15.38	15.38	15.38	16.5	0.0	
100	HQAM	1	1	15.38	15.38	15.38	16.5	0.0	
100	HQAM	1	1	15.33	15.33	15.33	16.5	0.0	
Channel									
				63300	63332	63368		MPR	
				15.31	15.41	15.41		0.0	
50	QPSK	1	1	15.43	15.43	15.43	16.5	0.0	
Channel									
				63368	63332	63400		MPR	
				15.40	15.30	15.30		0.0	
80	QPSK	1	1	15.48	15.43	15.43	16.5	0.0	
Channel									
				63400	63332	63432		MPR	
				15.40	15.30	15.30		0.0	
70	QPSK	1	1	15.50	15.44	15.44	16.5	0.0	
Channel									
				63432	63332	63432		MPR	
				15.48	15.48	15.48		0.0	
60	QPSK	1	1	15.47	15.44	15.44	16.5	0.0	
Channel									
				63432	63332	63432		MPR	
				15.44	15.44	15.44		0.0	
50	QPSK	1	1	15.43	15.41	15.41	16.5	0.0	
Channel									
				63332	63332	63332		MPR	
				15.43	15.43	15.43		0.0	
40	QPSK	1	1	15.43	15.41	15.41	16.5	0.0	
Channel									
				63332	63332	63368		MPR	
				15.41	15.41	15.41		0.0	
30	QPSK	1	1	15.44	15.47	15.47	16.5	0.0	
Channel									
				63368	63332	63368		MPR	
				15.47	15.47	15.47		0.0	
20	QPSK	1	1	15.42	15.47	15.50	16.5	0.0	
Channel									
				63368	63332	63368		MPR	
				15.47	15.47	15.47		0.0	
15	QPSK	1	1	15.41	15.44	15.47	16.5	0.0	
Channel									
				63368	63332	63368		MPR	
				15.44	15.44	15.44		0.0	
10	QPSK	1	1	15.40	15.43	15.46	16.5	0.0	

Part270_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
100	PB2 BPSK	1	1	15.38	15.29	15.04	16.5	0.0	
100	PB2 BPSK	1	137	15.38	15.22	15.20	16.5	0.0	
100	PB2 BPSK	1	271	15.33	15.21	15.08	16.5	0.0	
100	PB2 BPSK	135	0	15.30	15.14	15.04	16.5	0.0	
100	PB2 BPSK	135	66	15.29	15.13	15.02	16.5	0.0	
100	PB2 BPSK	135	138	15.31	15.13	14.95	16.5	0.0	
100	PB2 BPSK	270	0	15.28	15.12	14.95	16.5	0.0	
100	QPSK	1	1	15.31	15.12	15.10	16.5	0.0	
100	QPSK	1	137	15.40	15.26	15.11	16.5	0.0	
100	QPSK	1	271	15.30	15.22	15.12	16.5	0.0	
100	QPSK	135	0	15.39	15.18	15.05	16.5	0.0	
100	QPSK	135	66	15.33	15.13	15.11	16.5	0.0	
100	QPSK	135	138	15.33	15.20	15.05	16.5	0.0	
100	QPSK	270	0	15.30	15.12	15.02	16.5	0.0	
100	QPSK	270	66	15.29	15.15	15.04	16.5	0.0	
100	HQAM	1	1	15.41	15.12	15.02	16.5	0.0	
100	HQAM	1	1	15.35	15.22	15.11	16.5	0.0	
Channel									
				64000	64000	64232		MPR	
				15.34	15.15	15.15		0.0	
50	QPSK	1	1	15.34	15.15	15.15	16.5	0.0	
Channel									
				64232	64000	64000		MPR	
				15.31	15.15	15.15		0.0	
80	QPSK	1	1	15.36	15.14	15.10	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.34	15.14	15.14		0.0	
70	QPSK	1	1	15.39	15.21	15.08	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.32	15.14	15.14		0.0	
60	QPSK	1	1	15.41	15.13	15.05	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.31	15.13	15.13		0.0	
50	QPSK	1	1	15.39	15.19	15.10	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.31	15.19	15.19		0.0	
40	QPSK	1	1	15.39	15.19	15.10	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.31	15.19	15.19		0.0	
30	QPSK	1	1	15.39	15.21	15.08	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.31	15.21	15.21		0.0	
20	QPSK	1	1	15.33	15.12	15.02	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.32	15.12	15.12		0.0	
15	QPSK	1	1	15.39	15.16	15.08	16.5	0.0	
Channel									
				64000	64000	64000		MPR	
				15.31	15.16	15.16		0.0	
10	QPSK	1	1	15.36	15.17	15.05	16.5	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
100	PB2 BPSK	1	1	17.27			18.0	0.0	
100	PB2 BPSK	1	139	17.28			18.0	0.0	
100	PB2 BPSK	1	273	17.28			18.0	0.0	
100	PB2 BPSK	135	0	17.25			18.0	0.0	
100	PB2 BPSK	135	66	17.25			18.0	0.0	
100	PB2 BPSK	135	138	17.32			18.0	0.0	
100	PB2 BPSK	270	0	17.28			18.0	0.0	
100	QPSK	1	1	17.27			18.0	0.0	
100	QPSK	1	139	17.28			18.0	0.0	
100	QPSK	1	273	17.28			18.0	0.0	
100	QPSK	135	0	17.32			18.0	0.0	
100	QPSK	135	66	17.25			18.0	0.0	
100	QPSK	135	138	17.25			18.0	0.0	
100	QPSK	270	0	17.25			18.0	0.0	
100	QPSK	270	66	17.25			18.0	0.0	
100	HQAM	1	1	17.28			18.0	0.0	
100	HQAM	1	1	17.23			18.0	0.0	
Channel									
				63300	63332	63368		MPR	
				17.25	17.25	17.25		0.0	
50	QPSK	1	1	17.25	17.25	17.25	18.0	0.0	
Channel									
				63368	63332	63400		MPR	
				17.28	17.28	17.28		0.0	
80	QPSK	1	1	17.34	17.28	17.28	18.0	0.0	
Channel									
				63332	63332	63432		MPR	
				17.28	17.28	17.28		0.0	
70	QPSK	1	1	17.32	17.28	17.28	18.0	0.0	
Channel									
				63400	63332	63432		MPR	
				17.28	17.28	17.28		0.0	
60	QPSK	1	1	17.32	17.28	17.28	18.0	0.0	
Channel									
				63432	63332	63432		MPR	
				17.28	17.28	17.28		0.0	
50	QPSK	1	1	17.34	17.28	17.28	18.0	0.0	
Channel									
				63332	63332	63332		MPR	
				17.34	17.34	17.34		0.0	
40	QPSK	1	1	17.32	17				



Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	18.78				20.0	0.0	
100	P12 BPSK	1	137	18.82						
100	P12 BPSK	1	273	18.81						
100	P12 BPSK	135	5	18.87				20.0	0.0	
100	P12 BPSK	135	98	18.82				20.0	0.0	
100	P12 BPSK	135	138	18.78				20.0	0.0	
100	P12 BPSK	270	5	18.82				20.0	0.0	
100	QPSK	1	1	18.82						
100	QPSK	1	137	18.78				20.0	0.0	
100	QPSK	1	273	18.77						
100	QPSK	135	5	18.80				20.0	0.0	
100	QPSK	135	98	18.82				20.0	0.0	
100	QPSK	135	138	18.78				20.0	0.0	
100	QPSK	270	5	18.82				20.0	0.0	
100	QPSK	270	9	18.87				20.0	0.0	
100	4QAM	1	1	18.82				20.0	0.0	
100	4QAM	1	1	18.74				20.0	0.0	
100	4QAM	1	1	18.78				20.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.81				20.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.42				20.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.53				20.0	0.0	
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.48				20.0	0.0	
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.44				20.0	0.0	
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.49				20.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.49				20.0	0.0	
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.48				20.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.52				20.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.52				20.0	0.0	

Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	18.83				20.0	0.0	
100	P12 BPSK	1	137	18.82						
100	P12 BPSK	1	273	18.80						
100	P12 BPSK	135	5	18.84				20.0	0.0	
100	P12 BPSK	135	98	18.82				20.0	0.0	
100	P12 BPSK	135	138	18.82				20.0	0.0	
100	P12 BPSK	270	5	18.82				20.0	0.0	
100	QPSK	1	1	18.82						
100	QPSK	1	137	18.82				20.0	0.0	
100	QPSK	1	273	18.81						
100	QPSK	135	5	18.80				20.0	0.0	
100	QPSK	135	98	18.82				20.0	0.0	
100	QPSK	135	138	18.82				20.0	0.0	
100	QPSK	270	5	18.82				20.0	0.0	
100	QPSK	270	9	18.87				20.0	0.0	
100	4QAM	1	1	18.82				20.0	0.0	
100	4QAM	1	1	18.74				20.0	0.0	
100	4QAM	1	1	18.78				20.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.83				20.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.43				20.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.52				20.0	0.0	
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.48				20.0	0.0	
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.47				20.0	0.0	
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.49				20.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.50				20.0	0.0	
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.54				20.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.52				20.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.52				20.0	0.0	

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	17.53				18.0	0.0	
100	P12 BPSK	1	137	17.52						
100	P12 BPSK	1	273	17.48						
100	P12 BPSK	135	5	17.54				18.0	0.0	
100	P12 BPSK	135	98	17.52				18.0	0.0	
100	P12 BPSK	135	138	17.45				18.0	0.0	
100	P12 BPSK	270	5	17.52				18.0	0.0	
100	QPSK	1	1	17.52						
100	QPSK	1	137	17.44				18.0	0.0	
100	QPSK	1	273	17.45						
100	QPSK	135	5	17.45				18.0	0.0	
100	QPSK	135	98	17.45				18.0	0.0	
100	QPSK	135	138	17.45				18.0	0.0	
100	QPSK	270	5	17.52				18.0	0.0	
100	QPSK	270	9	17.57				18.0	0.0	
100	4QAM	1	1	17.42				18.0	0.0	
100	4QAM	1	1	17.48				18.0	0.0	
100	4QAM	1	1	17.48				18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.52				18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.12				18.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.27				18.0	0.0	
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.24				18.0	0.0	
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.24				18.0	0.0	
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.21				18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.24				18.0	0.0	
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.22				18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.24				18.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.21				18.0	0.0	

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	17.44				18.0	0.0	
100	P12 BPSK	1	137	17.42						
100	P12 BPSK	1	273	17.44						
100	P12 BPSK	135	5	17.44				18.0	0.0	
100	P12 BPSK	135	98	17.42				18.0	0.0	
100	P12 BPSK	135	138	17.41				18.0	0.0	
100	P12 BPSK	270	5	17.42				18.0	0.0	
100	QPSK	1	1	17.42						
100	QPSK	1	137	17.42				18.0	0.0	
100	QPSK	1	273	17.42						
100	QPSK	135	5	17.42				18.0	0.0	
100	QPSK	135	98	17.42				18.0	0.0	
100	QPSK	135	138	17.42				18.0	0.0	
100	QPSK	270	5	17.42				18.0	0.0	
100	QPSK	270	9	17.47				18.0	0.0	
100	4QAM	1	1	17.42				18.0	0.0	
100	4QAM	1	1	17.44				18.0	0.0	
100	4QAM	1	1	17.44				18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.42				18.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.02				18.0	0.0	
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.17				18.0	0.0	
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.14				18.0	0.0	
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.14				18.0	0.0	
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.11				18.0	0.0	
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.14				18.0	0.0	
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.12				18.0	0.0	
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.14				18.0	0.0	
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.11				18.0	0.0	



Reduced Power Mode for DSI 9

n2_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	15.84	15.82	15.80	17.5	0.0		
20	PI2 BPSK	1	53	15.21	15.18	15.16				
20	PI2 BPSK	1	104	15.83	15.87	15.85				
Channel										
Frequency (MHz)										
20	PI2 BPSK	50	0	15.70	15.82	15.86	17.5	0.0		
20	PI2 BPSK	50	25	15.77	15.82	15.85	17.5	0.0		
20	PI2 BPSK	50	50	15.84	15.75	15.72	17.5	0.0		
20	PI2 BPSK	100	0	15.73	15.83	15.75				
20	QPSK	1	1	15.84	15.82	15.81				
20	QPSK	1	53	15.82	15.85	15.81	17.5	0.0		
20	QPSK	1	104	15.86	15.81	15.87	17.5	0.0		
20	QPSK	50	0	15.74	15.81	15.80	17.5	0.0		
20	QPSK	50	25	15.78	15.81	15.80	17.5	0.0		
20	QPSK	50	50	15.77	15.81	15.80	17.5	0.0		
20	QPSK	100	0	15.74	15.80	15.80				
20	QPSK	100	1	15.85	15.84	15.82	18.5	0.0		
20	QPSK	100	1	15.81	15.88	15.82	18.5	0.0		
20	SSBQAM	1	1	15.87	15.83	15.83	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.83	15.98	15.90	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.83	16.01	15.87	17.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	15.84	16.00	15.88	17.5	0.0		

n2_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	16.50	16.50	16.54	18.5	0.0		
20	PI2 BPSK	1	53	16.82	16.91	16.84				
20	PI2 BPSK	1	104	16.77	16.83	16.83				
Channel										
Frequency (MHz)										
20	PI2 BPSK	50	0	16.77	16.80	16.82	18.5	0.0		
20	PI2 BPSK	50	25	16.86	16.82	16.80	18.5	0.0		
20	PI2 BPSK	50	50	16.73	16.84	16.81	18.5	0.0		
20	PI2 BPSK	100	0	16.80	16.74	16.84				
20	QPSK	1	1	16.84	17.01	16.84				
20	QPSK	1	53	16.88	16.94	16.95	18.5	0.0		
20	QPSK	1	104	16.85	16.80	16.81	18.5	0.0		
20	QPSK	50	0	16.82	16.88	16.82	18.5	0.0		
20	QPSK	50	25	16.94	16.87	16.85	18.5	0.0		
20	QPSK	50	50	16.81	16.82	16.83	18.5	0.0		
20	QPSK	100	0	16.84	16.80	16.82				
20	QPSK	100	1	16.85	16.84	16.82	18.5	0.0		
20	SSBQAM	1	1	16.87	16.83	16.83	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.82	16.90	16.85	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.88	16.79	16.85	18.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.87	16.84	16.80	18.5	0.0		

n5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	23.81	23.77	23.82	25.0	0.0		
20	PI2 BPSK	1	56	23.54	23.61	23.57				
20	PI2 BPSK	1	104	23.45	23.48	23.47				
Channel										
Frequency (MHz)										
20	PI2 BPSK	50	0	23.67	23.70	23.70	25.0	0.0		
20	PI2 BPSK	50	28	23.51	23.55	23.55	25.0	0.0		
20	PI2 BPSK	50	56	23.58	23.67	23.62	24.5	0.5		
20	PI2 BPSK	100	0	23.72	23.70	23.71				
20	QPSK	1	1	23.82	23.82	23.71				
20	QPSK	1	53	23.57	23.60	23.59	25.0	0.0		
20	QPSK	1	104	23.44	23.46	23.38				
20	QPSK	50	0	23.65	23.69	23.65	24.0	1.0		
20	QPSK	50	28	23.76	23.66	23.78	25.0	1.0		
20	QPSK	50	56	23.42	23.50	23.43	24.0	1.0		
20	QPSK	100	0	23.54	23.59	23.48				
20	SSBQAM	1	1	23.75	23.62	23.81	24.0	1.0		
20	SSBQAM	1	1	23.41	23.45	23.42	22.5	2.5		
20	SSBQAM	1	1	16.31	16.30	16.31	25.0	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.76	23.65	23.70	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.78	23.77	23.81	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.72	23.82	23.66	25.0	0.0		

n5_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	23.43	23.49	23.48	25.0	0.0		
20	PI2 BPSK	1	56	23.43	23.46	23.37				
20	PI2 BPSK	1	104	23.35	23.21	23.19				
Channel										
Frequency (MHz)										
20	PI2 BPSK	50	0	23.78	23.67	23.76	24.0	0.5		
20	PI2 BPSK	50	28	23.51	23.54	23.52	23.5	0.0		
20	PI2 BPSK	50	56	23.71	23.75	23.73	24.5	0.5		
20	PI2 BPSK	100	0	23.75	23.65	23.76				
20	QPSK	1	1	23.52	23.52	23.44				
20	QPSK	1	53	23.48	23.43	23.33	25.0	0.0		
20	QPSK	1	104	23.38	23.39	23.17				
20	QPSK	50	0	23.23	23.29	23.29	24.0	1.0		
20	QPSK	50	28	23.55	23.53	23.54	25.0	0.0		
20	QPSK	50	56	23.58	23.19	23.17	24.0	1.0		
20	QPSK	100	0	23.24	23.25	23.25				
20	SSBQAM	1	1	23.58	23.50	23.51	24.0	1.0		
20	SSBQAM	1	1	23.02	23.10	23.03	22.5	2.5		
20	SSBQAM	1	1	16.44	16.10	16.06	25.0	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.42	23.50	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.43	23.53	23.47	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.41	23.50	23.39	25.0	0.0		



n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUS-BPSK	1	1	17.18	17.32	17.23		18.5	0.0
40	PUS-BPSK	1	168	17.14	17.16	17.23			
40	PUS-BPSK	1	214	17.11	17.28	17.14			
40	PUS-BPSK	108	0	17.04	17.18	17.07		18.5	0.0
40	PUS-BPSK	108	54	17.05	17.25	17.15		18.5	0.0
40	PUS-BPSK	108	108	16.94	17.17	17.09		18.5	0.0
40	PUS-BPSK	216	0	16.95	17.16	17.02			
40	QPSK	1	1	17.24	17.32	17.25			
40	QPSK	1	108	17.18	17.28	17.23		18.5	0.0
40	QPSK	1	214	17.15	17.32	17.23		18.5	0.0
40	QPSK	108	0	17.07	17.23	17.14		18.5	0.0
40	QPSK	108	54	17.07	17.25	17.15		18.5	0.0
40	QPSK	108	108	17.04	17.22	17.15		18.5	0.0
40	QPSK	216	0	17.04	17.22	17.11			
40	QPSK	1	1	17.08	17.28	17.13		18.5	0.0
40	MSAM	1	1	17.05	17.21	17.09		18.5	0.0
40	MSAM	1	1	17.11	17.24	17.14		18.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.05	20.08	20.07		18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.13	17.28	17.15		18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.12	17.23	17.13		18.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.14	17.26	17.11		18.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.13	17.23	17.13		18.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.11	17.27	17.15		18.5	0.0

n7_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUS-BPSK	1	1	13.48	13.54	13.47		14.5	0.0
40	PUS-BPSK	1	168	13.42	13.46	13.43			
40	PUS-BPSK	1	214	13.47	13.45	13.39			
40	PUS-BPSK	108	0	13.33	13.42	13.31		14.5	0.0
40	PUS-BPSK	108	54	13.44	13.45	13.36		14.5	0.0
40	PUS-BPSK	108	108	13.41	13.41	13.43		14.5	0.0
40	PUS-BPSK	216	0	13.34	13.35	13.44			
40	QPSK	1	1	13.42	13.52	13.45			
40	QPSK	1	108	13.39	13.39	13.54		14.5	0.0
40	QPSK	1	214	13.48	13.52	13.47		14.5	0.0
40	QPSK	108	0	13.41	13.45	13.52		14.5	0.0
40	QPSK	108	54	13.35	13.52	13.38		14.5	0.0
40	QPSK	108	108	13.48	13.45	13.52		14.5	0.0
40	QPSK	216	0	13.39	13.39	13.51			
40	MSAM	1	1	13.45	13.48	13.50		14.5	0.0
40	MSAM	1	1	13.41	13.48	13.45		14.5	0.0
40	MSAM	1	1	13.48	13.48	13.52		14.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.43	13.43	13.43		14.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.44	13.48	13.48		14.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.45	13.52	13.47		14.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.47	13.52	13.44		14.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.46	13.47	13.44		14.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	13.47	13.48	13.50		14.5	0.0

n7_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUS-BPSK	1	1	21.38	21.43	21.38		23.0	0.0
40	PUS-BPSK	1	168	21.32	21.38	21.45			
40	PUS-BPSK	1	214	21.42	21.42	21.54			
40	PUS-BPSK	108	0	21.38	21.46	21.38		23.0	0.0
40	PUS-BPSK	108	54	21.42	21.52	21.48		23.0	0.0
40	PUS-BPSK	108	108	21.29	21.42	21.47		23.0	0.0
40	PUS-BPSK	216	0	21.41	21.42	21.35			
40	QPSK	1	1	21.42	21.52	21.45			
40	QPSK	1	108	21.38	21.45	21.38		23.0	0.0
40	QPSK	1	214	21.39	21.52	21.38		23.0	0.0
40	QPSK	108	0	21.43	21.49	21.44		23.0	0.0
40	QPSK	108	54	21.35	21.52	21.34		23.0	0.0
40	QPSK	108	108	21.39	21.52	21.51		23.0	0.0
40	QPSK	216	0	21.42	21.42	21.46			
40	MSAM	1	1	21.48	21.52	21.43		23.0	0.0
40	MSAM	1	1	21.38	21.34	21.37		21.5	1.5
40	MSAM	1	1	21.44	21.42	21.34		16.5	3.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.17	20.17	20.16		23.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.38	21.52	21.52		23.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.49	21.54	21.54		23.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.54	21.45	21.53		23.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.53	21.52	21.52		23.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.50	21.54	21.54		23.0	0.0

n26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PUS-BPSK	1	1	24.43	24.59	24.34		25.0	0.0
20	PUS-BPSK	1	80	24.34	24.37	24.31			
20	PUS-BPSK	1	164	24.35	24.56	24.31			
20	PUS-BPSK	50	0	24.39	24.41	24.38		24.5	0.5
20	PUS-BPSK	50	80	24.36	24.59	24.34		25.0	0.0
20	PUS-BPSK	50	160	24.43	24.54	24.47		24.5	0.5
20	PUS-BPSK	100	0	24.37	24.45	24.35			
20	QPSK	1	1	24.32	24.58	24.32			
20	QPSK	1	50	24.37	24.46	24.31		25.0	1.0
20	QPSK	1	164	24.32	24.56	24.37		24.0	1.0
20	QPSK	50	0	24.38	24.41	24.33		24.0	1.0
20	QPSK	50	80	24.35	24.58	24.34		24.5	0.0
20	QPSK	50	160	24.31	24.59	24.32		24.0	1.0
20	QPSK	100	0	24.36	24.45	24.36			
20	MSAM	1	1	24.32	24.31	24.09		24.0	1.0
20	MSAM	1	1	24.50	24.46	24.32		22.5	2.5
20	MSAM	1	1	24.34	24.28	24.51		20.5	4.5
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.34	24.37	24.13		24.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.36	24.38	24.34		25.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.34	24.44	24.35		25.0	0.0



n26_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
30	PLV BPSK	1	1	23.70	23.78	23.87		20.0	0.0
30	PLV BPSK	1	104	23.83	23.91	24.00		20.0	0.0
30	PLV BPSK	1	104	23.85	23.94	24.03		20.0	0.0
30	PLV BPSK	10	0	23.97	24.05	24.14		20.0	0.0
30	PLV BPSK	30	0	23.98	24.06	24.15		20.0	0.0
30	PLV BPSK	50	0	23.94	24.03	24.12		20.0	0.0
30	PLV BPSK	100	0	23.90	23.99	24.08		20.0	0.0
30	QPSK	1	1	23.15	23.23	23.32		20.0	0.0
30	QPSK	1	104	23.88	23.97	24.06		20.0	0.0
30	QPSK	1	104	23.90	23.99	24.08		20.0	1.0
30	QPSK	30	0	22.89	22.97	23.06		20.0	0.0
30	QPSK	50	0	22.89	22.97	23.06		20.0	1.0
30	QPSK	100	0	22.98	23.06	23.15		20.0	0.0
30	ISDAM	1	1	22.70	22.81	22.90		20.0	1.0
30	ISDAM	1	1	21.29	21.40	21.50		22.5	2.5
30	ISDAM	1	1	18.04	18.20	18.36		20.0	4.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.87	23.91	23.95		20.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.70	23.78	23.87		20.0	0.0
Channel									
Frequency (MHz)									
3	QPSK	1	1	23.71	23.72	23.73		20.0	0.0

n66_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
40	PLV BPSK	1	1	18.34	18.37	18.39		20.0	0.0
40	PLV BPSK	1	104	18.30	18.38	18.46		20.0	0.0
40	PLV BPSK	1	214	18.22	18.34	18.41		20.0	0.0
40	PLV BPSK	100	0	18.85	18.96	19.07		20.0	0.0
40	PLV BPSK	100	0	18.95	19.07	19.19		20.0	0.0
40	PLV BPSK	100	108	18.89	18.95	18.97		20.0	0.0
40	PLV BPSK	216	0	18.90	18.96	18.94		20.0	0.0
40	QPSK	1	1	18.12	18.10	18.08		20.0	0.0
40	QPSK	1	104	18.32	18.38	18.37		20.0	0.0
40	QPSK	1	214	18.35	18.51	18.55		20.0	0.0
40	QPSK	100	0	18.90	18.93	18.96		20.0	0.0
40	QPSK	100	0	18.91	18.96	18.95		20.0	0.0
40	QPSK	100	108	18.87	18.91	18.87		20.0	0.0
40	QPSK	216	0	18.95	18.95	18.95		20.0	0.0
40	ISDAM	1	1	18.37	18.36	18.36		20.0	0.0
40	ISDAM	1	1	18.36	18.37	18.36		20.0	0.0
40	ISDAM	1	1	18.31	18.30	18.33		20.0	0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.72	17.64	17.65		20.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.97	19.01	18.95		20.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.00	18.59	18.87		20.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.31	18.84	18.65		20.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.72	17.64	17.72		20.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.37	18.45	18.51		20.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.94	18.94	18.94		20.0	0.0

n66_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
40	PLV BPSK	1	1	18.38	18.52	18.44		19.5	0.0
40	PLV BPSK	1	104	18.30	18.38	18.53		19.5	0.0
40	PLV BPSK	1	214	18.38	18.38	18.42		19.5	0.0
40	PLV BPSK	100	0	18.30	18.34	18.30		19.5	0.0
40	PLV BPSK	100	0	18.27	18.40	18.34		19.5	0.0
40	PLV BPSK	100	108	18.30	18.32	18.28		19.5	0.0
40	PLV BPSK	216	0	18.34	18.31	18.36		19.5	0.0
40	QPSK	1	1	18.42	18.23	18.21		19.5	0.0
40	QPSK	1	104	18.30	18.40	18.42		19.5	0.0
40	QPSK	1	214	18.42	18.40	18.45		19.5	0.0
40	QPSK	100	0	18.31	18.40	18.38		19.5	0.0
40	QPSK	100	0	18.30	18.41	18.38		19.5	0.0
40	QPSK	100	108	18.32	18.42	18.33		19.5	0.0
40	QPSK	216	0	18.38	18.41	18.35		19.5	0.0
40	ISDAM	1	1	18.30	18.40	18.30		19.5	0.0
40	ISDAM	1	1	18.35	18.28	18.34		19.5	0.0
40	ISDAM	1	1	18.30	18.41	18.33		19.5	0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.72	17.64	17.65		19.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.30	18.42	18.31		19.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.31	18.40	18.38		19.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.26	18.40	18.30		19.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.20	17.60	17.60		19.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.25	18.45	18.37		19.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.33	18.40	18.38		19.5	0.0

n66_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
40	PLV BPSK	1	1	20.83	20.71	20.74		22.0	0.0
40	PLV BPSK	1	104	20.80	20.70	20.75		22.0	0.0
40	PLV BPSK	1	214	20.80	20.82	20.81		22.0	0.0
40	PLV BPSK	100	0	20.84	20.81	20.81		22.0	0.0
40	PLV BPSK	100	0	20.88	20.79	20.82		22.0	0.0
40	PLV BPSK	100	108	20.87	20.73	20.88		22.0	0.0
40	PLV BPSK	216	0	20.76	20.87	20.85		22.0	0.0
40	QPSK	1	1	20.71	20.82	20.82		22.0	0.0
40	QPSK	1	104	20.81	20.73	20.79		22.0	0.0
40	QPSK	1	214	20.83	20.71	20.89		22.0	0.0
40	QPSK	100	0	20.88	20.70	20.84		22.0	0.0
40	QPSK	100	0	20.88	20.78	20.86		22.0	0.0
40	QPSK	100	108	20.84	20.77	20.88		22.0	0.0
40	QPSK	216	0	20.89	20.73	20.87		22.0	0.0
40	ISDAM	1	1	20.87	20.84	20.85		22.0	0.0
40	ISDAM	1	1	20.84	20.73	20.88		22.0	0.0
40	ISDAM	1	1	20.80	20.81	20.81		20.0	0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.72	17.64	17.65		22.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.82	20.79	20.78		22.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.83	20.74	20.75		22.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.82	20.81	20.89		22.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.72	17.64	17.72		22.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.80	20.73	20.89		22.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.80	20.73	20.74		22.0	0.0



n38_Ant 11									
BW (MHz)	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)									
40	PI2 BPSK	1	1	17.24	17.34	17.32			
40	PI2 BPSK	1	53	17.31	17.44	17.34	18.5	0.0	
40	PI2 BPSK	1	104	17.29	17.38	17.29			
40	PI2 BPSK	50	0	17.35	17.34	17.30	18.5	0.0	
40	PI2 BPSK	50	28	17.33	17.42	17.32	18.5	0.0	
40	PI2 BPSK	50	56	17.30	17.35	17.28			
40	PI2 BPSK	100	0	17.29	17.40	17.29	18.5	0.0	
40	QPSK	1	1	17.35	17.45	17.41			
40	QPSK	1	53	17.26	17.36	17.38	18.5	0.0	
40	QPSK	1	104	17.34	17.38	17.40			
40	QPSK	50	0	17.36	17.36	17.30	18.5	0.0	
40	QPSK	50	28	17.35	17.40	17.33	18.5	0.0	
40	QPSK	50	56	17.28	17.37	17.30			
40	QPSK	100	0	17.28	17.33	17.30	18.5	0.0	
40	16QAM	1	1	17.35	17.44	17.28	18.5	0.0	
40	64QAM	1	1	17.26	17.38	17.35	18.5	0.0	
40	256QAM	1	1	17.27	17.38	17.35	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.24	17.31	17.23	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.30	17.33	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.31	17.35	17.32	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.31	17.34	17.30	18.5	0.0	

n38_Ant 13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	13.89	13.92	13.91			
40	PI2 BPSK	1	53	13.85	13.95	13.95	15.0	0.0	
40	PI2 BPSK	1	104	13.91	13.98	13.94			
40	PI2 BPSK	50	0	13.80	13.97	13.92	15.0	0.0	
40	PI2 BPSK	50	28	13.83	13.94	13.94	15.0	0.0	
40	PI2 BPSK	50	56	13.91	13.91	13.92			
40	PI2 BPSK	100	0	13.86	13.95	13.90	15.0	0.0	
40	QPSK	1	1	13.95	14.04	13.95			
40	QPSK	1	53	13.88	13.99	13.98	15.0	0.0	
40	QPSK	1	104	13.80	13.90	13.83			
40	QPSK	50	0	13.81	13.93	13.95	15.0	0.0	
40	QPSK	50	28	13.91	13.98	13.95	15.0	0.0	
40	QPSK	50	56	13.81	13.88	13.89			
40	QPSK	100	0	13.85	13.95	13.84	15.0	0.0	
40	16QAM	1	1	13.81	13.91	13.83	15.0	0.0	
40	64QAM	1	1	13.83	13.95	13.87	15.0	0.0	
40	256QAM	1	1	13.84	13.93	13.83	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.86	13.95	13.93	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.80	13.92	13.83	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.84	13.94	13.93	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.82	13.90	13.86	15.0	0.0	

n38_Ant 31									
BW (MHz)	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)									
40	PI2 BPSK	1	1	22.83	22.96	22.82			
40	PI2 BPSK	1	53	22.86	22.86	22.85	24.0	0.0	
40	PI2 BPSK	1	104	22.93	22.90	22.88			
40	PI2 BPSK	50	0	22.92	22.93	22.91	24.0	0.0	
40	PI2 BPSK	50	28	22.90	22.95	22.78	24.0	0.0	
40	PI2 BPSK	50	56	22.87	22.86	22.88			
40	PI2 BPSK	100	0	22.93	22.94	22.93	24.0	0.0	
40	QPSK	1	1	22.95	23.00	22.94			
40	QPSK	1	53	22.91	22.90	22.90	24.0	0.0	
40	QPSK	1	104	22.92	22.96	22.89			
40	QPSK	50	0	22.25	22.20	22.25	23.5	0.5	
40	QPSK	50	28	22.23	22.28	22.21	24.0	0.0	
40	QPSK	50	56	22.25	22.34	22.25			
40	QPSK	100	0	22.22	22.28	22.21	23.5	0.5	
40	16QAM	1	1	22.30	22.28	22.21	23.5	0.5	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.0	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.83	22.96	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.86	22.84	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.82	22.96	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.89	22.87	22.79	24.0	0.0	



FCC_n41_Ant 11

BW (MHz)	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	17.99	17.98	17.98		
100	PI2 BPSK	1	137	17.89	17.88	17.89	19.0	0.0
100	PI2 BPSK	1	271	17.88	17.90	17.84		
100	PI2 BPSK	135	0	17.87	17.95	17.84	19.0	0.0
100	PI2 BPSK	135	69	17.91	17.88	17.92	19.0	0.0
100	PI2 BPSK	135	138	17.92	17.89	17.94	19.0	0.0
100	PI2 BPSK	270	0	17.98	17.97	17.95		
100	QPSK	1	1	18.03	18.04	18.03		
100	QPSK	1	137	17.91	17.97	17.95	19.0	0.0
100	QPSK	1	271	17.94	18.00	17.94		
100	QPSK	135	0	17.87	17.95	17.91	19.0	0.0
100	QPSK	135	69	17.91	17.88	17.94	19.0	0.0
100	QPSK	135	138	17.89	17.93	17.90	19.0	0.0
100	QPSK	270	0	17.98	17.99	17.90		
100	16QAM	1	1	17.90	17.91	17.88	19.0	0.0
100	64QAM	1	1	17.96	17.91	17.85	19.0	0.0
100	256QAM	1	1	17.98	17.95	17.88	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.41	22.92.99	22.44.88		
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.94	17.91	17.88	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.93	18.00	17.94	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.97	17.94	17.84	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.90	17.93	17.93	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.94	17.96	17.83	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.94	17.94	17.83	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.95	17.93	17.85	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.94	17.97	17.85	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.87	18.00	17.84	19.0	0.0

FCC_n41_Ant 13

BW (MHz)	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	13.99	14.02	13.99		
100	PI2 BPSK	1	137	13.97	14.02	14.01	15.0	0.0
100	PI2 BPSK	1	271	13.93	14.03	13.94		
100	PI2 BPSK	135	0	13.93	14.04	14.00	15.0	0.0
100	PI2 BPSK	135	69	13.97	14.06	14.00	15.0	0.0
100	PI2 BPSK	135	138	14.01	14.06	13.91	15.0	0.0
100	PI2 BPSK	270	0	13.96	13.99	13.92		
100	QPSK	1	1	14.08	14.10	14.05		
100	QPSK	1	137	13.98	13.98	14.02	15.0	0.0
100	QPSK	1	271	13.92	13.97	13.91		
100	QPSK	135	0	14.00	13.95	13.99	15.0	0.0
100	QPSK	135	69	14.01	14.05	14.01	15.0	0.0
100	QPSK	135	138	13.94	13.99	13.90	15.0	0.0
100	QPSK	270	0	13.92	14.01	13.92		
100	16QAM	1	1	14.00	14.01	13.96	15.0	0.0
100	64QAM	1	1	13.99	13.98	14.02	15.0	0.0
100	256QAM	1	1	14.01	14.03	13.91	15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.41	22.92.99	22.44.88		
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.03	14.05	13.99	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.02	14.04	13.98	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.04	13.99	13.90	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.97	14.00	13.92	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.03	14.04	13.93	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.97	13.94	13.99	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.98	14.05	14.01	15.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.00	14.02	13.95	15.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.00	13.96	13.91	15.0	0.0

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BW (MHz)	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	21.74	21.85	21.77		
100	PI2 BPSK	1	137	21.79	21.86	21.82	23.0	0.0
100	PI2 BPSK	1	271	21.77	21.83	21.78		
100	PI2 BPSK	135	0	21.85	21.83	21.84	23.0	0.0
100	PI2 BPSK	135	69	21.77	21.80	21.78	23.0	0.0
100	PI2 BPSK	135	138	21.83	21.81	21.75	23.0	0.0
100	PI2 BPSK	270	0	21.81	21.87	21.73		
100	QPSK	1	1	21.80	21.85	21.88		
100	QPSK	1	137	21.88	21.90	21.73	23.0	0.0
100	QPSK	1	271	21.78	21.83	21.79		
100	QPSK	135	0	21.75	21.83	21.74	23.0	0.0
100	QPSK	135	69	21.78	21.80	21.73	23.0	0.0
100	QPSK	135	138	21.81	21.85	21.72	23.0	0.0
100	QPSK	270	0	21.78	21.88	21.74		
100	16QAM	1	1	21.82	21.91	21.77	23.0	0.0
100	64QAM	1	1	21.22	21.26	21.20	22.5	0.5
100	256QAM	1	1	19.28	19.25	19.25	20.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.84	21.87	21.73	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.74	21.86	21.75	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.80	21.88	21.74	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.80	21.84	21.82	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.82	21.81	21.80	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.75	21.91	21.74	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.80	21.85	21.72	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.83	21.90	21.74	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.75	21.91	21.74	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.85	21.84	21.80	23.0	0.0



Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
100	PI2 BPSK	1	1	15.48	15.48	15.48	15.0	0.0	
100	PI2 BPSK	1	137	15.40	15.40	15.40	15.0	0.0	
100	PI2 BPSK	1	271	15.43	15.43	15.43	15.0	0.0	
100	PI2 BPSK	135	0	15.33	15.33	15.33	15.0	0.0	
100	PI2 BPSK	135	66	15.41	15.41	15.41	15.0	0.0	
100	PI2 BPSK	135	138	15.37	15.37	15.37	15.0	0.0	
100	PI2 BPSK	270	0	15.30	15.30	15.30	15.0	0.0	
100	QPSK	1	1	15.48	15.48	15.48	15.0	0.0	
100	QPSK	1	137	15.40	15.40	15.40	15.0	0.0	
100	QPSK	1	271	15.32	15.32	15.32	15.0	0.0	
100	QPSK	135	0	15.38	15.38	15.38	15.0	0.0	
100	QPSK	135	66	15.32	15.32	15.32	15.0	0.0	
100	QPSK	135	138	15.40	15.40	15.40	15.0	0.0	
100	QPSK	270	0	15.30	15.30	15.30	15.0	0.0	
100	QPSK	1	1	15.38	15.38	15.38	15.0	0.0	
100	84QAM	1	1	15.38	15.38	15.38	15.0	0.0	
100	84QAM	1	1	15.33	15.33	15.33	15.0	0.0	
Channel									
				83300	83332	83368		MPR	
				83368	83400	83436		MPR	
50	QPSK	1	1	15.51	15.41	15.51	15.0	0.0	
Channel									
				83568	83532	83496		MPR	
				83532	83496	83460		MPR	
80	QPSK	1	1	15.48	15.45	15.43	15.0	0.0	
Channel									
				83250	83232	83214		MPR	
				83214	83196	83178		MPR	
70	QPSK	1	1	15.50	15.44	15.40	15.0	0.0	
Channel									
				83300	83232	83164		MPR	
				83164	83096	83028		MPR	
60	QPSK	1	1	15.47	15.44	15.40	15.0	0.0	
Channel									
				83150	83132	83114		MPR	
				83114	83096	83078		MPR	
50	QPSK	1	1	15.43	15.41	15.43	15.0	0.0	
Channel									
				83134	83132	83130		MPR	
				83130	83128	83126		MPR	
40	QPSK	1	1	15.43	15.40	15.41	15.0	0.0	
Channel									
				83100	83132	83166		MPR	
				83166	83198	83230		MPR	
30	QPSK	1	1	15.44	15.47	15.42	15.0	0.0	
Channel									
				83050	83132	83214		MPR	
				83214	83296	83378		MPR	
20	QPSK	1	1	15.42	15.47	15.50	15.0	0.0	
Channel									
				83000	83132	83264		MPR	
				83264	83396	83528		MPR	
15	QPSK	1	1	15.41	15.44	15.47	15.0	0.0	
Channel									
				82950	83132	83314		MPR	
				83314	83496	83678		MPR	
10	QPSK	1	1	15.40	15.43	15.46	15.0	0.0	

Part27O_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
100	PI2 BPSK	1	1	15.38	15.29	15.04	15.0	0.0	
100	PI2 BPSK	1	137	15.38	15.22	15.30	15.0	0.0	
100	PI2 BPSK	1	271	15.33	15.21	15.08	15.0	0.0	
100	PI2 BPSK	135	0	15.30	15.14	15.04	15.0	0.0	
100	PI2 BPSK	135	66	15.29	15.13	15.02	15.0	0.0	
100	PI2 BPSK	135	138	15.31	15.13	14.95	15.0	0.0	
100	PI2 BPSK	270	0	15.28	15.12	14.95	15.0	0.0	
100	QPSK	1	1	15.31	15.12	15.10	15.0	0.0	
100	QPSK	1	137	15.40	15.26	15.11	15.0	0.0	
100	QPSK	1	271	15.30	15.22	15.12	15.0	0.0	
100	QPSK	135	0	15.39	15.18	15.05	15.0	0.0	
100	QPSK	135	66	15.33	15.13	15.04	15.0	0.0	
100	QPSK	135	138	15.33	15.20	15.05	15.0	0.0	
100	QPSK	270	0	15.30	15.12	15.02	15.0	0.0	
100	QPSK	1	1	15.29	15.15	15.04	15.0	0.0	
100	84QAM	1	1	15.41	15.12	15.02	15.0	0.0	
100	84QAM	1	1	15.35	15.22	15.11	15.0	0.0	
Channel									
				84968	84900	84832		MPR	
				84832	84764	84696		MPR	
50	QPSK	1	1	15.34	15.15	15.15	15.0	0.0	
Channel									
				84934	84900	84866		MPR	
				84866	84832	84798		MPR	
80	QPSK	1	1	15.36	15.14	15.10	15.0	0.0	
Channel									
				84900	84900	84900		MPR	
				84900	84900	84900		MPR	
70	QPSK	1	1	15.39	15.21	15.08	15.0	0.0	
Channel									
				84900	84900	84900		MPR	
				84900	84900	84900		MPR	
60	QPSK	1	1	15.41	15.13	15.05	15.0	0.0	
Channel									
				84934	84900	84866		MPR	
				84866	84832	84798		MPR	
50	QPSK	1	1	15.39	15.19	15.09	15.0	0.0	
Channel									
				84900	84900	84900		MPR	
				84900	84900	84900		MPR	
40	QPSK	1	1	15.41	15.22	15.10	15.0	0.0	
Channel									
				84934	84900	84866		MPR	
				84866	84832	84798		MPR	
30	QPSK	1	1	15.38	15.12	15.02	15.0	0.0	
Channel									
				84900	84900	84900		MPR	
				84900	84900	84900		MPR	
20	QPSK	1	1	15.33	15.12	15.02	15.0	0.0	
Channel									
				84934	84900	84866		MPR	
				84866	84832	84798		MPR	
15	QPSK	1	1	15.39	15.16	15.06	15.0	0.0	
Channel									
				84900	84900	84900		MPR	
				84900	84900	84900		MPR	
10	QPSK	1	1	15.36	15.17	15.05	15.0	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)	
100	PI2 BPSK	1	1	17.27					
100	PI2 BPSK	1	139	17.28			18.0	0.0	
100	PI2 BPSK	1	273	17.28					
100	PI2 BPSK	135	0	17.25			18.0	0.0	
100	PI2 BPSK	135	66	17.25			18.0	0.0	
100	PI2 BPSK	135	138	17.32			18.0	0.0	
100	PI2 BPSK	270	0	17.28			18.0	0.0	
100	QPSK	1	1	17.27			18.0	0.0	
100	QPSK	1	139	17.28			18.0	0.0	
100	QPSK	1	273	17.28			18.0	0.0	
100	QPSK	135	0	17.32			18.0	0.0	
100	QPSK	135	66	17.32			18.0	0.0	
100	QPSK	135	138	17.25			18.0	0.0	
100	QPSK	270	0	17.25			18.0	0.0	
100	84QAM	1	1	17.28			18.0	0.0	
100	84QAM	1	1	17.28			18.0	0.0	
Channel									
				83300	83332	83368		MPR	
				83368	83400	83436		MPR	
50	QPSK	1	1	17.25	17.25	17.25	18.0	0.0	
Channel									
				83368	83332	83300		MPR	
				83300	83268	83236		MPR	
80	QPSK	1	1	17.34	17.28	17.36	18.0	0.0	
Channel									
				83334	83332	83330		MPR	
				83330	83328	83326		MPR	
70	QPSK	1	1	17.32	17.29	17.36	18.0	0.0	
Channel									
				83300	83332	83364		MPR	
				83364	83396	83428		MPR	
60	QPSK	1	1	17.32	17.28	17.36	18.0	0.0	
Channel									
				83300	83332	83364		MPR	
				83364	83396	83428		MPR	
50	QPSK	1	1	17.34	17.28	17.31	18.0	0.0	
Channel									
				83334	83332	83330		MPR	
				83330	83328	83326		MPR	
40	QPSK	1	1	17.31	17.28	17.30	18.0	0.0	
Channel									
				83300	83332	83366			



Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	18.78			20.0	0.0		
100	P12 BPSK	1	137	18.82						
100	P12 BPSK	1	273	18.81						
100	P12 BPSK	135	5	18.87			20.0	0.0		
100	P12 BPSK	135	98	18.82			20.0	0.0		
100	P12 BPSK	135	138	18.78			20.0	0.0		
100	P12 BPSK	270	5	18.82			20.0	0.0		
100	QPSK	1	1	18.82						
100	QPSK	1	137	18.78			20.0	0.0		
100	QPSK	1	273	18.77						
100	QPSK	135	5	18.80			20.0	0.0		
100	QPSK	135	98	18.82			20.0	0.0		
100	QPSK	135	138	18.78			20.0	0.0		
100	QPSK	270	5	18.82			20.0	0.0		
100	QPSK	270	9	18.80			20.0	0.0		
100	4QAM	1	1	18.82			20.0	0.0		
100	4QAM	1	1	18.78			20.0	0.0		
100	4QAM	1	1	18.78			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.81			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.42			20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.53			20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.48			20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.44			20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.49			20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.49			20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.48			20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.52			20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.52			20.0	0.0		

Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	18.83			20.0	0.0		
100	P12 BPSK	1	137	18.82						
100	P12 BPSK	1	273	18.80						
100	P12 BPSK	135	5	18.84			20.0	0.0		
100	P12 BPSK	135	98	18.82			20.0	0.0		
100	P12 BPSK	135	138	18.82			20.0	0.0		
100	P12 BPSK	270	5	18.82			20.0	0.0		
100	QPSK	1	1	18.82						
100	QPSK	1	137	18.80			20.0	0.0		
100	QPSK	1	273	18.81						
100	QPSK	135	5	18.80			20.0	0.0		
100	QPSK	135	98	18.82			20.0	0.0		
100	QPSK	135	138	18.82			20.0	0.0		
100	QPSK	270	5	18.82			20.0	0.0		
100	QPSK	270	9	18.80			20.0	0.0		
100	4QAM	1	1	18.82			20.0	0.0		
100	4QAM	1	1	18.80			20.0	0.0		
100	4QAM	1	1	18.80			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.43			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.52			20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.48			20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.53			20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.47			20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.49			20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.50			20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.54			20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.52			20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.52			20.0	0.0		

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	17.53			18.0	0.0		
100	P12 BPSK	1	137	17.52						
100	P12 BPSK	1	273	17.48						
100	P12 BPSK	135	5	17.54			18.0	0.0		
100	P12 BPSK	135	98	17.52			18.0	0.0		
100	P12 BPSK	135	138	17.45			18.0	0.0		
100	P12 BPSK	270	5	17.52			18.0	0.0		
100	QPSK	1	1	17.52						
100	QPSK	1	137	17.44			18.0	0.0		
100	QPSK	1	273	17.45						
100	QPSK	135	5	17.45			18.0	0.0		
100	QPSK	135	98	17.45			18.0	0.0		
100	QPSK	135	138	17.45			18.0	0.0		
100	QPSK	270	5	17.52			18.0	0.0		
100	QPSK	270	9	17.52			18.0	0.0		
100	4QAM	1	1	17.42			18.0	0.0		
100	4QAM	1	1	17.48			18.0	0.0		
100	4QAM	1	1	17.48			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.52			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.77			18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.79			18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.79			18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.81			18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.80			18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.84			18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.81			18.0	0.0		

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	17.44			18.0	0.0		
100	P12 BPSK	1	137	17.42						
100	P12 BPSK	1	273	17.44						
100	P12 BPSK	135	5	17.44			18.0	0.0		
100	P12 BPSK	135	98	17.42			18.0	0.0		
100	P12 BPSK	135	138	17.41			18.0	0.0		
100	P12 BPSK	270	5	17.42			18.0	0.0		
100	QPSK	1	1	17.42						
100	QPSK	1	137	17.40			18.0	0.0		
100	QPSK	1	273	17.42						
100	QPSK	135	5	17.42			18.0	0.0		
100	QPSK	135	98	17.42			18.0	0.0		
100	QPSK	135	138	17.42			18.0	0.0		
100	QPSK	270	5	17.42			18.0	0.0		
100	QPSK	270	9	17.42			18.0	0.0		
100	4QAM	1	1	17.42			18.0	0.0		
100	4QAM	1	1	17.44			18.0	0.0		
100	4QAM	1	1	17.44			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.42			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.71			18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.76			18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.84			18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.79			18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.79			18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.78			18.0	0.0		



Reduced Power Mode for DSI 10

n2_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	15.21	15.22	15.23	17.5	0.0		
20	PI2 BPSK	1	53	15.21	15.22	15.23	17.5	0.0		
20	PI2 BPSK	1	104	15.23	15.27	15.28	17.5	0.0		
20	PI2 BPSK	50	0	15.70	15.82	15.86	17.5	0.0		
20	PI2 BPSK	50	29	15.77	15.82	15.85	17.5	0.0		
20	PI2 BPSK	50	58	15.84	15.75	15.72	17.5	0.0		
20	PI2 BPSK	100	0	15.70	15.83	15.70	17.5	0.0		
20	QPSK	1	1	15.21	15.22	15.23	17.5	0.0		
20	QPSK	1	53	15.21	15.22	15.23	17.5	0.0		
20	QPSK	1	104	15.23	15.27	15.28	17.5	0.0		
20	QPSK	50	0	15.70	15.82	15.86	17.5	0.0		
20	QPSK	50	29	15.77	15.82	15.85	17.5	0.0		
20	QPSK	50	58	15.84	15.75	15.72	17.5	0.0		
20	QPSK	100	0	15.70	15.83	15.70	17.5	0.0		
20	QPSK	1	1	15.21	15.22	15.23	17.5	0.0		
20	QPSK	1	53	15.21	15.22	15.23	17.5	0.0		
20	QPSK	1	104	15.23	15.27	15.28	17.5	0.0		
20	QPSK	50	0	15.70	15.82	15.86	17.5	0.0		
20	QPSK	50	29	15.77	15.82	15.85	17.5	0.0		
20	QPSK	50	58	15.84	15.75	15.72	17.5	0.0		
20	QPSK	100	0	15.70	15.83	15.70	17.5	0.0		
20	MSKAM	1	1	15.27	15.28	15.70	17.5	0.0		
20	MSKAM	1	1	15.70	15.87	15.72	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.83	15.98	15.90	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.83	16.01	15.87	17.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	15.84	16.00	15.88	17.5	0.0		

n2_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	16.80	16.80	16.84	18.5	0.0		
20	PI2 BPSK	1	53	16.80	16.81	16.84	18.5	0.0		
20	PI2 BPSK	1	104	16.77	16.83	16.83	18.5	0.0		
20	PI2 BPSK	50	0	16.77	16.80	16.80	18.5	0.0		
20	PI2 BPSK	50	29	16.80	16.80	16.80	18.5	0.0		
20	PI2 BPSK	50	58	16.73	16.84	16.81	18.5	0.0		
20	PI2 BPSK	100	0	16.80	16.74	16.84	18.5	0.0		
20	QPSK	1	1	16.80	16.80	16.84	18.5	0.0		
20	QPSK	1	53	16.80	16.84	16.80	18.5	0.0		
20	QPSK	1	104	16.80	16.88	16.81	18.5	0.0		
20	QPSK	50	0	16.80	16.88	16.80	18.5	0.0		
20	QPSK	50	29	16.80	16.80	16.80	18.5	0.0		
20	QPSK	50	58	16.81	16.82	16.83	18.5	0.0		
20	QPSK	100	0	16.84	16.80	16.80	18.5	0.0		
20	MSKAM	1	1	16.85	16.84	16.80	18.5	0.0		
20	MSKAM	1	1	16.87	16.83	16.80	18.5	0.0		
20	MSKAM	1	1	16.87	16.83	16.80	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.82	16.80	16.80	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.88	16.79	16.80	18.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.87	16.84	16.80	18.5	0.0		

n5_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	23.81	23.77	23.82	25.0	0.0		
20	PI2 BPSK	1	58	23.84	23.81	23.81	25.0	0.0		
20	PI2 BPSK	1	104	23.45	23.48	23.47	25.0	0.0		
20	PI2 BPSK	50	0	23.87	23.70	23.70	25.0	0.0		
20	PI2 BPSK	50	29	23.81	23.80	23.80	25.0	0.0		
20	PI2 BPSK	50	58	23.98	23.87	23.82	25.0	0.0		
20	PI2 BPSK	100	0	23.70	23.70	23.71	25.0	0.0		
20	QPSK	1	1	23.82	23.82	23.77	25.0	0.0		
20	QPSK	1	53	23.87	23.80	23.80	25.0	0.0		
20	QPSK	1	104	23.44	23.48	23.38	25.0	1.0		
20	QPSK	50	0	23.85	23.80	23.80	25.0	1.0		
20	QPSK	50	29	23.78	23.80	23.80	25.0	1.0		
20	QPSK	50	58	23.42	23.50	23.43	24.0	1.0		
20	QPSK	100	0	23.54	23.50	23.48	24.0	1.0		
20	MSKAM	1	1	23.75	23.80	23.81	24.0	1.0		
20	MSKAM	1	1	23.41	23.45	23.42	22.5	2.5		
20	MSKAM	1	1	23.75	23.80	23.81	23.0	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.78	23.70	23.70	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.78	23.77	23.81	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.72	23.82	23.86	25.0	0.0		

n5_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	23.43	23.49	23.48	25.0	0.0		
20	PI2 BPSK	1	58	23.43	23.48	23.47	25.0	0.0		
20	PI2 BPSK	1	104	23.15	23.21	23.19	25.0	0.0		
20	PI2 BPSK	50	0	23.78	23.87	23.78	24.0	0.0		
20	PI2 BPSK	50	29	23.81	23.84	23.82	23.0	0.0		
20	PI2 BPSK	50	58	23.71	23.75	23.73	24.5	0.0		
20	PI2 BPSK	100	0	23.70	23.65	23.78	24.5	0.0		
20	QPSK	1	1	23.12	23.21	23.14	25.0	0.0		
20	QPSK	1	53	23.48	23.40	23.30	25.0	0.0		
20	QPSK	1	104	23.18	23.20	23.17	25.0	1.0		
20	QPSK	50	0	23.23	23.20	23.20	24.0	1.0		
20	QPSK	50	29	23.15	23.10	23.10	24.0	1.0		
20	QPSK	50	58	23.58	23.19	23.17	24.0	1.0		
20	QPSK	100	0	23.24	23.20	23.20	24.0	1.0		
20	MSKAM	1	1	23.58	23.50	23.51	24.0	1.0		
20	MSKAM	1	1	23.02	23.10	23.03	22.5	2.5		
20	MSKAM	1	1	23.84	23.10	23.08	20.0	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.12	23.50	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.43	23.53	23.47	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.41	23.50	23.39	25.0	0.0		



n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.18	17.32	17.23		18.5	0.0
40	PI2 BPSK	1	168	17.14	17.16	17.23			
40	PI2 BPSK	1	214	17.11	17.28	17.14			
40	PI2 BPSK	108	0	17.04	17.18	17.07		18.5	0.0
40	PI2 BPSK	108	54	17.05	17.25	17.15		18.5	0.0
40	PI2 BPSK	108	108	16.94	17.17	17.09		18.5	0.0
40	PI2 BPSK	216	0	16.95	17.16	17.02			
40	QPSK	1	1	17.24	17.32	17.28			
40	QPSK	1	108	17.18	17.28	17.23		18.5	0.0
40	QPSK	1	214	17.15	17.32	17.23		18.5	0.0
40	QPSK	108	0	17.07	17.23	17.14		18.5	0.0
40	QPSK	108	54	17.07	17.25	17.15		18.5	0.0
40	QPSK	108	108	17.04	17.22	17.15		18.5	0.0
40	QPSK	216	0	17.04	17.22	17.11			
40	QPSK	1	1	17.08	17.28	17.13		18.5	0.0
40	HS-DSSS	1	1	17.05	17.21	17.09		18.5	0.0
40	HS-DSSS	1	1	17.11	17.24	17.14		18.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.05	21.08	21.07		18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.13	17.28	17.15		18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.12	17.23	17.13		18.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.14	17.26	17.11		18.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.13	17.23	17.13		18.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.11	17.27	17.11		18.5	0.0

n7_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	13.48	13.54	13.47		14.5	0.0
40	PI2 BPSK	1	168	13.42	13.46	13.43			
40	PI2 BPSK	1	214	13.47	13.45	13.39			
40	PI2 BPSK	108	0	13.33	13.42	13.31		14.5	0.0
40	PI2 BPSK	108	54	13.44	13.45	13.36		14.5	0.0
40	PI2 BPSK	108	108	13.41	13.41	13.43		14.5	0.0
40	PI2 BPSK	216	0	13.34	13.33	13.44			
40	QPSK	1	1	13.42	13.52	13.45			
40	QPSK	1	108	13.39	13.36	13.54		14.5	0.0
40	QPSK	1	214	13.48	13.52	13.47		14.5	0.0
40	QPSK	108	0	13.41	13.45	13.52		14.5	0.0
40	QPSK	108	54	13.35	13.52	13.38		14.5	0.0
40	QPSK	108	108	13.48	13.45	13.52		14.5	0.0
40	QPSK	216	0	13.39	13.35	13.51			
40	HS-DSSS	1	1	13.45	13.48	13.50		14.5	0.0
40	HS-DSSS	1	1	13.41	13.48	13.45		14.5	0.0
40	HS-DSSS	1	1	13.48	13.48	13.52		14.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.43	13.43	13.43		14.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.44	13.48	13.48		14.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.45	13.52	13.47		14.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.47	13.52	13.44		14.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.45	13.45	13.44		14.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	13.47	13.48	13.50		14.5	0.0

n7_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	21.38	21.43	21.38		23.0	0.0
40	PI2 BPSK	1	168	21.32	21.38	21.45			
40	PI2 BPSK	1	214	21.42	21.42	21.54			
40	PI2 BPSK	108	0	21.38	21.46	21.38		23.0	0.0
40	PI2 BPSK	108	54	21.42	21.52	21.48		23.0	0.0
40	PI2 BPSK	108	108	21.29	21.42	21.47		23.0	0.0
40	PI2 BPSK	216	0	21.41	21.42	21.35			
40	QPSK	1	1	21.42	21.52	21.51			
40	QPSK	1	108	21.38	21.45	21.58		23.0	0.0
40	QPSK	1	214	21.39	21.52	21.58		23.0	0.0
40	QPSK	108	0	21.43	21.49	21.44		23.0	0.0
40	QPSK	108	54	21.42	21.42	21.54		23.0	0.0
40	QPSK	108	108	21.39	21.53	21.51		23.0	0.0
40	QPSK	216	0	21.42	21.42	21.46			
40	HS-DSSS	1	1	21.48	21.52	21.43		23.0	0.0
40	HS-DSSS	1	1	21.38	21.34	21.37		21.5	1.5
40	HS-DSSS	1	1	21.44	21.42	21.34		16.5	3.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.37	21.42	21.37		23.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.38	21.52	21.52		23.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.49	21.54	21.54		23.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.54	21.45	21.53		23.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.53	21.52	21.53		23.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.52	21.54	21.54		23.0	0.0

n26_Ant 13									
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.43	24.54	24.34		25.0	0.0
20	PI2 BPSK	1	80	24.34	24.37	24.31			
20	PI2 BPSK	1	164	24.35	24.56	24.31			
20	PI2 BPSK	50	0	24.39	24.41	24.38		24.5	0.5
20	PI2 BPSK	50	80	24.36	24.59	24.34		25.0	0.0
20	PI2 BPSK	50	164	24.43	24.54	24.47		24.5	0.5
20	PI2 BPSK	100	0	24.37	24.45	24.35			
20	QPSK	1	1	24.32	24.58	24.32			
20	QPSK	1	50	24.37	24.46	24.31		25.0	1.0
20	QPSK	1	164	24.32	24.56	24.37		24.0	1.0
20	QPSK	50	0	24.38	24.41	24.33		24.0	1.0
20	QPSK	50	80	24.35	24.59	24.34		24.5	0.0
20	QPSK	50	164	24.31	24.59	24.32		24.0	1.0
20	QPSK	100	0	24.36	24.45	24.36			
20	HS-DSSS	1	1	24.32	24.33	24.09		24.0	1.0
20	HS-DSSS	1	1	24.50	24.46	24.32		22.5	2.5
20	HS-DSSS	1	1	24.34	24.28	24.53		20.5	4.5
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.34	24.37	24.13		24.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.36	24.38	24.34		25.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.34	24.44	24.35		25.0	0.0



n26_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Power L1S4 Ch./Freq.	MPR (dB)	
Channel										
Frequency (MHz)										
30	PUSC BPSK	1	1	23.70	23.78	23.87			20.0	0.0
30	PUSC BPSK	1	104	23.83	23.91	24.00			20.0	0.0
30	PUSC BPSK	1	104	23.95	24.04	24.13			20.0	0.0
30	PUSC BPSK	10	0	23.97	24.10	24.26			24.5	0.0
30	PUSC BPSK	30	0	23.98	24.09	24.28			20.0	0.0
30	PUSC BPSK	50	0	23.24	23.25	23.16			24.5	0.5
30	PUSC BPSK	100	0	23.00	23.20	23.21			20.0	0.0
30	QPSK	1	1	23.15	23.22	23.17			20.0	0.0
30	QPSK	1	104	23.88	23.71	23.62			20.0	0.0
30	QPSK	1	104	23.98	23.89	23.82			24.0	1.0
30	QPSK	30	0	22.89	22.72	22.68			24.0	1.0
30	QPSK	50	0	22.98	22.81	22.80			24.0	1.0
30	QPSK	100	0	22.98	22.81	22.80			24.0	1.0
30	ISDAM	1	1	21.29	21.40	21.39			22.5	2.5
30	ISDAM	1	1	18.24	18.20	18.20			20.5	4.5
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.87	23.81	23.75			20.0	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.70	23.78	23.87			20.0	0.0
Channel										
Frequency (MHz)										
3	QPSK	1	1	23.71	23.72	23.71			20.0	0.0

n66_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Power L1S4 Ch./Freq.	MPR (dB)	
Channel										
Frequency (MHz)										
40	PUSC BPSK	1	1	18.24	18.27	18.29			20.0	0.0
40	PUSC BPSK	1	104	18.30	18.38	18.34			20.0	0.0
40	PUSC BPSK	1	214	18.22	18.34	18.21			20.0	0.0
40	PUSC BPSK	100	0	18.33	18.36	18.39			20.0	0.0
40	PUSC BPSK	100	0	18.35	18.31	18.35			20.0	0.0
40	PUSC BPSK	100	108	18.39	18.35	18.37			20.0	0.0
40	PUSC BPSK	216	0	18.30	18.36	18.34			20.0	0.0
40	QPSK	1	1	18.22	18.20	18.24			20.0	0.0
40	QPSK	1	104	18.32	18.38	18.37			20.0	0.0
40	QPSK	1	214	18.35	18.31	18.35			20.0	0.0
40	QPSK	100	0	18.30	18.33	18.36			20.0	0.0
40	QPSK	100	0	18.31	18.34	18.37			20.0	0.0
40	QPSK	100	108	18.37	18.31	18.37			20.0	0.0
40	QPSK	216	0	18.35	18.31	18.35			20.0	0.0
40	ISDAM	1	1	18.37	18.35	18.36			20.0	0.0
40	ISDAM	1	1	18.38	18.37	18.35			20.0	0.0
40	ISDAM	1	1	18.31	18.30	18.33			20.0	0.0
Channel										
Frequency (MHz)										
35	QPSK	1	1	17.72	17.64	17.63			20.0	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.37	18.31	18.35			20.0	0.0
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.00	18.59	18.37			20.0	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.31	18.34	18.35			20.0	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.72	17.64	17.63			20.0	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.37	18.31	18.31			20.0	0.0
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.34	18.34	18.34			20.0	0.0

n66_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Power L1S4 Ch./Freq.	MPR (dB)	
Channel										
Frequency (MHz)										
40	PUSC BPSK	1	1	18.38	18.32	18.44			19.5	0.0
40	PUSC BPSK	1	108	18.20	18.28	18.33			19.5	0.0
40	PUSC BPSK	1	214	18.38	18.38	18.42			19.5	0.0
40	PUSC BPSK	100	0	18.30	18.24	18.30			19.5	0.0
40	PUSC BPSK	100	0	18.27	18.40	18.34			19.5	0.0
40	PUSC BPSK	100	108	18.30	18.32	18.28			19.5	0.0
40	PUSC BPSK	216	0	18.24	18.21	18.26			19.5	0.0
40	QPSK	1	1	18.22	18.23	18.21			19.5	0.0
40	QPSK	1	108	18.30	18.40	18.42			19.5	0.0
40	QPSK	1	214	18.42	18.40	18.45			19.5	0.0
40	QPSK	100	0	18.31	18.40	18.38			19.5	0.0
40	QPSK	100	0	18.28	18.41	18.35			19.5	0.0
40	QPSK	100	108	18.32	18.42	18.33			19.5	0.0
40	QPSK	216	0	18.28	18.41	18.35			19.5	0.0
40	ISDAM	1	1	18.35	18.40	18.35			19.5	0.0
40	ISDAM	1	1	18.35	18.28	18.34			19.5	0.0
40	ISDAM	1	1	18.20	18.41	18.33			19.5	0.0
Channel										
Frequency (MHz)										
35	QPSK	1	1	17.72	17.64	17.63			19.5	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.30	18.42	18.31			19.5	0.0
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.31	18.40	18.38			19.5	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.25	18.40	18.39			19.5	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.25	17.63	17.63			19.5	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.25	18.40	18.39			19.5	0.0
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.33	18.40	18.38			19.5	0.0

n66_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power L1P Ch./Freq.	Power L1S1 Ch./Freq.	Power L1S2 Ch./Freq.	Power L1S3 Ch./Freq.	Power L1S4 Ch./Freq.	MPR (dB)	
Channel										
Frequency (MHz)										
40	PUSC BPSK	1	1	20.83	20.71	20.74			22.0	0.0
40	PUSC BPSK	1	108	20.82	20.71	20.75			22.0	0.0
40	PUSC BPSK	1	214	20.82	20.82	20.81			22.0	0.0
40	PUSC BPSK	100	0	20.84	20.81	20.81			22.0	0.0
40	PUSC BPSK	100	0	20.88	20.79	20.82			22.0	0.0
40	PUSC BPSK	100	108	20.87	20.73	20.83			22.0	0.0
40	PUSC BPSK	216	0	20.76	20.81	20.84			22.0	0.0
40	QPSK	1	1	20.71	20.82	20.82			22.0	0.0
40	QPSK	1	108	20.81	20.73	20.79			22.0	0.0
40	QPSK	1	214	20.83	20.71	20.89			22.0	0.0
40	QPSK	100	0	20.88	20.70	20.84			22.0	0.0
40	QPSK	100	0	20.89	20.73	20.87			22.0	0.0
40	QPSK	100	108	20.84	20.77	20.86			22.0	0.0
40	QPSK	216	0	20.89	20.73	20.87			22.0	0.0
40	ISDAM	1	1	20.87	20.84	20.85			22.0	0.0
40	ISDAM	1	1	20.84	20.73	20.83			22.0	0.0
40	ISDAM	1	1	20.80	20.81	20.81			20.0	0.0
Channel										
Frequency (MHz)										
35	QPSK	1	1	17.72	17.64	17.63			22.0	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.82	20.79	20.78			22.0	0.0
Channel										
Frequency (MHz)										
25	QPSK	1	1	20.83	20.74	20.75			22.0	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.82	20.81	20.89			22.0	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.72	17.64	17.63			22.0	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.80	20.73	20.89			22.0	0.0
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.80	20.73	20.74			22.0	0.0



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BW (MHz)	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)									
40	PI2 BPSK	1	1	17.24	17.34	17.32			
40	PI2 BPSK	1	53	17.31	17.44	17.34	18.5	0.0	
40	PI2 BPSK	1	104	17.29	17.38	17.29			
40	PI2 BPSK	50	0	17.35	17.34	17.30	18.5	0.0	
40	PI2 BPSK	50	28	17.33	17.42	17.32	18.5	0.0	
40	PI2 BPSK	50	56	17.30	17.35	17.28	18.5	0.0	
40	PI2 BPSK	100	0	17.29	17.40	17.29			
40	QPSK	1	1	17.35	17.45	17.41			
40	QPSK	1	53	17.26	17.36	17.38	18.5	0.0	
40	QPSK	1	104	17.34	17.38	17.40			
40	QPSK	50	0	17.36	17.36	17.30	18.5	0.0	
40	QPSK	50	28	17.35	17.40	17.33	18.5	0.0	
40	QPSK	50	56	17.28	17.37	17.30	18.5	0.0	
40	QPSK	100	0	17.28	17.33	17.30	18.5	0.0	
40	16QAM	1	1	17.35	17.44	17.28	18.5	0.0	
40	64QAM	1	1	17.26	17.38	17.35	18.5	0.0	
40	256QAM	1	1	17.27	17.38	17.35	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.24	17.31	17.23	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.30	17.33	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.31	17.35	17.32	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.31	17.34	17.30	18.5	0.0	

n38_Ant 13									
BW (MHz)	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)									
40	PI2 BPSK	1	1	13.89	13.92	13.91			
40	PI2 BPSK	1	53	13.85	13.95	13.95	15.0	0.0	
40	PI2 BPSK	1	104	13.91	13.98	13.94			
40	PI2 BPSK	50	0	13.80	13.97	13.92	15.0	0.0	
40	PI2 BPSK	50	28	13.83	13.94	13.94	15.0	0.0	
40	PI2 BPSK	50	56	13.91	13.91	13.92	15.0	0.0	
40	PI2 BPSK	100	0	13.86	13.95	13.90			
40	QPSK	1	1	13.95	14.04	13.95			
40	QPSK	1	53	13.88	13.99	13.98	15.0	0.0	
40	QPSK	1	104	13.80	13.90	13.83			
40	QPSK	50	0	13.81	13.93	13.95	15.0	0.0	
40	QPSK	50	28	13.91	13.98	13.95	15.0	0.0	
40	QPSK	50	56	13.81	13.98	13.89	15.0	0.0	
40	QPSK	100	0	13.85	13.95	13.84	15.0	0.0	
40	16QAM	1	1	13.81	13.91	13.83	15.0	0.0	
40	64QAM	1	1	13.83	13.95	13.87	15.0	0.0	
40	256QAM	1	1	13.84	13.93	13.83	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.86	13.95	13.93	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.80	13.92	13.83	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.84	13.94	13.93	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.82	13.90	13.86	15.0	0.0	

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BW (MHz)	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)									
40	PI2 BPSK	1	1	22.83	22.96	22.82			
40	PI2 BPSK	1	53	22.86	22.86	22.85	24.0	0.0	
40	PI2 BPSK	1	104	22.93	22.90	22.88			
40	PI2 BPSK	50	0	22.92	22.93	22.91	24.0	0.0	
40	PI2 BPSK	50	28	22.90	22.95	22.78	24.0	0.0	
40	PI2 BPSK	50	56	22.87	22.86	22.88	24.0	0.0	
40	PI2 BPSK	100	0	22.95	22.94	22.93			
40	QPSK	1	1	22.95	23.00	22.94			
40	QPSK	1	53	22.91	22.90	22.90	24.0	0.0	
40	QPSK	1	104	22.92	22.96	22.89			
40	QPSK	50	0	22.25	22.20	22.25	23.5	0.5	
40	QPSK	50	28	22.23	22.28	22.21	24.0	0.0	
40	QPSK	50	56	22.25	22.34	22.25	23.5	0.5	
40	QPSK	100	0	22.22	22.28	22.21	23.5	0.5	
40	16QAM	1	1	22.30	22.28	22.21	23.5	0.5	
40	64QAM	1	1	20.81	20.78	20.75	22.0	2.0	
40	256QAM	1	1	18.76	18.81	18.74	20.0	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.83	22.96	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.86	22.84	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.82	22.96	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.89	22.87	22.79	24.0	0.0	



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BW (MHz)	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)				5062.02	5185.88	5309.74		
				2546.01	2592.99	2546.01		
100	PI2 BPSK	1	1	17.99	17.98	17.98		
100	PI2 BPSK	1	137	17.89	17.88	17.89	19.0	0.0
100	PI2 BPSK	1	271	17.88	17.90	17.84		
100	PI2 BPSK	135	0	17.87	17.95	17.84	19.0	0.0
100	PI2 BPSK	135	69	17.91	17.88	17.92	19.0	0.0
100	PI2 BPSK	135	138	17.92	17.89	17.94	19.0	0.0
100	PI2 BPSK	270	0	17.98	17.97	17.95		
100	QPSK	1	1	18.03	18.04	18.03		
100	QPSK	1	137	17.91	17.97	17.95	19.0	0.0
100	QPSK	1	271	17.94	18.00	17.94		
100	QPSK	135	0	17.87	17.95	17.91	19.0	0.0
100	QPSK	135	69	17.91	17.88	17.94	19.0	0.0
100	QPSK	135	138	17.93	17.93	17.90	19.0	0.0
100	QPSK	270	0	17.98	17.99	17.90	19.0	0.0
100	16QAM	1	1	17.90	17.91	17.88	19.0	0.0
100	64QAM	1	1	17.96	17.91	17.85	19.0	0.0
100	256QAM	1	1	17.98	17.95	17.88	19.0	0.0
Channel								
Frequency (MHz)				5062.00	5185.88	5289.86	Tune-up limit (dBm)	MPR (dB)
				2541	2592.99	2544.88		
90	QPSK	1	1	17.80	17.85	17.83	19.0	0.0
Channel								
Frequency (MHz)				50720.4	51858.8	52998.8	Tune-up limit (dBm)	MPR (dB)
				2536.02	2592.99	2549.99		
80	QPSK	1	1	17.94	17.91	17.88	19.0	0.0
Channel								
Frequency (MHz)				2931.01	2992.99	2955	Tune-up limit (dBm)	MPR (dB)
				18.00	17.93	18.00		
70	QPSK	1	1	17.93	18.00	17.94	19.0	0.0
Channel								
Frequency (MHz)				50500.0	51858.8	53198.6	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2584.99		
60	QPSK	1	1	17.97	17.94	17.94	19.0	0.0
Channel								
Frequency (MHz)				50420.4	51858.8	53098.6	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2584.99		
50	QPSK	1	1	17.90	17.93	17.93	19.0	0.0
Channel								
Frequency (MHz)				50320.4	51858.8	53000.0	Tune-up limit (dBm)	MPR (dB)
				2516.01	2592.99	2570		
40	QPSK	1	1	17.94	17.96	17.83	19.0	0.0
Channel								
Frequency (MHz)				50220.0	51858.8	52898.6	Tune-up limit (dBm)	MPR (dB)
				2511	2592.99	2574.88		
30	QPSK	1	1	17.94	17.94	17.83	19.0	0.0
Channel								
Frequency (MHz)				50120.4	51858.8	53098.6	Tune-up limit (dBm)	MPR (dB)
				2506.02	2592.99	2579.99		
20	QPSK	1	1	17.95	17.85	17.85	19.0	0.0
Channel								
Frequency (MHz)				50070.0	51858.8	53649.6	Tune-up limit (dBm)	MPR (dB)
				2503.5	2592.99	2582.48		
15	QPSK	1	1	17.94	17.87	17.85	19.0	0.0
Channel								
Frequency (MHz)				50020.0	51858.8	53100.0	Tune-up limit (dBm)	MPR (dB)
				2501.01	2592.99	2585		
10	QPSK	1	1	17.87	18.00	17.84	19.0	0.0

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BW (MHz)	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)				5062.02	5185.88	5309.74		
				2546.01	2592.99	2546.01		
100	PI2 BPSK	1	1	13.99	14.02	13.99		
100	PI2 BPSK	1	137	13.97	14.02	14.01	15.0	0.0
100	PI2 BPSK	1	271	13.93	14.03	13.94		
100	PI2 BPSK	135	0	13.93	14.04	14.00	15.0	0.0
100	PI2 BPSK	135	69	13.97	14.06	14.00	15.0	0.0
100	PI2 BPSK	135	138	14.01	14.06	13.91	15.0	0.0
100	PI2 BPSK	270	0	13.96	13.99	13.92		
100	QPSK	1	1	14.08	14.10	14.05		
100	QPSK	1	137	13.98	13.98	14.02	15.0	0.0
100	QPSK	1	271	13.92	13.97	13.91		
100	QPSK	135	0	14.00	13.95	13.99	15.0	0.0
100	QPSK	135	69	14.01	14.05	14.01	15.0	0.0
100	QPSK	135	138	13.94	13.99	13.90	15.0	0.0
100	QPSK	270	0	13.92	14.01	13.92	15.0	0.0
100	16QAM	1	1	14.00	14.01	13.96	15.0	0.0
100	64QAM	1	1	13.99	13.98	14.02	15.0	0.0
100	256QAM	1	1	14.01	14.03	13.91	15.0	0.0
Channel								
Frequency (MHz)				5062.00	5185.88	5289.86	Tune-up limit (dBm)	MPR (dB)
				2541	2592.99	2544.88		
90	QPSK	1	1	14.00	13.95	13.99	15.0	0.0
Channel								
Frequency (MHz)				50720.4	51858.8	52998.8	Tune-up limit (dBm)	MPR (dB)
				2536.02	2592.99	2549.99		
80	QPSK	1	1	14.03	14.05	13.99	15.0	0.0
Channel								
Frequency (MHz)				2931.01	2992.99	2955	Tune-up limit (dBm)	MPR (dB)
				14.02	14.04	13.98		
70	QPSK	1	1	14.00	14.04	13.98	15.0	0.0
Channel								
Frequency (MHz)				50500.0	51858.8	53198.6	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2584.99		
60	QPSK	1	1	14.04	13.99	13.90	15.0	0.0
Channel								
Frequency (MHz)				50420.4	51858.8	53098.6	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2584.99		
50	QPSK	1	1	13.97	14.00	13.92	15.0	0.0
Channel								
Frequency (MHz)				50320.4	51858.8	53000.0	Tune-up limit (dBm)	MPR (dB)
				2516.01	2592.99	2570		
40	QPSK	1	1	14.03	14.04	13.93	15.0	0.0
Channel								
Frequency (MHz)				50220.0	51858.8	52898.6	Tune-up limit (dBm)	MPR (dB)
				2511	2592.99	2574.88		
30	QPSK	1	1	13.97	13.94	13.99	15.0	0.0
Channel								
Frequency (MHz)				50120.4	51858.8	53098.6	Tune-up limit (dBm)	MPR (dB)
				2506.02	2592.99	2579.99		
20	QPSK	1	1	13.98	14.05	14.01	15.0	0.0
Channel								
Frequency (MHz)				50070.0	51858.8	53649.6	Tune-up limit (dBm)	MPR (dB)
				2503.5	2592.99	2582.48		
15	QPSK	1	1	14.00	14.02	13.96	15.0	0.0
Channel								
Frequency (MHz)				50020.0	51858.8	53100.0	Tune-up limit (dBm)	MPR (dB)
				2501.01	2592.99	2585		
10	QPSK	1	1	14.00	13.96	13.91	15.0	0.0

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BW (MHz)	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)				5062.02	5185.88	5309.74		
				2546.01	2592.99	2546.01		
100	PI2 BPSK	1	1	21.74	21.85	21.77		
100	PI2 BPSK	1	137	21.79	21.86	21.82	23.0	0.0
100	PI2 BPSK	1	271	21.77	21.83	21.78		
100	PI2 BPSK	135	0	21.85	21.83	21.84	23.0	0.0
100	PI2 BPSK	135	69	21.77	21.80	21.78	23.0	0.0
100	PI2 BPSK	135	138	21.83	21.81	21.75	23.0	0.0
100	PI2 BPSK	270	0	21.81	21.87	21.73		
100	QPSK	1	1	21.80	21.85	21.88		
100	QPSK	1	137	21.88	21.90	21.73	23.0	0.0
100	QPSK	1	271	21.78	21.83	21.79		
100	QPSK	135	0	21.75	21.83	21.74	23.0	0.0
100	QPSK	135	69	21.80	21.80	21.75	23.0	0.0
100	QPSK	135	138	21.81	21.85	21.72	23.0	0.0
100	QPSK	270	0	21.78	21.88	21.74	23.0	0.0
100	16QAM	1	1	21.82	21.91	21.77	23.0	0.0
100	64QAM	1	1	21.82	21.85	21.80	22.5	0.5
100	256QAM	1	1	21.82	21.85	21.80	20.5	2.5
Channel								
Frequency (MHz)				5062.00	5185.88	5289.86	Tune-up limit (dBm)	MPR (dB)
				2541	2592.99	2544.88		
90	QPSK	1	1	21.84	21.87	21.73	23.0	0.0
Channel								
Frequency (MHz)				50720.4	51858.8	52998.8	Tune-up limit (dBm)	MPR (dB)
				2536.02	2592.99	2549.99		
80	QPSK	1	1	21.74	21.86	21.75	23.0	0.0
Channel								
Frequency (MHz)				2931.01	2992.99	2955	Tune-up limit (dBm)	MPR (dB)
				21.80	21.88	21.74		
70	QPSK	1	1	21.80	21.88	21.74	23.0	0.0
Channel								
Frequency (MHz)				50500.0	51858.8	53198.6	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2584.99		
60	QPSK	1	1	21.80	21.84	21.82	23.0	0.0
Channel								
Frequency (MHz)				50420.4	51858.8	53098.6	Tune-up limit (dBm)	MPR (dB)
				2521.02	2592.99	2584.99		
50	QPSK	1	1	21.82	21.81	21.80	23.0	0.0
Channel								
Frequency (MHz)				50320.4	51858.8	53000.0	Tune-up limit (dBm)	MPR (dB)
				2516.01	2592.99	2570		
40	QPSK	1	1	21.75	21.91	21.74	23.0	0.0
Channel								
Frequency (MHz)				50220.0	51858.8	52898.6	Tune-up limit (dBm)	MPR (dB)
				2511	2592.99	2574.88		
30	QPSK	1	1	21.80	21			



Part27Q_n78_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PB2 BPSK	1	1	18.28						
100	PB2 BPSK	1	137	18.24						
100	PB2 BPSK	1	273	18.24						
100	PB2 BPSK	135	9	18.28				17.5	0.0	
100	PB2 BPSK	135	98	18.28				17.5	0.0	
100	PB2 BPSK	135	138	18.28				17.5	0.0	
100	PB2 BPSK	270	9	18.28				17.5	0.0	
100	QPSK	1	1	18.11						
100	QPSK	1	137	18.11						
100	QPSK	1	273	18.11						
100	QPSK	135	9	18.28				17.5	0.0	
100	QPSK	135	98	18.28				17.5	0.0	
100	QPSK	135	138	18.28				17.5	0.0	
100	QPSK	270	9	18.28				17.5	0.0	
100	ISDM	1	1	18.28				17.5	0.0	
100	ISDM	1	1	18.28				17.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.08	18.08	18.08				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.08	18.08	18.08				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.08	18.08	18.08				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.02	18.08	18.00				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.02	18.08	18.00				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.00	18.02	18.00				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.00	18.02	18.00				
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.00	18.00	18.00				
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.00	18.00	18.00				
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.04	18.02	18.04				
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.04	18.02	18.04				
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.07	18.05	18.07				
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.08	18.07	18.07				
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.08	18.07	18.07				
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.07	18.07	18.07				

Part27Q_n78_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PB2 BPSK	1	1	18.28						
100	PB2 BPSK	1	137	18.11				17.5	0.0	
100	PB2 BPSK	1	273	18.12				17.5	0.0	
100	PB2 BPSK	135	9	18.08				17.5	0.0	
100	PB2 BPSK	135	98	18.08				17.5	0.0	
100	PB2 BPSK	135	138	18.08				17.5	0.0	
100	PB2 BPSK	270	9	18.08				17.5	0.0	
100	QPSK	1	1	18.22						
100	QPSK	1	137	18.16				17.5	0.0	
100	QPSK	1	273	18.15				17.5	0.0	
100	QPSK	135	9	18.14				17.5	0.0	
100	QPSK	135	98	18.15				17.5	0.0	
100	QPSK	135	138	18.08				17.5	0.0	
100	QPSK	270	9	18.11				17.5	0.0	
100	ISDM	1	1	18.22				17.5	0.0	
100	ISDM	1	1	18.15				17.5	0.0	
100	ISDM	1	1	18.08				17.5	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.22	18.22	18.22				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.22	18.22	18.22				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.13	18.22	18.12				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.21	18.15	18.12				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.21	18.15	18.12				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.12	18.17	18.17				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.12	18.17	18.17				
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.21	18.19	18.19				
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.21	18.19	18.19				
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.20	18.18	18.18				
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.20	18.18	18.18				
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.19	18.20	18.20				
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.19	18.20	18.20				
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.19	18.20	18.21				
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.19	18.20	18.21				
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.13	18.13	18.13				
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.13	18.13	18.13				
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.22	18.17	18.17				

Part27Q_n78_Ant 12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PB2 BPSK	1	1	18.28						
100	PB2 BPSK	1	137	18.24			19.0	0.0		
100	PB2 BPSK	1	273	18.25			19.0	0.0		
100	PB2 BPSK	135	9	18.19			19.0	0.0		
100	PB2 BPSK	135	98	18.20			19.0	0.0		
100	PB2 BPSK	135	138	18.07			19.0	0.0		
100	PB2 BPSK	270	9	18.24			19.0	0.0		
100	QPSK	1	1	18.20						
100	QPSK	1	137	18.21			19.0	0.0		
100	QPSK	1	273	18.21			19.0	0.0		
100	QPSK	135	9	18.21			19.0	0.0		
100	QPSK	135	98	18.20			19.0	0.0		
100	QPSK	135	138	18.15			19.0	0.0		
100	QPSK	270	9	18.24			19.0	0.0		
100	ISDM	1	1	18.21			19.0	0.0		
100	ISDM	1	1	18.24			19.0	0.0		
100	ISDM	1	1	18.20			19.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.20	18.20	18.20				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.20	18.20	18.20				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.20	18.24	18.20				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.28	18.21	18.28				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.28	18.21	18.28				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.29	18.29	18.29				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.29	18.29	18.29				
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.29	18.29	18.29				
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.29	18.29	18.29				
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.24	18.23	18.23				
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.24	18.23	18.23				
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.22	18.23	18.23				
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.22	18.23	18.23				
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.21	18.22	18.23				
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.21	18.22	18.23				
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.22	18.20	18.21				
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.22	18.20	18.21				
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.23	18.23	18.24				

Part27Q_n78_Ant 12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PB2 BPSK	1	1	18.21						
100	PB2 BPSK	1	137	18.21				19.0	0.0	
100	PB2 BPSK	1	273	18.21				19.0	0.0	
100	PB2 BPSK	135	9	18.20				19.0	0.0	
100	PB2 BPSK	135	98	18.20				19.0	0.0	
100	PB2 BPSK	135	138	18.05				19.0	0.0	
100	PB2 BPSK	270	9	18.21				19.0	0.0	
100	QPSK	1	1	18.21						
100	QPSK	1	137	18.22				19.0	0.0	
100	QPSK	1	273	18.22				19.0	0.0	
100	QPSK	135	9	18.21				19.0	0.0	
100	QPSK	135	98	18.21				19.0	0.0	
100	QPSK	135	138	18.08				19.0	0.0	
100	QPSK	270	9	18.21				19.0	0.0	
100	ISDM	1	1	18.21				19.0	0.0	
100	ISDM	1	1	18.24				19.0	0.0	
100	ISDM	1	1	18.21				19.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.22	18.22	18.22				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.22	18.22	18.22				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.14	18.14	18.15				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.18	18.16	18.20				
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.18	18.16	18.20				
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.22	18.13	18.12				
Channel										
Frequency (MHz)										
60	QPSK	1</								



Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	18.78			20.0	0.0		
100	P12 BPSK	1	137	18.82			20.0	0.0		
100	P12 BPSK	1	273	18.81			20.0	0.0		
100	P12 BPSK	135	5	18.87			20.0	0.0		
100	P12 BPSK	135	138	18.82			20.0	0.0		
100	P12 BPSK	135	138	18.78			20.0	0.0		
100	P12 BPSK	270	5	18.82			20.0	0.0		
100	QPSK	1	1	18.82			20.0	0.0		
100	QPSK	1	137	18.78			20.0	0.0		
100	QPSK	1	273	18.77			20.0	0.0		
100	QPSK	135	5	18.80			20.0	0.0		
100	QPSK	135	138	18.82			20.0	0.0		
100	QPSK	135	138	18.78			20.0	0.0		
100	QPSK	270	5	18.82			20.0	0.0		
100	QPSK	270	5	18.82			20.0	0.0		
100	4QAM	1	1	18.74			20.0	0.0		
100	4QAM	1	1	18.78			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.81			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.42			20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.53			20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.48			20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.44			20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.49			20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.49			20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.48			20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.52			20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.52			20.0	0.0		

Part27Q_n78_Ant 21										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	18.83			20.0	0.0		
100	P12 BPSK	1	137	18.82			20.0	0.0		
100	P12 BPSK	1	273	18.80			20.0	0.0		
100	P12 BPSK	135	5	18.84			20.0	0.0		
100	P12 BPSK	135	138	18.82			20.0	0.0		
100	P12 BPSK	270	5	18.82			20.0	0.0		
100	QPSK	1	1	18.82			20.0	0.0		
100	QPSK	1	137	18.82			20.0	0.0		
100	QPSK	1	273	18.81			20.0	0.0		
100	QPSK	135	5	18.80			20.0	0.0		
100	QPSK	135	138	18.82			20.0	0.0		
100	QPSK	270	5	18.82			20.0	0.0		
100	QPSK	270	5	18.82			20.0	0.0		
100	4QAM	1	1	18.84			20.0	0.0		
100	4QAM	1	1	18.82			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.43			20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.52			20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.48			20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.53			20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.47			20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.49			20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.50			20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.54			20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.52			20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.52			20.0	0.0		

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	17.53			18.0	0.0		
100	P12 BPSK	1	137	17.52			18.0	0.0		
100	P12 BPSK	1	273	17.48			18.0	0.0		
100	P12 BPSK	135	5	17.54			18.0	0.0		
100	P12 BPSK	135	138	17.52			18.0	0.0		
100	P12 BPSK	270	5	17.52			18.0	0.0		
100	QPSK	1	1	17.52			18.0	0.0		
100	QPSK	1	137	17.44			18.0	0.0		
100	QPSK	1	273	17.42			18.0	0.0		
100	QPSK	135	5	17.45			18.0	0.0		
100	QPSK	135	138	17.45			18.0	0.0		
100	QPSK	270	5	17.42			18.0	0.0		
100	4QAM	1	1	17.42			18.0	0.0		
100	4QAM	1	1	17.48			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.00			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.17			18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.74			18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.79			18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.81			18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.89			18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.84			18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.81			18.0	0.0		

Part27Q_n78_Ant 23										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	17.44			18.0	0.0		
100	P12 BPSK	1	137	17.42			18.0	0.0		
100	P12 BPSK	1	273	17.44			18.0	0.0		
100	P12 BPSK	135	5	17.44			18.0	0.0		
100	P12 BPSK	135	138	17.42			18.0	0.0		
100	P12 BPSK	270	5	17.42			18.0	0.0		
100	QPSK	1	1	17.42			18.0	0.0		
100	QPSK	1	137	17.42			18.0	0.0		
100	QPSK	1	273	17.42			18.0	0.0		
100	QPSK	135	5	17.42			18.0	0.0		
100	QPSK	135	138	17.42			18.0	0.0		
100	QPSK	270	5	17.42			18.0	0.0		
100	4QAM	1	1	17.42			18.0	0.0		
100	4QAM	1	1	17.48			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.00			18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.17			18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.79			18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.81			18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.89			18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.79			18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.82			18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.84			18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.81			18.0	0.0		



WLAN/Bluetooth Power

<WLAN 2.4GHz FCC>

Mode	Channel	Frequency (MHz)	Full Power		Head/Receiver on Standalone		Head/Receiver on Simultaneous		Body/Receiver off Standalone		Body/Receiver off Simultaneous/Hotspot on		Duty Cycle %	
			Ant 22		Ant 22		Ant 22		Ant 22		Ant 22			
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.40	20.00	16.80	17.50	14.40	15.50	19.40	20.00	19.40	20.00	98.80
		6	2437	19.10	20.00	16.50	17.50	14.10	15.50	19.10	20.00	19.10	20.00	
		11	2462	19.20	20.00	16.70	17.50	14.20	15.50	19.20	20.00	19.20	20.00	
	802.11g 6Mbps	1	2412	17.80	19.50	15.20	17.50	12.80	15.50	17.80	19.50	17.80	19.50	97.84
		6	2437	17.40	19.00	14.80	17.50	12.40	15.50	17.40	19.00	17.40	19.00	
		11	2462	17.16	18.50	14.56	17.50	12.16	15.50	17.16	18.50	17.16	18.50	
	802.11n-HT20 MCS0	1	2412	16.80	18.50	14.20	17.50	11.80	15.50	16.80	18.50	16.80	18.50	98.05
		6	2437	16.30	18.00	13.70	17.50	11.30	15.50	16.30	18.00	16.30	18.00	
		11	2462	16.60	18.00	14.00	17.50	11.60	15.50	16.60	18.00	16.60	18.00	
	802.11n-VHT40 MCS0	3	2422	17.10	18.00	14.50	17.50	11.90	15.50	17.10	18.00	17.10	18.00	94.67
		6	2437	17.30	18.00	14.70	17.50	12.10	15.50	17.30	18.00	17.30	18.00	
9		2452	16.48	18.50	13.88	17.50	11.48	15.50	16.48	18.50	16.48	18.50		
802.11ac-VHT20 MCS0	1	2412	16.54	18.00	13.94	17.50	11.54	15.50	16.54	18.00	16.54	18.00	98.05	
	6	2437	16.24	18.00	13.64	17.50	11.24	15.50	16.24	18.00	16.24	18.00		
	11	2462	16.55	18.00	13.95	17.50	11.55	15.50	16.55	18.00	16.55	18.00		
802.11ac-VHT40 MCS0	3	2422	17.00	18.00	14.40	17.50	12.00	15.50	17.00	18.00	17.00	18.00	94.67	
	6	2437	17.21	18.00	14.61	17.50	12.21	15.50	17.21	18.00	17.21	18.00		
	9	2452	16.41	18.50	13.81	17.50	11.41	15.50	16.41	18.50	16.41	18.50		

<WLAN 5GHz FCC>

Mode	Channel	Frequency (MHz)	Full Power		Head/Receiver on Standalone		Head/Receiver on Simultaneous		Body/Receiver off Standalone		Body/Receiver off Simultaneous/Hotspot on		Duty Cycle %
			Ant 22		Ant 22		Ant 22		Ant 22		Ant 22		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.12	20.00	13.10	13.90	12.00	13.72	20.00	20.00	16.60	97.90
		40	5200	18.63	20.00	13.59	13.90	12.50	13.83	20.00	20.00	16.50	
		44	5220	18.55	20.00	13.50	13.90	12.50	13.83	20.00	20.00	16.50	
	802.11n-HT20 MCS0	44	5240	18.03	19.50	13.00	13.90	12.00	13.83	19.50	19.50	16.50	98.12
		48	5260	18.31	19.50	13.29	13.90	12.29	13.81	19.50	19.50	16.50	
		52	5280	18.15	19.50	13.13	13.90	12.03	13.85	19.50	19.50	16.50	
	802.11n-VHT40 MCS0	44	5240	18.03	19.50	13.00	13.90	12.00	13.83	19.50	19.50	16.50	96.25
		48	5260	18.31	19.50	13.29	13.90	12.29	13.81	19.50	19.50	16.50	
		52	5280	18.15	19.50	13.13	13.90	12.03	13.85	19.50	19.50	16.50	
	802.11ac-VHT20 MCS0	44	5240	17.77	19.00	12.77	13.90	11.67	13.83	19.00	19.00	16.50	96.58
		48	5260	17.65	19.00	12.65	13.90	11.55	13.83	19.00	19.00	16.50	
52		5280	17.41	19.00	12.41	13.90	11.31	13.85	19.00	19.00	16.50		
802.11ac-VHT40 MCS0	48	5240	17.66	19.00	12.66	13.90	11.56	13.83	19.00	19.00	16.50	93.54	
	52	5280	17.70	19.00	12.70	13.90	11.60	13.83	19.00	19.00	16.50		
	42	5210	17.99	19.00	12.99	13.90	11.89	13.83	19.00	19.00	16.50		
802.11ac-VHT80 MCS0	42	5210	16.25	17.00	12.60	13.50	11.15	12.00	16.25	17.00	15.59	16.50	92.35

Mode	Channel	Frequency (MHz)	Full Power		Head/Receiver on Standalone		Head/Receiver on Simultaneous		Body/Receiver off Standalone		Body/Receiver off Simultaneous		Duty Cycle %
			Ant 22		Ant 22		Ant 22		Ant 22		Ant 22		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	52	5280	18.86	20.00	13.80	13.90	12.00	13.80	20.00	20.00	16.60	97.90
		56	5300	18.92	20.00	13.86	13.90	12.06	13.80	20.00	20.00	16.60	
		60	5320	19.00	20.00	13.94	13.90	12.14	13.80	20.00	20.00	16.60	
	802.11n-HT20 MCS0	52	5280	18.11	19.50	13.10	13.90	12.00	13.83	19.50	19.50	16.50	98.12
		56	5300	18.16	19.50	13.15	13.90	12.05	13.85	19.50	19.50	16.50	
		60	5320	18.21	19.50	13.20	13.90	12.10	13.85	19.50	19.50	16.50	
	802.11n-VHT40 MCS0	52	5280	18.39	19.50	13.39	13.90	12.29	13.83	19.50	19.50	16.50	96.25
		56	5300	18.38	19.50	13.38	13.90	12.28	13.83	19.50	19.50	16.50	
		60	5320	18.39	19.50	13.39	13.90	12.29	13.83	19.50	19.50	16.50	
	802.11ac-VHT20 MCS0	52	5280	17.62	19.00	12.62	13.90	11.52	13.83	19.00	19.00	16.50	96.58
		56	5300	17.69	19.00	12.69	13.90	11.59	13.83	19.00	19.00	16.50	
60		5320	17.85	19.00	12.85	13.90	11.75	13.83	19.00	19.00	16.50		
802.11ac-VHT40 MCS0	54	5310	18.21	19.00	13.21	13.90	12.11	13.83	19.00	19.00	16.50	93.54	
	58	5330	18.37	19.00	13.37	13.90	12.27	13.83	19.00	19.00	16.50		
	58	5290	15.41	16.50	12.83	13.50	11.27	12.00	15.41	16.50	14.32		15.00

Mode	Channel	Frequency (MHz)	Full Power		Head/Receiver on Standalone		Head/Receiver on Simultaneous		Body/Receiver off Standalone		Body/Receiver off Simultaneous		Duty Cycle %
			Ant 22		Ant 22		Ant 22		Ant 22		Ant 22		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	100	5500	18.20	19.50	13.20	13.90	12.00	13.80	19.50	19.50	16.50	97.90
		116	5520	18.06	20.00	13.06	13.90	11.86	13.80	20.00	20.00	16.50	
		124	5520	18.73	20.00	13.73	13.90	12.53	13.80	20.00	20.00	16.50	
	802.11n-HT20 MCS0	100	5500	14.88	16.50	11.88	13.90	10.78	13.83	16.50	16.50	16.50	98.12
		116	5520	15.24	16.50	12.24	13.90	11.14	13.83	16.50	16.50	16.50	
		124	5520	15.11	16.50	12.11	13.90	11.01	13.83	16.50	16.50	16.50	
	802.11n-VHT40 MCS0	100	5500	14.88	16.50	11.88	13.90	10.78	13.83	16.50	16.50	16.50	96.25
		116	5520	15.24	16.50	12.24	13.90	11.14	13.83	16.50	16.50	16.50	
		124	5520	15.11	16.50	12.11	13.90	11.01	13.83	16.50	16.50	16.50	
	802.11ac-VHT20 MCS0	100	5500	14.80	16.50	11.80	13.90	10.70	13.83	16.50	16.50	16.50	96.58
		116	5520	15.20	16.50	12.20	13.90	11.10	13.83	16.50	16.50	16.50	
124		5520	15.07	16.50	12.07	13.90	10.97	13.83	16.50	16.50	16.50		
802.11ac-VHT40 MCS0	102	5510	16.50	17.50	13.50	13.90	12.40	13.83	17.50	17.50	16.50	93.54	
	110	5500	16.50	17.50	13.50	13.90	12.40	13.83	17.50	17.50	16.50		
	128	5630	17.00	19.00	14.00	13.90	12.90	13.83	19.00	19.00	16.50		
802.11ac-VHT80 MCS0	102	5510	16.75	19.00	13.75	13.90	12.65	13.83	19.00	19.00	16.50	92.35	
	110	5500	17.70	19.00	14.70	13.90	13.60	13.83	19.00	19.00	16.50		
	138	5690	16.96	17.50	13.96	13.90	12.86	13.83	17.50	17.50	14.43		16.50

Mode	Channel	Frequency (MHz)	Full Power		Head/Receiver on Standalone		Head/Receiver on Simultaneous		Body/Receiver off Standalone		Body/Receiver off Simultaneous/Hotspot on		Duty Cycle %
			Ant 22		Ant 22		Ant 22		Ant 22		Ant 22		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	148	5745	19.00	20.00	14.00	14.00	12.50	15.00	20.00	20.00	17.00	97.90
		157	5785	18.44	20.00	13.44	14.00	12.50	15.00	20.00	20.00	17.00	
		169	5825	18.66	20.00	13.66	14.00	12.50	15.00	20.00	20.00	17.00	
	802.11n-HT20 MCS0	148	5745	18.63	19.50	13.63	14.00	12.50	15.00	19.50	19.50	17.00	98.12
		157	5785	18.00	19.50	13.00	14.00	12.50	15.00	19.50	19.50	17.00	
		169	5825	18.01	19.50	13.01	14.00	12.50	15.00	19.50	19.50	17.00	
	802.11n-VHT40 MCS0	151	5795	18.51	19.00	13.51	14.00	12.50	15.00	19.00	19.00	17.00	



<Bluetooth FCC>

			Art. 22		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.20	9.60	9.60
	CH 39	2441	13.10	10.30	10.30
	CH 75	2480	12.70	9.90	9.90
Tune-up Limit			14	11	11

			Art. 22		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	Tune-up Limit
LE	CH 00	2402	6.30	6.40	8
	CH 19	2440	7.70	7.80	9.5
	CH 39	2480	8.20	8.20	9.5