



Full & Default Power Mode_Main PA

GSM850 Ant 1 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	830.4	848.8	824.2	830.4	848.8	824.2	830.4
GSM 1 Tx slot	32.28	32.29	32.28	33.53	33.28	33.29	33.28	24.50
GPRS 1 Tx slot	32.24	32.26	32.24	33.50	33.24	33.26	33.24	24.50
GPRS 2 Tx slots	31.43	31.53	31.51	32.50	25.43	25.53	25.51	26.50
GPRS 3 Tx slots	29.67	29.75	29.77	31.00	25.41	25.49	25.51	26.74
GPRS 4 Tx slots	28.63	28.87	28.73	30.00	25.63	25.87	25.73	27.00
EDGE 1 Tx slot	26.87	26.99	26.94	28.00	17.87	17.99	17.94	19.00
EDGE 2 Tx slots	23.95	23.99	23.90	25.00	17.95	17.99	17.90	19.00
EDGE 3 Tx slots	22.99	22.15	22.13	23.20	17.83	17.89	17.87	16.94
EDGE 4 Tx slots	20.53	20.98	20.94	22.00	17.63	17.88	17.94	19.00

GSM1900 Ant 1 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1850.2	1850.8	1850.2	1850.2	1850.8	1850.8	1850.8
GSM 1 Tx slot	29.18	29.45	29.43	30.50	20.18	20.45	20.43	21.50
GPRS 1 Tx slot	29.31	29.38	29.36	30.50	20.31	20.38	20.36	21.50
GPRS 2 Tx slots	26.46	26.47	26.36	28.50	22.46	22.47	22.36	23.50
GPRS 3 Tx slots	26.74	26.73	26.67	28.00	22.48	22.47	22.41	23.74
GPRS 4 Tx slots	25.80	25.81	25.59	27.00	22.60	22.61	22.59	24.00
EDGE 1 Tx slot	25.84	25.90	25.81	27.00	18.84	18.90	18.81	18.00
EDGE 2 Tx slots	22.85	22.86	22.80	24.00	16.85	16.88	16.80	16.00
EDGE 3 Tx slots	21.02	21.08	21.01	22.20	16.76	16.82	16.75	17.94
EDGE 4 Tx slots	19.62	19.87	19.82	21.00	16.62	16.67	16.62	16.00

Band TX Channel	WCDMA II Ant 1			Tune-up Limit (dBm)	WCDMA IV Ant 1			Tune-up Limit (dBm)	WCDMA V Ant 1			Tune-up Limit (dBm)	
	9662	9490	9638		1312	1413	1513		4132	4162	4233		
Frequency (MHz)	9674	9600	9638	1327.4	1338	1338	1338	4284	4407	4458	4284	4407	4458
3GPP Rel 99 - AMC 12.2kbps	22.03	22.94	22.83	24.00	23.83	23.89	23.80	25.00	24.33	24.48	24.55	25.50	25.50
3GPP Rel 99 - RMC 12.2kbps	22.91	22.98	22.93	24.00	23.91	23.96	23.92	25.00	24.48	24.50	24.44	25.50	25.50
3GPP Rel 6 - HSDPA Subtest-1	21.92	21.96	21.87	23.00	22.91	22.91	22.84	24.00	23.52	23.54	23.46	24.50	24.50
3GPP Rel 6 - HSDPA Subtest-2	21.86	21.96	21.97	23.00	22.93	22.93	22.94	24.00	23.50	23.47	23.43	24.50	24.50
3GPP Rel 6 - HSDPA Subtest-3	21.36	21.43	21.47	22.50	22.38	22.45	22.38	23.50	23.94	23.91	22.90	24.00	24.00
3GPP Rel 6 - HSDPA Subtest-4	21.37	21.53	21.43	22.50	22.48	22.47	22.40	23.50	23.91	22.98	22.91	24.00	24.00
3GPP Rel 8 - DC-HSDPA Subtest-1	21.89	22.04	21.88	23.00	22.89	23.02	22.91	24.00	23.46	23.56	23.41	24.50	24.50
3GPP Rel 8 - DC-HSDPA Subtest-2	21.90	22.01	21.94	23.00	22.94	22.98	22.96	24.00	23.47	23.53	23.48	24.50	24.50
3GPP Rel 8 - DC-HSDPA Subtest-3	21.38	21.44	21.45	22.50	22.40	22.51	22.45	23.50	23.91	23.94	22.94	24.00	24.00
3GPP Rel 8 - DC-HSDPA Subtest-4	21.46	21.48	21.45	22.50	22.42	22.41	22.46	23.50	23.91	23.91	22.97	24.00	24.00
3GPP Rel 6 - HSUPA Subtest-1	21.67	22.02	21.99	23.00	22.95	22.98	22.95	24.00	23.49	23.52	23.42	24.50	24.50
3GPP Rel 6 - HSUPA Subtest-2	19.98	19.99	19.98	21.00	20.98	20.95	20.94	22.00	21.48	21.50	21.41	22.50	22.50
3GPP Rel 6 - HSUPA Subtest-3	20.96	21.03	20.94	22.00	21.90	21.93	21.89	23.00	22.51	22.48	22.38	23.50	23.50
3GPP Rel 6 - HSUPA Subtest-4	19.86	19.93	19.88	21.00	20.88	20.99	20.91	22.00	21.46	21.51	21.45	22.50	22.50
3GPP Rel 6 - HSUPA Subtest-5	21.91	22.00	21.96	23.00	22.92	22.98	22.95	24.00	23.45	23.49	23.49	24.50	24.50
3GPP Rel 7 - HSPA+ (E-UMTS) Subtest-1	19.38	19.49	19.46	20.50	20.38	20.42	20.36	21.50	20.96	21.01	20.97	22.00	22.00



Band 2 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MPE (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.95	22.98	22.92				
20	QPSK	1	99	22.88	22.95	22.80		24	0	
20	QPSK	50	0	21.63	22.00	21.97				
20	QPSK	50	24	21.63	21.99	21.88				
20	QPSK	50	50	21.63	21.99	21.84		23	1	
20	QPSK	100	0	21.50	21.98	21.89				
20	QPSK	100	24	21.50	21.94	21.87				
20	HQAM	1	49	21.82	21.87	21.84		23	1	
20	HQAM	1	99	21.80	21.89	21.77				
20	HQAM	50	0	20.99	21.01	21.00				
20	HQAM	50	24	20.97	21.00	20.98		22	2	
20	HQAM	100	0	20.78	21.04	20.90				
20	HQAM	100	24	20.97	20.99	20.98				
20	HQAM	1	0	20.90	20.95	20.90				
20	HQAM	1	49	20.79	20.85	20.88		22	2	
20	HQAM	50	0	20.98	20.84	20.92				
20	HQAM	50	0	19.98	19.95	20.01				
20	HQAM	50	24	19.98	19.95	19.83		21	3	
20	HQAM	100	0	19.91	19.95	19.95				
20	HQAM	1	0	17.79	17.81	17.87				
20	HQAM	1	49	17.78	17.80	17.82		19	5	
20	HQAM	50	0	17.82	17.80	17.84				
20	HQAM	50	24	17.82	17.80	17.80		19	5	
20	HQAM	100	0	17.80	17.83	17.85				
20	HQAM	100	24	17.80	17.82	17.83				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.82	22.83	22.88				
15	QPSK	1	74	22.84	22.82	22.70		24	0	
15	QPSK	36	0	21.82	21.85	21.86				
15	QPSK	36	24	21.74	21.89	21.84				
15	QPSK	36	99	21.77	21.88	21.78		23	1	
15	HQAM	1	0	21.80	21.84	21.78				
15	HQAM	1	37	21.73	21.85	21.78		23	1	
15	HQAM	36	0	20.94	20.98	20.96				
15	HQAM	36	20	20.77	20.87	20.75		22	2	
15	HQAM	75	0	20.78	20.92	20.85				
15	HQAM	75	0	20.78	20.87	20.82				
15	HQAM	1	0	20.70	20.88	20.85		22	2	
15	HQAM	36	0	19.98	19.84	19.98				
15	HQAM	36	99	19.97	19.95	19.75		21	3	
15	HQAM	75	0	19.77	19.91	19.92				
15	HQAM	75	0	17.85	17.85	17.88				
15	HQAM	1	37	17.85	17.82	17.81		19	5	
15	HQAM	1	74	17.88	17.88	17.75				
15	HQAM	36	0	17.86	17.86	17.86				
15	HQAM	36	20	17.73	17.86	17.83		19	5	
15	HQAM	36	99	17.68	17.85	17.78				
15	HQAM	75	0	17.78	17.73	17.78				
15	HQAM	75	0	17.78	17.73	17.78				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.74	22.81	22.81				
10	QPSK	1	25	22.74	22.80	22.74		24	0	
10	QPSK	1	49	22.82	22.92	22.73				
10	QPSK	25	0	21.74	21.80	21.80				
10	QPSK	25	25	21.71	21.84	21.80		23	1	
10	QPSK	25	25	21.70	21.86	21.72				
10	HQAM	1	0	21.81	21.89	21.83				
10	HQAM	1	25	21.72	21.82	21.81		23	1	
10	HQAM	25	0	20.95	20.99	20.95				
10	HQAM	25	12	20.74	20.92	20.85		22	2	
10	HQAM	50	0	20.78	20.92	20.85				
10	HQAM	50	0	20.78	20.87	20.77				
10	HQAM	1	0	20.70	20.89	20.77		22	2	
10	HQAM	1	49	20.75	20.75	20.75				
10	HQAM	1	49	20.72	20.78	20.78				
10	HQAM	25	0	20.95	20.99	20.95				
10	HQAM	25	12	20.74	20.92	20.85		22	2	
10	HQAM	50	0	20.78	20.92	20.85				
10	HQAM	50	0	20.78	20.87	20.77				
10	HQAM	1	0	20.70	20.89	20.77		22	2	
10	HQAM	1	49	20.75	20.75	20.75				
10	HQAM	25	0	19.93	19.91	19.90				
10	HQAM	25	12	19.93	19.83	19.88		21	3	
10	HQAM	50	0	19.82	19.90	19.86				
10	HQAM	50	0	19.82	19.85	19.74				
10	HQAM	1	25	17.72	17.78	17.75		19	5	
10	HQAM	1	49	17.77	17.81	17.79				
10	HQAM	25	0	17.60	17.65	17.68				
10	HQAM	25	12	17.68	17.82	17.75		19	5	
10	HQAM	25	25	17.67	17.80	17.77				
10	HQAM	50	0	17.77	17.73	17.62				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.81	22.85	22.81				
5	QPSK	1	12	22.78	22.84	22.74		24	0	
5	QPSK	1	24	22.86	22.88	22.88				
5	QPSK	12	0	21.84	21.85	21.87				
5	QPSK	12	7	21.75	21.92	21.75		23	1	
5	QPSK	12	13	21.73	21.92	21.80				
5	HQAM	1	0	21.81	21.87	21.78				
5	HQAM	1	12	21.78	21.80	21.72		23	1	
5	HQAM	12	0	20.95	20.95	20.95				
5	HQAM	12	7	20.85	20.96	20.83		22	2	
5	HQAM	12	13	20.86	20.97	20.87				
5	HQAM	25	0	20.85	20.91	20.80				
5	HQAM	1	0	20.70	20.87	20.88		22	2	
5	HQAM	1	12	20.62	20.82	20.78				
5	HQAM	12	0	19.94	19.83	19.90				
5	HQAM	12	13	19.91	19.91	19.80		21	3	
5	HQAM	25	0	19.86	19.86	19.86				
5	HQAM	25	0	17.60	17.61	17.60				
5	HQAM	1	12	17.70	17.84	17.82		19	5	
5	HQAM	1	24	17.75	17.84	17.73				
5	HQAM	12	0	17.67	17.69	17.68				
5	HQAM	12	7	17.73	17.87	17.80		19	5	
5	HQAM	25	0	17.66	17.77	17.65				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.85	22.83	22.78				
3	QPSK	1	8	22.72	22.85	22.72		24	0	
3	QPSK	1	14	22.76	22.87	22.76				
3	QPSK	8	0	21.80	21.88	21.80				
3	QPSK	8	4	21.73	21.85	21.82		23	1	
3	QPSK	8	7	21.70	21.85	21.74				
3	HQAM	1	0	21.86	21.85	21.79				
3	HQAM	1	0	21.70	21.86	21.80		23	1	
3	HQAM	8	0	20.90	20.90	20.98				
3	HQAM	8	4	20.74	20.97	20.83		22	2	
3	HQAM	15	0	20.96	20.91	20.92				
3	HQAM	15	0	20.74	20.88	20.81				
3	HQAM	1	0	20.71	20.91	20.86		22	2	
3	HQAM	1	8	20.68	20.73	20.73				
3	HQAM	1	14	20.70	20.71	20.71				
3	HQAM	8	0	19.87	19.84	19.86				
3	HQAM	8	7	19.76	19.96	19.75		21	3	
3	HQAM	15	0	17.67	17.69	17.74				
3	HQAM	15	0	17.68	17.69	17.60				
3	HQAM	8	0	17.64	17.68	17.67		19	5	
3	HQAM	8	4	17.68	17.85	17.82		19	5	
3	HQAM	8	7	17.67	17.89	17.84				
3	HQAM	15	0	17.62	17.79	17.72				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.89	22.96	22.83				
1.4	QPSK	1	3	22.72	22.80	22.74		24	0	
1.4	QPSK	1	5	22.81	22.91	22.77				
1.										



Band 7 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.41	23.47	23.39	24.5	0		
20	QPSK	1	99	23.36	23.41	23.26				
20	QPSK	50	0	22.41	22.52	22.38	23.5	1		
20	QPSK	50	99	22.34	22.37	22.26				
20	QPSK	100	0	22.44	22.49	22.36				
20	HQAM	1	0	22.41	22.44	22.38	23.5	1		
20	HQAM	1	49	22.41	22.43	22.29				
20	HQAM	1	99	22.35	22.46	22.32				
20	HQAM	50	0	21.45	21.51	21.38	22.5	2		
20	HQAM	50	24	21.44	21.41	21.25				
20	HQAM	50	50	21.38	21.40	21.21				
20	HQAM	100	0	21.43	21.51	21.31				
20	HQAM	1	0	21.46	21.38	21.42				
20	HQAM	1	49	21.38	21.47	21.35	22.5	2		
20	HQAM	1	99	21.39	21.43	21.33				
20	HQAM	50	0	20.36	20.54	20.43				
20	HQAM	50	24	20.38	20.53	20.29				
20	HQAM	50	50	20.35	20.41	20.22	21.5	3		
20	HQAM	100	0	20.44	20.44	20.41				
20	ZSSBAM	1	0	18.41	18.53	18.35	19.5	5		
20	ZSSBAM	1	49	18.43	18.32	18.28				
20	ZSSBAM	1	99	18.28	18.40	18.28				
20	ZSSBAM	50	0	18.47	18.52	18.32				
20	ZSSBAM	50	24	18.42	18.48	18.34				
20	ZSSBAM	50	50	18.36	18.40	18.29	19.5	5		
20	ZSSBAM	100	0	18.52	18.60	18.37				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.33	23.34	23.28	24.5	0		
15	QPSK	1	74	23.24	23.35	23.14				
15	QPSK	36	0	22.33	22.45	22.33	23.5	1		
15	QPSK	36	99	22.29	22.30	22.24				
15	HQAM	75	0	22.27	22.42	22.24	23.5	1		
15	HQAM	1	0	22.28	22.40	22.17				
15	HQAM	36	0	21.33	21.44	21.31	22.5	2		
15	HQAM	36	20	21.40	21.37	21.20				
15	HQAM	36	50	20.38	20.33	20.25				
15	HQAM	75	0	21.41	21.40	21.19	22.5	2		
15	HQAM	1	0	21.38	21.25	21.34				
15	HQAM	1	74	21.32	21.36	21.21				
15	HQAM	36	0	20.28	20.40	20.31	21.5	3		
15	HQAM	36	99	20.33	20.34	20.15				
15	HQAM	36	99	20.33	20.34	20.15				
15	HQAM	75	0	20.35	20.42	20.39				
15	ZSSBAM	1	0	18.28	18.30	18.22	19.5	5		
15	ZSSBAM	1	74	18.19	18.31	18.19				
15	ZSSBAM	36	0	18.26	18.40	18.26				
15	ZSSBAM	36	20	18.28	18.37	18.25				
15	ZSSBAM	36	50	18.31	18.32	18.23	19.5	5		
15	ZSSBAM	75	0	18.27	18.41	18.27				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.33	23.40	23.36	24.5	0		
10	QPSK	1	49	23.27	23.36	23.16				
10	QPSK	12	0	22.27	22.28	22.13	23.5	1		
10	QPSK	25	0	22.27	22.28	22.13				
10	QPSK	25	25	22.28	22.26	22.19				
10	HQAM	1	0	22.34	22.41	22.25	23.5	1		
10	HQAM	1	25	22.29	22.30	22.18				
10	HQAM	12	0	21.36	21.37	21.15	22.5	2		
10	HQAM	12	12	21.36	21.29	21.22				
10	HQAM	25	0	21.34	21.45	21.25				
10	HQAM	1	0	21.39	21.36	21.36	22.5	2		
10	HQAM	1	25	21.32	21.37	21.24				
10	HQAM	1	49	21.23	21.30	21.29				
10	HQAM	25	0	20.31	20.41	20.30	21.5	3		
10	HQAM	25	25	20.25	20.36	20.08				
10	HQAM	50	0	20.37	20.38	20.35				
10	ZSSBAM	1	0	18.30	18.44	18.30	19.5	5		
10	ZSSBAM	1	25	18.36	18.30	18.21				
10	ZSSBAM	1	49	18.21	18.29	18.13				
10	ZSSBAM	25	0	18.25	18.50	18.18				
10	ZSSBAM	25	12	18.37	18.44	18.26	19.5	5		
10	ZSSBAM	25	25	18.25	18.35	18.21				
10	ZSSBAM	50	0	18.29	18.37	18.18				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.36	23.42	23.26	24.5	0		
5	QPSK	1	12	23.23	23.32	23.29				
5	QPSK	1	24	23.33	23.27	23.13				
5	QPSK	12	0	22.29	22.44	22.28	23.5	1		
5	QPSK	12	7	22.33	22.27	22.15				
5	QPSK	12	13	22.23	22.30	22.24				
5	HQAM	1	0	22.33	22.44	22.27	23.5	1		
5	HQAM	1	12	22.36	22.32	22.26				
5	HQAM	12	0	21.39	21.36	21.32	22.5	2		
5	HQAM	12	7	21.33	21.30	21.23				
5	HQAM	25	0	21.40	21.41	21.22				
5	HQAM	1	0	21.36	21.25	21.37	22.5	2		
5	HQAM	1	12	21.33	21.43	21.21				
5	HQAM	1	24	21.25	21.29	21.24				
5	HQAM	12	0	20.29	20.51	20.38	21.5	3		
5	HQAM	12	13	20.29	20.25	20.24				
5	HQAM	25	0	20.34	20.37	20.32				
5	ZSSBAM	1	0	18.29	18.44	18.31	19.5	5		
5	ZSSBAM	1	12	18.30	18.27	18.16				
5	ZSSBAM	1	24	18.20	18.27	18.16				
5	ZSSBAM	12	0	18.30	18.39	18.30				
5	ZSSBAM	12	7	18.30	18.37	18.21	19.5	5		
5	ZSSBAM	25	0	18.29	18.38	18.17				

Band 12 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.29	24.45	24.37	25.5	0		
10	QPSK	1	25	24.21	24.37	24.24				
10	QPSK	1	49	24.31	24.34	24.25				
10	QPSK	25	0	23.42	23.45	23.37	24.5	1		
10	QPSK	25	12	23.32	23.40	23.25				
10	QPSK	25	25	23.34	23.37	23.20				
10	HQAM	50	0	23.25	23.42	23.35	24.5	1		
10	HQAM	50	0	23.27	23.40	23.28				
10	HQAM	1	25	23.40	23.40	23.28				
10	HQAM	1	49	23.25	23.28	23.25	23.5	2		
10	HQAM	1	99	22.47	22.41	22.32				
10	HQAM	25	12	22.33	22.42	22.23	23.5	2		
10	HQAM	25	25	22.27	22.37	22.24				
10	HQAM	50	0	22.30	22.45	22.31				
10	HQAM	1	0	22.39	22.42	22.35				
10	HQAM	1	25	22.42	22.37	22.28	23.5	2		
10	HQAM	25	0	21.41	21.48	21.34				
10	HQAM	25	12	21.26	21.36	21.24	22.5	3		
10	HQAM	25	25	21.35	21.30	21.24				
10	HQAM	50	0	21.29	21.45	21.34				
10	ZSSBAM	1	0	19.44	19.43	19.40	20.5	5		
10	ZSSBAM	1	25	19.30	19.40	19.27				
10	ZSSBAM	1	49	19.39	19.32	19.26				
10	ZSSBAM	25	0	19.22	19.30	19.23	20.5	5		
10	ZSSBAM	25	12	19.35	19.39	19.34				
10	ZSSBAM	25	25	19.41	19.45	19.28				
10	ZSSBAM	50	0	19.25	19.40	19.27				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.26	24.43	24.29	25.5	0		
5	QPSK	1	24	24.24	24.26	24.16				
5	QPSK	12	0	23.38	23.31	23.27	24.5	1		
5	QPSK	12	7	23.19						



Band 17 Ant 1										
BW (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)										
10	QPSK	1	0	24.36	24.37	24.38		25.5	0	
10	QPSK	5	24	24.20	24.35	24.41				
10	QPSK	1	48	24.22	24.23	24.18				
10	QPSK	25	0	23.34	23.35	23.36		24.5	1	
10	QPSK	12	12	23.28	23.34	23.17				
10	QPSK	25	25	23.28	23.25	23.07				
10	QPSK	50	0	23.29	23.34	23.38				
10	HQAM	1	0	23.25	23.32	23.27		24.5	1	
10	HQAM	1	25	23.28	23.30	23.18				
10	HQAM	1	48	23.24	23.22	23.12				
10	HQAM	1	49	23.24	23.28	23.22				
10	HQAM	25	12	22.28	22.30	22.18		23.5	2	
10	HQAM	25	25	22.26	22.31	22.17				
10	HQAM	50	0	22.16	22.27	22.22				
10	HQAM	1	0	22.33	22.36	22.22				
10	HQAM	1	25	22.28	22.29	22.23		23.5	2	
10	HQAM	1	49	22.24	22.14	22.09				
10	HQAM	25	0	21.27	21.45	21.31				
10	HQAM	25	12	21.23	21.34	21.21		22.5	3	
10	HQAM	25	25	21.24	21.28	21.13				
10	HQAM	50	0	21.10	21.33	21.22				
10	SSQAM	1	0	19.20	19.33	19.26		20.5	5	
10	SSQAM	1	25	19.25	19.36	19.18				
10	SSQAM	1	49	19.30	19.30	19.17				
10	SSQAM	25	0	19.27	19.30	19.28				
10	SSQAM	25	12	19.30	19.36	19.24		20.5	5	
10	SSQAM	25	25	19.38	19.35	19.12				
10	SSQAM	50	0	19.23	19.27	19.23				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.20	24.23	24.20		25.5	0	
5	QPSK	5	12	24.26	24.26	24.18				
5	QPSK	1	24	24.20	24.21	24.05				
5	QPSK	12	0	23.20	23.33	23.20		24.5	1	
5	QPSK	12	7	23.20	23.24	23.05				
5	QPSK	12	13	23.18	23.19	23.05				
5	QPSK	25	0	23.25	23.25	23.05				
5	HQAM	1	0	23.21	23.26	23.18		24.5	1	
5	HQAM	1	12	23.20	23.17	23.12				
5	HQAM	12	7	22.19	22.17	22.15		23.5	2	
5	HQAM	12	0	22.24	22.24	22.11				
5	HQAM	25	0	22.09	22.08	22.11				
5	HQAM	1	0	22.21	22.28	22.12		23.5	2	
5	HQAM	1	24	22.24	22.11	22.11				
5	HQAM	12	0	21.24	21.36	21.25		22.5	3	
5	HQAM	12	7	21.18	21.32	21.18				
5	HQAM	12	13	21.10	21.14	21.03				
5	HQAM	25	0	21.09	21.05	21.17				
5	SSQAM	1	0	19.20	19.36	19.22		20.5	5	
5	SSQAM	1	12	19.23	19.36	19.25				
5	SSQAM	1	24	19.21	19.18	19.06				
5	SSQAM	12	0	19.16	19.19	19.13		20.5	5	
5	SSQAM	12	7	19.19	19.34	19.19				
5	SSQAM	12	13	19.32	19.29	19.04				
5	SSQAM	25	0	19.17	19.21	19.17				

Band 26 Ant 1										
BW (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)										
15	QPSK	1	0	24.38	24.41	24.39		25.5	0	
15	QPSK	1	37	24.24	24.35	24.22				
15	QPSK	1	74	24.30	24.35	24.22				
15	QPSK	36	0	23.41	23.48	23.36		24.5	1	
15	QPSK	36	20	23.20	23.34	23.38				
15	QPSK	36	39	23.27	23.39	23.20				
15	QPSK	75	0	23.41	23.34	23.36				
15	HQAM	1	0	23.38	23.42	23.35		24.5	1	
15	HQAM	1	37	23.31	23.28	23.35				
15	HQAM	1	74	23.25	23.32	23.28				
15	HQAM	36	0	22.38	22.37	22.39		23.5	2	
15	HQAM	36	20	22.26	22.37	22.34				
15	HQAM	36	39	22.52	22.39	22.13				
15	HQAM	75	0	22.27	22.32	22.46				
15	HQAM	1	0	22.39	22.38	22.25		23.5	2	
15	HQAM	1	37	22.27	22.33	22.40				
15	HQAM	1	74	22.29	22.27	22.37				
15	HQAM	36	0	21.39	21.42	21.44		22.5	3	
15	HQAM	36	20	21.19	21.26	21.45				
15	HQAM	36	39	21.20	21.45	21.25				
15	HQAM	75	0	21.35	21.31	21.30				
15	SSQAM	1	0	19.29	19.43	19.45		20.5	5	
15	SSQAM	1	37	19.24	19.29	19.35				
15	SSQAM	1	74	19.26	19.39	19.24				
15	SSQAM	36	0	19.24	19.24	19.27		20.5	5	
15	SSQAM	36	20	19.37	19.37	19.40				
15	SSQAM	36	39	19.46	19.28	19.29				
15	SSQAM	75	0	19.20	19.28	19.12				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.24	24.36	24.34		25.5	0	
10	QPSK	5	25	24.12	24.24	24.35				
10	QPSK	1	49	24.23	24.29	24.17				
10	QPSK	25	0	23.31	23.42	23.32		24.5	1	
10	QPSK	25	12	23.17	23.23	23.11				
10	QPSK	25	25	23.14	23.29	23.21				
10	HQAM	1	0	23.26	23.22	23.29		24.5	1	
10	HQAM	1	25	23.28	23.38	23.31				
10	HQAM	1	25	23.24	23.23	23.27				
10	HQAM	12	0	22.27	22.27	22.25		23.5	2	
10	HQAM	12	7	22.32	22.33	22.36				
10	HQAM	12	13	22.18	22.29	22.30				
10	HQAM	25	0	22.18	22.20	22.28				
10	HQAM	1	0	22.35	22.33	22.14		23.5	2	
10	HQAM	1	25	22.19	22.18	22.14				
10	HQAM	1	49	22.23	22.10	22.25		22.5	3	
10	HQAM	25	0	21.30	21.40	21.34				
10	HQAM	25	12	21.15	21.16	21.01				
10	HQAM	25	25	21.15	21.43	21.25				
10	HQAM	50	0	21.22	21.20	21.18				
10	SSQAM	1	0	19.20	19.36	19.22		20.5	5	
10	SSQAM	1	25	19.20	19.20	19.25				
10	SSQAM	1	49	19.18	19.35	19.10				
10	SSQAM	12	0	19.23	19.23	19.25		20.5	5	
10	SSQAM	12	7	19.25	19.29	19.25				
10	SSQAM	12	13	19.35	19.14	19.23				
10	SSQAM	25	0	19.20	19.16	19.14				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.11	24.24	24.23		25.5	0	
5	QPSK	1	12	24.20	24.32	24.35				
5	QPSK	1	24	24.17	24.30	24.12				
5	QPSK	12	0	23.26	23.38	23.31		24.5	1	
5	QPSK	12	7	23.13	23.22	23.30				
5	QPSK	12	13	23.20	23.31	23.12				
5	QPSK	25	0	23.25	23.24	23.25				
5	HQAM	1	0	23.29	23.40	23.25		24.5	1	
5	HQAM	1	12	23.22	23.18	23.21				
5	HQAM	1	24	23.28	23.26	23.22				
5	HQAM	12	0	22.31	22.28	22.29		23.5	2	
5	HQAM	12	7	22.15	22.25	22.22				
5	HQAM	12	13	22.28	22.35	22.38				
5	HQAM	25	0	22.17	22.22	22.38				
5	HQAM	1	0	22.26	22.31	22.19		23.5	2	
5	HQAM	1	12	22.22	22.33	22.35				
5	HQAM	1	24	22.21	22.14	22.22				
5	HQAM	12	0	21.27	21.34					



Appendix E

GSM850 Ant 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	861		189	251	189	
Frequency (MHz)	854.2	858.4	863.6	824.2	838.4	843.6		
GSM 1 Tx slot	32.40	32.46	32.45	33.50	23.40	23.46	23.45	24.50
GPRS 1 Tx slot	32.40	32.41	32.38	33.50	23.40	23.41	23.38	24.50
GPRS 2 Tx slots	31.45	31.36	31.31	32.50	25.45	25.36	25.31	26.50
GPRS 3 Tx slots	29.67	29.61	29.61	31.00	25.41	25.35	25.35	26.74
GPRS 4 Tx slots	28.73	28.79	28.68	30.00	25.73	25.79	25.68	27.00
EDGE 1 Tx slot	26.86	26.93	26.89	28.00	17.86	17.93	17.89	19.00
EDGE 2 Tx slots	23.82	23.96	23.80	25.00	17.82	17.96	17.90	19.00
EDGE 3 Tx slots	22.08	22.11	22.07	23.20	17.82	17.85	17.81	18.94
EDGE 4 Tx slots	20.89	20.95	20.84	22.00	17.89	17.93	17.84	19.00

GSM1900 Ant 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	861		189	251	189	
Frequency (MHz)	1850.2	1880	1899.8	1850.2	1880	1899.8		
GSM 1 Tx slot	28.42	28.54	28.51	29.50	19.42	19.54	19.51	20.50
GPRS 1 Tx slot	28.38	28.50	28.46	29.50	19.38	19.50	19.46	20.50
GPRS 2 Tx slots	27.64	27.50	27.73	28.50	21.64	21.50	21.73	22.50
GPRS 3 Tx slots	25.83	25.83	25.95	27.00	21.57	21.57	21.69	22.74
GPRS 4 Tx slots	24.80	24.85	24.87	26.00	21.80	21.89	21.87	23.00
EDGE 1 Tx slot	24.82	24.87	24.83	26.00	15.82	15.87	15.83	17.00
EDGE 2 Tx slots	21.81	21.92	21.79	23.00	15.81	15.92	15.79	17.00
EDGE 3 Tx slots	20.03	20.07	20.02	21.20	15.77	15.81	15.76	16.94
EDGE 4 Tx slots	18.88	18.87	18.87	20.00	15.88	15.87	15.87	17.00

Band	WCDMA II Ant 4			Tune-up Limit (dBm)	WCDMA IV Ant 4			Tune-up Limit (dBm)	WCDMA V Ant 4			Tune-up Limit (dBm)	
	TX Channel	9262	8400		9538	1312	1413		1513	4152	4162		4233
Frequency (MHz)	8602	8600	8598	1857	1838	1728		4287	4407	4456			
3GPP Rel 99	AMR 12.2kops	22.51	22.53	22.45	23.50	23.67	23.80	23.70	24.50	24.31	24.44	24.29	25.50
3GPP Rel 99	RM-C 12.2kops	22.58	22.66	22.57	23.50	23.77	23.84	23.72	24.50	24.45	24.48	24.41	25.50
3GPP Rel 6	HSDPA Subtest-1	21.52	21.66	21.61	22.50	22.76	22.84	22.68	23.50	23.48	23.50	23.39	24.50
3GPP Rel 6	HSDPA Subtest-2	21.56	21.64	21.59	22.50	22.74	22.86	22.74	23.50	23.50	23.49	23.35	24.50
3GPP Rel 6	HSDPA Subtest-3	21.08	21.21	21.02	22.00	22.28	22.34	22.27	23.00	22.92	23.04	22.94	24.00
3GPP Rel 6	HSDPA Subtest-4	21.06	21.11	21.09	22.00	22.21	22.32	22.27	23.00	22.91	22.93	22.90	24.00
3GPP Rel 8	DCHSDPA Subtest-1	21.00	21.62	21.56	22.50	22.76	22.84	22.68	23.50	23.40	23.48	23.44	24.50
3GPP Rel 8	DCHSDPA Subtest-2	21.53	21.62	21.61	22.50	22.83	22.88	22.78	23.50	23.46	23.45	23.45	24.50
3GPP Rel 8	DCHSDPA Subtest-3	21.04	21.22	21.02	22.00	22.24	22.31	22.21	23.00	23.00	22.94	22.87	24.00
3GPP Rel 8	DCHSDPA Subtest-4	21.10	21.13	21.08	22.00	22.30	22.35	22.20	23.00	22.99	22.93	22.95	24.00
3GPP Rel 6	HSPA Subtest-1	21.62	21.71	21.56	22.50	22.80	22.83	22.75	23.50	23.49	23.48	23.44	24.50
3GPP Rel 6	HSPA Subtest-2	19.57	19.72	19.55	20.50	20.73	20.81	20.71	21.50	21.44	21.48	21.44	22.50
3GPP Rel 6	HSPA Subtest-3	20.59	20.66	20.55	21.50	21.78	21.88	21.67	22.50	22.48	22.53	22.43	23.50
3GPP Rel 6	HSPA Subtest-4	19.60	19.70	19.57	20.50	20.83	20.90	20.77	21.50	21.50	21.49	21.35	22.50
3GPP Rel 6	HSPA Subtest-5	21.56	21.71	21.60	22.50	22.73	22.81	22.78	23.50	23.44	23.50	23.41	24.50
3GPP Rel 7	HSPA (16QAM) Subtest-1	19.09	19.14	19.06	20.00	20.23	20.32	20.23	21.00	20.93	21.04	20.95	22.00

Band 7 Ant 3									
Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21550			
Frequency (MHz)				2010	2055	2100			
20	QPSK	1	0	23.68	23.75	23.66	24.5	0	
20	QPSK	1	49	23.56	23.71	23.63			
20	QPSK	1	99	23.61	23.66	23.57			
20	QPSK	50	0	22.69	22.76	22.71	23.5	1	
20	QPSK	50	24	22.56	22.68	22.63			
20	QPSK	50	50	22.82	22.84	22.82			
20	QPSK	100	0	22.63	22.75	22.64	23.5	1	
20	16QAM	1	0	22.64	22.73	22.69			
20	16QAM	1	49	22.50	22.73	22.62			
20	16QAM	1	99	22.58	22.69	22.58	22.5	2	
20	16QAM	50	0	21.69	21.80	21.67			
20	16QAM	50	24	21.58	21.66	21.67			
20	16QAM	50	50	21.80	21.84	21.58	21.5	3	
20	16QAM	100	0	21.62	21.80	21.60			
20	64QAM	1	0	21.67	21.79	21.65			
20	64QAM	1	49	21.52	21.78	21.63	22.5	2	
20	64QAM	1	99	21.57	21.72	21.61			
20	64QAM	50	0	20.71	20.75	20.74			
20	64QAM	50	24	20.51	20.74	20.67	21.5	3	
20	64QAM	50	50	20.65	20.99	20.64			
20	64QAM	100	0	20.59	20.73	20.66			
20	256QAM	1	0	18.73	18.72	18.68	19.5	5	
20	256QAM	1	49	18.55	18.66	18.67			
20	256QAM	1	99	18.59	18.65	18.62			
20	256QAM	50	0	18.67	18.70	18.64	19.5	5	
20	256QAM	50	24	18.64	18.71	18.74			
20	256QAM	50	50	18.46	18.77	18.67			
20	256QAM	100	0	18.56	18.71	18.58			
Channel				20625	21100	21375			
Frequency (MHz)				2007.5	2055	2092.5			
15	QPSK	1	0	23.56	23.63	23.57	24.5	0	
15	QPSK	1	37	23.46	23.58	23.53			
15	QPSK	1	74	23.54	23.54	23.48			
15	QPSK	36	0	22.67	22.66	22.61	23.5	1	
15	QPSK	36	20	22.50	22.57	22.51			
15	QPSK	36	39	22.53	22.57	22.49			
15	QPSK	75	0	22.55	22.65	22.59	23.5	1	
15	16QAM	1	0	22.56	22.69	22.63			
15	16QAM	1	37	22.42	22.65	22.55			
15	16QAM	1	74	22.46	22.65	22.53	22.5	2	
15	16QAM	36	0	21.60	21.74	21.57			
15	16QAM	36	20	21.56	21.63	21.56			
15	16QAM	36	39	21.47	21.61	21.44	22.5	2	
15	16QAM	75	0	21.52	21.76	21.50			
15	64QAM	1	0	21.61	21.71	21.59			
15	64QAM	1	37	21.49	21.68	21.58	22.5	2	
15	64QAM	1	74	21.46	21.65	21.47			
15	64QAM	36	0	20.62	20.69	20.72			
15	64QAM	36	20	20.48	20.63	20.54	21.5	3	
15	64QAM	36	39	20.54	20.49	20.53			
15	64QAM	75	0	20.49	20.64	20.60			
15	256QAM	1	0	18.60	18.70	18.62	19.5	5	
15	256QAM	1	37	18.45	18.68	18.57			
15	256QAM	1	74	18.55	18.63	18.51			
15	256QAM	36	0	18.65	18.61	18.61	19.5	5	
15	256QAM	36	20	18.61	18.67	18.69			
15	256QAM	36	39	18.41	18.67	18.61			
15	256QAM	75	0	18.46	18.61	18.49			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	23.57	23.71	23.52	24.5	0	
10	QPSK	1	25	23.48	23.63	23.52			
10	QPSK	1	49	23.56	23.62	23.44			
10	QPSK	25	0	22.62	22.65	22.60	23.5	1	
10	QPSK	25	12	22.54	22.64	22.59			
10	QPSK	25	25	22.56	22.52	22.58			
10	QPSK	50	0	22.56	22.69	22.62	23.5	1	
10	16QAM	1	0	22.52	22.60	22.66			
10	16QAM	1	25	22.39	22.65	22.57			
10	16QAM	1	49	22.54	22.67	22.49	22.5	2	
10	16QAM	25	0	21.60	21.73	21.60			
10	16QAM	25	12	21.48	21.57	21.64			
10	16QAM	25	25	21.57	21.57	21.55	22.5	2	
10	16QAM	50	0	21.52	21.78	21.48			
10	64QAM	1	0	21.54	21.67	21.60			
10	64QAM	1	25	21.49	21.74	21.59	22.5	2	
10	64QAM	1	49	21.43	21.63	21.57			
10	64QAM	25	0	20.68	20.73	20.70			
10	64QAM	25	12	20.39	20.61	20.64	21.5	3	
10	64QAM	25	25	20.58	20.47	20.61			
10	64QAM	50	0	20.47	20.64	20.62			
10	256QAM	1	0	18.71	18.62	18.59	19.5	5	
10	256QAM	1	25	18.33	18.56	18.64			
10	256QAM	1	49	18.47	18.54	18.48			
10	256QAM	25	0	18.55	18.58	18.62	19.5	5	
10	256QAM	25	12	18.62	18.68	18.69			
10	256QAM	25	25	18.44	18.65	18.54			
10	256QAM	50	0	18.40	18.69	18.51			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	23.65	23.72	23.61	24.5	0	
5	QPSK	1	12	23.48	23.67	23.51			
5	QPSK	1	24	23.54	23.61	23.44			
5	QPSK	12	0	22.58	22.65	22.67	23.5	1	
5	QPSK	12	7	22.46	22.56	22.57			
5	QPSK	12	13	22.53	22.57	22.50			
5	QPSK	25	0	22.53	22.62	22.61	23.5	1	
5	16QAM	1	0	22.56	22.61	22.65			
5	16QAM	1	12	22.41	22.61	22.56			
5	16QAM	1	24	22.47	22.56	22.46	22.5	2	
5	16QAM	12	0	21.60	21.71	21.64			
5	16QAM	12	7	21.45	21.53	21.59			
5	16QAM	12	13	21.55	21.61	21.55	21.5	3	
5	16QAM	25	0	21.49	21.72	21.47			
5	64QAM	1	0	21.63	21.66	21.53			
5	64QAM	1	12	21.40	21.71	21.53	22.5	2	
5	64QAM	1	24	21.50	21.61	21.53			
5	64QAM	12	0	20.57	20.73	20.70			
5	64QAM	12	7	20.40	20.64	20.54	21.5	3	
5	64QAM	12	13	20.53	20.47	20.51			
5	64QAM	25	0	20.54	20.70	20.63			
5	256QAM	1	0	18.71	18.65	18.62	19.5	5	
5	256QAM	1	12	18.62	18.55	18.57			
5	256QAM	1	24	18.54	18.63	18.53			
5	256QAM	12	0	18.62	18.65	18.59	19.5	5	
5	256QAM	12	7	18.50	18.64	18.65			
5	256QAM	12	13	18.34	18.74	18.63			
5	256QAM	25	0	18.46	18.60	18.47			



Band 2 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.08	22.13	21.97	23	0		
20	QPSK	1	96	22.03	22.11	21.91				
20	QPSK	50	0	21.06	21.08	21.02				
20	QPSK	50	24	21.04	21.04	21.04				
20	QPSK	50	50	21.02	21.06	20.97	22	1		
20	QPSK	100	0	20.08	21.08	20.95				
20	HQAM	1	0	21.05	21.17	20.95				
20	HQAM	1	49	21.10	21.11	20.87	22	1		
20	HQAM	1	99	21.07	21.08	20.87				
20	HQAM	50	0	20.08	20.08	19.97				
20	HQAM	50	24	19.99	20.04	19.98	21	2		
20	HQAM	50	50	19.98	20.03	19.93				
20	HQAM	100	0	19.99	20.08	19.95				
20	HQAM	1	0	20.96	20.14	19.95				
20	HQAM	1	49	20.11	20.12	19.96	21	2		
20	HQAM	1	99	20.07	20.08	19.97				
20	HQAM	50	0	19.99	19.99	19.92				
20	HQAM	50	24	19.92	19.96	19.97	20	3		
20	HQAM	50	50	19.98	19.97	19.98				
20	HQAM	100	0	19.98	19.97	19.99				
20	HQAM	1	0	17.14	17.15	16.92				
20	HQAM	1	49	17.05	17.07	16.89	18	5		
20	HQAM	1	99	16.98	17.07	16.96				
20	HQAM	50	0	16.98	17.05	16.94				
20	HQAM	50	24	17.08	17.05	16.83	18	5		
20	HQAM	50	50	16.98	17.06	16.84				
20	HQAM	100	0	16.98	17.06	16.84				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.08	22.12	21.97	23	0		
15	QPSK	1	96	22.00	22.09	21.83				
15	QPSK	1	74	22.00	22.09	21.83				
15	QPSK	36	0	21.04	21.06	20.96				
15	QPSK	36	20	21.00	21.04	20.91	22	1		
15	QPSK	36	99	20.93	21.00	20.93				
15	HQAM	1	0	21.03	21.16	20.93				
15	HQAM	1	37	21.03	21.10	20.83	22	1		
15	HQAM	1	74	21.05	21.05	20.86				
15	HQAM	36	0	20.00	20.02	19.87				
15	HQAM	36	20	19.90	20.03	19.90	21	2		
15	HQAM	36	99	19.98	19.93	19.88				
15	HQAM	75	0	19.94	19.96	19.84				
15	HQAM	1	0	20.00	20.12	19.92	21	2		
15	HQAM	1	49	20.05	20.05	19.84				
15	HQAM	1	74	19.92	20.14	19.91				
15	HQAM	36	0	18.83	18.88	18.80	20	3		
15	HQAM	36	20	18.83	18.93	18.80				
15	HQAM	36	99	18.95	18.95	18.93				
15	HQAM	75	0	18.88	18.93	18.88				
15	HQAM	1	0	17.05	17.15	16.98				
15	HQAM	1	37	17.04	16.97	16.78	18	5		
15	HQAM	1	74	16.97	17.04	16.84				
15	HQAM	36	0	16.98	17.02	16.84				
15	HQAM	36	20	16.95	17.02	16.78	18	5		
15	HQAM	36	99	16.92	16.94	16.88				
15	HQAM	75	0	17.00	17.02	16.84				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.08	22.10	21.96	23	0		
10	QPSK	1	96	22.07	22.09	21.79				
10	QPSK	1	49	21.98	22.09	21.86				
10	QPSK	12	0	20.96	21.02	20.96				
10	QPSK	12	7	21.01	21.06	20.93	22	1		
10	QPSK	25	0	20.93	21.03	20.93				
10	HQAM	1	0	21.00	21.08	20.90				
10	HQAM	1	25	21.08	21.03	20.82	22	1		
10	HQAM	1	50	21.05	21.05	20.79				
10	HQAM	12	0	19.91	20.00	19.90				
10	HQAM	12	7	19.96	20.02	19.88	21	2		
10	HQAM	12	49	19.98	19.98	19.88				
10	HQAM	50	0	19.94	20.00	19.93				
10	HQAM	1	0	19.97	20.09	19.91	21	2		
10	HQAM	1	49	19.95	20.10	19.93				
10	HQAM	12	0	18.88	18.98	18.90	20	3		
10	HQAM	12	7	18.88	18.93	18.88				
10	HQAM	12	49	18.95	18.95	18.93				
10	HQAM	50	0	18.88	18.98	18.88				
10	HQAM	1	0	17.00	17.11	16.98				
10	HQAM	1	25	17.01	17.00	16.78	18	5		
10	HQAM	1	49	16.96	17.01	16.84				
10	HQAM	25	0	17.00	17.02	16.84				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.08	22.08	21.85	23	0		
5	QPSK	1	12	21.98	22.05	21.85				
5	QPSK	1	24	21.95	22.07	21.82				
5	QPSK	12	0	20.96	21.02	20.96				
5	QPSK	12	7	21.04	21.00	20.84	22	1		
5	QPSK	12	13	21.01	21.02	20.94				
5	HQAM	1	0	21.02	21.04	20.81				
5	HQAM	1	12	21.08	21.00	20.81	22	1		
5	HQAM	1	25	21.05	21.03	20.83				
5	HQAM	12	0	19.97	20.05	19.91				
5	HQAM	12	7	19.91	19.93	19.88	21	0		
5	HQAM	12	13	19.93	20.01	19.88				
5	HQAM	25	0	19.93	19.97	19.85				
5	HQAM	1	0	20.01	20.11	19.84	21	2		
5	HQAM	1	12	20.05	20.05	19.82				
5	HQAM	1	24	19.94	20.07	19.92				
5	HQAM	12	0	18.91	19.02	19.01	20	3		
5	HQAM	12	7	18.96	18.98	18.91				
5	HQAM	12	13	18.90	18.99	18.92				
5	HQAM	25	0	18.87	18.97	18.91				
5	HQAM	1	0	17.00	17.08	16.86	18	5		
5	HQAM	1	12	17.01	17.05	16.85				
5	HQAM	1	24	16.90	16.99	16.92				
5	HQAM	12	0	17.00	17.11	16.98				
5	HQAM	12	7	16.96	16.98	16.74	18	5		
5	HQAM	12	13	16.98	16.95	16.87				
5	HQAM	25	0	16.94	17.10	16.97				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.99	22.09	21.88	23	0		
3	QPSK	1	8	22.02	22.01	21.77				
3	QPSK	1	14	21.99	22.05	21.83				
3	QPSK	8	0	21.02	21.04	20.96				
3	QPSK	8	4	20.93	21.07	20.91	22	1		
3	QPSK	8	7	20.94	20.99	20.89				
3	HQAM	1	0	20.97	21.07	20.89				
3	HQAM	1	0	20.98	21.07	20.84	22	1		
3	HQAM	1	8	21.03	20.99	20.76				
3	HQAM	1	14	21.00	20.94	20.78				
3	HQAM	8	0	19.90	20.05	19.95				
3	HQAM	8	4	19.94	19.95	19.94	21	2		
3	HQAM	8	7	19.96	19.97	19.96				
3	HQAM	16	0	19.90	19.96	19.87				
3	HQAM	1	0	20.01	20.07	19.86	21	2		
3	HQAM	1	8	20.08	20.10	19.97				
3	HQAM	1	14	19.91	20.08	19.90				
3	HQAM	8	0	18.93	19.07	18.98	20	3		
3	HQAM	8	4	18.98	18.95	18.95				
3	HQAM	8	7	18.90	18.94	18.91				
3	HQAM	16	0	17.99	17.99	17.82				
3	HQAM	1	0	17.11	17.08	16.91	18	5		
3	HQAM	1	8	16.98	17.08	16.84				
3	HQAM	1	14	16.98	17.03	16.83				
3	HQAM	8	0	16.94	17.04	16.80				



Band 7 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.97	23.04	22.96		24.5	0	
20	QPSK	1	99	22.93	23.02	22.94				
20	QPSK	50	0	21.62	22.03	21.96		23.5	1	
20	QPSK	50	50	21.96	22.01	21.86				
20	QPSK	100	0	21.96	22.03	21.96				
20	QPSK	1	0	22.97	22.07	21.96				
20	HQAM	1	49	21.93	22.95	21.90		23.5	1	
20	HQAM	1	99	21.98	22.05	21.96				
20	HQAM	50	0	20.96	21.02	20.93		22.5	2	
20	HQAM	50	50	21.02	20.97	21.01				
20	HQAM	100	0	20.93	21.01	20.92				
20	HQAM	100	0	20.96	21.01	21.02				
20	HQAM	1	0	21.90	21.68	20.95				
20	HQAM	1	49	20.99	21.01	20.91		22.5	2	
20	HQAM	1	99	20.96	21.05	20.93				
20	HQAM	50	0	19.99	20.05	19.90				
20	HQAM	50	50	19.96	19.99	19.98		21.5	3	
20	HQAM	100	0	19.99	19.99	19.98				
20	HQAM	100	0	19.99	20.06	19.92				
20	ZSSBAM	1	0	18.97	18.98	17.96		19.5	5	
20	ZSSBAM	1	49	17.94	18.03	17.91				
20	ZSSBAM	1	99	17.93	18.04	17.93				
20	ZSSBAM	50	0	17.96	18.02	17.97				
20	ZSSBAM	50	50	17.96	18.04	17.90		19.5	5	
20	ZSSBAM	100	0	17.93	17.98	17.96				
20	ZSSBAM	100	0	17.96	18.00	17.99				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.85	23.00	22.85		24.5	0	
15	QPSK	1	74	22.89	22.95	22.83				
15	QPSK	36	0	21.88	21.93	21.83		23.5	1	
15	QPSK	36	36	21.96	21.99	21.93				
15	QPSK	36	99	21.90	21.96	21.75				
15	QPSK	75	0	21.89	21.91	21.88				
15	HQAM	1	0	21.96	22.03	21.84		23.5	1	
15	HQAM	1	37	21.90	22.09	21.88				
15	HQAM	36	0	20.94	20.97	20.98		22.5	2	
15	HQAM	36	30	20.99	20.97	20.98				
15	HQAM	75	0	20.92	21.00	20.90				
15	HQAM	1	0	20.96	21.03	20.93		22.5	2	
15	HQAM	1	74	20.92	20.98	20.93				
15	HQAM	36	0	19.98	20.02	19.89				
15	HQAM	36	30	19.95	19.96	19.96		21.5	3	
15	HQAM	75	0	19.95	19.95	19.75				
15	HQAM	75	0	19.94	19.95	19.89				
15	ZSSBAM	1	0	17.92	17.97	17.90		19.5	5	
15	ZSSBAM	1	37	17.92	17.97	17.90				
15	ZSSBAM	1	74	17.86	18.03	17.89				
15	ZSSBAM	36	0	17.93	18.01	17.79		19.5	5	
15	ZSSBAM	36	30	17.85	17.93	17.91				
15	ZSSBAM	75	0	17.92	18.01	17.91				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.26	22.03	22.01		24.5	0	
10	QPSK	1	49	22.87	22.90	22.93				
10	QPSK	25	0	21.93	22.00	21.90		23.5	1	
10	QPSK	25	25	21.94	21.90	21.90				
10	QPSK	25	50	21.94	21.96	21.80				
10	HQAM	1	0	22.01	22.05	21.90		23.5	1	
10	HQAM	1	25	21.86	22.00	21.82				
10	HQAM	25	0	20.90	20.95	20.90		22.5	2	
10	HQAM	25	12	20.93	20.90	21.00				
10	HQAM	50	0	20.98	20.91	20.93				
10	HQAM	1	0	20.90	21.00	20.88		22.5	2	
10	HQAM	1	25	20.95	20.98	20.90				
10	HQAM	1	49	20.85	21.01	20.91				
10	HQAM	25	0	19.90	19.99	19.81		21.5	3	
10	HQAM	25	19	19.96	19.97	19.89				
10	HQAM	25	25	19.80	19.91	19.80				
10	HQAM	50	0	19.88	19.96	19.82				
10	ZSSBAM	1	0	17.90	18.00	17.96		19.5	5	
10	ZSSBAM	1	49	17.91	17.96	17.88				
10	ZSSBAM	25	0	17.91	17.98	17.90		19.5	5	
10	ZSSBAM	25	12	17.90	17.96	17.89				
10	ZSSBAM	25	25	17.88	17.99	17.86				
10	ZSSBAM	50	0	17.92	17.99	17.93				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.26	22.03	22.01		24.5	0	
5	QPSK	1	12	22.91	22.90	22.82				
5	QPSK	1	24	22.84	23.01	22.83				
5	QPSK	12	0	21.84	21.98	21.96		23.5	1	
5	QPSK	12	7	21.90	21.94	21.74				
5	QPSK	12	13	21.84	22.01	21.79				
5	HQAM	1	0	21.97	22.05	21.85		23.5	1	
5	HQAM	1	12	21.93	21.94	21.83				
5	HQAM	12	0	20.89	20.94	20.85		22.5	2	
5	HQAM	12	7	20.95	20.96	21.00				
5	HQAM	25	0	20.90	20.96	20.92				
5	HQAM	1	0	20.90	21.00	20.88		22.5	2	
5	HQAM	1	25	20.95	20.98	20.90				
5	HQAM	1	49	20.85	21.01	20.91				
5	HQAM	25	0	19.90	19.99	19.81		21.5	3	
5	HQAM	25	19	19.96	19.97	19.89				
5	HQAM	25	25	19.80	19.91	19.80				
5	HQAM	50	0	19.88	19.96	19.82				
5	ZSSBAM	1	0	17.90	18.00	17.96		19.5	5	
5	ZSSBAM	1	49	17.91	17.96	17.88				
5	ZSSBAM	12	0	17.91	17.98	17.90		19.5	5	
5	ZSSBAM	12	7	17.89	17.96	17.89				
5	ZSSBAM	12	13	17.88	17.99	17.86				
5	ZSSBAM	25	0	17.92	17.99	17.93				
5	ZSSBAM	50	0	17.92	17.99	17.93				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.27	24.51	24.37		25.5	0	
14	QPSK	1	3	24.32	24.53	24.22				
14	QPSK	1	5	24.33	24.48	24.21				
14	QPSK	3	0	24.23	24.53	24.22		24.5	1	
14	QPSK	3	8	24.35	24.42	24.28				
14	QPSK	3	14	24.34	23.42	23.23				
14	QPSK	3	8	23.24	23.41	23.14				
14	HQAM	1	0	23.23	23.50	23.28		24.5	1	
14	HQAM	1	8	23.38	23.49	23.21				
14	HQAM	3	0	22.28	22.97	22.96		23.5	2	
14	HQAM	3	8	22.33	22.51	22.30				
14	HQAM	6	0	22.30	22.97	22.96				
14	HQAM	6	7	22.31	22.51	22.27				
14	HQAM	1	0	22.28	22.47	22.42		23.5	2	
14	HQAM	1	8	22.35	22.38	22.24				
14	HQAM	1	14	22.22	22.49	22.27				
14	HQAM	3	0	21.27	21.46	21.37		22.5	3	
14	HQAM	3	4	21.22	21.43	21.21				
14	HQAM	3	7	21.22	21.45	21.08				
14	HQAM	15	0	21.28	21.48	21.27				
14	ZSSBAM	1	0	19.43	19.56	19.33		20.5	5	
14	ZSSBAM	1	8	19.32	19.52	19.18				
14	ZSSBAM	1	14	19.31	19.43	19.25				
14	ZSSBAM	3	0	19.43	19.50	19.34		20.5	5	
14	ZSSBAM	3	8	19.40	19.46	19.26				
14	ZSSBAM	3	7	19.25	19.46	19.12				
14	ZSSBAM	15	0	19.30	19.46	19.25				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.27	24.51	24.37		25.5	0	
14	QPSK	1	3	24.32	24.53	24.22				
14	QPSK	1	5	24.33	24.48	24.21				



Band 17 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.40	24.46	24.52	23.5	0		
10	QPSK	1	24	24.38	24.44	24.50				
10	QPSK	25	0	23.37	23.49	23.50				
10	QPSK	25	12	23.30	23.48	23.51	24.5	1		
10	QPSK	25	24	23.39	23.46	23.57				
10	QPSK	50	0	23.35	23.44	23.52				
10	HQAM	1	0	23.37	23.52	23.58				
10	HQAM	1	24	23.40	23.45	23.51	24.5	1		
10	HQAM	1	48	23.37	23.47	23.57				
10	HQAM	1	72	22.42	22.46	22.50				
10	HQAM	25	12	22.35	22.45	22.40	23.5	2		
10	HQAM	25	24	22.41	22.49	22.54				
10	HQAM	50	0	22.34	22.41	22.57				
10	HQAM	1	0	22.41	22.47	22.57				
10	HQAM	1	24	22.46	22.49	22.54	23.5	2		
10	HQAM	1	48	22.40	22.44	22.54				
10	HQAM	25	0	21.32	21.48	21.57				
10	HQAM	25	12	21.36	21.53	21.58	22.5	3		
10	HQAM	25	24	21.35	21.46	21.41				
10	HQAM	50	0	21.36	21.47	21.58				
10	25QAM	1	0	19.40	19.46	19.50				
10	25QAM	1	24	19.34	19.45	19.55	20.5	5		
10	25QAM	1	48	19.39	19.47	19.58				
10	25QAM	25	12	19.43	19.42	19.58	20.5	5		
10	25QAM	25	24	19.38	19.45	19.58				
10	25QAM	50	0	19.37	19.44	19.55				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.32	24.46	24.48	23.5	0		
5	QPSK	1	12	24.30	24.39	24.37				
5	QPSK	1	24	24.35	24.42	24.31				
5	QPSK	12	0	23.30	23.40	23.21				
5	QPSK	12	7	23.32	23.45	23.27	24.5	1		
5	QPSK	12	13	23.32	23.35	23.31				
5	QPSK	25	0	23.24	23.37	23.24				
5	HQAM	1	0	23.33	23.45	23.31				
5	HQAM	1	12	23.28	23.38	23.23	24.5	1		
5	HQAM	1	24	23.32	23.42	23.25				
5	HQAM	12	0	22.23	22.46	22.29				
5	HQAM	12	7	22.27	22.41	22.32	23.5	2		
5	HQAM	12	13	22.33	22.44	22.15				
5	HQAM	25	0	22.24	22.31	22.17				
5	HQAM	1	0	22.43	22.38	22.17	23.5	2		
5	HQAM	1	24	22.33	22.42	22.24				
5	HQAM	1	24	22.29	22.40	22.27				
5	HQAM	12	0	21.22	21.37	21.23				
5	HQAM	12	7	21.33	21.43	21.30	22.5	3		
5	HQAM	12	13	21.34	21.36	21.34				
5	HQAM	25	0	21.29	21.35	21.27				
5	25QAM	1	0	19.29	19.40	19.31				
5	25QAM	1	12	19.25	19.34	19.23	20.5	5		
5	25QAM	1	24	19.35	19.37	19.26				
5	25QAM	12	0	19.25	19.35	19.31				
5	25QAM	12	7	19.29	19.40	19.36	20.5	5		
5	25QAM	12	13	19.28	19.35	19.27				
5	25QAM	25	0	19.22	19.38	19.24				

Band 26 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.42	24.50	24.47	23.5	0		
15	QPSK	1	37	24.38	24.51	24.45				
15	QPSK	1	74	24.36	24.51	24.45				
15	QPSK	36	0	23.45	23.48	23.46	24.5	1		
15	QPSK	36	20	23.38	23.45	23.43				
15	QPSK	36	39	23.36	23.45	23.43				
15	QPSK	75	0	23.34	23.47	23.45				
15	HQAM	1	0	23.44	23.56	23.53				
15	HQAM	1	37	23.39	23.49	23.41	24.5	1		
15	HQAM	1	74	23.39	23.52	23.46				
15	HQAM	36	0	22.40	22.53	22.50				
15	HQAM	36	20	22.32	22.49	22.39	23.5	2		
15	HQAM	36	39	22.32	22.43	22.26				
15	HQAM	75	0	22.48	22.51	22.49				
15	HQAM	1	0	22.54	22.51	22.47	23.5	2		
15	HQAM	1	37	22.54	22.51	22.47				
15	HQAM	1	74	22.50	22.50	22.47				
15	HQAM	36	0	21.48	21.50	21.43				
15	HQAM	36	20	21.36	21.49	21.39	22.5	3		
15	HQAM	36	39	21.34	21.41	21.45				
15	HQAM	75	0	21.32	21.52	21.40				
15	25QAM	1	0	19.46	19.46	19.46				
15	25QAM	1	37	19.35	19.53	19.49	20.5	5		
15	25QAM	1	74	19.34	19.55	19.44				
15	25QAM	36	0	19.47	19.54	19.50				
15	25QAM	36	20	19.44	19.56	19.49	20.5	5		
15	25QAM	36	39	19.43	19.52	19.45				
15	25QAM	75	0	19.34	19.53	19.41				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.40	24.53	24.35	23.5	0		
10	QPSK	1	25	24.39	24.50	24.36				
10	QPSK	1	49	24.35	24.49	24.39				
10	QPSK	25	0	23.43	23.43	23.36				
10	QPSK	25	12	23.44	23.42	23.32	24.5	1		
10	QPSK	25	24	23.29	23.44	23.31				
10	HQAM	1	0	23.52	23.44	23.38				
10	HQAM	1	25	23.38	23.49	23.47	24.5	1		
10	HQAM	1	25	23.36	23.46	23.31				
10	HQAM	36	0	22.34	22.49	22.37				
10	HQAM	36	12	22.26	22.45	22.35	23.5	2		
10	HQAM	36	24	22.30	22.42	22.30				
10	HQAM	50	0	22.32	22.42	22.45				
10	HQAM	1	0	22.48	22.48	22.38	23.5	2		
10	HQAM	1	25	22.36	22.56	22.50				
10	HQAM	1	49	22.30	22.40	22.45				
10	HQAM	25	0	21.37	21.47	21.43				
10	HQAM	25	12	21.38	21.56	21.45	22.5	3		
10	HQAM	25	24	21.29	21.38	21.44				
10	HQAM	50	0	21.22	21.43	21.36				
10	25QAM	1	0	19.45	19.54	19.43				
10	25QAM	1	25	19.27	19.49	19.45	20.5	5		
10	25QAM	1	49	19.33	19.52	19.42				
10	25QAM	12	0	19.36	19.46	19.41				
10	25QAM	12	12	19.35	19.50	19.41	20.5	5		
10	25QAM	12	13	19.41	19.47	19.44				
10	25QAM	25	0	19.34	19.53	19.31				

Band 66 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.05	23.18	22.87				
20	QPSK	1	48	23.05	23.16	22.85	24	0		
20	QPSK	1	99	22.94	23.16	22.87				
20	QPSK	50	0	22.09	22.14	21.91				
20	QPSK	50	24	22.09	22.14	21.88	23	1		
20	QPSK	50	50	21.95	22.14	21.87				
20	HQAM	1	0	21.92	22.14	21.84				
20	HQAM	1	48	21.91	22.11	21.84	23	1		
20	HQAM	1	99	21.92	22.20	21.84				
20	HQAM	1	99	21.98	22.22	21.88				
20	HQAM	50	0	21.00	21.09	20.98				
20	HQAM	50	24	20.83	21.20	20.89	22	2		
20	HQAM	50	50	20.97	21.21	20.82				
20	HQAM	100	0	20.88	21.00	20.81				
20	HQAM	1								



Band 38 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power 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	23.49	23.51	23.47	24.5	0		
20	QPSK	1	49	23.47	23.50	23.42				
20	QPSK	1	99	23.46	23.49	23.44				
20	QPSK	50	0	22.53	22.49	22.42	23.5	1		
20	QPSK	50	24	22.48	22.47	22.46				
20	QPSK	50	50	22.41	22.49	22.39				
20	16QAM	100	0	22.44	22.45	22.39	23.5	1		
20	16QAM	1	49	22.48	22.45	22.45				
20	16QAM	1	99	22.49	22.46	22.48				
20	16QAM	50	0	21.48	21.49	21.42	22.5	2		
20	16QAM	50	24	21.45	21.47	21.43				
20	16QAM	50	50	21.36	21.54	21.36				
20	16QAM	100	0	21.49	21.42	21.37	22.5	1		
20	16QAM	1	49	21.44	21.51	21.52				
20	16QAM	1	99	21.48	21.50	21.36				
20	16QAM	1	99	21.48	21.45	21.41	22.5	2		
20	16QAM	50	0	20.49	20.53	20.47				
20	16QAM	50	24	20.49	20.42	20.51				
20	16QAM	50	50	20.40	20.44	20.35	21.5	3		
20	16QAM	100	0	20.45	20.51	20.42				
20	256QAM	1	0	18.48	18.49	18.52				
20	256QAM	1	49	18.45	18.47	18.42	19.5	5		
20	256QAM	1	99	18.51	18.53	18.40				
20	256QAM	50	0	18.50	18.52	18.48				
20	256QAM	50	24	18.46	18.48	18.47	19.5	5		
20	256QAM	50	50	18.43	18.47	18.43				
20	256QAM	100	0	18.45	18.49	18.33				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				25825	2595	2612.5				
15	QPSK	1	0	23.44	23.49	23.43	24.5	0		
15	QPSK	1	37	23.45	23.48	23.42				
15	QPSK	1	74	23.34	23.41	23.38				
15	QPSK	36	0	22.41	22.48	22.39	23.5	1		
15	QPSK	36	20	22.48	22.43	22.45				
15	QPSK	36	39	22.31	22.45	22.30				
15	QPSK	75	0	22.34	22.43	22.35	23.5	1		
15	16QAM	1	0	22.38	22.45	22.42				
15	16QAM	1	37	22.37	22.45	22.43				
15	16QAM	1	74	22.40	22.43	22.46	22.5	2		
15	16QAM	36	0	21.46	21.37	21.33				
15	16QAM	36	20	21.34	21.37	21.36				
15	16QAM	36	39	21.34	21.49	21.28	22.5	2		
15	16QAM	75	0	21.45	21.32	21.30				
15	16QAM	1	0	21.43	21.41	21.26				
15	16QAM	1	37	21.42	21.40	21.25	22.5	2		
15	16QAM	1	74	21.44	21.42	21.32				
15	16QAM	36	0	20.48	20.44	20.47				
15	16QAM	36	20	20.39	20.39	20.48	21.5	3		
15	16QAM	36	39	20.40	20.39	20.34				
15	16QAM	75	0	20.45	20.42	20.40				
15	256QAM	1	0	18.43	18.38	18.45	19.5	5		
15	256QAM	1	37	18.43	18.42	18.39				
15	256QAM	1	74	18.41	18.48	18.32				
15	256QAM	36	0	18.47	18.43	18.46	19.5	5		
15	256QAM	36	20	18.44	18.39	18.40				
15	256QAM	36	39	18.34	18.35	18.37				
15	256QAM	75	0	18.42	18.48	18.23				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.48	23.48	23.45	24.5	0		
10	QPSK	1	25	23.38	23.41	23.40				
10	QPSK	1	49	23.38	23.39	23.34				
10	QPSK	25	0	22.41	22.38	22.31	23.5	1		
10	QPSK	25	12	22.37	22.41	22.35				
10	QPSK	25	25	22.35	22.46	22.45				
10	QPSK	50	0	22.44	22.38	22.27	23.5	1		
10	16QAM	1	0	22.36	22.45	22.39				
10	16QAM	1	49	22.38	22.42	22.35				
10	16QAM	1	49	22.39	22.38	22.37	22.5	2		
10	16QAM	25	0	21.38	21.40	21.34				
10	16QAM	25	12	21.37	21.41	21.40				
10	16QAM	25	25	21.33	21.44	21.34	22.5	2		
10	16QAM	50	0	21.44	21.39	21.28				
10	16QAM	50	1	21.35	21.46	21.43				
10	16QAM	1	25	21.47	21.46	21.28	22.5	2		
10	16QAM	1	49	21.37	21.37	21.34				
10	16QAM	25	0	20.42	20.51	20.41				
10	16QAM	25	12	20.38	20.38	20.48	21.5	3		
10	16QAM	25	25	20.38	20.42	20.37				
10	16QAM	50	0	20.38	20.48	20.35				
10	256QAM	1	0	18.43	18.40	18.41	19.5	5		
10	256QAM	1	25	18.44	18.46	18.38				
10	256QAM	1	49	18.42	18.50	18.32				
10	256QAM	25	0	18.41	18.48	18.36	19.5	5		
10	256QAM	25	12	18.43	18.47	18.44				
10	256QAM	25	25	18.41	18.45	18.41				
10	256QAM	50	0	18.44	18.44	18.25				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				25725	2595	2617.5				
5	QPSK	1	0	23.42	23.48	23.41	24.5	0		
5	QPSK	1	12	23.38	23.41	23.35				
5	QPSK	1	24	23.45	23.42	23.42				
5	QPSK	12	0	22.44	22.46	22.40	23.5	1		
5	QPSK	12	7	22.39	22.43	22.45				
5	QPSK	12	13	22.41	22.41	22.30				
5	QPSK	25	0	22.37	22.35	22.30	23.5	1		
5	16QAM	1	0	22.41	22.45	22.43				
5	16QAM	1	12	22.46	22.36	22.39				
5	16QAM	1	24	22.40	22.35	22.41	22.5	2		
5	16QAM	12	0	21.48	21.40	21.30				
5	16QAM	12	7	21.40	21.41	21.43				
5	16QAM	12	13	21.29	21.53	21.33	22.5	2		
5	16QAM	25	0	21.44	21.31	21.31				
5	16QAM	1	0	21.42	21.46	21.49				
5	16QAM	1	12	21.38	21.42	21.26	22.5	2		
5	16QAM	1	24	21.38	21.35	21.41				
5	16QAM	12	0	20.40	20.42	20.44				
5	16QAM	12	7	20.43	20.41	20.46	21.5	3		
5	16QAM	12	13	20.38	20.37	20.34				
5	16QAM	25	0	20.35	20.41	20.33				
5	256QAM	1	0	18.39	18.39	18.41	19.5	5		
5	256QAM	1	12	18.44	18.42	18.30				
5	256QAM	1	24	18.47	18.49	18.39				
5	256QAM	12	0	18.45	18.43	18.44	19.5	5		
5	256QAM	12	7	18.45	18.45	18.40				
5	256QAM	12	13	18.40	18.39	18.39				
5	256QAM	25	0	18.39	18.48	18.23				

Band 41 Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.44	23.56	23.60	23.55	23.54	24.5	0		
20	QPSK	1	49	23.42	23.47	23.56	23.46	23.53				
20	QPSK	1	99	23.40	23.46	23.54	23.47	23.49				
20	QPSK	50	0	22.40	22.43	22.54	22.42	22.47	23.5	1		
20	QPSK	50	24	22.37	22.49	22.53	22.44	22.48				
20	QPSK	50	50	22.36	22.42	22.46	22.34	22.37				
20	QPSK	100	0	22.32	22.41	22.49	22.36	22.41	23.5	1		
20	16QAM	1	0	22.49	22.57	22.59	22.56	22.57				
20	16QAM	1	49	22.46	22.41	22.51	22.46	22.55				
20	16QAM	1	99	22.44	22.49	22.59	22.48	22.46	22.5	2		
20	16QAM	50	0	21.38	21.48	21.53	21.44	21.44				
20	16QAM	50	24	21.35	21.50	21.58	21.38	21.51				
20	16QAM	50	50	21.36	21.37	21.46	21.32	21.31	22.5	2		
20	16QAM	100	0	21.26	21.39	21.53	21.38	21.42				
20	16QAM	1	0	21.43	21.53	21.58	21.51	21.51				
20	16QAM	1	49	21.45	21.44	21.55	21.40	21.49	22.5	2		
20	16QAM	1	99	21.38	21.50	21.53	21.45	21.54				
20	16QAM	50	0	20.43	20.47	20.55	20.38	20.43				
20	16QAM	50	24	20.39	20.47	20.58	20.48	20.46	21.5	3		
20	16QAM	50	50	20.36	20.46	20.43	20.29	20.38				
20	16QAM	100	0	20.31	20.44	20.51	20.32	20.43				
20	256QAM	1	0	18.41	18.52	18.58	18.57	18.49	19.5	5		
20	256QAM	1	49	18.44	18.44	18.56	18.40	18.55				
20	256QAM	1	99	18.44	18.48	18.50	18.44	18.49				
20	256QAM	50	0	18.39	18.41	18.52	18.47	18.47	19.5	5		
20	256QAM	50	24	18.38	18.53	18.53	18.4					



Band 42 Part 27Q Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.06	19.15	19.09			
20	QPSK	1	49	18.98	19.10	18.99	20	0	
20	QPSK	1	99	18.96	19.06	19.02			
20	QPSK	50	0	18.05	18.18	18.04			
20	QPSK	50	24	17.97	18.09	18.00			
20	QPSK	50	50	17.95	18.10	18.07	19	1	
20	16QAM	100	0	18.11	18.15	18.14			
20	16QAM	1	0	18.11	18.14	18.05			
20	16QAM	1	49	18.03	18.16	18.04	19	1	
20	16QAM	1	99	17.96	18.03	18.01			
20	16QAM	50	0	17.07	17.16	17.09			
20	16QAM	50	24	17.01	17.06	17.01	18	2	
20	16QAM	50	50	16.97	17.05	17.13			
20	16QAM	100	0	17.09	17.20	17.13			
20	64QAM	1	0	17.07	17.18	17.00			
20	64QAM	1	49	17.06	17.22	17.08	18	2	
20	64QAM	1	99	17.01	17.02	17.03			
20	64QAM	50	0	16.02	16.16	15.98			
20	64QAM	50	24	16.03	16.12	16.02	17	3	
20	64QAM	50	50	15.92	16.12	16.12			
20	64QAM	100	0	16.11	16.16	16.15			
20	256QAM	1	0	14.07	14.14	14.04			
20	256QAM	1	49	13.92	14.08	13.99	15	5	
20	256QAM	1	99	13.93	14.12	14.01			
20	256QAM	50	0	14.06	14.17	14.16			
20	256QAM	50	24	14.06	14.18	14.03	15	5	
20	256QAM	50	50	14.02	14.20	14.02			
20	256QAM	100	0	13.92	14.05	14.01			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423.5	3500	3576.5			
15	QPSK	1	0	19.02	19.04	19.04	20	0	
15	QPSK	1	37	18.96	18.99	18.99			
15	QPSK	1	74	18.92	19.01	18.90			
15	QPSK	36	0	17.91	18.09	18.01			
15	QPSK	36	20	17.84	18.04	17.98	19	1	
15	QPSK	36	39	17.90	18.08	17.95			
15	QPSK	75	0	16.07	16.09	16.08			
15	16QAM	1	0	18.07	18.12	18.01			
15	16QAM	1	37	18.00	18.02	17.94	19	1	
15	16QAM	1	74	17.84	17.97	17.87			
15	16QAM	36	0	17.04	17.11	16.95			
15	16QAM	36	20	16.90	16.92	16.95	18	2	
15	16QAM	36	39	16.89	17.03	17.04			
15	16QAM	75	0	17.06	17.11	17.10			
15	64QAM	1	0	17.01	17.10	16.93			
15	64QAM	1	37	16.99	17.09	17.03	18	2	
15	64QAM	1	74	16.89	16.98	16.92			
15	64QAM	36	0	15.99	16.10	15.93			
15	64QAM	36	20	15.92	16.08	15.91	17	3	
15	64QAM	36	39	15.83	16.05	16.00			
15	64QAM	75	0	14.02	14.07	13.91			
15	256QAM	1	0	13.76	14.02	13.96	15	5	
15	256QAM	1	37	13.78	14.02	13.96			
15	256QAM	1	74	13.83	14.07	13.89			
15	256QAM	36	0	14.04	14.11	14.11			
15	256QAM	36	20	14.00	14.04	13.94	15	5	
15	256QAM	36	39	13.90	14.10	13.93			
15	256QAM	75	0	13.93	13.95	13.94			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.98	19.02	19.06	20	0	
10	QPSK	1	25	18.93	18.96	18.96			
10	QPSK	1	49	18.90	18.96	18.93			
10	QPSK	25	0	17.98	18.05	17.92			
10	QPSK	25	12	17.88	18.05	17.96	19	1	
10	QPSK	25	25	17.88	18.06	17.97			
10	QPSK	50	0	18.02	18.05	18.12			
10	16QAM	1	0	18.00	18.05	17.97			
10	16QAM	1	25	17.97	18.03	17.98	19	1	
10	16QAM	1	49	17.91	17.92	17.91			
10	16QAM	25	0	17.00	17.10	16.99			
10	16QAM	25	12	16.90	17.00	16.89	18	2	
10	16QAM	25	25	16.91	16.96	17.06			
10	16QAM	50	0	17.07	17.10	17.08			
10	64QAM	1	0	17.02	17.15	16.91	18	2	
10	64QAM	1	25	17.03	17.15	16.99			
10	64QAM	1	49	16.91	16.91	16.95			
10	64QAM	25	0	15.99	16.10	15.90			
10	64QAM	25	12	15.96	16.09	15.97	17	3	
10	64QAM	25	25	15.85	16.06	15.99			
10	64QAM	50	0	16.02	16.10	16.01			
10	256QAM	1	0	13.99	14.11	13.92	15	5	
10	256QAM	1	25	13.86	13.95	13.89			
10	256QAM	1	49	13.87	14.04	13.87			
10	256QAM	25	0	13.97	14.14	14.03			
10	256QAM	25	12	13.98	14.07	13.95	15	5	
10	256QAM	25	25	13.96	14.15	13.90			
10	256QAM	50	0	13.85	13.94	13.88			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423.5	3500	3576.5			
5	QPSK	1	0	19.00	19.05	18.98	20	0	
5	QPSK	1	12	18.93	19.01	18.96			
5	QPSK	1	24	18.86	18.99	18.96			
5	QPSK	12	0	17.94	18.13	17.98			
5	QPSK	12	7	17.88	18.02	17.88	19	1	
5	QPSK	12	13	17.86	18.00	17.95			
5	QPSK	25	0	18.01	18.12	18.08			
5	16QAM	1	0	18.06	18.10	17.94			
5	16QAM	1	12	17.89	18.11	18.01	19	1	
5	16QAM	1	24	17.87	17.97	17.95			
5	16QAM	12	0	17.03	17.03	16.99			
5	16QAM	12	7	16.97	17.03	16.90	18	2	
5	16QAM	12	13	16.88	17.00	17.04			
5	16QAM	25	0	17.00	17.12	17.07			
5	64QAM	1	0	16.96	17.10	16.91			
5	64QAM	1	12	16.96	17.16	17.02	18	2	
5	64QAM	1	24	16.92	16.92	16.95			
5	64QAM	12	0	15.99	16.11	15.91			
5	64QAM	12	7	15.90	16.05	15.95	17	3	
5	64QAM	12	13	15.88	16.05	16.00			
5	64QAM	25	0	15.97	16.06	16.01			
5	256QAM	1	0	14.02	14.06	13.90	15	5	
5	256QAM	1	12	13.79	14.04	13.89			
5	256QAM	1	24	13.86	14.09	13.88			
5	256QAM	12	0	13.92	14.08	14.05			
5	256QAM	12	7	13.99	14.14	13.98	15	5	
5	256QAM	12	13	13.97	14.13	13.97			
5	256QAM	25	0	13.85	13.94	13.97			

Band 48 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150			
Frequency (MHz)				3560	3569	3641			
20	QPSK	1	0	19.03	19.12	19.01	20	0	
20	QPSK	1	49	19.01	19.06	18.94			
20	QPSK	1	99	19.01	19.11	18.93			
20	QPSK	50	0	18.08	18.13	17.99			
20	QPSK	50	24	18.05	18.04	18.00	19	1	
20	QPSK	50	50	18.01	18.11	17.87			
20	QPSK	100	0	18.02	18.14	17.92			
20	16QAM	1	0	18.02	18.11	17.97			
20	16QAM	1	49	17.95	18.03	17.91	19	1	
20	16QAM	1	99	17.97	18.05	17.90			
20	16QAM	50	0	17.07	17.16	17.05			
20	16QAM	50	24	17.00	17.03	17.03	18	2	
20	16QAM	50	50	16.96	17.10	16.89			
20	16QAM	100	0	16.98					



Band 38 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2560	2595	2616				
20	QPSK	1	0	23.43	23.52	23.48	24.5	0		
20	QPSK	1	49	23.38	23.45	23.38				
20	QPSK	1	99	23.40	23.40	23.37				
20	QPSK	50	0	22.37	22.57	22.43				
20	QPSK	50	24	22.34	22.49	22.37	23.5	1		
20	QPSK	50	50	22.41	22.42	22.33				
20	QPSK	100	0	22.46	22.52	22.50				
20	16QAM	1	0	22.44	22.54	22.47				
20	16QAM	1	49	22.38	22.51	22.36	23.5	1		
20	16QAM	1	99	22.39	22.39	22.34				
20	16QAM	50	0	21.36	21.56	21.37				
20	16QAM	50	24	21.36	21.54	21.35	22.5	2		
20	16QAM	50	50	21.42	21.43	21.29				
20	16QAM	100	0	21.40	21.53	21.47				
20	64QAM	1	0	21.50	21.56	21.43				
20	64QAM	1	49	21.43	21.52	21.38	22.5	2		
20	64QAM	1	99	21.33	21.41	21.31				
20	64QAM	50	0	20.39	20.58	20.44				
20	64QAM	50	24	20.35	20.54	20.32	21.5	3		
20	64QAM	50	50	20.41	20.47	20.31				
20	64QAM	100	0	20.48	20.58	20.45				
20	256QAM	1	0	18.32	18.52	18.37				
20	256QAM	1	49	18.40	18.46	18.40	19.5	5		
20	256QAM	1	99	18.44	18.37	18.35				
20	256QAM	50	0	18.46	18.48	18.46				
20	256QAM	50	24	18.45	18.58	18.42	19.5	5		
20	256QAM	50	50	18.43	18.54	18.34				
20	256QAM	100	0	18.38	18.42	18.29				
Channel				37825	38000	38175				
Frequency (MHz)				2372.5	2395	2412.5				
15	QPSK	1	0	23.29	23.45	23.45	24.5	0		
15	QPSK	1	37	23.31	23.38	23.27				
15	QPSK	1	74	23.36	23.27	23.34				
15	QPSK	36	0	22.25	22.47	22.32				
15	QPSK	36	20	22.31	22.41	22.29	23.5	1		
15	QPSK	36	39	22.27	22.36	22.22				
15	QPSK	75	0	22.42	22.47	22.40				
15	16QAM	1	0	22.33	22.40	22.39	23.5	1		
15	16QAM	1	37	22.31	22.38	22.25				
15	16QAM	1	74	22.27	22.31	22.25				
15	16QAM	36	0	21.27	21.45	21.27				
15	16QAM	36	20	21.28	21.41	21.28	22.5	2		
15	16QAM	36	39	21.29	21.37	21.24				
15	16QAM	75	0	21.32	21.43	21.45				
15	64QAM	1	0	21.41	21.49	21.30				
15	64QAM	1	37	21.35	21.39	21.32	22.5	2		
15	64QAM	1	74	21.25	21.29	21.26				
15	64QAM	36	0	20.32	20.51	20.32				
15	64QAM	36	20	20.32	20.48	20.23	21.5	3		
15	64QAM	36	39	20.37	20.36	20.20				
15	64QAM	75	0	20.40	20.51	20.37				
15	256QAM	1	0	18.20	18.41	18.33				
15	256QAM	1	37	18.30	18.38	18.34	19.5	5		
15	256QAM	1	74	18.32	18.28	18.30				
15	256QAM	36	0	18.39	18.41	18.43				
15	256QAM	36	20	18.35	18.50	18.32	19.5	5		
15	256QAM	36	39	18.39	18.44	18.23				
15	256QAM	75	0	18.27	18.35	18.25				
Channel				37860	38000	38125				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.34	23.39	23.43	24.5	0		
10	QPSK	1	25	23.27	23.39	23.32				
10	QPSK	1	49	23.36	23.33	23.25				
10	QPSK	25	0	22.24	22.46	22.38	23.5	1		
10	QPSK	25	12	22.24	22.37	22.31				
10	QPSK	25	25	22.37	22.37	22.20				
10	QPSK	50	0	22.39	22.46	22.43				
10	16QAM	1	0	22.33	22.42	22.35	23.5	1		
10	16QAM	1	25	22.27	22.45	22.32				
10	16QAM	1	49	22.35	22.31	22.27				
10	16QAM	25	0	21.32	21.53	21.31				
10	16QAM	25	12	21.32	21.50	21.27	22.5	2		
10	16QAM	25	25	21.28	21.40	21.17				
10	16QAM	50	0	21.30	21.42	21.40				
10	64QAM	1	0	21.43	21.53	21.34	22.5	2		
10	64QAM	1	25	21.34	21.44	21.27				
10	64QAM	1	49	21.19	21.35	21.29				
10	64QAM	25	0	20.34	20.52	20.41	21.5	3		
10	64QAM	25	12	20.27	20.50	20.19				
10	64QAM	25	25	20.36	20.36	20.25				
10	64QAM	50	0	20.43	20.52	20.32				
10	256QAM	1	0	18.28	18.50	18.33	19.5	5		
10	256QAM	1	25	18.27	18.39	18.36				
10	256QAM	1	49	18.39	18.27	18.33				
10	256QAM	25	0	18.39	18.35	18.39				
10	256QAM	25	12	18.34	18.50	18.31	19.5	5		
10	256QAM	25	25	18.34	18.47	18.23				
10	256QAM	50	0	18.34	18.32	18.28				
Channel				37775	38000	38225				
Frequency (MHz)				2372.5	2395	2417.5				
5	QPSK	1	0	23.39	23.39	23.37	24.5	0		
5	QPSK	1	12	23.28	23.36	23.29				
5	QPSK	1	24	23.30	23.26	23.27				
5	QPSK	12	0	22.23	22.51	22.34				
5	QPSK	12	7	22.29	22.36	22.35	23.5	1		
5	QPSK	12	13	22.31	22.30	22.27				
5	QPSK	25	0	22.43	22.48	22.46				
5	16QAM	1	0	22.41	22.46	22.40	23.5	1		
5	16QAM	1	12	22.29	22.41	22.31				
5	16QAM	1	24	22.26	22.28	22.22				
5	16QAM	12	0	21.25	21.43	21.29				
5	16QAM	12	7	21.29	21.41	21.24	22.5	2		
5	16QAM	12	13	21.34	21.32	21.22				
5	16QAM	25	0	21.31	21.43	21.34				
5	64QAM	1	0	21.42	21.47	21.32				
5	64QAM	1	12	21.36	21.42	21.27	22.5	2		
5	64QAM	1	24	21.21	21.33	21.22				
5	64QAM	12	0	20.35	20.54	20.37				
5	64QAM	12	7	20.31	20.50	20.25	21.5	3		
5	64QAM	12	13	20.33	20.44	20.22				
5	64QAM	25	0	20.43	20.47	20.37				
5	256QAM	1	0	18.23	18.38	18.26	19.5	5		
5	256QAM	1	12	18.30	18.34	18.33				
5	256QAM	1	24	18.30	18.25	18.24				
5	256QAM	12	0	18.44	18.38	18.33				
5	256QAM	12	7	18.38	18.55	18.30	19.5	5		
5	256QAM	12	13	18.39	18.42	18.21				
5	256QAM	25	0	18.24	18.31	18.18				

Band 41 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620				
Frequency (MHz)				2560	2595	2636.5				
20	QPSK	1	0	23.52	23.48	23.59	24.5	0		
20	QPSK	1	49	23.47	23.39	23.46				
20	QPSK	1	99	23.40	23.38	23.44				
20	QPSK	50	0	22.86	22.41	22.66	23.5	1		
20	QPSK	50	24	22.50	22.41	22.52				
20	QPSK	50	50	22.45	22.40	22.48				

Band 42 Part 27Q Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.46	20.47	20.22	21.5	0	
20	QPSK	1	49	20.42	20.41	20.19			
20	QPSK	1	99	20.42	20.45	20.19			
20	QPSK	50	0	19.47	19.47	19.21	20.5	1	
20	QPSK	50	24	19.44	19.42	19.23			
20	QPSK	50	50	19.46	19.42	19.20			
20	QPSK	100	0	19.37	19.41	19.16			
20	16QAM	1	0	19.41	19.41	19.19	20.5	1	
20	16QAM	1	49	19.46	19.47	19.19			
20	16QAM	1	99	19.46	19.50	19.23			
20	16QAM	50	0	18.51	18.45	18.26	19.5	2	
20	16QAM	50	24	18.41	18.43	18.25			
20	16QAM	50	50	18.46	18.44	18.24			
20	16QAM	100	0	18.38	18.36	18.19	19.5	2	
20	16QAM	100	0	18.38	18.43	18.08			
20	64QAM	1	0	18.38	18.35	18.13			
20	64QAM	1	49	18.37	18.35	18.08			
20	64QAM	50	0	17.35	17.41	17.16	18.5	3	
20	64QAM	50	24	17.29	17.30	17.12			
20	64QAM	50	50	17.35	17.34	17.16			
20	64QAM	100	0	17.22	17.38	17.03			
20	256QAM	1	0	15.40	15.43	15.27	16.5	5	
20	256QAM	1	49	15.37	15.42	15.24			
20	256QAM	1	99	15.39	15.42	15.23			
20	256QAM	50	0	15.37	15.39	15.05	16.5	5	
20	256QAM	50	24	15.37	15.33	15.16			
20	256QAM	50	50	15.40	15.30	15.16			
20	256QAM	100	0	15.27	15.32	15.08			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3425	3475	3525			
15	QPSK	1	0	20.46	20.46	20.18	21.5	0	
15	QPSK	1	37	20.39	20.39	20.11			
15	QPSK	1	74	20.32	20.39	20.14			
15	QPSK	36	0	19.46	19.45	19.20	20.5	1	
15	QPSK	36	20	19.39	19.32	19.12			
15	QPSK	36	39	19.41	19.34	19.09			
15	QPSK	75	0	19.28	19.40	19.06	20.5	1	
15	16QAM	1	0	19.41	19.40	19.14			
15	16QAM	1	37	19.42	19.39	19.17	20.5	1	
15	16QAM	1	74	19.36	19.47	19.19			
15	16QAM	36	0	18.41	18.41	18.25	19.5	2	
15	16QAM	36	20	18.20	18.39	18.19			
15	16QAM	36	39	18.37	18.34	18.21			
15	16QAM	75	0	18.27	18.32	18.14	19.5	2	
15	64QAM	1	0	18.28	18.36	18.01			
15	64QAM	1	37	18.30	18.30	18.02	19.5	2	
15	64QAM	1	74	18.26	18.29	18.07			
15	64QAM	36	0	17.26	17.32	17.08	18.5	3	
15	64QAM	36	20	17.25	17.27	17.04			
15	64QAM	36	39	17.27	17.31	17.05			
15	64QAM	75	0	17.13	17.26	17.00	16.5	5	
15	256QAM	1	0	15.31	15.37	15.24			
15	256QAM	1	37	15.27	15.37	15.18			
15	256QAM	1	74	15.32	15.34	15.12	16.5	5	
15	256QAM	36	0	15.33	15.37	14.98			
15	256QAM	36	20	15.33	15.22	15.07			
15	256QAM	36	39	15.40	15.27	15.07			
15	256QAM	75	0	15.24	15.23	15.09			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.38	20.42	20.16	21.5	0	
10	QPSK	1	25	20.31	20.31	20.15			
10	QPSK	1	49	20.33	20.43	20.12			
10	QPSK	25	0	19.41	19.38	19.18	20.5	1	
10	QPSK	25	12	19.41	19.37	19.21			
10	QPSK	25	25	19.36	19.41	19.11			
10	QPSK	50	0	19.27	19.39	19.06	20.5	1	
10	16QAM	1	0	19.40	19.33	19.17			
10	16QAM	1	25	19.39	19.36	19.14			
10	16QAM	1	49	19.35	19.48	19.16	19.5	2	
10	16QAM	25	0	18.41	18.39	18.17			
10	16QAM	25	12	18.40	18.40	18.18			
10	16QAM	25	25	18.44	18.38	18.15	19.5	2	
10	16QAM	50	0	18.29	18.36	18.12			
10	64QAM	1	0	18.28	18.35	18.00	19.5	2	
10	64QAM	1	25	18.29	18.29	18.02			
10	64QAM	1	49	18.29	18.28	18.02			
10	64QAM	25	0	17.35	17.37	17.07	18.5	3	
10	64QAM	25	12	17.17	17.25	17.04			
10	64QAM	25	25	17.27	17.30	17.14			
10	64QAM	50	0	17.13	17.24	16.96	16.5	5	
10	256QAM	1	0	15.37	15.40	15.15			
10	256QAM	1	25	15.27	15.32	15.18			
10	256QAM	1	49	15.32	15.34	15.19	16.5	5	
10	256QAM	25	0	15.33	15.29	14.99			
10	256QAM	25	12	15.36	15.21	15.13			
10	256QAM	25	25	15.32	15.24	15.09	16.5	5	
10	256QAM	50	0	15.25	15.28	15.00			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3425	3500	3575			
5	QPSK	1	0	20.42	20.43	20.22	21.5	0	
5	QPSK	1	12	20.38	20.33	20.11			
5	QPSK	1	24	20.39	20.34	20.09			
5	QPSK	12	0	19.43	19.37	19.17	20.5	1	
5	QPSK	12	7	19.41	19.38	19.13			
5	QPSK	12	13	19.40	19.35	19.10			
5	QPSK	25	0	19.29	19.32	19.09	20.5	1	
5	16QAM	1	0	19.37	19.34	19.08			
5	16QAM	1	12	19.42	19.44	19.19	20.5	1	
5	16QAM	1	24	19.42	19.40	19.13			
5	16QAM	12	0	18.47	18.40	18.23	19.5	2	
5	16QAM	12	7	18.30	18.42	18.22			
5	16QAM	12	13	18.37	18.43	18.12			
5	16QAM	25	0	18.31	18.30	18.08	19.5	2	
5	64QAM	1	0	18.36	18.41	18.02			
5	64QAM	1	12	18.23	18.27	18.06	18.5	3	
5	64QAM	1	24	18.30	18.25	18.04			
5	64QAM	12	0	17.26	17.41	17.10	18.5	3	
5	64QAM	12	7	17.23	17.19	17.01			
5	64QAM	12	13	17.33	17.24	17.09			
5	64QAM	25	0	17.16	17.24	16.95	16.5	5	
5	256QAM	1	0	15.32	15.33	15.16			
5	256QAM	1	12	15.26	15.30	15.22	16.5	5	
5	256QAM	1	24	15.37	15.34	15.17			
5	256QAM	12	0	15.37	15.27	15.02	16.5	5	
5	256QAM	12	7	15.25	15.29	15.16			
5	256QAM	12	13	15.33	15.29	15.12			
5	256QAM	25	0	15.22	15.24	15.06			

Band 48 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150			
Frequency (MHz)				3560	3569	3641			
20	QPSK	1	0	20.44	20.46	20.39	21.5	0	
20	QPSK	1	49	20.33	20.45	20.29			
20	QPSK	1	99	20.36	20.45	20.32			
20	QPSK	50	0	19.40	19.47	19.41	20.5	1	
20	QPSK	50	24	19.48	19.48	19.33			
20	QPSK	50	50	19.37	19.42	19.36			
20	QPSK	100	0	19.32	19.47	19.37			
20	16QAM	1	0	19.41	19.48	19.37	20.5	1	
20	16QAM	1	49	19.35	19.43	19.30			
20	16QAM	1	99	19.37	19.51	19.28			
20	16QAM	50	0	18.42	18.50	18.40	19.5	2	
20	16QAM	50	24	18.50	18.47	18.32			
20	16QAM	50	50	18.35	18.40	18.38			
20	16QAM	100	0	18.37	18.49	18.32	19.5	2	
20	64QAM	1	0	18.50	18.40	18.38			
20	64QAM	1	49	18.38	18.49	18.25			
20	64QAM	1	99	18.32					



Band 38 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.11	23.16	23.12	24.5	0		
20	QPSK	1	49	23.09	23.15	23.05				
20	QPSK	1	99	23.14	23.14	23.05				
20	QPSK	50	0	22.10	22.20	22.15				
20	QPSK	50	24	22.05	22.18	22.13				
20	QPSK	50	50	22.11	22.15	22.07	23.5	1		
20	16QAM	100	0	22.14	22.18	22.14				
20	16QAM	1	0	22.10	22.16	22.15				
20	16QAM	1	49	22.09	22.11	22.04	23.5	1		
20	16QAM	1	99	22.05	22.13	22.06				
20	16QAM	50	0	21.08	21.15	21.05				
20	16QAM	50	24	21.07	21.17	21.15				
20	16QAM	50	50	21.17	21.17	21.07				
20	16QAM	100	0	21.08	21.14	20.99				
20	64QAM	1	0	21.09	21.17	21.09	22.5	2		
20	64QAM	1	49	21.05	21.14	21.03				
20	64QAM	1	99	21.08	21.11	21.07				
20	64QAM	50	0	20.12	20.17	20.08				
20	64QAM	50	24	20.08	20.24	20.11				
20	64QAM	50	50	20.16	20.16	20.11	21.5	3		
20	64QAM	100	0	19.97	20.14	20.05				
20	256QAM	1	0	18.05	18.20	18.06				
20	256QAM	1	49	18.10	18.18	18.04	19.5	5		
20	256QAM	1	99	18.04	18.11	18.00				
20	256QAM	50	0	18.08	18.19	18.04				
20	256QAM	50	24	18.05	18.14	18.12	19.5	5		
20	256QAM	50	50	18.08	18.17	18.04				
20	256QAM	100	0	18.02	18.18	18.08				
Channel				37825	38000	38175				
Frequency (MHz)				25775	25950	26125				
15	QPSK	1	0	23.09	23.14	23.02	24.5	0		
15	QPSK	1	37	23.08	23.08	23.02				
15	QPSK	1	74	22.92	23.10	23.03				
15	QPSK	36	0	22.02	22.09	22.07				
15	QPSK	36	20	21.98	22.07	22.12	23.5	1		
15	QPSK	36	39	22.10	22.15	22.02				
15	QPSK	75	0	22.11	22.12	22.05				
15	16QAM	1	0	21.99	22.06	22.10				
15	16QAM	1	37	22.09	22.07	21.98	23.5	1		
15	16QAM	1	74	21.96	22.10	21.98				
15	16QAM	36	0	21.05	21.10	20.99				
15	16QAM	36	20	21.05	21.12	21.06				
15	16QAM	36	39	21.12	21.11	21.02	22.5	2		
15	16QAM	75	0	20.97	21.03	20.91				
15	64QAM	1	0	21.02	21.10	21.03				
15	64QAM	1	37	20.95	21.08	21.02	22.5	2		
15	64QAM	1	74	21.02	21.09	20.99				
15	64QAM	36	0	20.07	20.13	19.99				
15	64QAM	36	20	20.06	20.12	20.07	21.5	3		
15	64QAM	36	39	20.16	20.06	20.05				
15	64QAM	75	0	19.85	20.11	20.02				
15	256QAM	1	0	17.96	18.12	18.04	19.5	5		
15	256QAM	1	37	18.01	18.11	17.98				
15	256QAM	1	74	18.04	18.03	17.93				
15	256QAM	36	0	18.08	18.19	17.95				
15	256QAM	36	20	18.04	18.09	18.12	19.5	5		
15	256QAM	36	39	18.05	18.15	18.03				
15	256QAM	75	0	17.99	18.13	17.99				
Channel				37800	38000	38200				
Frequency (MHz)				25750	25950	26150				
10	QPSK	1	0	23.10	23.14	23.09	24.5	0		
10	QPSK	1	25	23.00	23.09	22.95				
10	QPSK	1	49	23.03	23.12	22.99				
10	QPSK	25	0	22.09	22.16	22.10				
10	QPSK	25	12	21.96	22.07	22.04	23.5	1		
10	QPSK	25	25	22.05	22.13	22.05				
10	QPSK	50	0	22.13	22.13	22.12				
10	16QAM	1	0	22.04	22.14	22.13	23.5	1		
10	16QAM	1	25	22.07	22.05	22.01				
10	16QAM	1	49	21.96	22.04	22.01				
10	16QAM	25	0	21.00	21.14	20.99				
10	16QAM	25	12	21.00	21.11	21.14				
10	16QAM	25	25	21.05	21.15	21.01	22.5	2		
10	16QAM	50	0	20.98	21.11	20.92				
10	64QAM	1	0	21.02	21.16	21.09				
10	64QAM	1	25	20.98	21.12	20.97	22.5	2		
10	64QAM	1	49	21.05	21.01	20.99				
10	64QAM	25	0	20.10	20.06	20.05				
10	64QAM	25	12	20.02	20.16	20.06	21.5	3		
10	64QAM	25	25	20.06	20.13	20.10				
10	64QAM	50	0	19.91	20.04	19.94				
10	256QAM	1	0	17.99	18.09	18.01	19.5	5		
10	256QAM	1	25	18.03	18.11	18.01				
10	256QAM	1	49	18.03	18.05	17.94				
10	256QAM	25	0	17.96	18.10	18.02				
10	256QAM	25	12	18.14	18.09	18.08	19.5	5		
10	256QAM	25	25	17.97	18.06	17.95				
10	256QAM	50	0	17.99	18.15	17.99				
Channel				37775	38000	38225				
Frequency (MHz)				25725	25950	26175				
5	QPSK	1	0	23.04	23.14	23.03	24.5	0		
5	QPSK	1	12	23.07	23.08	23.03				
5	QPSK	1	24	23.01	23.06	22.94				
5	QPSK	12	0	22.05	22.14	22.12				
5	QPSK	12	7	21.99	22.12	22.13	23.5	1		
5	QPSK	12	13	22.06	22.05	22.02				
5	QPSK	25	0	22.02	22.15	22.11				
5	16QAM	1	0	22.02	22.11	22.12				
5	16QAM	1	12	22.09	22.01	22.00	23.5	1		
5	16QAM	1	24	21.97	22.06	22.03				
5	16QAM	12	0	20.99	21.06	20.94				
5	16QAM	12	7	20.99	21.12	21.07				
5	16QAM	12	13	21.08	21.10	21.05	22.5	2		
5	16QAM	25	0	20.91	21.09	20.88				
5	64QAM	1	0	21.04	21.16	20.98				
5	64QAM	1	12	21.03	21.09	20.96	22.5	2		
5	64QAM	1	24	21.03	21.08	21.04				
5	64QAM	12	0	20.09	20.07	20.06				
5	64QAM	12	7	19.98	20.18	20.01	21.5	3		
5	64QAM	12	13	20.13	20.09	20.05				
5	64QAM	25	0	19.89	20.08	20.00				
5	256QAM	1	0	18.05	18.11	18.06	19.5	5		
5	256QAM	1	12	18.05	18.11	18.03				
5	256QAM	1	24	17.99	18.07	17.92				
5	256QAM	12	0	18.07	18.10	17.92				
5	256QAM	12	7	18.00	18.03	18.10	19.5	5		
5	256QAM	12	13	17.94	18.10	17.94				
5	256QAM	25	0	17.93	18.12	18.03				

Band 41 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620				
Frequency (MHz)				2566	2569.5	2636.5				
20	QPSK	1	0	23.09	23.16	23.27	24.5	0		
20	QPSK	1	49	23.02	23.14	23.25				
20	QPSK	1	99	23.01	23.15	23.22				
20	QPSK	50	0	22.07	22.12	22.27				
20	QPSK	50	24	22.11	22.18	22.26				
20	QPSK	50	50	22.02	22.19	22.23	23.5	1		
20	16QAM	100	0	22.14	22.12	22.24				
20	16QAM	1	0	21.98	22.16	22.20	23.5	1		
20	16QAM	1	99	21.97	22.19	22.18				



Band 42 Part 27Q Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	24.56	24.59	24.54	25.5	0	
20	QPSK	1	49	24.54	24.57	24.51			
20	QPSK	1	99	24.52	24.56	24.48			
20	QPSK	50	0	23.53	23.57	23.52			
20	QPSK	50	24	23.57	23.56	23.57			
20	QPSK	50	50	23.54	23.55	23.45			
20	QPSK	100	0	23.52	23.57	23.52			
20	16QAM	1	0	23.53	23.57	23.52			
20	16QAM	1	49	23.59	23.56	23.46			
20	16QAM	1	99	23.52	23.60	23.46			
20	16QAM	50	0	22.48	22.56	22.51			
20	16QAM	50	24	22.52	22.50	22.51			
20	16QAM	50	50	22.59	22.52	22.48			
20	16QAM	100	0	22.47	22.56	22.53			
20	64QAM	1	0	22.53	22.56	22.57			
20	64QAM	1	49	22.50	22.56	22.50			
20	64QAM	1	99	22.51	22.60	22.45			
20	64QAM	50	0	21.58	21.61	21.53			
20	64QAM	50	24	21.54	21.58	21.59			
20	64QAM	50	50	21.56	21.61	21.41			
20	64QAM	100	0	21.55	21.52	21.55			
20	256QAM	1	0	19.55	19.56	19.49			
20	256QAM	1	49	19.54	19.56	19.53			
20	256QAM	1	99	19.54	19.61	19.48			
20	256QAM	50	0	19.57	19.59	19.52			
20	256QAM	50	24	19.52	19.54	19.61			
20	256QAM	50	50	19.53	19.56	19.48			
20	256QAM	100	0	19.55	19.57	19.56			
Channel				42165	42590	43015			
Frequency (MHz)				3427.5	3472.5	3517.5			
15	QPSK	1	0	24.46	24.56	24.47	25.5	0	
15	QPSK	1	37	24.46	24.47	24.39			
15	QPSK	1	74	24.40	24.48	24.48			
15	QPSK	36	0	23.44	23.45	23.51			
15	QPSK	36	20	23.52	23.49	23.54			
15	QPSK	36	39	23.49	23.45	23.41			
15	QPSK	75	0	23.40	23.46	23.46			
15	16QAM	1	0	23.46	23.56	23.40			
15	16QAM	1	37	23.48	23.47	23.36			
15	16QAM	1	74	23.49	23.50	23.36			
15	16QAM	36	0	22.36	22.50	22.47			
15	16QAM	36	20	22.51	22.46	22.49			
15	16QAM	36	39	22.48	22.50	22.42			
15	16QAM	75	0	22.45	22.51	22.46			
15	64QAM	1	0	22.50	22.51	22.46			
15	64QAM	1	37	22.40	22.46	22.47			
15	64QAM	1	74	22.46	22.57	22.43			
15	64QAM	36	0	21.51	21.59	21.52			
15	64QAM	36	20	21.47	21.48	21.57			
15	64QAM	36	39	21.51	21.54	21.33			
15	64QAM	75	0	21.50	21.45	21.48			
15	256QAM	1	0	19.52	19.51	19.41			
15	256QAM	1	37	19.43	19.56	19.51			
15	256QAM	1	74	19.46	19.60	19.42			
15	256QAM	36	0	19.56	19.57	19.40			
15	256QAM	36	20	19.46	19.45	19.57			
15	256QAM	36	39	19.50	19.50	19.40			
15	256QAM	75	0	19.51	19.51	19.45			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	24.51	24.58	24.43	25.5	0	
10	QPSK	1	25	24.47	24.50	24.43			
10	QPSK	1	49	24.49	24.56	24.41			
10	QPSK	25	0	23.44	23.56	23.45			
10	QPSK	25	12	23.52	23.45	23.50			
10	QPSK	25	25	23.49	23.50	23.43			
10	QPSK	50	0	23.44	23.53	23.50			
10	16QAM	1	0	23.49	23.45	23.44			
10	16QAM	1	25	23.52	23.47	23.45			
10	16QAM	1	49	23.40	23.60	23.44			
10	16QAM	25	0	22.44	22.55	22.48			
10	16QAM	25	12	22.44	22.39	22.46			
10	16QAM	25	25	22.56	22.49	22.41			
10	16QAM	50	0	22.41	22.54	22.51			
10	64QAM	1	0	22.48	22.54	22.50			
10	64QAM	1	25	22.49	22.49	22.46			
10	64QAM	1	49	22.41	22.56	22.36			
10	64QAM	25	0	21.55	21.57	21.48			
10	64QAM	25	12	21.49	21.54	21.51			
10	64QAM	25	25	21.49	21.50	21.30			
10	64QAM	50	0	21.43	21.47	21.49			
10	256QAM	1	0	19.45	19.52	19.42			
10	256QAM	1	25	19.50	19.53	19.45			
10	256QAM	1	49	19.53	19.51	19.37			
10	256QAM	25	0	19.49	19.52	19.47			
10	256QAM	25	12	19.44	19.44	19.50			
10	256QAM	25	25	19.46	19.48	19.43			
10	256QAM	50	0	19.49	19.55	19.52			
Channel				42115	42590	43065			
Frequency (MHz)				3422.5	3477.5	3532.5			
5	QPSK	1	0	24.50	24.54	24.49	25.5	0	
5	QPSK	1	12	24.44	24.54	24.47			
5	QPSK	1	24	24.50	24.52	24.39			
5	QPSK	12	0	23.44	23.46	23.44			
5	QPSK	12	7	23.45	23.45	23.46			
5	QPSK	12	13	23.46	23.45	23.38			
5	QPSK	25	0	23.43	23.40	23.50			
5	16QAM	1	0	23.53	23.51	23.42			
5	16QAM	1	12	23.54	23.48	23.37			
5	16QAM	1	24	23.44	23.59	23.38			
5	16QAM	12	0	22.45	22.48	22.44			
5	16QAM	12	7	22.45	22.45	22.48			
5	16QAM	12	13	22.47	22.50	22.42			
5	16QAM	25	0	22.36	22.51	22.44			
5	64QAM	1	0	22.48	22.49	22.53			
5	64QAM	1	12	22.42	22.53	22.47			
5	64QAM	1	24	22.45	22.49	22.42			
5	64QAM	12	0	21.50	21.57	21.45			
5	64QAM	12	7	21.52	21.54	21.57			
5	64QAM	12	13	21.48	21.54	21.30			
5	64QAM	25	0	21.54	21.45	21.47			
5	256QAM	1	0	19.47	19.44	19.38			
5	256QAM	1	12	19.52	19.55	19.51			
5	256QAM	1	24	19.52	19.59	19.40			
5	256QAM	12	0	19.51	19.53	19.44			
5	256QAM	12	7	19.40	19.42	19.59			
5	256QAM	12	13	19.42	19.46	19.39			
5	256QAM	25	0	19.55	19.45	19.54			

Band 48 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150			
Frequency (MHz)				3560	3569	3641			
20	QPSK	1	0	24.41	24.48	24.34	25.5	0	
20	QPSK	1	49	24.37	24.46	24.28			
20	QPSK	1	99	24.38	24.43	24.32			
20	QPSK	50	0	23.43	23.46	23.34			
20	QPSK	50	24	23.46	23.51	23.32			
20	QPSK	50	50	23.41	23.49	23.32			
20	QPSK	100	0	23.42	23.45	23.35			
20	16QAM	1	0	23.47	23.42	23.31			
20	16QAM	1	49	23.33	23.45	23.29			
20	16QAM	1	99	23.35	23.39	23.30			
20	16QAM	50	0	22.47	22.52	22.33			
20	16QAM	50	24	22.46	22.49	22.27			
20	16QAM	50	50	22.42	22.52	22.36			
20	16QAM	100	0	22.41	22.46	22.34			
20	64QAM	1	0	22.37	22.45	22.34			
20	64QAM	1	49	22.38	22.48				



Band 42 Part 27Q Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	22.83	22.86	22.75	24	0	
20	QPSK	1	49	22.75	22.82	22.68			
20	QPSK	1	99	22.70	22.80	22.68			
20	QPSK	50	0	21.82	21.88	21.80			
20	QPSK	50	24	21.74	21.80	21.70			
20	QPSK	50	50	21.76	21.85	21.61	23	1	
20	QPSK	100	0	21.82	21.82	21.70			
20	16QAM	1	0	21.80	21.81	21.81			
20	16QAM	1	49	21.76	21.80	21.66			
20	16QAM	1	99	21.76	21.84	21.63			
20	16QAM	50	0	20.80	20.81	20.80			
20	16QAM	50	24	20.70	20.76	20.75			
20	16QAM	50	50	20.73	20.87	20.63			
20	16QAM	100	0	20.82	20.82	20.72			
20	64QAM	1	0	20.79	20.80	20.80			
20	64QAM	1	49	20.76	20.75	20.71			
20	64QAM	1	99	20.76	20.80	20.67			
20	64QAM	50	0	19.78	19.85	19.85			
20	64QAM	50	24	19.71	19.76	19.64			
20	64QAM	50	50	19.75	19.86	19.61			
20	64QAM	100	0	19.82	19.76	19.74			
20	256QAM	1	0	17.85	17.81	17.82			
20	256QAM	1	49	17.79	17.80	17.68			
20	256QAM	1	99	17.79	17.88	17.61			
20	256QAM	50	0	17.83	17.81	17.73			
20	256QAM	50	24	17.79	17.83	17.83			
20	256QAM	50	50	17.79	17.85	17.82			
20	256QAM	100	0	17.75	17.84	17.67			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465.5	3505	3545.5			
15	QPSK	1	0	22.72	22.76	22.67	24	0	
15	QPSK	1	37	22.70	22.79	22.66			
15	QPSK	1	74	22.64	22.76	22.56			
15	QPSK	36	0	21.71	21.83	21.72			
15	QPSK	36	20	21.71	21.67	21.61			
15	QPSK	36	39	21.69	21.80	21.47			
15	QPSK	75	0	21.77	21.71	21.62			
15	16QAM	1	0	21.69	21.72	21.75			
15	16QAM	1	37	21.73	21.75	21.53			
15	16QAM	1	74	21.66	21.71	21.57			
15	16QAM	36	0	20.69	20.74	20.71			
15	16QAM	36	20	20.63	20.71	20.62			
15	16QAM	36	39	20.68	20.77	20.58			
15	16QAM	75	0	20.71	20.75	20.62			
15	64QAM	1	0	20.68	20.68	20.72			
15	64QAM	1	37	20.69	20.71	20.58			
15	64QAM	1	74	20.70	20.70	20.60			
15	64QAM	36	0	19.66	19.75	19.75			
15	64QAM	36	20	19.59	19.65	19.56			
15	64QAM	36	39	19.65	19.80	19.52			
15	64QAM	75	0	19.80	19.65	19.63			
15	256QAM	1	0	17.78	17.77	17.74			
15	256QAM	1	37	17.76	17.66	17.64			
15	256QAM	1	74	17.76	17.75	17.57			
15	256QAM	36	0	17.70	17.68	17.70			
15	256QAM	36	20	17.75	17.71	17.72			
15	256QAM	36	39	17.68	17.75	17.54			
15	256QAM	75	0	17.72	17.72	17.61			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	22.77	22.81	22.66	24	0	
10	QPSK	1	25	22.61	22.74	22.63			
10	QPSK	1	49	22.63	22.67	22.56			
10	QPSK	25	0	21.70	21.82	21.72			
10	QPSK	25	12	21.72	21.70	21.64			
10	QPSK	25	25	21.72	21.78	21.50			
10	QPSK	50	0	21.73	21.70	21.65			
10	16QAM	1	0	21.77	21.88	21.77			
10	16QAM	1	25	21.74	21.73	21.58			
10	16QAM	1	49	21.63	21.72	21.58			
10	16QAM	25	0	20.74	20.68	20.74			
10	16QAM	25	12	20.58	20.72	20.72			
10	16QAM	25	25	20.62	20.85	20.55			
10	16QAM	50	0	20.78	20.72	20.61			
10	64QAM	1	0	20.67	20.77	20.73			
10	64QAM	1	25	20.66	20.70	20.68			
10	64QAM	1	49	20.71	20.75	20.61			
10	64QAM	25	0	19.71	19.76	19.74			
10	64QAM	25	12	19.64	19.64	19.52			
10	64QAM	25	25	19.65	19.77	19.47			
10	64QAM	50	0	19.76	19.70	19.60			
10	256QAM	1	0	17.73	17.71	17.74			
10	256QAM	1	25	17.67	17.73	17.63			
10	256QAM	1	49	17.65	17.86	17.49			
10	256QAM	25	0	17.72	17.74	17.65			
10	256QAM	25	12	17.72	17.76	17.77			
10	256QAM	25	25	17.67	17.75	17.49			
10	256QAM	50	0	17.69	17.75	17.60			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	22.70	22.79	22.66	24	0	
5	QPSK	1	12	22.72	22.76	22.55			
5	QPSK	1	24	22.61	22.70	22.63			
5	QPSK	12	0	21.70	21.79	21.78			
5	QPSK	12	7	21.70	21.77	21.62			
5	QPSK	12	13	21.73	21.61	21.49			
5	QPSK	25	0	21.90	21.76	21.60			
5	16QAM	1	0	21.72	21.79	21.78			
5	16QAM	1	12	21.74	21.72	21.52			
5	16QAM	1	24	21.68	21.71	21.51			
5	16QAM	12	0	20.67	20.78	20.67			
5	16QAM	12	7	20.57	20.71	20.62			
5	16QAM	12	13	20.66	20.81	20.50			
5	16QAM	25	0	20.77	20.77	20.67			
5	64QAM	1	0	20.74	20.76	20.74			
5	64QAM	1	12	20.64	20.68	20.68			
5	64QAM	1	24	20.66	20.75	20.57			
5	64QAM	12	0	19.67	19.63	19.72			
5	64QAM	12	7	19.57	19.63	19.53			
5	64QAM	12	13	19.64	19.77	19.56			
5	64QAM	25	0	19.79	19.69	19.66			
5	256QAM	1	0	17.80	17.73	17.80			
5	256QAM	1	12	17.71	17.76	17.55			
5	256QAM	1	24	17.73	17.77	17.53			
5	256QAM	12	0	17.74	17.73	17.70			
5	256QAM	12	7	17.69	17.79	17.76			
5	256QAM	12	13	17.73	17.80	17.55			
5	256QAM	25	0	17.70	17.75	17.60			

Band 48 Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150			
Frequency (MHz)				3560	3569	3641			
20	QPSK	1	0	22.15	22.23	22.20	23.5	0	
20	QPSK	1	49	22.05	22.16	22.12			
20	QPSK	1	99	22.03	22.12	22.16			
20	QPSK	50	0	21.18	21.25	21.15			
20	QPSK	50	24	21.06	21.12	21.17			
20	QPSK	50	50	21.02	21.15	21.21	22.5	1	
20	QPSK	100	0	21.11	21.21	21.19			
20	16QAM	1	0	21.19	21.18	21.24			
20	16QAM	1	49	21.03	21.17	21.08			
20	16QAM	1	99	21.00	21.17	21.22			
20	16QAM	50	0	20.16	20.22	20.15			
20	16QAM	50	24	20.03	20.16	20.15			
20	16QAM	50	50	19.97	20.20	20.17			
20	16QAM	100	0	20.14	20.20	20.24			
20	64QAM	1	0	20.19	20.13	20.26			
20	64								

Reduced Power Mode for Main PA DSI1

GSM850 Ant 1 DSI1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel								
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM1 Tx slot	32.26	32.29	32.28	33.50	23.26	23.29	23.28	24.50
GPRS 1 Tx slot	32.24	32.26	32.24	33.50	23.24	23.26	23.24	24.50
GPRS 2 Tx slots	31.43	31.53	31.51	32.50	25.43	25.53	25.51	26.50
GPRS 3 Tx slots	29.67	29.75	29.77	31.00	25.41	25.49	25.51	26.74
GPRS 4 Tx slots	28.63	28.87	28.73	30.00	25.63	25.87	25.73	27.00
EDGE 1 Tx slot	26.87	26.99	26.94	28.00	17.87	17.99	17.94	19.00
EDGE 2 Tx slots	23.95	23.99	23.90	25.00	17.95	17.99	17.90	19.00
EDGE 3 Tx slots	22.09	22.15	22.13	23.20	17.83	17.89	17.87	18.94
EDGE 4 Tx slots	20.83	20.98	20.94	22.00	17.83	17.98	17.94	19.00

GSM1900 Ant 1 DSI1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel								
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.18	29.45	29.43	30.50	20.18	20.45	20.43	21.50
GPRS 1 Tx slot	29.31	29.38	29.36	30.50	20.31	20.38	20.36	21.50
GPRS 2 Tx slots	28.46	28.47	28.36	29.50	22.46	22.47	22.36	23.50
GPRS 3 Tx slots	26.74	26.73	26.67	28.00	22.48	22.47	22.41	23.74
GPRS 4 Tx slots	25.60	25.61	25.59	27.00	22.60	22.61	22.59	24.00
EDGE 1 Tx slot	25.84	25.90	25.81	27.00	16.84	16.90	16.81	18.00
EDGE 2 Tx slots	22.85	22.88	22.80	24.00	16.85	16.88	16.80	18.00
EDGE 3 Tx slots	21.02	21.08	21.01	22.20	16.76	16.82	16.75	17.94
EDGE 4 Tx slots	19.82	19.87	19.82	21.00	16.82	16.87	16.82	18.00

Band	TX Channel	WCDMA II Ant 1 DSI1			Tune-up Limit (dBm)	WCDMA IV Ant 1 DSI1			Tune-up Limit (dBm)	WCDMA V Ant 1 DSI1			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.88	22.94	22.83	24.00	23.83	23.89	23.80	25.00	24.38	24.46	24.35	25.50
3GPP Rel 99	RM-C 12.2Kbps	22.91	22.98	22.93	24.00	23.91	23.98	23.92	25.00	24.48	24.50	24.44	25.50
3GPP Rel 6	HSDPA Subtest-1	21.92	21.96	21.87	23.00	22.91	22.91	22.94	24.00	23.52	23.54	23.46	24.50
3GPP Rel 6	HSDPA Subtest-2	21.88	21.96	21.87	23.00	22.93	22.93	22.94	24.00	23.50	23.47	23.43	24.50
3GPP Rel 6	HSDPA Subtest-3	21.38	21.43	21.47	22.50	22.38	22.45	22.38	23.50	22.94	23.01	22.90	24.00
3GPP Rel 6	HSDPA Subtest-4	21.37	21.53	21.43	22.50	22.46	22.47	22.40	23.50	23.01	22.98	22.91	24.00
3GPP Rel 6	DC-HSDPA Subtest-1	21.89	22.04	21.88	23.00	22.89	23.02	22.91	24.00	23.46	23.56	23.41	24.50
3GPP Rel 6	DC-HSDPA Subtest-2	21.90	22.01	21.94	23.00	22.94	22.98	22.96	24.00	23.47	23.53	23.48	24.50
3GPP Rel 6	DC-HSDPA Subtest-3	21.38	21.44	21.45	22.50	22.40	22.51	22.45	23.50	23.01	23.04	22.94	24.00
3GPP Rel 6	DC-HSDPA Subtest-4	21.46	21.48	21.45	22.50	22.42	22.41	22.46	23.50	23.01	23.01	22.97	24.00
3GPP Rel 6	HSUPA Subtest-1	21.87	22.02	21.99	23.00	22.95	22.98	22.95	24.00	23.49	23.52	23.42	24.50
3GPP Rel 6	HSUPA Subtest-2	19.88	19.99	19.98	21.00	20.96	20.95	20.94	22.00	21.48	21.50	21.41	22.50
3GPP Rel 6	HSUPA Subtest-3	20.96	21.03	20.94	22.00	21.90	21.93	21.89	23.00	22.51	22.48	22.38	23.50
3GPP Rel 6	HSUPA Subtest-4	19.86	19.93	19.88	21.00	20.88	20.99	20.91	22.00	21.46	21.51	21.45	22.50
3GPP Rel 6	HSUPA Subtest-5	21.91	22.00	21.96	23.00	22.92	22.98	22.95	24.00	23.45	23.49	23.49	24.50
3GPP Rel 7	HSPA* (16QAM) Subtest-1	19.38	19.49	19.46	20.50	20.38	20.42	20.39	21.50	20.96	21.01	20.97	22.00



Band 2 Ant 1 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power High Ch./F.Freq.	Power Low Ch./F.Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.95	22.95	22.92			24	0
20	QPSK	1	48	22.84	22.84	22.81				
20	QPSK	1	96	22.88	22.85	22.80				
20	QPSK	50	0	21.93	22.00	21.97			23	1
20	QPSK	50	48	21.83	21.88	21.84				
20	QPSK	50	96	21.83	21.88	21.84				
20	QPSK	100	0	21.92	21.88	21.89				
20	QPSK	100	48	21.84	21.84	21.87			23	1
20	QPSK	100	96	21.82	21.87	21.84				
20	16QAM	1	96	21.80	21.80	21.77				
20	16QAM	5	0	20.95	21.01	21.00				
20	16QAM	50	24	20.87	20.90	20.85			22	2
20	16QAM	50	72	20.78	20.84	20.80				
20	16QAM	50	96	20.87	20.89	20.88				
20	16QAM	1	0	20.80	20.86	20.80				
20	16QAM	1	48	20.79	20.85	20.80			22	2
20	16QAM	1	96	20.88	20.84	20.82				
20	16QAM	50	0	19.90	19.95	19.93			21	3
20	16QAM	50	48	19.80	19.83	19.82				
20	16QAM	50	96	19.81	19.85	19.85				
20	25QAM	1	0	17.87	18.00	17.85			19	5
20	25QAM	1	48	17.78	17.80	17.85				
20	25QAM	1	96	17.82	18.00	17.82				
20	25QAM	50	0	17.80	17.80	17.80			19	5
20	25QAM	50	48	17.80	17.83	17.85				
20	25QAM	50	96	17.80	17.83	17.85				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.82	22.82	22.88			24	0
15	QPSK	1	48	22.82	22.82	22.88				
15	QPSK	1	96	22.84	22.84	22.86				
15	QPSK	36	0	21.82	21.85	21.86			24	1
15	QPSK	36	48	21.74	21.81	21.84				
15	QPSK	36	96	21.77	21.88	21.78			24	1
15	16QAM	1	96	21.80	21.84	21.75				
15	16QAM	1	37	21.73	21.85	21.76			23	1
15	16QAM	1	74	21.75	21.84	21.78				
15	16QAM	36	0	20.77	20.87	20.75			22	2
15	16QAM	36	48	20.70	20.81	20.74				
15	16QAM	36	96	20.78	20.87	20.82				
15	16QAM	1	0	20.70	20.88	20.85			22	2
15	16QAM	1	37	20.70	20.87	20.76				
15	16QAM	1	74	20.77	20.92	20.74				
15	16QAM	36	0	19.85	19.91	19.86			21	3
15	16QAM	36	48	19.73	19.89	19.74				
15	16QAM	36	96	19.87	19.95	19.70				
15	16QAM	75	0	19.77	19.91	19.82			19	5
15	25QAM	1	37	17.82	17.82	17.81			19	5
15	25QAM	1	74	17.89	17.88	17.75				
15	25QAM	36	0	17.80	17.83	17.83			19	5
15	25QAM	36	48	17.88	17.85	17.78				
15	25QAM	36	96	17.78	17.83	17.78				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.81	22.81	22.81			24	0
10	QPSK	1	48	22.82	22.82	22.73				
10	QPSK	25	0	21.71	21.80	21.80			24	1
10	QPSK	25	48	21.70	21.86	21.72				
10	QPSK	25	96	21.81	21.86	21.83			23	1
10	16QAM	1	96	21.72	21.82	21.81			23	1
10	16QAM	1	37	21.73	21.80	21.75				
10	16QAM	1	74	21.75	21.80	21.78			22	2
10	16QAM	36	0	20.70	20.89	20.77			22	2
10	16QAM	36	48	20.72	20.78	20.74				
10	16QAM	36	96	20.72	20.78	20.76				
10	16QAM	75	0	19.83	19.91	19.90			21	3
10	16QAM	75	48	19.75	19.88	19.74				
10	16QAM	75	96	19.82	19.90	19.88				
10	25QAM	1	37	17.82	17.82	17.81			19	5
10	25QAM	1	74	17.89	17.88	17.75				
10	25QAM	36	0	17.80	17.83	17.83			19	5
10	25QAM	36	48	17.88	17.85	17.78				
10	25QAM	36	96	17.78	17.83	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.83	22.83	22.83			25	0
5	QPSK	1	48	22.83	22.87	22.87				
5	QPSK	12	0	22.78	22.78	22.72			24	1
5	QPSK	12	48	22.75	22.75	22.72				
5	QPSK	12	96	22.76	22.75	22.75			24	1
5	16QAM	1	96	22.78	22.75	22.75			24	1
5	16QAM	1	37	22.73	22.75	22.72				
5	16QAM	1	74	22.75	22.75	22.72			23	2
5	16QAM	36	0	21.73	21.73	21.82				
5	16QAM	36	48	21.74	21.73	21.82			23	2
5	16QAM	36	96	21.74	21.73	21.82				
5	16QAM	75	0	20.72	20.72	20.76			22	3
5	16QAM	75	48	20.65	20.70	20.70				
5	16QAM	75	96	20.80	20.80	20.80				
5	25QAM	1	37	18.60	18.74	18.71			20	5
5	25QAM	1	74	18.60	18.74	18.60				
5	25QAM	36	0	18.60	18.74	18.60			20	5
5	25QAM	36	48	18.60	18.74	18.60				
5	25QAM	36	96	18.60	18.74	18.60			20	5
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.77	23.77	23.77			25	0
3	QPSK	1	48	23.68	23.68	23.68				
3	QPSK	36	0	22.65	22.74	22.83			24	1
3	QPSK	36	48	22.52	22.65	22.62				
3	QPSK	36	96	22.53	22.74	22.83			24	1
3	16QAM	1	96	22.70	22.69	22.69			24	1
3	16QAM	1	37	22.71	22.69	22.71				
3	16QAM	1	74	22.72	22.68	22.66			23	2
3	16QAM	36	0	21.68	21.78	21.73				
3	16QAM	36	48	21.72	21.84	21.72			23	2
3	16QAM	36	96	21.72	21.84	21.72				
3	16QAM	75	0	21.81	21.72	21.79			23	2
3	16QAM	75	48	21.73	21.81	21.69				
3	16QAM	75	96	21.82	21.77	21.82			22	3
3	16QAM	50	0	20.80	20.82	20.77				
3	16QAM	50	48	20.80	20.82	20.77				
3	16QAM	50	96	20.82	20.73	20.73			22	3
3	25QAM	1	37	18.60	18.69	18.64			20	5
3	25QAM	1	74	18.60	18.74	18.60				
3	25QAM	36	0	18.60	18.74	18.60			20	5
3	25QAM	36	48	18.60	18.74	18.60				
3	25QAM	36	96	18.60	18.74	18.60			20	5
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.71	23.72	23.70			25	0
10	QPSK	1	48	23.77	23.77	23.76				
10	QPSK	1	96	23.68	23.68	23.68				
10	QPSK	36	0	22.65	22.74	22.83			24	1
10	QPSK	36	48	22.52	22.65	22.62				
10	QPSK	36	96	22.53	22.74	22.83			24	1
10	16QAM	1	96	22.70	22.69	22.69			24	1
10	16QAM	1	37	22.71	22.69	22.71				
10	16QAM	1	74	22.72	22.68	22.66			23	2
10	16QAM	36	0	21.68	21.78	21.73				
10	16QAM	36	48	21.72	21.84	21.72			23	2
10	16QAM	36	96	21.72	21.84	21.72				
10	16QAM	75	0	21.81	21.72	21.79			23	2
10	16QAM	75	48	21.73	21.81	21.69				
10	16QAM	75	96	21.82	21.77	21.82			2	



Band 12 Ant 1 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.30	24.45	24.37	25.5	0		
10	QPSK	1	25	24.30	24.45	24.37	25.5	0		
10	QPSK	1	49	24.31	24.34	24.24	25.5	0		
10	QPSK	25	0	23.42	23.45	23.37	24.5	1		
10	QPSK	25	25	23.32	23.35	23.26	24.5	1		
10	QPSK	25	25	23.34	23.37	23.20	24.5	1		
10	QPSK	50	0	23.35	23.42	23.35	24.5	1		
10	QPSK	50	25	23.27	23.40	23.27	24.5	1		
10	16QAM	1	25	23.45	23.40	23.28	24.5	1		
10	16QAM	1	49	23.35	23.28	23.25	24.5	1		
10	16QAM	1	49	23.47	23.41	23.32	24.5	1		
10	16QAM	25	12	22.33	22.42	22.33	23.5	2		
10	16QAM	25	12	22.33	22.42	22.33	23.5	2		
10	16QAM	25	25	22.29	22.27	22.26	23.5	2		
10	16QAM	25	25	22.30	22.25	22.21	23.5	2		
10	16QAM	1	0	22.39	22.42	22.35	23.5	2		
10	16QAM	1	25	22.42	22.37	22.28	23.5	2		
10	16QAM	1	49	22.36	22.25	22.23	23.5	2		
10	16QAM	25	0	21.41	21.48	21.34	22.5	3		
10	16QAM	25	12	21.28	21.36	21.24	22.5	3		
10	16QAM	25	12	21.35	21.38	21.17	22.5	3		
10	16QAM	50	0	21.29	21.45	21.34	22.5	3		
10	16QAM	50	25	21.22	21.30	21.19	22.5	3		
10	256QAM	1	25	19.30	19.40	19.27	20.5	5		
10	256QAM	1	49	19.39	19.32	19.28	20.5	5		
10	256QAM	1	49	19.44	19.33	19.42	20.5	5		
10	256QAM	25	12	19.35	19.39	19.34	20.5	5		
10	256QAM	25	12	19.41	19.45	19.28	20.5	5		
10	256QAM	25	25	19.41	19.45	19.28	20.5	5		
10	256QAM	25	25	19.38	19.40	19.25	20.5	5		
Channel										
Frequency (MHz)										
8	QPSK	1	0	24.30	24.43	24.29	25.5	0		
8	QPSK	1	24	24.24	24.26	24.12	25.5	0		
8	QPSK	1	24	24.24	24.26	24.16	25.5	0		
8	QPSK	12	0	23.38	23.31	23.27	24.5	1		
8	QPSK	12	7	23.30	23.29	23.18	24.5	1		
8	QPSK	12	13	23.24	23.28	23.28	24.5	1		
8	QPSK	25	0	23.22	23.25	23.22	24.5	1		
8	QPSK	25	25	23.24	23.26	23.18	24.5	1		
8	16QAM	1	12	23.20	23.27	23.15	24.5	1		
8	16QAM	1	24	23.14	23.28	23.12	24.5	1		
8	16QAM	12	7	22.27	22.34	22.23	23.5	2		
8	16QAM	12	13	22.20	22.31	22.12	23.5	2		
8	16QAM	25	0	22.22	22.41	22.26	23.5	2		
8	16QAM	25	0	22.28	22.34	22.23	23.5	2		
8	16QAM	1	0	22.27	22.24	22.23	23.5	2		
8	16QAM	1	24	22.25	22.21	22.17	23.5	2		
8	16QAM	12	0	21.38	21.40	21.24	22.5	3		
8	16QAM	12	7	21.27	21.28	21.15	22.5	3		
8	16QAM	12	13	21.23	21.27	21.13	22.5	3		
8	16QAM	25	0	21.28	21.53	21.25	22.5	3		
8	256QAM	1	12	19.38	19.31	19.28	20.5	5		
8	256QAM	1	24	19.25	19.28	19.20	20.5	5		
8	256QAM	12	0	19.30	19.35	19.26	20.5	5		
8	256QAM	12	7	19.32	19.28	19.27	20.5	5		
8	256QAM	12	13	19.38	19.36	19.13	20.5	5		
8	256QAM	25	0	19.27	19.30	19.27	20.5	5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.24	24.24	24.10	25.5	0		
3	QPSK	1	14	24.21	24.27	24.18	25.5	0		
3	QPSK	1	14	24.21	24.27	24.12	25.5	0		
3	QPSK	8	4	23.25	23.35	23.21	24.5	1		
3	QPSK	8	7	23.27	23.30	23.14	24.5	1		
3	QPSK	1	0	23.26	23.28	23.25	24.5	1		
3	16QAM	1	8	23.32	23.34	23.34	24.5	1		
3	16QAM	1	8	23.35	23.27	23.25	24.5	1		
3	16QAM	8	4	22.25	22.30	22.18	23.5	2		
3	16QAM	8	4	22.24	22.30	22.12	23.5	2		
3	16QAM	15	0	22.21	22.40	22.24	23.5	2		
3	16QAM	15	0	22.27	22.30	22.25	23.5	2		
3	16QAM	1	8	22.28	22.27	22.16	23.5	2		
3	16QAM	1	14	22.29	22.18	22.11	23.5	2		
3	16QAM	8	0	21.39	21.44	21.32	22.5	3		
3	16QAM	8	4	21.22	21.24	21.10	22.5	3		
3	16QAM	8	7	21.26	21.31	21.10	22.5	3		
3	16QAM	15	0	21.16	21.52	21.28	22.5	3		
3	256QAM	1	8	19.22	19.29	19.18	20.5	5		
3	256QAM	1	14	19.37	19.22	19.19	20.5	5		
3	256QAM	8	0	19.30	19.35	19.26	20.5	5		
3	256QAM	8	4	19.28	19.27	19.27	20.5	5		
3	256QAM	8	7	19.34	19.41	19.14	20.5	5		
3	256QAM	15	0	19.24	19.24	19.21	20.5	5		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.32	24.33	24.13	25.5	0		
1.4	QPSK	1	3	24.24	24.31	24.13	25.5	0		
1.4	QPSK	1	3	24.28	24.24	24.12	25.5	0		
1.4	QPSK	3	0	24.22	24.24	24.22	25.5	0		
1.4	QPSK	3	1	24.17	24.26	24.07	25.5	0		
1.4	QPSK	3	3	24.25	24.15	24.06	25.5	0		
1.4	QPSK	1	0	23.28	23.32	23.32	24.5	1		
1.4	16QAM	1	0	23.28	23.31	23.38	24.5	1		
1.4	16QAM	1	3	23.30	23.30	23.19	24.5	1		
1.4	16QAM	1	3	23.24	23.25	23.19	24.5	1		
1.4	16QAM	3	0	23.15	23.29	23.21	24.5	1		
1.4	16QAM	3	1	23.14	23.28	23.28	24.5	1		
1.4	16QAM	6	0	22.17	22.40	22.21	23.5	2		
1.4	16QAM	1	0	22.25	22.38	22.28	23.5	2		
1.4	16QAM	1	3	22.30	22.24	22.19	23.5	2		
1.4	16QAM	1	6	22.31	22.17	22.15	23.5	2		
1.4	16QAM	3	0	22.06	22.29	22.09	23.5	2		
1.4	16QAM	3	0	22.18	22.32	22.15	23.5	2		
1.4	16QAM	3	3	22.23	22.12	22.15	23.5	2		
1.4	16QAM	6	0	21.19	21.52	21.27	22.5	3		
1.4	256QAM	1	0	19.20	19.29	19.24	20.5	5		
1.4	256QAM	3	0	19.20	19.29	19.24	20.5	5		
1.4	256QAM	3	1	19.24	19.36	19.25	20.5	5		
1.4	256QAM	3	0	19.26	19.41	19.14	20.5	5		
1.4	256QAM	15	0	19.21	19.15	19.12	20.5	5		

Band 13 Ant 1 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.49	24.49	24.38	25.5	0		
10	QPSK	1	25	24.38	24.38	24.28	25.5	0		
10	QPSK	1	49	24.37	24.37	24.27	25.5	0		
10	QPSK	25	0	23.46	23.46	23.36	24.5	1		
10	QPSK	25	12	22.42	22.42	22.32	24.5	1		
10	QPSK	25	25	23.34	23.35	23.27	24.5	1		
10	QPSK	50	0	23.41	23.41	23.31	24.5	1		
10	QPSK	50	25	23.34	23.34	23.24	24.5	1		
10	16QAM	1	25	23.42	23.42	23.32	24.5	1		
10	16QAM	1	49	23.32	23.32	23.22	24.5	1		
10	16QAM	1	49	23.40	23.40	23.30	24.5	1		
10	16QAM	25	12	22.40	22.40	22.30	23.5	2		
10	16QAM	25	12	22.40	22.40	22.30				



Band 66 Ant 1 DSI1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up limit (dB)	MPE (dB)		
Channel										
				1750	1745	1770				
20	QPSK	1	0	23.83	23.94	23.93			25	0
20	QPSK	1	49	23.89	23.88	23.80				
20	QPSK	1	99	23.73	23.88	23.78				
20	QPSK	50	0	22.83	22.98	22.87			24	1
20	QPSK	50	-24	22.89	22.86	22.82				
20	QPSK	50	50	22.89	22.84	22.77				
20	QPSK	100	0	22.84	22.89	22.84				
20	HQAM	1	0	22.89	22.90	22.88			24	1
20	HQAM	1	49	22.77	22.79	22.78				
20	HQAM	1	99	22.72	22.80	22.75				
20	HQAM	50	0	21.79	21.93	21.88			23	2
20	HQAM	50	24	21.90	21.77	21.75				
20	HQAM	50	50	21.72	21.87	21.78				
20	HQAM	100	0	21.88	21.85	21.83				
20	HQAM	1	0	21.85	21.94	21.86			23	2
20	HQAM	1	49	21.80	21.88	21.75				
20	HQAM	1	99	21.80	21.83	21.83				
20	HQAM	50	0	20.88	20.98	20.92			22	3
20	HQAM	50	24	20.96	20.82	20.85				
20	HQAM	50	50	20.76	20.82	20.85				
20	HQAM	100	0	20.89	20.89	20.95				
20	SSQAM	1	0	18.84	18.82	18.88			20	5
20	SSQAM	1	49	18.85	18.88	18.83				
20	SSQAM	1	99	18.77	18.81	18.79				
20	SSQAM	50	0	18.89	18.89	18.85				
20	SSQAM	50	-24	18.87	18.90	18.89			20	5
20	SSQAM	50	50	18.83	18.95	18.72				
20	SSQAM	100	0	18.77	18.74	18.85				
Channel										
				15247	15232	15267				
Channel										
				1717.5	1745	1772.5				
15	QPSK	1	0	23.78	23.82	23.81			25	0
15	QPSK	1	37	23.77	23.84	23.72				
15	QPSK	1	74	23.62	23.74	23.67				
15	QPSK	96	0	22.80	22.80	22.80			24	1
15	QPSK	96	20	22.83	22.83	22.78				
15	QPSK	96	39	22.60	22.79	22.66				
15	QPSK	75	0	22.76	22.84	22.85				
15	HQAM	1	0	22.78	22.84	22.85			24	1
15	HQAM	1	37	22.68	22.67	22.78				
15	HQAM	1	74	22.64	22.66	22.65				
15	HQAM	96	0	21.75	21.91	21.81			23	2
15	HQAM	96	20	21.79	21.72	21.70				
15	HQAM	96	39	21.64	21.85	21.72				
15	HQAM	75	0	21.88	21.72	21.69				
15	HQAM	1	0	21.71	21.87	21.89			23	2
15	HQAM	1	37	21.78	21.77	21.67				
15	HQAM	1	74	21.74	21.81	21.69				
15	HQAM	96	0	20.77	20.91	20.89			22	3
15	HQAM	96	20	20.77	20.71	20.81				
15	HQAM	96	39	20.72	20.80	20.81				
15	HQAM	75	0	20.81	20.78	20.85				
15	SSQAM	1	0	18.81	18.72	18.85			20	5
15	SSQAM	1	37	18.77	18.78	18.78				
15	SSQAM	1	74	18.64	18.79	18.67				
15	SSQAM	96	0	18.82	18.72	18.83				
15	SSQAM	96	20	18.85	18.88	18.78			20	5
15	SSQAM	96	39	18.78	18.91	18.64				
15	SSQAM	75	0	18.66	18.62	18.77				
Channel										
				15292	15292	15292				
Channel										
				1715	1745	1775				
10	QPSK	1	0	23.72	23.87	23.83			25	0
10	QPSK	1	25	23.79	23.75	23.68				
10	QPSK	1	49	23.88	23.77	23.73				
10	QPSK	25	0	22.78	22.94	22.78			24	1
10	QPSK	25	12	22.77	22.77	22.75				
10	QPSK	25	25	22.66	22.77	22.64				
10	QPSK	50	0	22.70	22.86	22.85				
10	HQAM	1	0	22.89	22.83	22.85			24	1
10	HQAM	1	25	22.73	22.74	22.64				
10	HQAM	1	49	22.88	22.72	22.66				
10	HQAM	25	0	21.70	21.83	21.77			23	2
10	HQAM	25	12	21.80	21.69	21.73				
10	HQAM	25	25	21.87	21.74	21.75				
10	HQAM	50	0	21.84	21.80	21.80				
10	HQAM	1	0	21.78	21.88	21.74			23	2
10	HQAM	1	25	21.66	21.80	21.68				
10	HQAM	1	49	21.74	21.76	21.62				
10	HQAM	25	0	20.75	20.95	20.88			22	3
10	HQAM	12	0	20.72	20.78	20.75				
10	HQAM	25	25	20.73	20.79	20.81				
10	HQAM	50	0	20.75	20.79	20.84				
10	SSQAM	1	0	18.79	18.78	18.65			20	5
10	SSQAM	1	25	18.71	18.73	18.71				
10	SSQAM	1	49	18.63	18.88	18.71				
10	SSQAM	25	0	18.83	18.77	18.87				
10	SSQAM	25	12	18.79	18.81	18.78			20	5
10	SSQAM	25	25	18.71	18.91	18.68				
10	SSQAM	50	0	18.75	18.66	18.80				
Channel										
				15197	15232	15267				
Channel										
				1712.5	1745	1772.5				
5	QPSK	1	0	23.73	23.93	23.80			25	0
5	QPSK	1	12	23.81	23.78	23.75				
5	QPSK	1	24	23.69	23.84	23.65				
5	QPSK	13	0	22.77	22.90	22.80			24	1
5	QPSK	12	7	22.81	22.76	22.73				
5	QPSK	12	13	22.68	22.82	22.72				
5	QPSK	25	0	22.71	22.80	22.87				
5	HQAM	1	0	22.87	22.78	22.78			24	1
5	HQAM	1	12	22.64	22.71	22.72				
5	HQAM	1	24	22.65	22.73	22.62				
5	HQAM	12	0	21.87	21.88	21.78			23	2
5	HQAM	12	7	21.84	21.74	21.71				
5	HQAM	12	13	21.83	21.81	21.74				
5	HQAM	25	0	21.93	21.72	21.88				
5	HQAM	1	0	21.78	21.90	21.81			23	2
5	HQAM	1	12	21.75	21.80	21.65				
5	HQAM	1	24	21.70	21.70	21.73				
5	HQAM	12	0	20.84	20.89	20.80			22	3
5	HQAM	12	7	20.84	20.73	20.82				
5	HQAM	12	13	20.86	20.80	20.77				
5	HQAM	25	0	20.85	20.89	20.83				
5	SSQAM	1	0	18.72	18.75	18.84			20	5
5	SSQAM	1	12	18.72	18.81	18.70				
5	SSQAM	1	24	18.73	18.89	18.74				
5	SSQAM	12	0	18.91	18.83	18.91				
5	SSQAM	12	7	18.79	18.80	18.85			20	5
5	SSQAM	12	13	18.77	18.92	18.85				
5	SSQAM	25	0	18.72	18.71	18.80				
Channel										
				15167	15232	15267				
Channel										
				1712.5	1745	1772.5				
3	QPSK	1	0	23.73	23.93	23.80			25	0
3	QPSK	1	8	23.80	23.80	23.69				
3	QPSK	1	14	23.62	23.79	23.76				
3	QPSK	8	0	22.74	22.80	22.75			24	1
3	QPSK	8	4	22.80	22.83	22.70				
3	QPSK	8	7	22.61	22.80	22.64				
3	QPSK	15	0	22.78	22.81	22.68				
3	HQAM	1	0	22.75	22.83	22.79			24	1
3	HQAM	1	8	22.69	22.73	22.66				
3	HQAM	1	14	22.69	22.74	22.71			</	

GSM850 Ant 4 DSI1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	833.4	842.6		824.2	833.4	842.6	
GSM 1 Tx slot	32.40	32.46	32.45	33.50	23.40	23.46	23.45	24.50
GPRS 1 Tx slot	32.40	32.41	32.38	33.50	23.40	23.41	23.38	24.50
GPRS 2 Tx slots	29.39	29.41	29.35	30.50	23.39	23.41	23.35	24.50
GPRS 3 Tx slots	27.47	27.52	27.43	28.70	23.21	23.26	23.17	24.44
GPRS 4 Tx slots	26.19	26.26	26.16	27.50	23.19	23.26	23.16	24.50
EDGE 1 Tx slot	26.86	26.93	26.89	28.00	17.86	17.93	17.89	19.00
EDGE 2 Tx slots	23.82	23.99	23.90	25.00	17.82	17.96	17.90	19.00
EDGE 3 Tx slots	22.08	22.11	22.07	23.20	17.82	17.85	17.81	18.94
EDGE 4 Tx slots	20.89	20.93	20.84	22.00	17.89	17.93	17.84	19.00

GSM1900 Ant 4 DSI1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	24.46	24.59	24.56	25.50	15.46	15.59	15.56	16.50
GPRS 1 Tx slot	24.34	24.50	24.47	25.50	15.34	15.50	15.47	16.50
GPRS 2 Tx slots	21.61	21.60	21.53	22.50	15.61	15.60	15.53	16.50
GPRS 3 Tx slots	19.49	19.57	19.50	20.70	15.23	15.31	15.24	16.44
GPRS 4 Tx slots	18.33	18.37	18.32	19.50	15.33	15.37	15.32	16.50
EDGE 1 Tx slot	23.33	23.42	23.33	24.50	14.33	14.42	14.33	15.50
EDGE 2 Tx slots	20.33	20.37	20.27	21.50	14.33	14.37	14.27	15.50
EDGE 3 Tx slots	18.55	18.55	18.52	19.70	14.29	14.29	14.26	15.44
EDGE 4 Tx slots	17.33	17.35	17.40	18.50	14.33	14.35	14.40	15.50

Band	WCDMA II Ant 4 DSI1			Tune-up Limit (dBm)	WCDMA IV Ant 4 DSI1			Tune-up Limit (dBm)	WCDMA V Ant 4 DSI1			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1860	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	15.49	15.58	15.50	16.50	14.64	14.75	14.67	15.50	22.78	22.88	22.78	24.00
3GPP Rel 99	AMR 12.2Kbps	15.55	15.65	15.56	16.50	14.77	14.80	14.71	15.50	22.90	22.97	22.86	24.00
3GPP Rel 6	HSDPA Subtest-1	14.61	14.61	14.60	15.50	13.72	13.76	13.75	14.50	21.88	21.93	22.00	23.00
3GPP Rel 6	HSDPA Subtest-2	14.55	14.60	14.58	15.50	13.82	13.75	13.67	14.50	21.91	21.98	21.95	23.00
3GPP Rel 6	HSDPA Subtest-3	14.09	14.17	14.12	15.00	13.31	13.27	13.27	14.00	21.44	21.43	21.45	22.50
3GPP Rel 6	HSDPA Subtest-4	14.02	14.20	14.13	15.00	13.25	13.33	13.25	14.00	21.43	21.45	21.49	22.50
3GPP Rel 8	DCHSDPA Subtest-1	14.50	14.60	14.57	15.50	13.73	13.85	13.66	14.50	21.94	22.02	22.01	23.00
3GPP Rel 8	DCHSDPA Subtest-2	14.51	14.62	14.52	15.50	13.73	13.82	13.72	14.50	21.92	21.97	21.99	23.00
3GPP Rel 8	DCHSDPA Subtest-3	14.02	14.15	14.06	15.00	13.33	13.34	13.19	14.00	21.44	21.45	21.61	22.50
3GPP Rel 8	DCHSDPA Subtest-4	14.06	14.10	14.03	15.00	13.27	13.31	13.20	14.00	21.43	21.52	21.50	22.50
3GPP Rel 6	HSUPA Subtest-1	14.61	14.65	14.61	15.50	13.80	13.77	13.75	14.50	21.85	21.94	21.98	23.00
3GPP Rel 6	HSUPA Subtest-2	12.61	12.67	12.53	13.50	11.81	11.81	11.67	12.50	19.88	19.95	19.93	21.00
3GPP Rel 6	HSUPA Subtest-3	13.58	13.66	13.62	14.50	12.81	12.74	12.66	13.50	20.94	20.93	20.92	22.00
3GPP Rel 6	HSUPA Subtest-4	12.51	12.69	12.64	13.50	11.74	11.81	11.66	12.50	19.88	20.01	19.96	21.00
3GPP Rel 6	HSUPA Subtest-5	14.61	14.66	14.63	15.50	13.77	13.78	13.75	14.50	21.86	22.02	21.98	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.00	12.14	12.13	13.00	11.28	11.27	11.20	12.00	19.38	19.51	19.42	20.50

Band 7 Ant 3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.20	22.29	22.21	23	0	
20	QPSK	1	49	22.14	22.18	22.15			
20	QPSK	1	99	22.14	22.21	22.16			
20	QPSK	50	0	22.13	22.25	22.11	23	0	
20	QPSK	50	24	22.13	22.23	22.19			
20	QPSK	50	50	22.15	22.18	22.16			
20	QPSK	100	0	22.11	22.19	22.08	23	0	
20	16QAM	1	0	22.05	22.17	22.08			
20	16QAM	1	49	22.09	22.13	22.08			
20	16QAM	1	99	22.12	22.13	22.06	22.5	0.5	
20	16QAM	50	0	21.63	21.78	21.63			
20	16QAM	50	24	21.67	21.77	21.70			
20	16QAM	50	50	21.68	21.64	21.66	22.5	0.5	
20	16QAM	100	0	21.55	21.71	21.55			
20	64QAM	1	0	21.55	21.67	21.60			
20	64QAM	1	49	21.53	21.62	21.57	21.5	1.5	
20	64QAM	1	99	21.62	21.57	21.51			
20	64QAM	50	0	20.58	20.76	20.64			
20	64QAM	50	24	20.62	20.72	20.74	21.5	1.5	
20	64QAM	50	50	20.60	20.68	20.64			
20	64QAM	100	0	20.57	20.65	20.53			
20	256QAM	1	0	18.67	18.76	18.66	19.5	3.5	
20	256QAM	1	49	18.61	18.78	18.69			
20	256QAM	1	99	18.63	18.66	18.63			
20	256QAM	50	0	18.62	18.67	18.61	19.5	3.5	
20	256QAM	50	24	18.56	18.64	18.60			
20	256QAM	50	50	18.68	18.62	18.62			
20	256QAM	100	0	18.63	18.69	18.55			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.13	22.20	22.15	23	0	
15	QPSK	1	37	22.03	22.08	22.05			
15	QPSK	1	74	22.06	22.16	22.10			
15	QPSK	36	0	22.08	22.15	22.01	23	0	
15	QPSK	36	20	22.06	22.20	22.07			
15	QPSK	36	39	22.03	22.11	22.13			
15	QPSK	75	0	22.08	22.16	21.96	23	0	
15	16QAM	1	0	21.95	22.07	22.05			
15	16QAM	1	37	22.04	22.07	21.97			
15	16QAM	1	74	22.09	22.06	21.97	22.5	0.5	
15	16QAM	36	0	21.57	21.70	21.53			
15	16QAM	36	20	21.56	21.70	21.58			
15	16QAM	36	39	21.63	21.55	21.60	22.5	0.5	
15	16QAM	75	0	21.44	21.68	21.49			
15	64QAM	1	0	21.44	21.64	21.48			
15	64QAM	1	37	21.42	21.56	21.48	21.5	1.5	
15	64QAM	1	74	21.48	21.52	21.45			
15	64QAM	36	0	20.44	20.69	20.55			
15	64QAM	36	20	20.49	20.64	20.68	19.5	3.5	
15	64QAM	36	39	20.49	20.56	20.61			
15	64QAM	75	0	20.48	20.60	20.43			
15	256QAM	1	0	18.56	18.71	18.54	19.5	3.5	
15	256QAM	1	37	18.52	18.69	18.58			
15	256QAM	1	74	18.54	18.55	18.57			
15	256QAM	36	0	18.56	18.57	18.52	19.5	3.5	
15	256QAM	36	20	18.54	18.57	18.55			
15	256QAM	36	39	18.52	18.48	18.56			
15	256QAM	75	0	18.53	18.66	18.48			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.13	22.19	22.17	23	0	
10	QPSK	1	25	22.12	22.10	22.05			
10	QPSK	1	49	22.08	22.15	22.02			
10	QPSK	25	0	22.01	22.16	22.08	23	0	
10	QPSK	25	12	22.00	22.15	22.06			
10	QPSK	25	25	22.01	22.15	22.08			
10	QPSK	50	0	22.07	22.13	22.04	23	0	
10	16QAM	1	0	22.00	22.08	21.96			
10	16QAM	1	25	22.01	22.00	21.98			
10	16QAM	1	49	22.01	21.99	21.95	22.5	0.5	
10	16QAM	25	0	21.54	21.68	21.57			
10	16QAM	25	12	21.56	21.69	21.65			
10	16QAM	25	25	21.56	21.51	21.58	22.5	0.5	
10	16QAM	50	0	21.48	21.63	21.45			
10	64QAM	1	0	21.44	21.57	21.58			
10	64QAM	1	25	21.40	21.49	21.43	21.5	1.5	
10	64QAM	1	49	21.48	21.54	21.37			
10	64QAM	25	0	20.54	20.67	20.56			
10	64QAM	25	12	20.53	20.66	20.69	19.5	3.5	
10	64QAM	25	25	20.47	20.57	20.52			
10	64QAM	50	0	20.53	20.61	20.43			
10	256QAM	1	0	18.58	18.69	18.60	19.5	3.5	
10	256QAM	1	25	18.58	18.71	18.60			
10	256QAM	1	49	18.56	18.63	18.57			
10	256QAM	25	0	18.48	18.61	18.51	19.5	3.5	
10	256QAM	25	12	18.53	18.54	18.49			
10	256QAM	25	25	18.48	18.51	18.52			
10	256QAM	50	0	18.59	18.61	18.48			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.06	22.18	22.13	23	0	
5	QPSK	1	12	22.00	22.13	22.02			
5	QPSK	1	24	22.04	22.12	22.11			
5	QPSK	12	0	22.09	22.14	22.00	23	0	
5	QPSK	12	7	22.09	22.20	22.08			
5	QPSK	12	13	22.05	22.05	22.03			
5	QPSK	25	0	22.05	22.11	21.95	23	0	
5	16QAM	1	0	21.92	22.07	22.00			
5	16QAM	1	12	21.97	22.05	21.95			
5	16QAM	1	24	22.08	22.07	21.97	22.5	0.5	
5	16QAM	12	0	21.58	21.73	21.58			
5	16QAM	12	7	21.60	21.69	21.59			
5	16QAM	12	13	21.57	21.52	21.62	22.5	0.5	
5	16QAM	25	0	21.50	21.66	21.47			
5	64QAM	1	0	21.43	21.63	21.57			
5	64QAM	1	12	21.44	21.53	21.53	21.5	1.5	
5	64QAM	1	24	21.53	21.54	21.43			
5	64QAM	12	0	20.46	20.63	20.54			
5	64QAM	12	7	20.54	20.64	20.70	19.5	3.5	
5	64QAM	12	13	20.49	20.54	20.59			
5	64QAM	25	0	20.53	20.51	20.50			
5	256QAM	1	0	18.58	18.70	18.63	19.5	3.5	
5	256QAM	1	12	18.48	18.75	18.62			
5	256QAM	1	24	18.59	18.54	18.56			
5	256QAM	12	0	18.54	18.55	18.49	19.5	3.5	
5	256QAM	12	7	18.46	18.54	18.50			
5	256QAM	12	13	18.53	18.52	18.57			
5	256QAM	25	0	18.55	18.66	18.42			



Band 7 Ant 4 DS1H										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.83	16.89	16.80				
20	QPSK	1	49	16.83	16.92	16.78	18.5	0		
20	QPSK	50	0	16.88	16.97	16.80				
20	QPSK	50	24	16.81	16.93	16.83	18.5	0		
20	QPSK	50	50	16.83	16.92	16.80				
20	QPSK	100	0	16.82	16.91	16.84				
20	QPSK	100	0	16.89	16.88	16.80				
20	HQAM	1	49	16.76	16.87	16.81	18.5	0		
20	HQAM	1	99	16.80	16.80	16.89				
20	HQAM	50	0	16.77	16.92	16.78	18.5	0		
20	HQAM	50	24	16.76	16.85	16.72				
20	HQAM	50	50	16.74	16.80	16.74				
20	HQAM	100	0	16.71	16.83	16.79				
20	HQAM	1	0	16.81	16.89	16.76				
20	HQAM	1	49	16.70	16.77	16.76	18.5	0		
20	HQAM	50	0	16.77	16.85	16.82				
20	HQAM	50	24	16.75	16.82	16.80	18.5	0		
20	HQAM	50	50	16.73	16.85	16.77				
20	HQAM	100	0	16.77	16.78	16.80				
20	ZSSBAM	1	0	16.79	16.85	16.84				
20	ZSSBAM	1	49	16.71	16.84	16.74	18.5	0		
20	ZSSBAM	1	99	16.72	16.86	16.68				
20	ZSSBAM	50	0	16.72	16.80	16.74				
20	ZSSBAM	50	24	16.73	16.80	16.74	18.5	0		
20	ZSSBAM	50	50	16.71	16.88	16.68				
20	ZSSBAM	100	0	16.65	16.87	16.80				
Channel										
Frequency (MHz)										
16	QPSK	1	0	16.91	16.96	16.86				
16	QPSK	1	37	16.72	16.83	16.81	18.5	0		
16	QPSK	1	74	16.77	16.87	16.66				
16	QPSK	50	0	16.80	16.88	16.81				
16	QPSK	50	24	16.82	16.80	16.81	18.5	0		
16	QPSK	50	50	16.79	16.86	16.67				
16	HQAM	1	0	16.87	16.78	16.77				
16	HQAM	1	37	16.61	16.78	16.76	18.5	0		
16	HQAM	50	0	16.71	16.80	16.80				
16	HQAM	50	24	16.74	16.88	16.70				
16	HQAM	50	50	16.64	16.82	16.63	18.5	0		
16	HQAM	100	0	16.68	16.71	16.71				
16	HQAM	1	0	16.77	16.80	16.64				
16	HQAM	1	37	16.69	16.75	16.69	18.5	0		
16	HQAM	50	0	16.65	16.72	16.62				
16	HQAM	50	24	16.65	16.75	16.65	18.5	0		
16	HQAM	50	50	16.74	16.69	16.78				
16	HQAM	100	0	16.67	16.69	16.64				
16	ZSSBAM	1	37	16.64	16.70	16.70	18.5	0		
16	ZSSBAM	1	74	16.65	16.76	16.61				
16	ZSSBAM	50	0	16.71	16.80	16.81				
16	ZSSBAM	50	24	16.67	16.75	16.69	18.5	0		
16	ZSSBAM	50	50	16.67	16.73	16.63				
16	ZSSBAM	100	0	16.66	16.85	16.65				
16	ZSSBAM	100	0	16.68	16.67	16.61				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.79	16.83	16.83				
5	QPSK	1	12	16.69	16.80	16.75	18.5	0		
5	QPSK	1	24	16.79	16.79	16.69				
5	QPSK	12	0	16.77	16.86	16.83				
5	QPSK	12	7	16.76	16.83	16.72	18.5	0		
5	QPSK	12	13	16.77	16.89	16.69				
5	HQAM	1	0	16.84	16.84	16.84				
5	HQAM	1	12	16.61	16.80	16.71	18.5	0		
5	HQAM	12	0	16.85	16.74	16.67				
5	HQAM	12	7	16.70	16.83	16.61	18.5	0		
5	HQAM	12	13	16.66	16.84	16.64				
5	HQAM	25	0	16.67	16.70	16.73				
5	HQAM	1	0	16.73	16.83	16.70				
5	HQAM	1	12	16.60	16.73	16.72	18.5	0		
5	HQAM	1	24	16.66	16.78	16.61				
5	HQAM	12	0	16.72	16.82	16.76				
5	HQAM	12	7	16.64	16.75	16.76	18.5	0		
5	HQAM	12	13	16.67	16.78	16.72				
5	HQAM	25	0	16.70	16.87	16.71				
5	ZSSBAM	1	0	16.66	16.81	16.61				
5	ZSSBAM	1	12	16.59	16.79	16.67	18.5	0		
5	ZSSBAM	1	24	16.61	16.74	16.60				
5	ZSSBAM	12	0	16.70	16.80	16.61				
5	ZSSBAM	12	7	16.65	16.70	16.60	18.5	0		
5	ZSSBAM	12	13	16.69	16.79	16.50				
5	ZSSBAM	25	0	16.67	16.69	16.76				

Band 12 Ant 4 DS1H										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.41	24.50	24.37				
10	QPSK	1	25	24.32	24.50	24.28	20.5	0		
10	QPSK	1	49	24.33	24.53	24.31				
10	QPSK	25	0	23.43	23.53	23.34				
10	QPSK	25	12	23.62	23.49	23.32	24.5	1		
10	QPSK	25	25	23.32	23.48	23.24				
10	QPSK	50	0	23.35	23.51	23.29				
10	QPSK	50	0	23.43	23.51	23.33				
10	HQAM	1	25	23.29	23.54	23.30	24.5	1		
10	HQAM	1	49	23.28	23.51	23.27				
10	HQAM	25	0	22.45	22.55	22.32				
10	HQAM	25	12	22.42	22.45	22.38	20.5	2		
10	HQAM	25	25	22.31	22.47	22.26				
10	HQAM	50	0	22.32	22.26	22.34				
10	HQAM	1	0	22.43	22.37	22.43	20.5	2		
10	HQAM	1	25	22.36	22.39	22.27				
10	HQAM	1	49	22.38	22.32	22.36	22.5	3		
10	HQAM	25	0	21.41	21.47	21.53				
10	HQAM	25	25	21.33	21.45	21.19	22.5	3		
10	HQAM	50	0	21.36	21.37	21.32				
10	ZSSBAM	1	0	19.45	19.39	19.39				
10	ZSSBAM	1	25	19.32	19.35	19.29	20.5	5		
10	ZSSBAM	1	49	19.33	19.34	19.27				
10	ZSSBAM	25	0	19.31	19.43	19.37	20.5	5		
10	ZSSBAM	25	25	19.31	19.46	19.19				
10	ZSSBAM	50	0	19.26	19.40	19.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.36	24.54	24.27				
5	QPSK	1	12	24.27	24.42	24.24	20.5	0		
5	QPSK	1	24	24.27	24.42	24.24				
5	QPSK	12	0	23.37	23.31	23.29				
5	QPSK	12	7	23.33	23.32	23.20	24.5	1		
5	QPSK	12	13	23.25	23.31	23.23				
5	HQAM	1	0	23.49	23.49	23.46				
5	HQAM	1	12	23.42	23.41	23.42	24.5	1		
5	HQAM	1	25	23.39	23.47	23.24				
5	HQAM	12	0	23.45	23.39	23.28				
5	HQAM	12	7	22.37	22.47	22.35	20.5	2		
5	HQAM	12	13	22.32	22.47	22.28				
5	HQAM	25	0	22.23	22.46	22.30				
5	HQAM	1	0	22.36	22.45	22.37	20.5	2		
5	HQAM	1	12	22.31	22.47	22.21				
5	HQAM	1	24	22.27	22.47	22.21	20.5	2		
5	HQAM	12	0	21.31	21.44	21.35				
5	HQAM	12	7	21.34	21.39	21.28	22.5	3		
5	HQAM	12	13	21.24	21.43	21.10				
5	HQAM	25	0	21.33	21.46	21.31				
5	ZSSBAM	1	0	19.45	19.39	19.39				
5	ZSSBAM	1	12	19.32	19.35	19.29	20.5	5		
5	ZSSBAM									



Band 26 Ant 4 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.53	22.61	22.61				
15	QPSK	1	37	22.88	22.94	22.78				
15	QPSK	1	74	22.81	22.93	22.89	24	0		
15	QPSK	36	0	22.81	22.95	22.79				
15	QPSK	36	20	22.91	22.99	22.87				
15	QPSK	36	39	22.85	22.93	22.83	24	0		
15	QPSK	75	0	22.86	22.93	22.77				
15	HQAM	1	0	22.91	22.99	22.87				
15	HQAM	1	37	22.81	22.87	22.76	24	0		
15	HQAM	1	74	22.79	22.85	22.80				
15	HQAM	36	0	22.92	22.97	22.88				
15	HQAM	36	20	22.40	22.40	22.32	23.5	0.5		
15	HQAM	36	39	22.86	22.49	22.88				
15	HQAM	75	0	22.41	22.41	22.32				
15	BQAM	1	0	22.41	22.40	22.35				
15	BQAM	1	37	22.29	22.36	22.25	23.5	0.5		
15	BQAM	1	74	22.29	22.36	22.35				
15	BQAM	36	0	21.34	21.42	21.25				
15	BQAM	36	20	21.42	21.42	21.38	22.5	1.5		
15	BQAM	36	39	21.30	21.40	21.38				
15	BQAM	75	0	21.40	21.46	21.30				
15	BQAM	1	0	19.26	19.44	19.38				
15	BQAM	1	37	19.37	19.37	19.42	20.5	3.5		
15	BQAM	1	74	19.37	19.39	19.35				
15	BQAM	36	0	19.26	19.39	19.32				
15	BQAM	36	20	19.39	19.42	19.32	20.5	3.5		
15	BQAM	36	39	19.30	19.34	19.20				
15	BQAM	75	0	19.26	19.35	19.27				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.80	22.88	22.79				
10	QPSK	1	25	22.81	22.91	22.71				
10	QPSK	1	49	22.78	22.88	22.84	24	0		
10	QPSK	25	0	22.76	22.82	22.71				
10	QPSK	25	12	22.80	22.79	22.77				
10	QPSK	25	25	22.77	22.88	22.78	24	0		
10	HQAM	1	0	22.86	22.91	22.76				
10	HQAM	1	25	22.78	22.79	22.80	24	0		
10	HQAM	1	49	22.80	22.91	22.82				
10	HQAM	25	0	22.27	22.38	22.23				
10	HQAM	25	12	22.35	22.36	22.19	23.5	0.5		
10	HQAM	25	25	22.28	22.29	22.28				
10	HQAM	50	0	22.28	22.33	22.16				
10	BQAM	1	0	22.28	22.29	22.28	23.5	0.5		
10	BQAM	1	25	22.28	22.33	22.28				
10	BQAM	1	49	22.23	22.34	22.25				
10	BQAM	25	0	21.26	21.29	21.12				
10	BQAM	25	12	21.34	21.39	21.28	22.5	1.5		
10	BQAM	25	25	21.24	21.25	21.22				
10	BQAM	50	0	21.34	21.41	21.18				
10	BQAM	1	0	19.24	19.32	19.28				
10	BQAM	1	25	19.33	19.27	19.37	20.5	3.5		
10	BQAM	1	49	19.27	19.35	19.28				
10	BQAM	25	0	19.26	19.35	19.23				
10	BQAM	25	12	19.33	19.35	19.21	20.5	3.5		
10	BQAM	25	25	19.22	19.27	19.13				
10	BQAM	50	0	19.16	19.23	19.15				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.78	22.87	22.81				
5	QPSK	1	12	22.78	22.87	22.89				
5	QPSK	1	24	22.72	22.89	22.86	24	0		
5	QPSK	12	0	22.86	22.97	22.83				
5	QPSK	12	7	22.82	22.80	22.83				
5	QPSK	12	13	22.81	22.81	22.72	24	0		
5	HQAM	1	0	22.86	22.91	22.84				
5	HQAM	1	12	22.77	22.78	22.84	24	0		
5	HQAM	1	24	22.76	22.78	22.77				
5	HQAM	12	0	22.26	22.44	22.19				
5	HQAM	12	7	22.38	22.30	22.22	23.5	0.5		
5	HQAM	12	13	22.36	22.36	22.28				
5	HQAM	25	0	22.27	22.29	22.15				
5	BQAM	1	0	22.31	22.37	22.23				
5	BQAM	1	12	22.17	22.33	22.13	23.5	0.5		
5	BQAM	1	24	22.22	22.30	22.25				
5	BQAM	12	0	21.26	21.38	21.18				
5	BQAM	12	7	21.35	21.30	21.25	22.5	1.5		
5	BQAM	12	13	21.17	21.39	21.33				
5	BQAM	25	0	21.34	21.43	21.27				
5	BQAM	25	12	19.17	19.33	19.17				
5	BQAM	25	13	19.25	19.34	19.29	20.5	3.5		
5	BQAM	25	25	19.24	19.34	19.30				
5	BQAM	50	0	19.28	19.33	19.24				
5	BQAM	50	12	19.33	19.33	19.24	20.5	3.5		
5	BQAM	50	13	19.22	19.32	19.10				
5	BQAM	50	25	19.24	19.22	19.13				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.87	22.96	22.83				
3	QPSK	1	8	22.82	22.85	22.71				
3	QPSK	1	14	22.75	22.91	22.89	24	0		
3	QPSK	8	0	22.71	22.87	22.73				
3	QPSK	8	4	22.81	22.85	22.76				
3	QPSK	8	7	22.74	22.80	22.69	24	0		
3	HQAM	1	0	22.84	22.94	22.86				
3	HQAM	1	8	22.87	22.85	22.75	24	0		
3	HQAM	1	14	22.77	22.82	22.74				
3	HQAM	8	0	22.23	22.38	22.24				
3	HQAM	8	4	22.29	22.33	22.27	23.5	0.5		
3	HQAM	8	7	22.24	22.32	22.17				
3	HQAM	15	0	22.29	22.42	22.15				
3	HQAM	1	0	22.29	22.31	22.31	23.5	0.5		
3	HQAM	1	8	22.21	22.29	22.16				
3	HQAM	1	14	22.25	22.30	22.29				
3	HQAM	8	0	21.29	21.39	21.12				
3	HQAM	8	4	21.35	21.39	21.23	22.5	1.5		
3	HQAM	8	7	21.24	21.37	21.31				
3	HQAM	15	0	21.36	21.40	21.18				
3	BQAM	1	0	19.21	19.40	19.28				
3	BQAM	1	8	19.26	19.32	19.29	20.5	3.5		
3	BQAM	1	14	19.23	19.39	19.29				
3	BQAM	8	0	19.23	19.36	19.39				
3	BQAM	8	4	19.25	19.31	19.23	20.5	3.5		
3	BQAM	8	7	19.17	19.29	19.07				
3	BQAM	15	0	19.20	19.27	19.15				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.59	22.53				
1.4	QPSK	1	3	22.86	22.89	22.76				
1.4	QPSK	1	5	22.75	22.87	22.75	24	0		
1.4	QPSK	3	0	22.78	22.82	22.85				
1.4	QPSK	3	1	22.84	22.78	22.76				
1.4	QPSK	3	3	22.81	22.83	22.72	24	0		
1.4	HQAM	1	0	22.81	22.80	22.71				
1.4	HQAM	1	3	22.72	22.83	22.86				
1.4	HQAM	1	5	22.86	22.79	22.77				
1.4	HQAM	3	0	22.26	22.43	22.20	24	0		
1.4	HQAM	3	1	22.32	22.33	22.19				
1.4	HQAM	3	3	22.25	22.41	22.19				
1.4	HQAM	6	0	22.38	22.42	22.18	23.5	0.5		
1.4	HQAM	1	0	22.38	22.27	22.22				
1.4	HQAM	1	3	22.26	22.29	22.14				
1.4	BQAM	1	0	22.19	22.27	22.28	23.5	0.5		
1.4	BQAM	1	3	22.30	22.29	22.22				
1.4	BQAM	1	5	22.13	22.26	22.01				
1.4	BQAM	3	0	22.13	22.24	22.20				
1.4										

Band 38 Ant 1 DSI1									
BW [MHz]	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	23.49	23.51	23.47	24.5	0	
20	QPSK	1	49	23.47	23.50	23.42			
20	QPSK	1	99	23.46	23.49	23.44			
20	QPSK	50	0	22.53	22.49	22.42	23.5	1	
20	QPSK	50	24	22.48	22.47	22.46			
20	QPSK	50	50	22.41	22.49	22.39			
20	QPSK	100	0	22.44	22.45	22.39	23.5	1	
20	16QAM	1	0	22.44	22.50	22.44			
20	16QAM	1	49	22.48	22.45	22.46			
20	16QAM	1	99	22.49	22.46	22.48	22.5	2	
20	16QAM	50	0	21.48	21.49	21.42			
20	16QAM	50	24	21.45	21.47	21.43			
20	16QAM	50	50	21.36	21.54	21.36	22.5	2	
20	16QAM	100	0	21.49	21.42	21.37			
20	64QAM	1	0	21.44	21.51	21.52			
20	64QAM	1	49	21.48	21.50	21.36	22.5	2	
20	64QAM	1	99	21.48	21.45	21.41			
20	64QAM	50	0	20.49	20.53	20.47			
20	64QAM	50	24	20.49	20.42	20.51	21.5	3	
20	64QAM	50	50	20.40	20.44	20.35			
20	64QAM	100	0	20.45	20.51	20.42			
20	256QAM	1	0	18.48	18.49	18.52	19.5	5	
20	256QAM	1	49	18.45	18.47	18.42			
20	256QAM	1	99	18.51	18.53	18.40			
20	256QAM	50	0	18.50	18.52	18.48	19.5	5	
20	256QAM	50	24	18.46	18.48	18.47			
20	256QAM	50	50	18.43	18.47	18.43			
20	256QAM	100	0	18.45	18.49	18.33			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.44	23.49	23.43	24.5	0	
15	QPSK	1	37	23.45	23.48	23.42			
15	QPSK	1	74	23.34	23.41	23.38			
15	QPSK	36	0	22.41	22.48	22.39	23.5	1	
15	QPSK	36	20	22.48	22.43	22.45			
15	QPSK	36	39	22.31	22.45	22.30			
15	QPSK	75	0	22.34	22.43	22.35	23.5	1	
15	16QAM	1	0	22.38	22.45	22.42			
15	16QAM	1	37	22.37	22.45	22.43			
15	16QAM	1	74	22.40	22.43	22.46	22.5	2	
15	16QAM	36	0	21.48	21.37	21.33			
15	16QAM	36	20	21.34	21.37	21.36			
15	16QAM	36	39	21.34	21.49	21.28	22.5	2	
15	16QAM	75	0	21.45	21.32	21.30			
15	64QAM	1	0	21.43	21.41	21.50			
15	64QAM	1	37	21.42	21.40	21.26	22.5	2	
15	64QAM	1	74	21.44	21.42	21.32			
15	64QAM	36	0	20.48	20.44	20.47			
15	64QAM	36	20	20.39	20.39	20.48	21.5	3	
15	64QAM	36	39	20.40	20.39	20.34			
15	64QAM	75	0	20.45	20.42	20.40			
15	256QAM	1	0	18.43	18.38	18.45	19.5	5	
15	256QAM	1	37	18.43	18.42	18.39			
15	256QAM	1	74	18.41	18.48	18.32			
15	256QAM	36	0	18.47	18.43	18.46	19.5	5	
15	256QAM	36	20	18.44	18.39	18.40			
15	256QAM	36	39	18.34	18.35	18.37			
15	256QAM	75	0	18.42	18.48	18.23			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.48	23.48	23.45	24.5	0	
10	QPSK	1	25	23.36	23.41	23.40			
10	QPSK	1	49	23.38	23.39	23.34			
10	QPSK	25	0	22.41	22.38	22.31	23.5	1	
10	QPSK	25	12	22.37	22.41	22.35			
10	QPSK	25	25	22.35	22.46	22.45			
10	QPSK	50	0	22.44	22.36	22.27	23.5	1	
10	16QAM	1	0	22.36	22.45	22.39			
10	16QAM	1	25	22.38	22.42	22.35			
10	16QAM	1	49	22.39	22.38	22.37	22.5	2	
10	16QAM	25	0	21.38	21.40	21.34			
10	16QAM	25	12	21.37	21.41	21.40			
10	16QAM	25	25	21.33	21.44	21.34	22.5	2	
10	16QAM	50	0	21.44	21.39	21.28			
10	64QAM	1	0	21.35	21.46	21.43			
10	64QAM	1	25	21.47	21.46	21.28	22.5	2	
10	64QAM	1	49	21.37	21.37	21.34			
10	64QAM	25	0	20.42	20.51	20.41			
10	64QAM	25	12	20.38	20.36	20.48	21.5	3	
10	64QAM	25	25	20.35	20.42	20.27			
10	64QAM	50	0	20.38	20.48	20.35			
10	256QAM	1	0	18.43	18.40	18.41	19.5	5	
10	256QAM	1	25	18.44	18.46	18.38			
10	256QAM	1	49	18.42	18.50	18.32			
10	256QAM	25	0	18.41	18.48	18.36	19.5	5	
10	256QAM	25	12	18.43	18.47	18.44			
10	256QAM	25	25	18.41	18.45	18.41			
10	256QAM	50	0	18.44	18.44	18.25			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.42	23.48	23.41	24.5	0	
5	QPSK	1	12	23.38	23.41	23.35			
5	QPSK	1	24	23.45	23.42	23.42			
5	QPSK	12	0	22.44	22.46	22.40	23.5	1	
5	QPSK	12	7	22.39	22.43	22.45			
5	QPSK	12	13	22.41	22.41	22.30			
5	QPSK	25	0	22.37	22.35	22.30	23.5	1	
5	16QAM	1	0	22.41	22.45	22.43			
5	16QAM	1	12	22.46	22.36	22.39			
5	16QAM	1	24	22.40	22.35	22.41	22.5	2	
5	16QAM	12	0	21.48	21.40	21.30			
5	16QAM	12	7	21.40	21.41	21.43			
5	16QAM	12	13	21.29	21.53	21.33	22.5	2	
5	16QAM	25	0	21.44	21.31	21.31			
5	64QAM	1	0	21.42	21.46	21.49			
5	64QAM	1	12	21.38	21.42	21.26	22.5	2	
5	64QAM	1	24	21.39	21.35	21.41			
5	64QAM	12	0	20.40	20.42	20.44			
5	64QAM	12	7	20.43	20.41	20.48	21.5	3	
5	64QAM	12	13	20.38	20.37	20.34			
5	64QAM	25	0	20.35	20.41	20.33			
5	256QAM	1	0	18.39	18.39	18.41	19.5	5	
5	256QAM	1	12	18.44	18.42	18.30			
5	256QAM	1	24	18.47	18.49	18.39			
5	256QAM	12	0	18.45	18.43	18.44	19.5	5	
5	256QAM	12	7	18.45	18.45	18.40			
5	256QAM	12	13	18.40	18.39	18.39			
5	256QAM	25	0	18.39	18.46	18.23			

Band 41 Ant 1 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.44	23.56	23.60	23.55	23.54	24.5	0
20	QPSK	1	49	23.42	23.47	23.56	23.46	23.53		
20	QPSK	1	99	23.40	23.46	23.54	23.47	23.49		
20	QPSK	50	0	22.40	22.43	22.54	22.42	22.47	23.5	1
20	QPSK	50	24	22.37	22.49	22.53	22.44	22.48		
20	QPSK	50	50	22.36	22.42	22.46	22.34	22.37		
20	QPSK	100	0	22.32	22.41	22.49	22.35	22.41	23.5	1
20	16QAM	1	0	22.49	22.57	22.59	22.56	22.57		
20	16QAM	1	49	22.44	22.41	22.51	22.49	22.55		
20	16QAM	1	99	22.44	22.49	22.59	22.48	22.48	22.5	2
20	16QAM	50	0	21.38	21.48	21.53	21.44	21.44		
20	16QAM	50	24	21.35	21.50	21.58	21.38	21.51		
20	16QAM	50	50	21.36	21.37	21.46	21.32	21.31	22.5	2
20	16QAM	100	0	21.28	21.39	21.53	21.39	21.42		
20	64QAM	1	0	21.43	21.53	21.58	21.51	21.51		
20	64QAM	1	49	21.45	21.44	21.55	21.40	21.49	22.5	2
20	64QAM	1	99	21.38	21.50	21.53	21.45	21.54		
20	64QAM	50	0	20.43	20.47	20.55	20.38	20.43		
20	64QAM	50	24	20.39	20.47	20.58	20.48	20.46	21.5	

Band 42 Part 27Q Ant 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.06	19.15	19.09	20	0	
20	QPSK	1	49	18.98	19.10	18.99			
20	QPSK	1	99	18.96	19.06	19.02			
20	QPSK	50	0	18.05	18.18	18.04	19	1	
20	QPSK	50	24	17.97	18.09	18.00			
20	QPSK	50	50	17.95	18.10	18.07			
20	QPSK	100	0	18.11	18.15	18.14	19	1	
20	16QAM	1	0	18.11	18.14	18.05			
20	16QAM	1	49	18.03	18.16	18.04	19	1	
20	16QAM	1	99	17.96	18.03	18.01			
20	16QAM	50	0	17.07	17.16	17.09	18	2	
20	16QAM	50	24	17.01	17.06	17.01			
20	16QAM	50	50	16.97	17.05	17.13			
20	16QAM	100	0	17.09	17.20	17.13	18	2	
20	64QAM	1	0	17.07	17.18	17.00			
20	64QAM	1	49	17.06	17.22	17.08	18	2	
20	64QAM	1	99	17.01	17.02	17.03			
20	64QAM	50	0	16.02	16.16	15.98	17	3	
20	64QAM	50	24	16.03	16.12	16.02			
20	64QAM	50	50	15.92	16.12	16.12			
20	64QAM	100	0	16.11	16.16	16.15	15	5	
20	256QAM	1	0	14.07	14.14	14.04			
20	256QAM	1	49	13.92	14.08	13.99	15	5	
20	256QAM	1	99	13.93	14.12	14.01			
20	256QAM	50	0	14.06	14.17	14.16	15	5	
20	256QAM	50	24	14.06	14.18	14.03			
20	256QAM	50	50	14.02	14.20	14.02			
20	256QAM	100	0	13.92	14.05	14.01			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	19.02	19.04	19.04	20	0	
15	QPSK	1	37	18.96	18.99	18.89			
15	QPSK	1	74	18.92	19.01	18.90			
15	QPSK	36	0	17.91	18.09	18.01	19	1	
15	QPSK	36	20	17.84	18.04	17.98			
15	QPSK	36	39	17.90	18.08	17.95			
15	QPSK	75	0	18.07	18.09	18.08	19	1	
15	16QAM	1	0	18.07	18.12	18.01			
15	16QAM	1	37	18.00	18.02	17.94	19	1	
15	16QAM	1	74	17.84	17.97	17.87			
15	16QAM	36	0	17.04	17.11	16.95	18	2	
15	16QAM	36	20	16.90	16.92	16.95			
15	16QAM	36	39	16.89	17.03	17.04			
15	16QAM	75	0	17.06	17.11	17.10	18	2	
15	64QAM	1	0	17.01	17.10	16.93			
15	64QAM	1	37	16.99	17.09	17.03	18	2	
15	64QAM	1	74	16.89	16.88	16.92			
15	64QAM	36	0	15.99	16.10	15.93	17	3	
15	64QAM	36	20	15.92	16.08	15.91			
15	64QAM	36	39	15.83	16.05	16.00			
15	64QAM	75	0	15.97	16.09	16.09	15	5	
15	256QAM	1	0	14.02	14.07	13.91			
15	256QAM	1	37	13.78	14.02	13.96	15	5	
15	256QAM	1	74	13.83	14.07	13.89			
15	256QAM	36	0	14.04	14.11	14.11	15	5	
15	256QAM	36	20	14.00	14.04	13.94			
15	256QAM	36	39	13.90	14.10	13.93			
15	256QAM	75	0	13.90	13.95	13.94			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.98	19.02	19.06	20	0	
10	QPSK	1	25	18.93	18.96	18.96			
10	QPSK	1	49	18.90	18.96	18.93			
10	QPSK	25	0	17.99	18.05	17.92	19	1	
10	QPSK	25	12	17.88	18.05	17.96			
10	QPSK	25	25	17.88	18.06	17.97			
10	QPSK	50	0	18.02	18.05	18.12	19	1	
10	16QAM	1	0	18.00	18.06	17.97			
10	16QAM	1	25	17.97	18.03	17.98	19	1	
10	16QAM	1	49	17.91	17.92	17.91			
10	16QAM	25	0	17.00	17.10	16.99	18	2	
10	16QAM	25	12	16.90	17.00	16.89			
10	16QAM	25	25	16.91	16.96	17.06			
10	16QAM	50	0	17.07	17.10	17.08	18	2	
10	64QAM	1	0	17.02	17.15	16.91			
10	64QAM	1	25	17.03	17.15	16.99	18	2	
10	64QAM	1	49	16.91	16.91	16.95			
10	64QAM	25	0	15.99	16.10	15.90	17	3	
10	64QAM	25	12	15.96	16.09	15.97			
10	64QAM	25	25	15.85	16.06	15.99			
10	64QAM	50	0	16.02	16.10	16.01	15	5	
10	256QAM	1	0	13.99	14.11	13.92			
10	256QAM	1	25	13.86	13.95	13.89	15	5	
10	256QAM	1	49	13.87	14.04	13.87			
10	256QAM	25	0	13.97	14.14	14.03	15	5	
10	256QAM	25	12	13.98	14.07	13.95			
10	256QAM	25	25	13.96	14.15	13.90			
10	256QAM	50	0	13.85	13.94	13.98			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	19.00	19.05	18.98	20	0	
5	QPSK	1	12	18.93	19.01	18.96			
5	QPSK	1	24	18.86	18.99	18.96			
5	QPSK	12	0	17.94	18.13	17.98	19	1	
5	QPSK	12	7	17.88	18.02	17.88			
5	QPSK	12	13	17.86	18.00	17.95	19	1	
5	QPSK	25	0	18.01	18.12	18.08			
5	16QAM	1	0	18.06	18.10	17.94	19	1	
5	16QAM	1	12	17.89	18.11	18.01			
5	16QAM	1	24	17.87	17.97	17.95	18	2	
5	16QAM	12	0	17.03	17.03	16.99			
5	16QAM	12	7	16.97	17.03	16.90	18	2	
5	16QAM	12	13	16.88	17.00	17.04			
5	16QAM	25	0	17.00	17.12	17.07	18	2	
5	64QAM	1	0	16.96	17.10	16.91			
5	64QAM	1	12	16.96	17.16	17.02	18	2	
5	64QAM	1	24	16.92	16.92	16.95			
5	64QAM	12	0	15.89	16.11	15.91	17	3	
5	64QAM	12	7	15.90	16.05	15.95			
5	64QAM	12	13	15.88	16.05	16.00			
5	64QAM	25	0	15.97	16.06	16.01	15	5	
5	256QAM	1	0	14.02	14.06	13.90			
5	256QAM	1	12	13.79	14.04	13.89	15	5	
5	256QAM	1	24	13.86	14.09	13.88			
5	256QAM	12	0	13.92	14.08	14.05	15	5	
5	256QAM	12	7	13.99	14.14	13.98			
5	256QAM	12	13	13.97	14.13	13.97			
5	256QAM	25	0	13.85	13.94	13.97			

Band 48 Ant 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55830	56150	56470	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	19.03	19.12	19.01	19.10	20	0
20	QPSK	1	49	19.01	19.06	18.94	19.00		
20	QPSK	1	99	19.01	19.11	18.93	19.09		
20	QPSK	50	0	18.08	18.13	17.99	18.09	19	1
20	QPSK	50	24	18.05	18.04	18.00	17.99		
20	QPSK	50	50	18.01	18.11	17.87	18.04	19	1
20	QPSK	100	0	18.02	18.14	17.92	18.01		
20	16QAM	1	0	18.02	18.11	17.97	18.06	19	1
20	16QAM	1	49	17.95	18.03	17.91	18.04		
20	16QAM	1	99	17.97	18.05	17.90	18.05	18	2
20	16QAM	50	0	17.07	17.16	17.05	17.05		
20	16QAM	50	24	17.00	17.03	17.03	16.93	18	2
20	16QAM	50	50	16.96	17.10	16.89	17.03		
20	16QAM	100	0	16.98	17.16	16.93	17.02	18	2
20	64QAM	1	0	17.03	17.06	17.03	17.11		
20	64QAM	1	49	17.02	17.04	16.94	16.96	18	2
20	64QAM	1	9						

Band 38 Ant 3 DSI1										
BW [MHz]	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	23.43	23.52	23.48	24.5	0		
20	QPSK	1	49	23.38	23.45	23.38				
20	QPSK	1	99	23.40	23.40	23.37				
20	QPSK	50	0	22.37	22.57	22.43	23.5	1		
20	QPSK	50	24	22.34	22.49	22.37				
20	QPSK	50	50	22.41	22.42	22.33				
20	QPSK	100	0	22.46	22.52	22.50	23.5	1		
20	16QAM	1	0	22.44	22.54	22.47				
20	16QAM	1	49	22.38	22.51	22.36				
20	16QAM	1	99	22.39	22.39	22.34	22.5	2		
20	16QAM	50	0	21.36	21.56	21.37				
20	16QAM	50	24	21.36	21.54	21.35				
20	16QAM	50	50	21.42	21.43	21.29	22.5	2		
20	16QAM	100	0	21.40	21.53	21.47				
20	64QAM	1	0	21.50	21.56	21.43				
20	64QAM	1	49	21.43	21.52	21.36	22.5	2		
20	64QAM	1	99	21.33	21.41	21.31				
20	64QAM	50	0	20.39	20.58	20.44				
20	64QAM	50	24	20.35	20.54	20.32	21.5	3		
20	64QAM	50	50	20.41	20.47	20.31				
20	64QAM	100	0	20.48	20.58	20.45				
20	256QAM	1	0	18.32	18.32	18.37	19.5	5		
20	256QAM	1	49	18.40	18.48	18.40				
20	256QAM	1	99	18.44	18.37	18.35				
20	256QAM	50	0	18.46	18.48	18.46	19.5	5		
20	256QAM	50	24	18.45	18.58	18.42				
20	256QAM	50	50	18.43	18.54	18.34				
20	256QAM	100	0	18.38	18.42	18.29				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.29	23.45	23.45	24.5	0		
15	QPSK	1	37	23.31	23.38	23.27				
15	QPSK	1	74	23.36	23.27	23.34				
15	QPSK	36	0	22.25	22.47	22.32	23.5	1		
15	QPSK	36	20	22.31	22.41	22.29				
15	QPSK	36	39	22.27	22.36	22.22				
15	QPSK	75	0	22.42	22.47	22.40	23.5	1		
15	16QAM	1	0	22.33	22.40	22.39				
15	16QAM	1	37	22.31	22.38	22.25				
15	16QAM	1	74	22.27	22.31	22.25	22.5	2		
15	16QAM	36	0	21.27	21.45	21.27				
15	16QAM	36	20	21.28	21.45	21.28				
15	16QAM	36	39	21.29	21.37	21.24	22.5	2		
15	16QAM	75	0	21.32	21.43	21.45				
15	64QAM	1	0	21.41	21.49	21.30				
15	64QAM	1	37	21.35	21.39	21.32	22.5	2		
15	64QAM	1	74	21.25	21.29	21.26				
15	64QAM	36	0	20.32	20.51	20.32				
15	64QAM	36	20	20.32	20.48	20.23	21.5	3		
15	64QAM	36	39	20.37	20.36	20.20				
15	64QAM	75	0	20.40	20.51	20.37				
15	256QAM	1	0	18.20	18.41	18.33	19.5	5		
15	256QAM	1	37	18.30	18.38	18.34				
15	256QAM	1	74	18.32	18.28	18.30				
15	256QAM	36	0	18.39	18.41	18.43	19.5	5		
15	256QAM	36	20	18.35	18.50	18.32				
15	256QAM	36	39	18.39	18.44	18.23				
15	256QAM	75	0	18.27	18.35	18.25				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.34	23.39	23.43	24.5	0		
10	QPSK	1	25	23.27	23.39	23.32				
10	QPSK	1	49	23.38	23.33	23.25				
10	QPSK	25	0	22.24	22.46	22.36	23.5	1		
10	QPSK	25	12	22.24	22.37	22.31				
10	QPSK	25	25	22.37	22.37	22.20				
10	QPSK	50	0	22.39	22.46	22.43	23.5	1		
10	16QAM	1	0	22.33	22.48	22.35				
10	16QAM	1	25	22.27	22.45	22.22				
10	16QAM	1	49	22.35	22.31	22.27	22.5	2		
10	16QAM	25	0	21.32	21.53	21.31				
10	16QAM	25	12	21.32	21.50	21.27				
10	16QAM	25	25	21.28	21.40	21.17	22.5	2		
10	16QAM	50	0	21.30	21.42	21.40				
10	64QAM	1	0	21.43	21.53	21.34				
10	64QAM	1	25	21.34	21.44	21.27	22.5	2		
10	64QAM	1	49	21.19	21.35	21.29				
10	64QAM	25	0	20.34	20.52	20.41				
10	64QAM	25	12	20.27	20.50	20.19	21.5	3		
10	64QAM	25	25	20.38	20.36	20.25				
10	64QAM	50	0	20.43	20.52	20.32				
10	256QAM	1	0	18.28	18.50	18.33	19.5	5		
10	256QAM	1	25	18.27	18.39	18.36				
10	256QAM	1	49	18.39	18.27	18.33				
10	256QAM	25	0	18.39	18.35	18.39	19.5	5		
10	256QAM	25	12	18.34	18.50	18.31				
10	256QAM	25	25	18.34	18.47	18.23				
10	256QAM	50	0	18.34	18.32	18.26				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.38	23.39	23.37	24.5	0		
5	QPSK	1	12	23.28	23.36	23.29				
5	QPSK	1	24	23.30	23.26	23.27				
5	QPSK	12	0	22.23	22.51	22.34	23.5	1		
5	QPSK	12	7	22.29	22.36	22.35				
5	QPSK	12	13	22.31	22.30	22.27				
5	QPSK	25	0	22.43	22.48	22.46	23.5	1		
5	16QAM	1	0	22.41	22.46	22.40				
5	16QAM	1	12	22.29	22.41	22.31				
5	16QAM	1	24	22.26	22.28	22.22	22.5	2		
5	16QAM	12	0	21.25	21.43	21.29				
5	16QAM	12	7	21.28	21.41	21.24				
5	16QAM	12	13	21.34	21.32	21.22	22.5	2		
5	16QAM	25	0	21.31	21.43	21.34				
5	64QAM	1	0	21.42	21.47	21.32				
5	64QAM	1	12	21.36	21.42	21.27	22.5	2		
5	64QAM	1	24	21.21	21.33	21.22				
5	64QAM	12	0	20.35	20.54	20.37				
5	64QAM	12	7	20.31	20.50	20.25	21.5	3		
5	64QAM	12	13	20.33	20.44	20.22				
5	64QAM	25	0	20.43	20.47	20.37				
5	256QAM	1	0	18.23	18.38	18.26	19.5	5		
5	256QAM	1	12	18.33	18.34	18.33				
5	256QAM	1	24	18.30	18.25	18.24				
5	256QAM	12	0	18.44	18.38	18.33	19.5	5		
5	256QAM	12	7	18.48	18.55	18.30				
5	256QAM	12	13	18.39	18.42	18.21				
5	256QAM	25	0	18.24	18.31	18.18				

Band 41 Ant 3 DSI1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	22.98	23.00	23.10	23.08	23.04	24	0		
20	QPSK	1	49	22.85	22.96	22.96	22.95	22.94				
20	QPSK	1	99	22.89	22.88	23.00	22.98	22.99				
20	QPSK	50	0	22.49	22.47	22.63	22.61	22.52	23.5	0.5		
20	QPSK	50	24	22.37	22.48	22.47	22.50	22.41				
20	QPSK	50	50	22.42	22.32	22.45	22.45	22.51				
20	QPSK	100	0	22.45	22.54	22.60	22.59	22.59	23.5	0.5		
20	16QAM	1	0	22.53	22.53	22.58	22.61	22.59				
20	16QAM	1	49	22.32	22.46	22.40	22.49	22.44				
20	16QAM	1	99	22.42	22.41	22.50	22.45	22.48	22.5	1.5		
20	16QAM	50	0	21.46	21.45	21.57	21.58	21.58				
20	16QAM	50	24									

Band 42 Part 27Q Ant 3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.46	20.47	20.22	21.5	0	
20	QPSK	1	49	20.42	20.41	20.19			
20	QPSK	1	99	20.42	20.46	20.19			
20	QPSK	50	0	19.47	19.47	19.21	20.5	1	
20	QPSK	50	24	19.44	19.42	19.23			
20	QPSK	50	50	19.46	19.42	19.20			
20	QPSK	100	0	19.37	19.41	19.16	20.5	1	
20	16QAM	1	0	19.41	19.41	19.19			
20	16QAM	1	49	19.46	19.47	19.19			
20	16QAM	1	99	19.46	19.50	19.23	19.5	2	
20	16QAM	50	0	18.51	18.45	18.26			
20	16QAM	50	24	18.41	18.43	18.25			
20	16QAM	50	50	18.46	18.44	18.24	19.5	2	
20	16QAM	100	0	18.38	18.36	18.19			
20	64QAM	1	0	18.38	18.43	18.08			
20	64QAM	1	49	18.32	18.35	18.13	19.5	2	
20	64QAM	1	99	18.37	18.35	18.08			
20	64QAM	50	0	17.35	17.41	17.16			
20	64QAM	50	24	17.29	17.30	17.12	18.5	3	
20	64QAM	50	50	17.35	17.34	17.16			
20	64QAM	100	0	17.22	17.36	17.03			
20	256QAM	1	0	15.40	15.43	15.27	16.5	5	
20	256QAM	1	49	15.37	15.42	15.24			
20	256QAM	1	99	15.39	15.42	15.23			
20	256QAM	50	0	15.37	15.39	15.05	16.5	5	
20	256QAM	50	24	15.37	15.33	15.16			
20	256QAM	50	50	15.40	15.30	15.16			
20	256QAM	100	0	15.27	15.32	15.08			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.46	20.46	20.18	21.5	0	
15	QPSK	1	37	20.39	20.39	20.11			
15	QPSK	1	74	20.32	20.39	20.14			
15	QPSK	36	0	19.46	19.45	19.20	20.5	1	
15	QPSK	36	20	19.39	19.32	19.12			
15	QPSK	36	39	19.41	19.34	19.09			
15	QPSK	75	0	19.28	19.40	19.06	20.5	1	
15	16QAM	1	0	19.41	19.40	18.14			
15	16QAM	1	37	19.42	19.39	18.17			
15	16QAM	1	74	19.36	19.47	19.19	19.5	2	
15	16QAM	36	0	18.41	18.41	18.25			
15	16QAM	36	20	18.29	18.39	18.19			
15	16QAM	36	39	18.37	18.34	18.21	19.5	2	
15	16QAM	75	0	18.27	18.32	18.14			
15	64QAM	1	0	18.28	18.36	18.01			
15	64QAM	1	37	18.30	18.30	18.02	19.5	2	
15	64QAM	1	74	18.36	18.28	18.07			
15	64QAM	36	0	17.26	17.32	17.08			
15	64QAM	36	20	17.25	17.27	17.04	18.5	3	
15	64QAM	36	39	17.27	17.31	17.05			
15	64QAM	75	0	17.13	17.26	17.00			
15	256QAM	1	0	15.31	15.37	15.24	16.5	5	
15	256QAM	1	37	15.27	15.37	15.18			
15	256QAM	1	74	15.32	15.34	15.12			
15	256QAM	36	0	15.33	15.37	14.98	16.5	5	
15	256QAM	36	20	15.33	15.22	15.07			
15	256QAM	36	39	15.40	15.27	15.07			
15	256QAM	75	0	15.24	15.23	15.00			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.38	20.42	20.16	21.5	0	
10	QPSK	1	25	20.31	20.31	20.15			
10	QPSK	1	49	20.33	20.43	20.12			
10	QPSK	25	0	19.41	19.38	19.18	20.5	1	
10	QPSK	25	12	19.41	19.37	19.21			
10	QPSK	25	25	19.36	19.41	19.11			
10	QPSK	50	0	19.27	19.39	19.06	20.5	1	
10	16QAM	1	0	19.40	19.33	19.17			
10	16QAM	1	25	19.39	19.36	19.14			
10	16QAM	1	49	19.35	19.48	19.16	19.5	2	
10	16QAM	25	0	18.41	18.39	18.17			
10	16QAM	25	12	18.40	18.40	18.18			
10	16QAM	25	25	18.44	18.38	18.15	19.5	2	
10	16QAM	50	0	18.29	18.36	18.12			
10	64QAM	1	0	18.28	18.35	18.00			
10	64QAM	1	25	18.29	18.29	18.02	19.5	2	
10	64QAM	1	49	18.29	18.28	18.02			
10	64QAM	25	0	17.35	17.37	17.07			
10	64QAM	25	12	17.17	17.25	17.04	18.5	3	
10	64QAM	25	25	17.27	17.30	17.14			
10	64QAM	50	0	17.13	17.24	16.96			
10	256QAM	1	0	15.37	15.40	15.15	16.5	5	
10	256QAM	1	25	15.27	15.32	15.18			
10	256QAM	1	49	15.32	15.34	15.19			
10	256QAM	25	0	15.33	15.29	14.99	16.5	5	
10	256QAM	25	12	15.36	15.21	15.13			
10	256QAM	25	25	15.32	15.24	15.09			
10	256QAM	50	0	15.25	15.26	15.00			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.42	20.43	20.22	21.5	0	
5	QPSK	1	12	20.38	20.33	20.11			
5	QPSK	1	24	20.39	20.34	20.09			
5	QPSK	12	0	19.43	19.37	19.17	20.5	1	
5	QPSK	12	7	19.41	19.38	19.13			
5	QPSK	12	13	19.40	19.35	19.10			
5	QPSK	25	0	19.29	19.32	19.09	20.5	1	
5	16QAM	1	0	19.37	19.34	19.08			
5	16QAM	1	12	19.42	19.44	19.19			
5	16QAM	1	24	19.42	19.40	19.13	19.5	2	
5	16QAM	12	0	18.47	18.40	18.23			
5	16QAM	12	7	18.30	18.42	18.22			
5	16QAM	12	13	18.37	18.43	18.12	19.5	2	
5	16QAM	25	0	18.31	18.30	18.08			
5	64QAM	1	0	18.36	18.41	18.02			
5	64QAM	1	12	18.23	18.27	18.06	19.5	2	
5	64QAM	1	24	18.30	18.25	18.04			
5	64QAM	12	0	17.26	17.41	17.10			
5	64QAM	12	7	17.23	17.19	17.01	18.5	3	
5	64QAM	12	13	17.33	17.24	17.09			
5	64QAM	25	0	17.16	17.24	16.95			
5	256QAM	1	0	15.32	15.33	15.16	16.5	5	
5	256QAM	1	12	15.26	15.38	15.22			
5	256QAM	1	24	15.37	15.34	15.17			
5	256QAM	12	0	15.37	15.27	15.02	16.5	5	
5	256QAM	12	7	15.25	15.29	15.16			
5	256QAM	12	13	15.33	15.29	15.12			
5	256QAM	25	0	15.22	15.24	15.06			

Band 48 Ant 3 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.44	20.39	20.38	20.38	21.5	0
20	QPSK	1	49	20.33	20.45	20.29	20.36		
20	QPSK	1	99	20.36	20.45	20.32	20.32		
20	QPSK	50	0	19.40	19.47	19.41	19.38	20.5	1
20	QPSK	50	24	19.48	19.48	19.33	19.34		
20	QPSK	50	50	19.37	19.42	19.36	19.34		
20	QPSK	100	0	19.32	19.47	19.37	19.32	20.5	1
20	16QAM	1	0	19.41	19.48	19.37	19.35		
20	16QAM	1	49	19.35	19.43	19.30	19.30		
20	16QAM	1	99	19.37	19.51	19.28	19.38	19.5	2
20	16QAM	50	0	18.42	18.50	18.40	18.33		
20	16QAM	50	24	18.50	18.47	18.32	18.31		
20	16QAM	50	50	18.35	18.40	18.38	18.34	19.5	2
20	16QAM	100	0	18.37	18.49	18.32	18.34		
20	64QAM	1	0	18.50	18.40	18.38	18.32		
20	64QAM	1	49	18.38	18.49	18.25	18.30	19.5	2
20	64QAM	1	99	18.32	18.42	18.34	18.37		
20	64QAM	50	0	17.37	17.49	17.41	17.33		
20	64QAM	50	24	17.44	17.48	17.39	17.33	18.5	3
20	64QAM	50	50	17.35	17.40	17.35	17.29		
20	64QAM	100	0	17.32	17.41	17.31	17.34		
20	256QAM	1	0	15.40	15.44				

Band 38 Ant 4 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	19.12	19.19	19.07	20.5	0	
20	QPSK	1	49	19.08	19.17	19.03			
20	QPSK	1	99	18.98	19.05	18.98			
20	QPSK	50	0	19.09	19.13	18.96	20.5	0	
20	QPSK	50	24	18.98	19.17	18.99			
20	QPSK	50	50	19.08	19.06	18.94			
20	QPSK	100	0	18.99	19.08	19.01	20.5	0	
20	16QAM	1	0	19.06	19.06	18.96			
20	16QAM	1	49	19.03	19.06	18.92			
20	16QAM	1	99	18.66	19.00	18.91	20.5	0	
20	16QAM	50	0	19.05	19.08	18.90			
20	16QAM	50	24	18.92	19.14	18.97			
20	16QAM	50	50	18.99	18.92	18.84	20.5	0	
20	16QAM	100	0	18.94	18.98	18.90			
20	64QAM	1	0	19.07	19.07	18.99			
20	64QAM	1	49	19.03	19.07	19.00	20.5	0	
20	64QAM	1	99	18.85	18.97	18.87			
20	64QAM	50	0	19.00	19.06	18.85			
20	64QAM	50	24	18.91	19.13	18.89	20.5	0	
20	64QAM	50	50	18.97	18.95	18.88			
20	64QAM	100	0	18.94	18.97	18.92			
20	256QAM	1	0	19.08	18.18	18.11	19.5	1	
20	256QAM	1	49	18.13	18.20	18.03			
20	256QAM	1	99	18.03	18.01	17.94			
20	256QAM	50	0	18.05	18.14	17.90	19.5	1	
20	256QAM	50	24	17.93	18.13	17.97			
20	256QAM	50	50	18.15	18.08	17.88			
20	256QAM	100	0	18.05	18.09	17.98			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	19.01	19.09	18.98	20.5	0	
15	QPSK	1	37	18.98	19.07	18.92			
15	QPSK	1	74	18.88	18.92	18.91			
15	QPSK	36	0	19.00	19.01	18.85	20.5	0	
15	QPSK	36	20	18.94	19.13	18.90			
15	QPSK	36	39	18.95	18.95	18.90			
15	QPSK	75	0	18.96	19.01	18.93	20.5	0	
15	16QAM	1	0	18.96	18.96	18.93			
15	16QAM	1	37	18.90	18.96	18.80			
15	16QAM	1	74	18.78	18.87	18.79	20.5	0	
15	16QAM	36	0	18.97	19.02	18.84			
15	16QAM	36	20	18.87	19.05	18.89			
15	16QAM	36	39	18.91	18.83	18.76	20.5	0	
15	16QAM	75	0	18.83	18.94	18.86			
15	64QAM	1	0	18.96	18.95	18.92			
15	64QAM	1	37	18.95	19.04	18.93	20.5	0	
15	64QAM	1	74	18.83	18.88	18.78			
15	64QAM	36	0	18.95	19.02	18.77			
15	64QAM	36	20	18.87	19.09	18.82	20.5	0	
15	64QAM	36	39	18.93	18.87	18.77			
15	64QAM	75	0	18.90	18.86	18.78			
15	256QAM	1	0	18.02	18.12	18.08	19.5	1	
15	256QAM	1	37	18.05	18.13	18.00			
15	256QAM	1	74	17.94	17.91	17.84			
15	256QAM	36	0	17.91	18.06	17.83	19.5	1	
15	256QAM	36	20	17.85	18.09	17.84			
15	256QAM	36	39	18.05	18.04	17.82			
15	256QAM	75	0	17.96	18.04	17.91			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	19.06	19.05	19.01	20.5	0	
10	QPSK	1	25	18.95	19.08	18.98			
10	QPSK	1	49	18.90	19.00	18.90			
10	QPSK	25	0	18.98	19.05	18.89	20.5	0	
10	QPSK	25	12	18.90	19.08	18.93			
10	QPSK	25	25	19.02	19.00	18.92			
10	QPSK	50	0	18.89	18.95	18.87	20.5	0	
10	16QAM	1	0	19.03	19.00	18.86			
10	16QAM	1	25	18.95	18.95	18.80			
10	16QAM	1	49	18.72	18.86	18.86	20.5	0	
10	16QAM	25	0	18.96	19.02	18.79			
10	16QAM	25	12	18.80	19.10	18.89			
10	16QAM	25	25	18.88	18.83	18.79	20.5	0	
10	16QAM	50	0	18.85	18.85	18.82			
10	64QAM	1	0	19.02	18.96	18.93			
10	64QAM	1	25	18.95	18.98	18.88	20.5	0	
10	64QAM	1	49	18.72	18.87	18.73			
10	64QAM	25	0	18.87	18.94	18.75			
10	64QAM	25	12	18.85	19.08	18.75	20.5	0	
10	64QAM	25	25	18.87	18.86	18.78			
10	64QAM	50	0	18.91	18.86	18.80			
10	256QAM	1	0	17.97	18.16	18.05	19.5	1	
10	256QAM	1	25	18.03	18.12	17.94			
10	256QAM	1	49	17.93	17.88	17.86			
10	256QAM	25	0	17.99	18.12	17.78	19.5	1	
10	256QAM	25	12	17.81	18.05	17.90			
10	256QAM	25	25	18.10	17.99	17.85			
10	256QAM	50	0	17.95	18.01	17.93			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	19.09	19.10	19.05	20.5	0	
5	QPSK	1	12	18.98	19.13	18.89			
5	QPSK	1	24	18.96	19.00	18.93			
5	QPSK	12	0	18.98	19.09	18.92	20.5	0	
5	QPSK	12	7	18.96	19.13	18.93			
5	QPSK	12	13	19.07	19.00	18.91			
5	QPSK	25	0	18.95	18.94	18.88	20.5	0	
5	16QAM	1	0	18.95	19.00	18.91			
5	16QAM	1	12	18.98	18.93	18.87			
5	16QAM	1	24	18.83	18.96	18.78	20.5	0	
5	16QAM	12	0	18.97	19.03	18.76			
5	16QAM	12	7	18.88	19.05	18.85			
5	16QAM	12	13	18.96	18.86	18.79	20.5	0	
5	16QAM	25	0	18.87	18.89	18.78			
5	64QAM	1	0	18.99	18.97	18.96			
5	64QAM	1	12	18.91	19.05	18.88	20.5	0	
5	64QAM	1	24	18.79	18.84	18.82			
5	64QAM	12	0	18.94	19.02	18.81			
5	64QAM	12	7	18.82	19.07	18.85	20.5	0	
5	64QAM	12	13	18.88	18.92	18.78			
5	64QAM	25	0	18.84	18.87	18.89			
5	256QAM	1	0	17.96	18.11	17.98	19.5	1	
5	256QAM	1	12	18.08	18.16	17.90			
5	256QAM	1	24	18.00	17.94	17.88			
5	256QAM	12	0	17.97	18.11	17.77	19.5	1	
5	256QAM	12	7	17.80	18.09	17.90			
5	256QAM	12	13	18.02	18.02	17.75			
5	256QAM	25	0	18.02	18.04	17.92			

Band 41 Ant 4 DSI1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.18	19.14	19.24	19.12	19.17	20.5	0
20	QPSK	1	49	19.12	19.18	19.20	19.05	19.12		
20	QPSK	1	99	19.00	19.03	19.09	19.02	19.05		
20	QPSK	50	0	19.11	19.18	19.13	19.02	19.08	20.5	0
20	QPSK	50	24	19.10	19.05	19.19	18.99	19.10		
20	QPSK	50	50	19.02	19.16	19.10	18.95	19.07		
20	QPSK	100	0	19.06	19.05	19.17	19.04	19.15	20.5	0
20	16QAM	1	0	19.00	19.11	19.06	19.07	19.03		
20	16QAM	1	49	19.09	19.11	19.10	18.99	19.09		
20	16QAM	1	99	19.00	18.86	19.04	18.90	19.02	20.5	0
20	16QAM	50	0	19.17	19.09	19.17	18.90	19.13		
20	16QAM	50	24	19.18	19.00	19.21	19.08	19.15		
20	16QAM	50	50	18.92	19.03	18.94	18.87	18.91	20.5	0
20	16QAM	100	0	19.05	19.04	19.08	18.95	19.04		
20	64QAM	1	0	19.03	19.08	19.12	19.06	19.04		
20	64QAM	1	49	19.00	19.04	19.07	19.08	18.99	20.5	0
20	64QAM	1	99	18.93	18.96	19.02	18.87	18.96		
20	64QAM	50	0	19.09	19.07	19.09	18.91	19.02		
20	64QAM	50	24	19.15	19.01	19.18	18.92	19.14	20.5	

Band 42 Part 27Q Ant 5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	18.51	18.56	18.52	19.5	0	
20	QPSK	1	49	18.47	18.45	18.44			
20	QPSK	1	99	18.48	18.49	18.43			
20	QPSK	50	0	18.43	18.54	18.39	19.5	0	
20	QPSK	50	24	18.43	18.49	18.38			
20	QPSK	50	50	18.44	18.48	18.45			
20	QPSK	100	0	18.44	18.52	18.46	19.5	0	
20	16QAM	1	0	18.41	18.47	18.40			
20	16QAM	1	49	18.44	18.39	18.35			
20	16QAM	1	99	18.44	18.45	18.40	19.5	0	
20	16QAM	50	0	18.37	18.47	18.27			
20	16QAM	50	24	18.38	18.46	18.27			
20	16QAM	50	50	18.32	18.35	18.33	19.5	0	
20	16QAM	100	0	18.34	18.46	18.39			
20	64QAM	1	0	18.44	18.50	18.45			
20	64QAM	1	49	18.43	18.41	18.40	19.5	0	
20	64QAM	1	99	18.43	18.47	18.37			
20	64QAM	50	0	18.35	18.46	18.37			
20	64QAM	50	24	18.40	18.44	18.33	19.5	0	
20	64QAM	50	50	18.39	18.39	18.39			
20	64QAM	100	0	18.41	18.40	18.34			
20	256QAM	1	0	18.44	18.48	18.45	19.5	0	
20	256QAM	1	49	18.34	18.41	18.40			
20	256QAM	1	99	18.36	18.37	18.35			
20	256QAM	50	0	18.40	18.47	18.32	19.5	0	
20	256QAM	50	24	18.35	18.37	18.33			
20	256QAM	50	50	18.39	18.39	18.39			
20	256QAM	100	0	18.42	18.40	18.33			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	18.46	18.49	18.39	19.5	0	
15	QPSK	1	37	18.36	18.41	18.36			
15	QPSK	1	74	18.41	18.40	18.30			
15	QPSK	36	0	18.32	18.43	18.35	19.5	0	
15	QPSK	36	20	18.39	18.44	18.30			
15	QPSK	36	39	18.37	18.36	18.32			
15	QPSK	75	0	18.34	18.48	18.36	19.5	0	
15	16QAM	1	0	18.32	18.42	18.29			
15	16QAM	1	37	18.35	18.33	18.24			
15	16QAM	1	74	18.38	18.35	18.31	19.5	0	
15	16QAM	36	0	18.30	18.42	18.25			
15	16QAM	36	20	18.36	18.42	18.16			
15	16QAM	36	39	18.18	18.22	18.30	19.5	0	
15	16QAM	75	0	18.29	18.39	18.31			
15	64QAM	1	0	18.35	18.48	18.40			
15	64QAM	1	37	18.33	18.30	18.28	19.5	0	
15	64QAM	1	74	18.30	18.39	18.28			
15	64QAM	36	0	18.33	18.40	18.31			
15	64QAM	36	20	18.29	18.38	18.21	19.5	0	
15	64QAM	36	39	18.33	18.27	18.31			
15	64QAM	75	0	18.35	18.28	18.24			
15	256QAM	1	0	18.41	18.40	18.36	19.5	0	
15	256QAM	1	37	18.32	18.30	18.29			
15	256QAM	1	74	18.33	18.27	18.27			
15	256QAM	36	0	18.36	18.38	18.22	19.5	0	
15	256QAM	36	20	18.24	18.35	18.24			
15	256QAM	36	39	18.32	18.36	18.33			
15	256QAM	75	0	18.30	18.37	18.26			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.40	18.43	18.44	19.5	0	
10	QPSK	1	25	18.36	18.33	18.37			
10	QPSK	1	49	18.41	18.40	18.33			
10	QPSK	25	0	18.41	18.50	18.33	19.5	0	
10	QPSK	25	12	18.35	18.38	18.25			
10	QPSK	25	25	18.33	18.44	18.43			
10	QPSK	50	0	18.36	18.44	18.41	19.5	0	
10	16QAM	1	0	18.31	18.39	18.32			
10	16QAM	1	25	18.30	18.31	18.22			
10	16QAM	1	49	18.32	18.36	18.31	19.5	0	
10	16QAM	25	0	18.25	18.38	18.19			
10	16QAM	25	12	18.36	18.38	18.13			
10	16QAM	25	25	18.25	18.21	18.25	19.5	0	
10	16QAM	50	0	18.24	18.38	18.32			
10	64QAM	1	0	18.30	18.37	18.41			
10	64QAM	1	25	18.36	18.36	18.27	19.5	0	
10	64QAM	1	49	18.29	18.43	18.34			
10	64QAM	25	0	18.29	18.42	18.23			
10	64QAM	25	12	18.28	18.40	18.27	19.5	0	
10	64QAM	25	25	18.34	18.33	18.35			
10	64QAM	50	0	18.30	18.27	18.27			
10	256QAM	1	0	18.41	18.39	18.41	19.5	0	
10	256QAM	1	25	18.24	18.33	18.32			
10	256QAM	1	49	18.26	18.24	18.23			
10	256QAM	25	0	18.28	18.41	18.21	19.5	0	
10	256QAM	25	12	18.28	18.34	18.23			
10	256QAM	25	25	18.34	18.27	18.35			
10	256QAM	50	0	18.40	18.32	18.26			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	18.41	18.44	18.42	19.5	0	
5	QPSK	1	12	18.41	18.34	18.36			
5	QPSK	1	24	18.42	18.47	18.37			
5	QPSK	12	0	18.34	18.51	18.29	19.5	0	
5	QPSK	12	7	18.35	18.38	18.30			
5	QPSK	12	13	18.37	18.46	18.38			
5	QPSK	25	0	18.41	18.47	18.38	19.5	0	
5	16QAM	1	0	18.32	18.43	18.37			
5	16QAM	1	12	18.35	18.33	18.26			
5	16QAM	1	24	18.41	18.34	18.37	19.5	0	
5	16QAM	12	0	18.30	18.37	18.13			
5	16QAM	12	7	18.32	18.41	18.24			
5	16QAM	12	13	18.21	18.25	18.22	19.5	0	
5	16QAM	25	0	18.31	18.43	18.31			
5	64QAM	1	0	18.37	18.37	18.31			
5	64QAM	1	12	18.33	18.27	18.35	19.5	0	
5	64QAM	1	24	18.27	18.39	18.24			
5	64QAM	12	0	18.36	18.37	18.33			
5	64QAM	12	7	18.29	18.37	18.24	19.5	0	
5	64QAM	12	13	18.36	18.31	18.33			
5	64QAM	25	0	18.34	18.32	18.26			
5	256QAM	1	0	18.34	18.38	18.36	19.5	0	
5	256QAM	1	12	18.22	18.29	18.29			
5	256QAM	1	24	18.31	18.33	18.30			
5	256QAM	12	0	18.34	18.35	18.21	19.5	0	
5	256QAM	12	7	18.28	18.25	18.31			
5	256QAM	12	13	18.34	18.35	18.32			
5	256QAM	25	0	18.35	18.34	18.23			

Band 48 Ant 5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	56150	56640			
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.88	17.95	17.87	17.88	19	0
20	QPSK	1	49	17.83	17.81	17.81	17.83		
20	QPSK	1	99	17.75	17.83	17.82	17.82		
20	QPSK	50	0	17.82	17.91	17.84	17.77	19	0
20	QPSK	50	24	17.77	17.85	17.84	17.76		
20	QPSK	50	50	17.80	17.82	17.82	17.81		
20	QPSK	100	0	17.76	17.87	17.83	17.81	19	0
20	16QAM	1	0	17.74	17.86	17.77	17.75		
20	16QAM	1	49	17.80	17.72	17.67	17.77		
20	16QAM	1	99	17.68	17.74	17.78	17.69	19	0
20	16QAM	50	0	17.74	17.82	17.72	17.75		
20	16QAM	50	24	17.64	17.78	17.79	17.64		
20	16QAM	50	50	17.74	17.72	17.71	17.69	19	0
20	16QAM	100	0	17.64	17.85	17.71	17.78		
20	64QAM	1	0	17.81	17.85	17.77	17.86		
20	64QAM	1	49	17.80	17.72	17.70	17.69	19	0
20	64QAM	1	99	17.72	17.76	17.78	17.80		
20	64QAM	50	0	17.78	17.84	17.80	17.71		
20	64QAM	50	24	17.68	17.80	17.71	17.71	19	0
20	64QAM	50	50	17.71	17.69	17.73	17.71		
20	64QAM	100	0	17.84	17.81	17.77	17.70		
20	256QAM	1	0	17.84	17.82	17.73	17.75</		

Band 42 Part 27Q Ant 7 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				42190	42590	42990					
Frequency (MHz)				3460	3500	3540					
20	QPSK	1	0	22.83	22.86	22.75	24	0			
20	QPSK	1	49	22.75	22.82	22.68					
20	QPSK	1	99	22.70	22.80	22.66					
20	QPSK	50	0	21.82	21.86	21.80	23	1			
20	QPSK	50	24	21.74	21.80	21.70					
20	QPSK	50	50	21.76	21.85	21.81					
20	QPSK	100	0	21.82	21.82	21.70	23	1			
20	16QAM	1	0	21.80	21.81	21.81					
20	16QAM	1	49	21.76	21.80	21.66					
20	16QAM	1	99	21.76	21.84	21.63	22	2			
20	16QAM	50	0	20.80	20.81	20.80					
20	16QAM	50	24	20.70	20.76	20.75					
20	16QAM	50	50	20.73	20.87	20.63	22	2			
20	16QAM	100	0	20.82	20.82	20.72					
20	64QAM	1	0	20.79	20.80	20.80					
20	64QAM	1	49	20.76	20.75	20.71	22	2			
20	64QAM	1	99	20.78	20.80	20.67					
20	64QAM	50	0	19.78	19.85	19.85					
20	64QAM	50	24	19.71	19.76	19.64	21	3			
20	64QAM	50	50	19.75	19.86	19.61					
20	64QAM	100	0	19.82	19.76	19.74					
15	16QAM	1	0	21.69	21.72	21.75	19	5			
15	16QAM	1	49	21.85	21.81	21.82					
15	16QAM	1	99	21.79	21.80	21.68					
15	16QAM	1	99	21.79	21.88	21.81	19	5			
15	256QAM	50	0	17.83	17.81	17.73					
15	256QAM	50	24	17.79	17.83	17.83					
15	256QAM	50	50	17.79	17.85	17.62	20	5			
15	256QAM	50	50	17.79	17.85	17.62					
15	256QAM	100	0	17.75	17.84	17.67					
Channel				42165	42590	43015					
Frequency (MHz)				3457.5	3500	3542.5					
15	QPSK	1	0	22.72	22.78	22.67	24	0			
15	QPSK	1	37	22.70	22.79	22.66					
15	QPSK	1	74	22.64	22.76	22.56					
15	QPSK	36	0	21.71	21.83	21.72	23	1			
15	QPSK	36	20	21.71	21.67	21.61					
15	QPSK	36	39	21.69	21.80	21.47					
15	QPSK	75	0	21.77	21.71	21.62	23	1			
15	16QAM	1	0	21.69	21.72	21.75					
15	16QAM	1	37	21.73	21.75	21.53					
15	16QAM	1	74	21.66	21.71	21.57	22	2			
15	16QAM	36	0	20.69	20.74	20.71					
15	16QAM	36	20	20.63	20.71	20.62					
15	16QAM	36	39	20.68	20.77	20.58	22	2			
15	16QAM	75	0	20.71	20.75	20.62					
15	64QAM	1	0	20.68	20.68	20.72					
15	64QAM	1	37	20.69	20.71	20.58	22	2			
15	64QAM	1	74	20.70	20.78	20.60					
15	64QAM	36	0	19.66	19.75	19.75					
15	64QAM	36	20	19.59	19.65	19.56	21	3			
15	64QAM	36	39	19.65	19.80	19.52					
15	64QAM	75	0	19.80	19.65	19.63					
15	256QAM	1	0	17.78	17.77	17.74	19	5			
15	256QAM	1	37	17.76	17.66	17.64					
15	256QAM	1	74	17.76	17.75	17.57					
15	256QAM	36	0	17.70	17.68	17.70	19	5			
15	256QAM	36	20	17.75	17.71	17.72					
15	256QAM	36	39	17.66	17.75	17.54					
15	256QAM	75	0	17.72	17.73	17.61	20	5			
Channel				42140	42590	43040					
Frequency (MHz)				3455	3500	3545					
10	QPSK	1	0	22.77	22.81	22.66	24	0			
10	QPSK	1	25	22.61	22.74	22.63					
10	QPSK	1	49	22.63	22.67	22.58					
10	QPSK	25	0	21.70	21.82	21.72	23	1			
10	QPSK	25	12	21.72	21.70	21.64					
10	QPSK	25	25	21.72	21.78	21.50					
10	QPSK	50	0	21.73	21.70	21.65	23	1			
10	16QAM	1	0	21.77	21.68	21.77					
10	16QAM	1	25	21.74	21.73	21.56					
10	16QAM	1	49	21.63	21.72	21.58	22	2			
10	16QAM	25	0	20.74	20.68	20.74					
10	16QAM	25	12	20.58	20.72	20.72					
10	16QAM	25	25	20.62	20.85	20.55	22	2			
10	16QAM	50	0	20.78	20.72	20.61					
10	64QAM	1	0	20.67	20.77	20.73					
10	64QAM	1	25	20.66	20.70	20.68	22	2			
10	64QAM	1	49	20.71	20.75	20.61					
10	64QAM	25	0	19.71	19.76	19.74					
10	64QAM	25	12	19.64	19.64	19.52	21	3			
10	64QAM	25	25	19.65	19.77	19.47					
10	64QAM	50	0	19.76	19.70	19.60					
10	256QAM	1	0	17.73	17.71	17.74	19	5			
10	256QAM	1	25	17.67	17.73	17.63					
10	256QAM	1	49	17.65	17.86	17.49					
10	256QAM	25	0	17.72	17.74	17.65	19	5			
10	256QAM	25	12	17.72	17.76	17.77					
10	256QAM	25	25	17.67	17.75	17.49					
10	256QAM	50	0	17.69	17.75	17.60	20	5			
Channel				42115	42590	43065					
Frequency (MHz)				3452.5	3500	3547.5					
5	QPSK	1	0	22.70	22.79	22.66	24	0			
5	QPSK	1	12	22.72	22.76	22.55					
5	QPSK	1	24	22.61	22.70	22.63					
5	QPSK	12	0	21.70	21.79	21.78	23	1			
5	QPSK	12	7	21.70	21.77	21.62					
5	QPSK	12	13	21.73	21.81	21.49					
5	QPSK	25	0	21.80	21.76	21.60	23	1			
5	16QAM	1	0	21.72	21.79	21.78					
5	16QAM	1	12	21.74	21.72	21.52					
5	16QAM	1	24	21.68	21.71	21.51	22	2			
5	16QAM	12	0	20.67	20.78	20.67					
5	16QAM	12	7	20.57	20.71	20.62					
5	16QAM	12	13	20.66	20.81	20.50	22	2			
5	16QAM	25	0	20.77	20.77	20.67					
5	64QAM	1	0	20.74	20.76	20.74					
5	64QAM	1	12	20.64	20.68	20.68	22	2			
5	64QAM	1	24	20.66	20.75	20.57					
5	64QAM	12	0	19.67	19.83	19.72					
5	64QAM	12	7	19.57	19.63	19.53	21	3			
5	64QAM	12	13	19.64	19.77	19.56					
5	64QAM	25	0	19.79	19.69	19.66					
5	256QAM	1	0	17.80	17.73	17.80	19	5			
5	256QAM	1	12	17.71	17.78	17.55					
5	256QAM	1	24	17.73	17.77	17.53					
5	256QAM	12	0	17.74	17.73	17.70	19	5			
5	256QAM	12	7	17.69	17.79	17.76					
5	256QAM	12	13	17.73	17.80	17.55					
5	256QAM	25	0	17.70	17.75	17.60	20	5			

Band 48 Ant 7 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.15	22.23	22.20	22.16	23.5	0
20	QPSK	1	49	22.05	22.16	22.12	22.06		
20	QPSK	1	99	22.03	22.12	22.16	22.10		
20	QPSK	50	0	21.18	21.25	21.15	21.16	22.5	1
20	QPSK	50	24	21.06	21.12	21.17	21.06		
20	QPSK	50	50	21.02	21.15	21.21	21.05		
20	QPSK	100	0	21.11	21.21	21.19	21.19	22.5	1
20	16QAM	1	0	21.19	21.18	21.24	21.15		
20	16QAM	1	49	21.03	21.17	21.08	21.01		
20	16QAM	1	99	21.00	21.17	21.22	21.15	21.5	2
20	16QAM	50	0	20.16	20.22	20.15	20.13		
20	16QAM	50	24	20.03	20.16	20.15	20.08		
20	16QAM	50	50	19.97	20.20	20.17	20.01	21.5	2
20	16QAM	100	0	20.14	20.20	20.24	20.14		
20	64QAM	1	0	20.19	20.13	20.26	20.17		
20	64QAM	1	49	20.07	20.14	20.12	19.96	21.5	2
20	64QAM	1	99	19.99	20.14	20.26	20.17		
20	64QAM	50	0	19.17	19.23	19.18	19.13		
20	64QAM	50	24	19.00	19.11	19.20	19.02	20.5	3
20	64QAM	50	50	19.01	19.12	19.25	19.07		
20	64QAM	10							

Reduced Power Mode for Main PA DS11 ENDC

Band 7 Ant 3 DS11 for ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350	20	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.11	19.22	19.14	20	0	
20	QPSK	1	49	19.09	19.02	19.10			
20	QPSK	1	99	19.01	19.08	19.07			
20	QPSK	50	0	19.07	19.21	19.12	20	0	
20	QPSK	50	24	19.07	19.19	19.10			
20	QPSK	50	50	19.03	19.06	19.09			
20	QPSK	100	0	19.03	19.05	19.01	20	0	
20	16QAM	1	0	18.96	19.04	18.98			
20	16QAM	1	49	19.02	19.09	19.00			
20	16QAM	1	99	19.07	19.04	18.90	20	0	
20	16QAM	50	0	19.04	19.18	19.04			
20	16QAM	50	24	19.09	19.14	19.12			
20	16QAM	50	50	19.16	19.05	19.07	20	0	
20	16QAM	100	0	19.05	19.11	18.97			
20	64QAM	1	0	18.98	19.18	19.03			
20	64QAM	1	49	19.00	19.09	19.00	20	0	
20	64QAM	1	99	19.06	19.00	19.00			
20	64QAM	50	0	19.04	19.19	19.04			
20	64QAM	50	24	19.08	19.13	19.12	20	0	
20	64QAM	50	50	19.04	19.17	19.03			
20	64QAM	100	0	19.05	19.11	19.04			
20	256QAM	1	0	18.67	18.76	18.66	19.5	0.5	
20	256QAM	1	49	18.61	18.78	18.69			
20	256QAM	1	99	18.63	18.66	18.63			
20	256QAM	50	0	18.62	18.67	18.61	19.5	0.5	
20	256QAM	50	24	18.56	18.64	18.60			
20	256QAM	50	50	18.58	18.62	18.62			
20	256QAM	100	0	18.63	18.69	18.55			
Channel				20825	21100	21375	20	0	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.09	19.18	19.07	20	0	
15	QPSK	1	37	19.02	18.96	19.05			
15	QPSK	1	74	18.95	19.04	19.02			
15	QPSK	36	0	19.00	19.11	19.11	20	0	
15	QPSK	36	20	19.04	19.08	19.07			
15	QPSK	36	39	18.96	18.99	19.06			
15	QPSK	75	0	19.00	18.95	18.96	20	0	
15	16QAM	1	0	18.85	19.01	18.87			
15	16QAM	1	37	18.95	19.03	18.88			
15	16QAM	1	74	19.00	18.99	18.83	20	0	
15	16QAM	36	0	18.94	19.08	19.02			
15	16QAM	36	20	19.00	19.05	19.05			
15	16QAM	36	39	19.08	18.95	19.00	20	0	
15	16QAM	75	0	18.95	19.04	18.95			
15	64QAM	1	0	18.97	19.10	19.00			
15	64QAM	1	37	18.92	19.03	18.88	20	0	
15	64QAM	1	74	19.01	18.92	18.99			
15	64QAM	36	0	18.98	19.10	18.99			
15	64QAM	36	20	19.97	19.10	19.07	20	0	
15	64QAM	36	39	18.93	19.12	18.95			
15	64QAM	75	0	18.98	19.05	19.02			
15	256QAM	1	0	18.96	18.71	18.54	19.5	0.5	
15	256QAM	1	37	18.52	18.69	18.58			
15	256QAM	1	74	18.54	18.55	18.57			
15	256QAM	36	0	18.56	18.57	18.52	19.5	0.5	
15	256QAM	36	20	18.54	18.57	18.55			
15	256QAM	36	39	18.52	18.48	18.56			
15	256QAM	75	0	18.53	18.66	18.48			
Channel				20800	21100	21400	20	0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	19.06	19.20	19.04	20	0	
10	QPSK	1	25	19.04	18.95	19.05			
10	QPSK	1	49	19.00	19.02	19.04			
10	QPSK	25	0	18.98	19.11	19.08	20	0	
10	QPSK	25	12	18.99	19.09	19.00			
10	QPSK	25	25	18.98	19.01	19.04			
10	QPSK	50	0	18.98	19.04	18.93	20	0	
10	16QAM	1	0	18.85	19.00	18.95			
10	16QAM	1	25	18.96	18.97	18.97			
10	16QAM	1	49	19.06	18.92	18.84	20	0	
10	16QAM	25	0	18.99	19.11	18.98			
10	16QAM	25	12	19.06	19.14	19.09			
10	16QAM	25	25	19.10	18.96	19.00	20	0	
10	16QAM	50	0	19.00	19.02	18.87			
10	64QAM	1	0	18.92	19.07	18.93			
10	64QAM	1	25	18.95	19.01	18.90	20	0	
10	64QAM	1	49	19.06	18.95	18.98			
10	64QAM	25	0	19.97	19.00	19.97			
10	64QAM	25	12	19.03	19.08	19.05	20	0	
10	64QAM	25	25	18.97	19.05	19.01			
10	64QAM	50	0	19.04	19.03	18.99			
10	256QAM	1	0	18.58	18.69	18.60	19.5	0.5	
10	256QAM	1	25	18.58	18.71	18.60			
10	256QAM	1	49	18.56	18.63	18.57			
10	256QAM	25	0	18.48	18.61	18.51	19.5	0.5	
10	256QAM	25	12	18.53	18.54	18.49			
10	256QAM	25	25	18.48	18.51	18.52			
10	256QAM	50	0	18.59	18.61	18.48			
Channel				20775	21100	21425	20	0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.07	19.18	19.07	20	0	
5	QPSK	1	12	19.00	18.96	19.05			
5	QPSK	1	24	18.90	18.98	19.00			
5	QPSK	12	0	18.97	19.16	19.12	20	0	
5	QPSK	12	7	18.99	19.12	19.10			
5	QPSK	12	13	18.98	19.05	19.08			
5	QPSK	25	0	18.93	18.98	18.94	20	0	
5	16QAM	1	0	18.96	18.97	18.93			
5	16QAM	1	12	19.02	19.07	18.94			
5	16QAM	1	24	18.97	19.00	18.78	20	0	
5	16QAM	12	0	18.98	19.11	18.92			
5	16QAM	12	7	19.08	19.05	19.09			
5	16QAM	12	13	19.16	19.00	19.01	20	0	
5	16QAM	25	0	18.97	19.10	18.88			
5	64QAM	1	0	18.94	19.17	18.96			
5	64QAM	1	12	18.93	19.02	18.91	20	0	
5	64QAM	1	24	18.99	18.92	18.99			
5	64QAM	12	0	18.93	19.16	19.00			
5	64QAM	12	7	19.00	19.03	19.02	20	0	
5	64QAM	12	13	18.93	19.11	18.95			
5	64QAM	25	0	18.95	19.10	19.00			
5	256QAM	1	0	18.58	18.70	18.63	19.5	0.5	
5	256QAM	1	12	18.48	18.75	18.62			
5	256QAM	1	24	18.59	18.54	18.56			
5	256QAM	12	0	18.54	18.55	18.49	19.5	0.5	
5	256QAM	12	7	18.46	18.54	18.50			
5	256QAM	12	13	18.53	18.52	18.57			
5	256QAM	25	0	18.55	18.66	18.42			

Band 5 Ant 4 DSI1 for ENDC										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	19.50	19.55	19.51	20.5	0		
10	QPSK	1	25	19.48	19.51	19.40				
10	QPSK	1	49	19.36	19.40	19.44				
10	QPSK	25	0	19.37	19.49	19.37	20.5	0		
10	QPSK	25	12	19.39	19.42	19.43				
10	QPSK	25	25	19.37	19.44	19.46				
10	QPSK	50	0	19.37	19.42	19.37	20.5	0		
10	16QAM	1	0	19.42	19.41	19.37				
10	16QAM	1	25	19.36	19.43	19.37				
10	16QAM	1	49	19.33	19.40	19.36	20.5	0		
10	16QAM	25	0	19.31	19.52	19.20				
10	16QAM	25	12	19.39	19.24	19.34				
10	16QAM	25	25	19.32	19.43	19.43	20.5	0		
10	16QAM	50	0	19.27	19.38	19.27				
10	64QAM	1	0	19.36	19.38	19.39				
10	64QAM	1	25	19.42	19.40	19.38	20.5	0		
10	64QAM	1	49	19.34	19.34	19.32				
10	64QAM	25	0	19.43	19.53	19.44				
10	64QAM	25	12	19.42	19.49	19.51	20.5	0		
10	64QAM	25	25	19.47	19.35	19.35				
10	64QAM	50	0	19.49	19.46	19.40				
10	256QAM	1	0	19.42	19.50	19.43	20.5	0		
10	256QAM	1	25	19.43	19.44	19.42				
10	256QAM	1	49	19.47	19.43	19.44				
10	256QAM	25	0	19.40	19.52	19.48	20.5	0		
10	256QAM	25	12	19.40	19.46	19.42				
10	256QAM	25	25	19.38	19.48	19.43				
10	256QAM	50	0	19.42	19.49	19.47				
Channel				20425	20525	20625				
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	19.47	19.52	19.43	20.5	0		
5	QPSK	1	12	19.40	19.48	19.31				
5	QPSK	1	24	19.34	19.29	19.39				
5	QPSK	12	0	19.33	19.38	19.31	20.5	0		
5	QPSK	12	7	19.34	19.34	19.41				
5	QPSK	12	13	19.31	19.34	19.39				
5	QPSK	25	0	19.32	19.33	19.27	20.5	0		
5	16QAM	1	0	19.37	19.31	19.26				
5	16QAM	1	12	19.26	19.31	19.30				
5	16QAM	1	24	19.31	19.39	19.26	20.5	0		
5	16QAM	12	0	19.20	19.41	19.12				
5	16QAM	12	7	19.35	19.21	19.32				
5	16QAM	12	13	19.29	19.32	19.37	20.5	0		
5	16QAM	25	0	19.18	19.36	19.17				
5	64QAM	1	0	19.27	19.28	19.28				
5	64QAM	1	12	19.30	19.34	19.37	20.5	0		
5	64QAM	1	24	19.25	19.23	19.23				
5	64QAM	12	0	19.31	19.43	19.43				
5	64QAM	12	7	19.34	19.47	19.42	20.5	0		
5	64QAM	12	13	19.42	19.23	19.23				
5	64QAM	25	0	19.46	19.38	19.38				
5	256QAM	1	0	19.37	19.43	19.33	20.5	0		
5	256QAM	1	12	19.41	19.35	19.33				
5	256QAM	1	24	19.41	19.35	19.34				
5	256QAM	12	0	19.31	19.40	19.38	20.5	0		
5	256QAM	12	7	19.30	19.44	19.41				
5	256QAM	12	13	19.28	19.40	19.33				
5	256QAM	25	0	19.33	19.48	19.42				
Channel				20415	20525	20635				
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	19.42	19.51	19.43	20.5	0		
3	QPSK	1	8	19.48	19.46	19.31				
3	QPSK	1	14	19.28	19.39	19.37				
3	QPSK	8	0	19.32	19.42	19.26	20.5	0		
3	QPSK	8	4	19.28	19.33	19.42				
3	QPSK	8	7	19.33	19.33	19.36				
3	QPSK	15	0	19.36	19.36	19.34	20.5	0		
3	16QAM	1	0	19.32	19.34	19.32				
3	16QAM	1	8	19.33	19.35	19.26				
3	16QAM	1	14	19.23	19.37	19.34	20.5	0		
3	16QAM	8	0	19.22	19.50	19.14				
3	16QAM	8	4	19.31	19.13	19.32				
3	16QAM	8	7	19.31	19.33	19.36	20.5	0		
3	16QAM	15	0	19.18	19.38	19.26				
3	64QAM	1	0	19.24	19.36	19.34				
3	64QAM	1	8	19.30	19.28	19.34	20.5	0		
3	64QAM	1	14	19.31	19.28	19.21				
3	64QAM	8	0	19.34	19.46	19.37				
3	64QAM	8	4	19.32	19.46	19.41	20.5	0		
3	64QAM	8	7	19.36	19.32	19.32				
3	64QAM	15	0	19.41	19.36	19.30				
3	256QAM	1	0	19.32	19.40	19.39	20.5	0		
3	256QAM	1	8	19.38	19.40	19.41				
3	256QAM	1	14	19.41	19.42	19.37				
3	256QAM	8	0	19.30	19.43	19.37	20.5	0		
3	256QAM	8	4	19.38	19.36	19.35				
3	256QAM	8	7	19.32	19.46	19.40				
3	256QAM	15	0	19.31	19.40	19.45				
Channel				20407	20525	20643				
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	19.40	19.53	19.50	20.5	0		
1.4	QPSK	1	3	19.47	19.50	19.29				
1.4	QPSK	1	5	19.30	19.38	19.38				
1.4	QPSK	3	0	19.32	19.38	19.30	20.5	0		
1.4	QPSK	3	1	19.34	19.40	19.38				
1.4	QPSK	3	3	19.30	19.41	19.39				
1.4	QPSK	6	0	19.27	19.34	19.36	20.5	0		
1.4	16QAM	1	0	19.31	19.38	19.31				
1.4	16QAM	1	3	19.35	19.35	19.36				
1.4	16QAM	1	5	19.25	19.31	19.28	20.5	0		
1.4	16QAM	3	0	19.27	19.51	19.14				
1.4	16QAM	3	1	19.35	19.16	19.32				
1.4	16QAM	3	3	19.31	19.42	19.42	20.5	0		
1.4	16QAM	6	0	19.19	19.35	19.20				
1.4	64QAM	1	0	19.35	19.38	19.31				
1.4	64QAM	1	3	19.41	19.38	19.29	20.5	0		
1.4	64QAM	1	5	19.32	19.34	19.22				
1.4	64QAM	3	0	19.42	19.42	19.40				
1.4	64QAM	3	1	19.31	19.46	19.47	20.5	0		
1.4	64QAM	3	3	19.43	19.29	19.24				
1.4	64QAM	6	0	19.46	19.35	19.36				
1.4	256QAM	1	0	19.41	19.47	19.42	20.5	0		
1.4	256QAM	1	3	19.33	19.38	19.33				
1.4	256QAM	1	5	19.41	19.40	19.36				
1.4	256QAM	3	0	19.31	19.45	19.48	20.5	0		
1.4	256QAM	3	1	19.28	19.35	19.40				
1.4	256QAM	3	3	19.36	19.37	19.32				
1.4	256QAM	6	0	19.40	19.38	19.44	20.5	0		

Reduced Power Mode for Main PA DSI2

GSM850 Ant 1 DSI 2	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	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM1 Tx slot	32.26	32.29	32.28	33.50	23.36	23.29	23.28	24.50
GPRS 1 Tx slot	32.24	32.26	32.24	33.50	23.24	23.26	23.24	24.50
GPRS 2 Tx slots	31.43	31.53	31.51	32.50	25.43	25.53	25.51	26.50
GPRS 3 Tx slots	29.67	29.75	29.77	31.00	25.41	25.49	25.51	26.74
GPRS 4 Tx slots	28.63	28.87	28.73	30.00	25.63	25.87	25.73	27.00
EDGE 1 Tx slot	26.87	26.99	26.94	28.00	17.87	17.99	17.94	19.00
EDGE 2 Tx slots	23.95	23.99	23.90	25.00	17.95	17.99	17.90	19.00
EDGE 3 Tx slots	22.09	22.15	22.13	23.20	17.83	17.89	17.87	18.84
EDGE 4 Tx slots	20.83	20.98	20.94	22.00	17.83	17.98	17.94	19.00

GSM1900 Ant 1 DSI 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.18	29.45	29.43	30.50	20.18	20.45	20.43	21.50
GPRS 1 Tx slot	29.31	29.38	29.36	30.50	20.31	20.38	20.36	21.50
GPRS 2 Tx slots	28.46	28.47	28.36	29.50	22.46	22.47	22.36	23.50
GPRS 3 Tx slots	26.74	26.73	26.67	28.00	22.48	22.47	22.41	23.74
GPRS 4 Tx slots	25.60	25.61	25.59	27.00	22.60	22.61	22.59	24.00
EDGE 1 Tx slot	25.84	25.90	25.81	27.00	16.84	16.90	16.81	18.00
EDGE 2 Tx slots	22.85	22.88	22.80	24.00	16.85	16.88	16.80	18.00
EDGE 3 Tx slots	21.02	21.08	21.01	22.20	16.76	16.82	16.75	17.94
EDGE 4 Tx slots	19.82	19.87	19.82	21.00	16.82	16.87	16.82	18.00

Band	TX Channel	WCDMA II Ant 1 DSI 2			Tune-up Limit (dBm)	WCDMA IV Ant 1 DSI 2			Tune-up Limit (dBm)	WCDMA V Ant 1 DSI 2			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.88	22.94	22.83	24.00	22.80	22.84	22.86	24.00	24.38	24.46	24.35	25.50
3GPP Rel 99	AMR 12.2Kbps	22.91	22.98	22.93	24.00	22.87	22.90	22.88	24.00	24.48	24.50	24.44	25.50
3GPP Rel 6	HSDPA Subtest-1	21.92	21.96	21.87	23.00	21.89	21.94	21.87	23.00	23.52	23.54	23.48	24.50
3GPP Rel 6	HSDPA Subtest-2	21.88	21.96	21.97	23.00	21.92	21.91	21.84	23.00	23.50	23.47	23.43	24.50
3GPP Rel 6	HSDPA Subtest-3	21.36	21.43	21.47	22.50	21.33	21.41	21.43	22.50	22.94	23.01	22.90	24.00
3GPP Rel 6	HSDPA Subtest-4	21.37	21.53	21.43	22.50	21.41	21.41	21.43	22.50	23.01	22.98	22.91	24.00
3GPP Rel 6	DCHSDPA Subtest-1	21.89	22.04	21.88	23.00	21.85	21.93	21.83	23.00	23.46	23.56	23.41	24.50
3GPP Rel 6	DCHSDPA Subtest-2	21.90	22.01	21.94	23.00	21.88	21.89	21.83	23.00	23.47	23.53	23.48	24.50
3GPP Rel 6	DCHSDPA Subtest-3	21.38	21.44	21.45	22.50	21.32	21.40	21.33	22.50	23.01	23.04	22.94	24.00
3GPP Rel 6	DCHSDPA Subtest-4	21.46	21.48	21.45	22.50	21.36	21.42	21.38	22.50	23.01	23.01	22.97	24.00
3GPP Rel 6	HSUPA Subtest-1	21.87	22.02	21.99	23.00	21.92	21.85	21.82	23.00	23.49	23.52	23.42	24.50
3GPP Rel 6	HSUPA Subtest-2	19.88	19.99	19.98	21.00	19.85	19.96	19.94	21.00	21.48	21.50	21.41	22.50
3GPP Rel 6	HSUPA Subtest-3	20.96	21.03	20.94	22.00	20.82	20.91	20.87	22.00	22.51	22.48	22.38	23.50
3GPP Rel 6	HSUPA Subtest-4	19.86	19.93	19.88	21.00	19.85	19.92	19.85	21.00	21.46	21.51	21.45	22.50
3GPP Rel 6	HSUPA Subtest-5	21.91	22.00	21.96	23.00	21.84	21.95	21.85	23.00	23.45	23.49	23.49	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.38	19.49	19.46	20.50	19.39	19.43	19.41	20.50	20.96	21.01	20.97	22.00



Band 2 Ant 1 DSI 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hg./Ch./F.Freq.	Power Lg./Ch./F.Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.95	22.95	22.92			
20	QPSK	1	48	22.95	22.95	22.92			
20	QPSK	1	96	22.95	22.95	22.92			
20	QPSK	50	0	21.93	22.00	21.97			
20	QPSK	50	24	21.93	22.00	21.97			
20	QPSK	50	48	21.93	22.00	21.98			
20	QPSK	100	0	21.92	21.98	21.89			
20	QPSK	100	48	21.94	21.94	21.87			
20	QPSK	1	48	21.82	21.87	21.84			
20	QPSK	1	96	21.80	21.80	21.77			
20	QPSK	1	144	21.80	21.81	21.80			
20	QPSK	50	24	20.87	20.90	20.88			
20	QPSK	50	48	20.87	20.90	20.88			
20	QPSK	100	0	20.86	20.90	20.90			
20	QPSK	100	48	20.89	20.89	20.89			
20	QPSK	1	96	19.86	19.86	19.83			
20	QPSK	1	144	19.86	19.86	19.83			
20	QPSK	50	24	18.81	18.85	18.83			
20	QPSK	50	48	18.81	18.85	18.85			
20	QPSK	100	0	18.79	18.80	18.85			
20	QPSK	100	48	18.77	18.80	18.85			
20	QPSK	1	96	17.82	17.80	17.82			
20	QPSK	1	144	17.82	17.80	17.82			
20	QPSK	50	24	16.78	16.80	16.82			
20	QPSK	50	48	16.78	16.80	16.82			
20	QPSK	100	0	16.77	16.80	16.82			
20	QPSK	100	48	16.77	16.80	16.82			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.82	22.83	22.88			
15	QPSK	1	48	22.82	22.83	22.88			
15	QPSK	1	96	22.84	22.84	22.84			
15	QPSK	50	0	21.82	21.85	21.88			
15	QPSK	50	24	21.84	21.85	21.84			
15	QPSK	50	48	21.87	21.88	21.78			
15	QPSK	100	0	21.80	21.84	21.78			
15	QPSK	100	48	21.80	21.84	21.78			
15	QPSK	1	96	21.72	21.85	21.76			
15	QPSK	1	144	21.72	21.85	21.76			
15	QPSK	50	24	20.78	20.87	20.75			
15	QPSK	50	48	20.78	20.87	20.75			
15	QPSK	100	0	20.76	20.87	20.82			
15	QPSK	100	48	20.76	20.87	20.82			
15	QPSK	1	96	19.85	19.91	19.82			
15	QPSK	1	144	19.85	19.91	19.82			
15	QPSK	50	24	18.81	18.85	18.82			
15	QPSK	50	48	18.81	18.85	18.82			
15	QPSK	100	0	18.79	18.80	18.85			
15	QPSK	100	48	18.79	18.80	18.85			
15	QPSK	1	96	17.82	17.82	17.81			
15	QPSK	1	144	17.82	17.82	17.81			
15	QPSK	50	24	16.78	16.80	16.82			
15	QPSK	50	48	16.78	16.80	16.82			
15	QPSK	100	0	16.77	16.80	16.82			
15	QPSK	100	48	16.77	16.80	16.82			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.81	22.81	22.81			
10	QPSK	1	48	22.82	22.82	22.81			
10	QPSK	1	96	22.84	22.84	22.84			
10	QPSK	50	0	21.82	21.85	21.88			
10	QPSK	50	24	21.84	21.85	21.84			
10	QPSK	50	48	21.87	21.88	21.78			
10	QPSK	100	0	21.80	21.84	21.78			
10	QPSK	100	48	21.80	21.84	21.78			
10	QPSK	1	96	21.72	21.85	21.76			
10	QPSK	1	144	21.72	21.85	21.76			
10	QPSK	50	24	20.78	20.87	20.75			
10	QPSK	50	48	20.78	20.87	20.75			
10	QPSK	100	0	20.76	20.87	20.82			
10	QPSK	100	48	20.76	20.87	20.82			
10	QPSK	1	96	19.85	19.91	19.82			
10	QPSK	1	144	19.85	19.91	19.82			
10	QPSK	50	24	18.81	18.85	18.82			
10	QPSK	50	48	18.81	18.85	18.82			
10	QPSK	100	0	18.79	18.80	18.85			
10	QPSK	100	48	18.79	18.80	18.85			
10	QPSK	1	96	17.82	17.82	17.81			
10	QPSK	1	144	17.82	17.82	17.81			
10	QPSK	50	24	16.78	16.80	16.82			
10	QPSK	50	48	16.78	16.80	16.82			
10	QPSK	100	0	16.77	16.80	16.82			
10	QPSK	100	48	16.77	16.80	16.82			

Band 4 Ant 1 DSI 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hg./Ch./F.Freq.	Power Lg./Ch./F.Freq.	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.78	22.83	22.81			
20	QPSK	1	48	22.78	22.83	22.81			
20	QPSK	1	96	22.78	22.83	22.81			
20	QPSK	50	0	22.69	22.79	22.78			
20	QPSK	50	24	22.69	22.79	22.78			
20	QPSK	50	48	22.70	22.74	22.78			
20	QPSK	100	0	22.66	22.76	22.73			
20	QPSK	100	48	22.68	22.71	22.76			
20	QPSK	1	48	22.59	22.63	22.68			
20	QPSK	1	96	22.56	22.61	22.70			
20	QPSK	1	144	22.56	22.61	22.70			
20	QPSK	50	24	21.61	21.74	21.71			
20	QPSK	50	48	21.61	21.74	21.71			
20	QPSK	100	0	21.56	21.73	21.69			
20	QPSK	100	48	21.57	21.66	21.61			
20	QPSK	1	96	21.49	21.56	21.61			
20	QPSK	1	144	21.49	21.56	21.61			
20	QPSK	50	24	20.67	20.70	20.80			
20	QPSK	50	48	20.67	20.70	20.80			
20	QPSK	100	0	20.63	20.78	20.75			
20	QPSK	100	48	20.65	20.69	20.80			
20	QPSK	1	96	19.72	19.74	19.75			
20	QPSK	1	144	19.72	19.74	19.75			
20	QPSK	50	24	18.72	18.74	18.75			
20	QPSK	50	48	18.72	18.74	18.75			
20	QPSK	100	0	18.70	18.77	18.73			
20	QPSK	100	48	18.70	18.74	18.80			
20	QPSK	1	96	17.78	17.87	17.83			
20	QPSK	1	144	17.78	17.87	17.83			
20	QPSK	50	24	16.80	16.87	16.75			
20	QPSK	50	48	16.80	16.87	16.75			
20	QPSK	100	0	16.87	16.84	16.81			
20	QPSK	100	48	16.87	16.84	16.81			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.72	22.76	22.73			
15	QPSK	1	48	22.72	22.76	22.73			
15	QPSK	1	96	22.77	22.77	22.74			
15	QPSK	1	144	22.77	22.77	22.74			
15	QPSK	50	0	22.63	22.73	22.74			
15	QPSK	50	24	22.63	22.62	22.66			
15	QPSK	50	48	22.65	22.63	22.68			
15	QPSK	100	0	22.54	22.64	22.61			
15	QPSK	100	48	22.54	22.68	22.62			
15	QPSK	1	96	22.52	22.52	22.54			
15	QPSK	1	144	22.52	22.52	22.54			
15	QPSK	50	24	21.58	21.67	21.69			
15	QPSK	50	48	21.58	21.67	21.69			
15	QPSK	100	0	21.56	21.58	21.75			
15	QPSK	100	48	21.57	21.59	21.68			
15	QPSK	1	96	21.49	21.58	21.61			
15	QPSK	1	144	21.49	21.58	21.61			
15	QPSK	50	24	20.65	20.67	20.72			
15	QPSK	50	48	20.65	20.69	20.80			
15	QPSK	100	0	20.63	20.69	20.71			
15	QPSK	100	48	20.65	20.69	20.80			
15	QPSK	1	9						



Band 12 Ant 1 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.30	24.45	24.37			25.5	0
10	QPSK	1	25	24.30	24.45	24.37			25.5	0
10	QPSK	1	49	24.31	24.34	24.24			24.5	1
10	QPSK	25	0	23.42	23.45	23.37			24.5	1
10	QPSK	25	25	23.32	23.35	23.26			24.5	1
10	QPSK	25	25	23.34	23.37	23.20			24.5	1
10	QPSK	50	0	23.35	23.42	23.35			24.5	1
10	QPSK	50	25	23.27	23.40	23.33			24.5	1
10	16QAM	1	25	23.45	23.40	23.28			24.5	1
10	16QAM	1	49	23.35	23.28	23.25			24.5	1
10	16QAM	1	49	23.47	22.41	23.32			23.5	2
10	16QAM	25	12	22.33	22.42	22.33			23.5	2
10	16QAM	25	25	22.29	22.27	22.26			23.5	2
10	16QAM	25	25	22.30	22.45	22.31			23.5	2
10	16QAM	1	0	22.39	22.42	22.35			23.5	2
10	16QAM	1	25	22.42	22.37	22.28			23.5	2
10	16QAM	1	49	22.36	22.35	22.33			23.5	2
10	16QAM	25	0	21.41	21.48	21.34			22.5	3
10	16QAM	25	12	21.28	21.36	21.24			22.5	3
10	16QAM	25	25	21.35	21.38	21.17			22.5	3
10	16QAM	50	0	21.29	21.45	21.34			22.5	3
10	256QAM	1	25	19.44	19.42	19.42			20.5	5
10	256QAM	1	49	19.39	19.40	19.28			20.5	5
10	256QAM	1	49	19.39	19.32	19.28			20.5	5
10	256QAM	25	12	19.35	19.39	19.34			20.5	5
10	256QAM	25	25	19.41	19.45	19.28			20.5	5
10	256QAM	25	25	19.41	19.45	19.28			20.5	5
Channel										
Frequency (MHz)										
8	QPSK	1	0	24.30	24.43	24.29			25.5	0
8	QPSK	1	24	24.24	24.26	24.16			25.5	0
8	QPSK	1	24	24.24	24.26	24.16			25.5	0
8	QPSK	12	0	23.38	23.31	23.27			24.5	1
8	QPSK	12	7	23.30	23.29	23.18			24.5	1
8	QPSK	12	13	23.24	23.28	23.13			24.5	1
8	QPSK	25	0	23.22	23.32	23.22			24.5	1
8	QPSK	25	25	23.24	23.36	23.26			24.5	1
8	16QAM	1	12	23.20	23.27	23.15			24.5	1
8	16QAM	1	24	23.14	23.28	23.12			24.5	1
8	16QAM	12	7	22.27	22.34	22.23			23.5	2
8	16QAM	12	13	22.30	22.31	22.12			23.5	2
8	16QAM	25	0	22.22	22.41	22.26			23.5	2
8	16QAM	25	0	22.28	22.34	22.23			23.5	2
8	16QAM	1	0	22.27	22.29	22.21			23.5	2
8	16QAM	1	24	22.29	22.31	22.11			23.5	2
8	16QAM	1	24	22.25	22.21	22.17			23.5	2
8	16QAM	12	0	21.38	21.40	21.24			22.5	3
8	16QAM	12	7	21.22	21.35	21.18			22.5	3
8	16QAM	12	13	21.24	21.27	21.13			22.5	3
8	16QAM	25	0	21.28	21.28	21.28			22.5	3
8	256QAM	1	12	19.38	19.31	19.26			20.5	5
8	256QAM	1	24	19.25	19.28	19.20			20.5	5
8	256QAM	1	24	19.25	19.28	19.20			20.5	5
8	256QAM	12	7	19.32	19.35	19.28			20.5	5
8	256QAM	12	13	19.27	19.43	19.43			20.5	5
8	256QAM	25	0	19.27	19.30	19.27			20.5	5
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.24	24.24	24.14			25.5	0
3	QPSK	1	14	24.21	24.27	24.18			25.5	0
3	QPSK	1	14	24.21	24.27	24.18			25.5	0
3	QPSK	8	4	23.25	23.35	23.21			24.5	1
3	QPSK	8	7	23.27	23.30	23.14			24.5	1
3	QPSK	1	0	23.26	23.28	23.25			24.5	1
3	16QAM	1	8	23.32	23.34	23.34			24.5	1
3	16QAM	1	8	23.35	23.27	23.25			24.5	1
3	16QAM	8	4	22.25	22.30	22.18			23.5	2
3	16QAM	8	4	22.24	22.30	22.12			23.5	2
3	16QAM	15	0	22.21	22.40	22.24			23.5	2
3	16QAM	1	0	22.27	22.30	22.25			23.5	2
3	16QAM	1	8	22.28	22.27	22.16			23.5	2
3	16QAM	1	14	22.29	22.18	22.11			23.5	2
3	16QAM	8	0	21.39	21.44	21.32			22.5	3
3	16QAM	8	7	21.26	21.33	21.10			22.5	3
3	16QAM	15	0	21.16	21.22	21.28			22.5	3
3	256QAM	1	8	19.22	19.29	19.18			20.5	5
3	256QAM	1	14	19.37	19.22	19.19			20.5	5
3	256QAM	8	4	19.28	19.27	19.27			20.5	5
3	256QAM	8	7	19.34	19.41	19.14			20.5	5
3	256QAM	15	0	19.24	19.24	19.12			20.5	5
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.32	24.33	24.33			25.5	0
1.4	QPSK	1	3	24.24	24.31	24.13			25.5	0
1.4	QPSK	1	3	24.28	24.24	24.12			25.5	0
1.4	QPSK	3	0	24.22	24.24	24.22			24.5	1
1.4	QPSK	3	1	24.17	24.26	24.07			24.5	1
1.4	QPSK	3	3	24.25	24.15	24.06			24.5	1
1.4	16QAM	1	0	23.28	23.32	23.32			24.5	1
1.4	16QAM	1	3	23.30	23.30	23.19			24.5	1
1.4	16QAM	1	3	23.24	23.25	23.19			24.5	1
1.4	16QAM	3	0	23.15	23.29	23.21			24.5	1
1.4	16QAM	3	1	23.14	23.28	23.28			24.5	1
1.4	16QAM	6	0	22.17	22.40	22.21			23.5	2
1.4	16QAM	1	0	22.25	22.38	22.26			23.5	2
1.4	16QAM	1	3	22.30	22.24	22.19			23.5	2
1.4	16QAM	1	6	22.31	22.17	22.15			23.5	2
1.4	16QAM	3	0	22.06	22.29	22.09			23.5	2
1.4	16QAM	3	0	22.18	22.32	22.15			23.5	2
1.4	16QAM	3	3	22.23	22.12	22.15			23.5	2
1.4	16QAM	6	0	21.19	21.32	21.27			22.5	3
1.4	256QAM	1	0	19.20	19.29	19.24			20.5	5
1.4	256QAM	3	0	19.20	19.29	19.24			20.5	5
1.4	256QAM	3	1	19.24	19.41	19.12			20.5	5
1.4	256QAM	15	0	19.21	19.16	19.12			20.5	5

Band 13 Ant 1 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.49					25.5	0
10	QPSK	1	25	24.38					25.5	0
10	QPSK	1	49	24.37					24.5	1
10	QPSK	25	0	23.46					24.5	1
10	QPSK	25	12	23.42					24.5	1
10	QPSK	25	25	23.34					24.5	1
10	QPSK	50	0	23.41					24.5	1
10	QPSK	50	25	23.34					24.5	1
10	16QAM	1	25	23.42					24.5	1
10	16QAM	1	49	23.32					24.5	1
10	16QAM	1	49	22.43					23.5	2
10	16QAM	25	12	22.40					23.5	2
10	16QAM	25	25	22.28					23.5	2
10	16QAM	25	25	22.48					23.5	2
10	16QAM	1	0	22.39					23.5	2
10	16QAM	1	25	22.33					23.5	2
10	16QAM	1	49	22.27					23.5	2
10	16QAM	25	0	21.44					22.5	3
10	16QAM	25	12	21.31					22.5	3
10	16QAM	25	25	21.30					22.5	3
10	16QAM	50	0	21.40					22.5	3

Band 66 Ant 1 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dB)	MPE (dB)		
Channel										
				1700	1745	1775				
20	QPSK	1	0	22.84	22.91	22.95				
20	QPSK	1	49	22.73	22.85	22.75	24	0		
20	QPSK	1	99	22.73	22.76	22.87				
20	QPSK	50	0	22.71	22.83	22.86				
20	QPSK	50	-24	22.78	22.78	22.84	24	0		
20	QPSK	50	50	22.73	22.75	22.83				
20	QPSK	100	0	22.68	22.85	22.75				
20	HQAM	1	0	22.68	22.79	22.75				
20	HQAM	1	49	22.83	22.66	22.66	24	0		
20	HQAM	1	99	22.73	22.71	22.73				
20	HQAM	50	0	21.65	21.80	21.68				
20	HQAM	50	24	21.70	21.70	21.83	23	1		
20	HQAM	50	50	21.83	21.79	21.86				
20	HQAM	100	0	21.80	21.82	21.78				
20	HQAM	1	0	21.54	21.84	21.73				
20	HQAM	1	49	21.64	21.71	21.70	23	1		
20	HQAM	1	99	21.78	21.74	21.78				
20	HQAM	50	0	20.78	20.95	20.90				
20	HQAM	50	24	20.86	20.79	20.84	22	2		
20	HQAM	50	50	20.85	20.77	20.87				
20	HQAM	100	0	20.68	20.83	20.82				
20	SSBQAM	1	0	18.75	18.78	18.86				
20	SSBQAM	1	49	18.75	18.80	18.78	20	4		
20	SSBQAM	1	99	18.89	18.88	18.82				
20	SSBQAM	50	0	18.75	18.91	18.75				
20	SSBQAM	50	-24	18.85	18.78	18.75	20	4		
20	SSBQAM	50	50	18.67	18.74	18.67				
20	SSBQAM	100	0	18.72	18.65	18.63				
Channel										
				15247	15232	15269				
Channel										
				1717.5	1745	1772.5				
15	QPSK	1	0	22.80	22.77	22.86				
15	QPSK	1	37	22.83	22.74	22.71	24	0		
15	QPSK	1	74	22.81	22.67	22.81				
15	QPSK	96	0	22.65	22.77	22.79				
15	QPSK	96	20	22.72	22.71	22.60	24	0		
15	QPSK	96	39	22.60	22.64	22.74				
15	QPSK	75	0	22.56	22.71	22.71				
15	HQAM	1	0	22.54	22.73	22.70				
15	HQAM	1	37	22.60	22.53	22.54	24	0		
15	HQAM	1	74	22.70	22.63	22.71				
15	HQAM	96	0	21.54	21.87	21.77				
15	HQAM	96	20	21.64	21.64	21.75	23	1		
15	HQAM	96	39	21.75	21.74	21.73				
15	HQAM	75	0	21.77	21.79	21.64				
15	HQAM	1	0	21.43	21.70	21.69				
15	HQAM	1	37	21.57	21.66	21.68	23	1		
15	HQAM	1	74	21.55	21.65	21.73				
15	HQAM	96	0	20.88	20.88	20.76				
15	HQAM	96	20	20.73	20.58	20.77	22	2		
15	HQAM	96	39	20.52	20.67	20.74				
15	HQAM	75	0	20.56	20.78	20.76				
15	SSBQAM	1	0	18.69	18.54	18.68				
15	SSBQAM	1	37	18.74	18.78	18.74	20	4		
15	SSBQAM	1	74	18.83	18.74	18.78				
15	SSBQAM	96	0	18.72	18.85	18.83				
15	SSBQAM	96	20	18.59	18.68	18.65	20	4		
15	SSBQAM	96	39	18.44	18.88	18.62				
15	SSBQAM	75	0	18.67	18.60	18.73				
Channel										
				15292	15232	15269				
Channel										
				1715	1745	1775				
10	QPSK	1	0	22.74	22.68	22.67				
10	QPSK	1	25	22.59	22.81	22.63	24	0		
10	QPSK	1	49	22.70	22.64	22.83				
10	QPSK	85	0	22.68	22.78	22.77				
10	QPSK	85	12	22.71	22.70	22.75	24	0		
10	QPSK	25	25	22.80	22.69	22.80				
10	QPSK	80	0	22.80	22.73	22.77				
10	HQAM	1	0	22.55	22.68	22.67				
10	HQAM	1	25	22.54	22.58	22.62	24	0		
10	HQAM	1	49	22.66	22.61	22.66				
10	HQAM	25	0	21.82	21.73	21.80				
10	HQAM	25	12	21.67	21.63	21.77	23	1		
10	HQAM	80	0	21.74	21.68	21.73				
10	HQAM	50	0	21.74	21.79	21.69				
10	HQAM	1	0	21.46	21.74	21.68				
10	HQAM	1	25	21.51	21.62	21.62	23	1		
10	HQAM	1	49	21.65	21.61	21.73				
10	HQAM	25	0	20.75	20.86	20.80				
10	HQAM	25	12	20.72	20.85	20.81	22	2		
10	HQAM	25	25	20.82	20.68	20.81				
10	HQAM	50	0	20.64	20.77	20.78				
10	SSBQAM	1	0	18.65	18.65	18.63				
10	SSBQAM	1	25	18.62	18.72	18.69	20	4		
10	SSBQAM	1	49	18.67	18.85	18.75				
10	SSBQAM	25	0	18.72	18.86	18.68				
10	SSBQAM	25	12	18.59	18.68	18.64	20	4		
10	SSBQAM	25	25	18.53	18.60	18.55				
10	SSBQAM	50	0	18.68	18.59	18.60				
Channel										
				15197	15232	15269				
Channel										
				1712.5	1745	1772.5				
5	QPSK	1	0	22.73	22.78	22.67				
5	QPSK	1	12	22.58	22.71	22.73	24	0		
5	QPSK	1	24	22.67	22.82	22.84				
5	QPSK	13	0	22.59	22.74	22.78				
5	QPSK	12	7	22.73	22.65	22.77	24	0		
5	QPSK	12	13	22.70	22.82	22.80				
5	QPSK	85	0	22.61	22.81	22.70				
5	HQAM	1	0	22.56	22.69	22.67				
5	HQAM	1	12	22.52	22.53	22.55	24	0		
5	HQAM	1	24	22.71	22.65	22.71				
5	HQAM	12	0	21.83	21.69	21.78				
5	HQAM	12	7	21.64	21.61	21.71	23	1		
5	HQAM	12	13	21.78	21.77	21.70				
5	HQAM	25	0	21.66	21.70	21.78				
5	HQAM	1	0	21.50	21.75	21.67				
5	HQAM	1	12	21.51	21.62	21.62	23	1		
5	HQAM	1	24	21.66	21.54	21.66				
5	HQAM	12	0	20.69	20.92	20.82				
5	HQAM	12	7	20.75	20.82	20.81	22	2		
5	HQAM	12	13	20.78	20.71	20.79				
5	HQAM	25	0	20.59	20.70	20.70				
5	SSBQAM	1	0	18.68	18.70	18.62				
5	SSBQAM	1	12	18.65	18.67	18.70	20	4		
5	SSBQAM	1	24	18.85	18.80	18.77				
5	SSBQAM	12	0	18.64	18.78	18.64				
5	SSBQAM	12	7	18.63	18.75	18.63	20	4		
5	SSBQAM	12	13	18.44	18.62	18.65				
5	SSBQAM	25	0	18.69	18.81	18.77				
Channel										
				15168	15232	15269				
Channel										
				1712.5	1745	1772.5				
3	QPSK	1	0	22.73	22.85	22.75				
3	QPSK	1	8	22.82	22.81	22.68	24	0		
3	QPSK	1	14	22.61	22.84	22.76				
3	QPSK	8	0	22.69	22.70	22.77				
3	QPSK	8	4	22.67	22.70	22.80	24	0		
3	QPSK	8	7	22.83	22.83	22.78				
3	QPSK	15	0	22.59	22.80	22.72				
3	HQAM	1	0	22.65	22.74	22.66				
3	HQAM	1	8	22.83	22.62	22.64	24	0		
3	HQAM	1	14	22.83	22.59	2				

GSM850 Ant 4 DSI 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	835.4	846.8	824.2	835.4	846.8	846.8	24.50
GSM1 Tx slot	32.40	32.46	32.45	33.50	23.40	23.46	23.45	24.50
GPRS 1 Tx slot	32.40	32.41	32.38	33.50	23.40	23.41	23.38	24.50
GPRS 2 Tx slots	31.45	31.36	31.31	32.50	25.45	25.36	25.31	26.50
GPRS 3 Tx slots	29.67	29.61	29.61	31.00	25.41	25.35	25.35	26.74
GPRS 4 Tx slots	28.73	28.79	28.68	30.00	25.73	25.79	25.68	27.00
EDGE 1 Tx slot	26.86	26.93	26.89	28.00	17.86	17.93	17.89	19.00
EDGE 2 Tx slots	23.82	23.96	23.90	25.00	17.82	17.96	17.90	19.00
EDGE 3 Tx slots	22.08	22.11	22.07	23.20	17.82	17.85	17.81	18.94
EDGE 4 Tx slots	20.89	20.93	20.84	22.00	17.89	17.93	17.84	19.00

GSM1900 Ant 4 DSI 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1650.2	1680	1909.8	1650.2	1680	1909.8	1909.8	20.50
GSM1 Tx slot	28.42	28.54	28.51	29.50	19.42	19.54	19.51	20.50
GPRS 1 Tx slot	28.38	28.50	28.46	29.50	19.38	19.50	19.46	20.50
GPRS 2 Tx slots	27.64	27.99	27.73	28.50	21.64	21.59	21.73	22.50
GPRS 3 Tx slots	25.83	25.83	25.95	27.00	21.57	21.57	21.69	22.74
GPRS 4 Tx slots	24.80	24.89	24.87	26.00	21.80	21.89	21.87	23.00
EDGE 1 Tx slot	24.82	24.87	24.83	26.00	15.82	15.87	15.83	17.00
EDGE 2 Tx slots	21.81	21.92	21.79	23.00	15.81	15.92	15.79	17.00
EDGE 3 Tx slots	20.03	20.07	20.02	21.20	15.77	15.81	15.76	16.94
EDGE 4 Tx slots	18.88	18.87	18.87	20.00	15.88	15.87	15.87	17.00

Band	WCDMA II Ant 4 DSI 2			Tune-up Limit (dBm)	WCDMA IV Ant 4 DSI 2			Tune-up Limit (dBm)	WCDMA V Ant 4 DSI 2			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938	1537	1638	1738	1838	4357	4407	4458	4558		
Frequency (MHz)	1652.4	1680	1907.6	1712.4	1732.6	1752.6	1752.6	826.4	836.4	846.6	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.51	22.53	22.45	23.50	22.65	22.75	22.66	23.50	24.31	24.44	24.29	25.50
3GPP Rel 99	AMR 12.2Kbps	22.58	22.66	22.57	23.50	22.80	22.81	22.74	23.50	24.45	24.48	24.41	25.50
3GPP Rel 6	HSDPA Subtest-1	21.52	21.66	21.61	22.50	21.79	21.81	21.76	22.50	23.48	23.50	23.39	24.50
3GPP Rel 6	HSDPA Subtest-2	21.58	21.64	21.59	22.50	21.77	21.83	21.79	22.50	23.50	23.49	23.35	24.50
3GPP Rel 6	HSDPA Subtest-3	21.08	21.21	21.02	22.00	21.29	21.37	21.26	22.00	22.92	23.04	22.94	24.00
3GPP Rel 6	HSDPA Subtest-4	21.06	21.11	21.09	22.00	21.27	21.28	21.26	22.00	22.91	22.93	22.90	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.60	21.62	21.56	22.50	21.85	21.76	21.79	22.50	23.40	23.48	23.44	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.53	21.62	21.61	22.50	21.86	21.80	21.75	22.50	23.46	23.45	23.45	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.94	21.22	21.92	22.00	21.27	21.37	21.24	22.00	23.00	22.94	22.87	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.10	21.13	21.08	22.00	21.29	21.33	21.22	22.00	22.99	22.93	22.95	24.00
3GPP Rel 6	HSUPA Subtest-1	21.62	21.71	21.56	22.50	21.79	21.77	21.72	22.50	23.49	23.48	23.44	24.50
3GPP Rel 6	HSUPA Subtest-2	19.57	19.72	19.55	20.50	19.84	19.81	19.76	20.50	21.44	21.48	21.44	22.50
3GPP Rel 6	HSUPA Subtest-3	20.59	20.66	20.55	21.50	20.79	20.81	20.76	21.50	22.48	22.53	22.43	23.50
3GPP Rel 6	HSUPA Subtest-4	19.60	19.70	19.57	20.50	19.78	19.80	19.79	20.50	21.50	21.49	21.35	22.50
3GPP Rel 6	HSUPA Subtest-5	21.56	21.71	21.60	22.50	21.80	21.81	21.73	22.50	23.44	23.52	23.41	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.09	19.14	19.06	20.00	19.25	19.36	19.25	20.00	20.93	21.04	20.85	22.00

Band 7 Ant 3 DSI 2									
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	0	23.88	23.75	23.66	24.5	0	
20	QPSK	1	49	23.56	23.71	23.63			
20	QPSK	1	99	23.61	23.66	23.57			
20	QPSK	50	0	22.69	22.76	22.71	23.5	1	
20	QPSK	50	24	22.56	22.68	22.63			
20	QPSK	50	50	22.62	22.64	22.62			
20	QPSK	100	0	22.63	22.75	22.64	23.5	1	
20	16QAM	1	0	22.64	22.73	22.69			
20	16QAM	1	49	22.50	22.73	22.62			
20	16QAM	1	99	22.59	22.69	22.58	22.5	2	
20	16QAM	50	0	21.69	21.80	21.67			
20	16QAM	50	24	21.58	21.66	21.67			
20	16QAM	50	50	21.60	21.64	21.58	22.5	2	
20	16QAM	100	0	21.62	21.80	21.60			
20	64QAM	1	0	21.67	21.79	21.65			
20	64QAM	1	49	21.52	21.78	21.63	22.5	2	
20	64QAM	1	99	21.67	21.72	21.61			
20	64QAM	50	0	20.71	20.75	20.74			
20	64QAM	50	24	20.51	20.74	20.67	21.5	3	
20	64QAM	50	50	20.65	20.59	20.64			
20	64QAM	100	0	20.59	20.73	20.66			
20	256QAM	1	0	18.73	18.72	18.68	19.5	5	
20	256QAM	1	49	18.55	18.66	18.67			
20	256QAM	1	99	18.59	18.65	18.62			
20	256QAM	50	0	18.67	18.70	18.64	19.5	5	
20	256QAM	50	24	18.64	18.71	18.74			
20	256QAM	50	50	18.46	18.77	18.67			
20	256QAM	100	0	18.56	18.71	18.58			
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	23.56	23.63	23.57	24.5	0	
15	QPSK	1	37	23.48	23.58	23.53			
15	QPSK	1	74	23.54	23.54	23.48			
15	QPSK	36	0	22.67	22.66	22.61	23.5	1	
15	QPSK	36	20	22.50	22.67	22.51			
15	QPSK	36	39	22.53	22.57	22.49			
15	QPSK	75	0	22.55	22.65	22.59	23.5	1	
15	16QAM	1	0	22.56	22.69	22.63			
15	16QAM	1	37	22.42	22.65	22.55			
15	16QAM	1	74	22.46	22.65	22.53	22.5	2	
15	16QAM	36	0	21.60	21.74	21.57			
15	16QAM	36	20	21.56	21.63	21.56			
15	16QAM	36	39	21.47	21.61	21.44	22.5	2	
15	16QAM	75	0	21.52	21.78	21.50			
15	64QAM	1	0	21.61	21.71	21.59			
15	64QAM	1	37	21.49	21.68	21.58	22.5	2	
15	64QAM	1	74	21.46	21.65	21.47			
15	64QAM	36	0	20.82	20.69	20.72			
15	64QAM	36	20	20.48	20.63	20.54	21.5	3	
15	64QAM	36	39	20.54	20.49	20.53			
15	64QAM	75	0	20.49	20.64	20.60			
15	256QAM	1	0	18.60	18.70	18.62	19.5	5	
15	256QAM	1	37	18.45	18.58	18.57			
15	256QAM	1	74	18.55	18.63	18.51			
15	256QAM	36	0	18.65	18.61	18.61	19.5	5	
15	256QAM	36	20	18.51	18.57	18.69			
15	256QAM	36	39	18.41	18.67	18.61			
15	256QAM	75	0	18.46	18.61	18.49			
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	0	23.57	23.71	23.52	24.5	0	
10	QPSK	1	25	23.48	23.63	23.52			
10	QPSK	1	49	23.56	23.62	23.44			
10	QPSK	25	0	22.62	22.65	22.60	23.5	1	
10	QPSK	25	12	22.54	22.64	22.59			
10	QPSK	25	25	22.56	22.52	22.58			
10	QPSK	50	0	22.56	22.69	22.62	23.5	1	
10	16QAM	1	0	22.52	22.60	22.66			
10	16QAM	1	25	22.39	22.65	22.57			
10	16QAM	1	49	22.54	22.67	22.49	22.5	2	
10	16QAM	25	0	21.60	21.73	21.60			
10	16QAM	25	12	21.48	21.67	21.64			
10	16QAM	25	25	21.57	21.57	21.55	22.5	2	
10	16QAM	50	0	21.62	21.78	21.48			
10	64QAM	1	0	21.64	21.67	21.60			
10	64QAM	1	25	21.49	21.74	21.59	22.5	2	
10	64QAM	1	49	21.43	21.63	21.57			
10	64QAM	25	0	20.88	20.73	20.70			
10	64QAM	25	12	20.39	20.61	20.64	21.5	3	
10	64QAM	25	25	20.58	20.47	20.61			
10	64QAM	50	0	20.47	20.64	20.62			
10	256QAM	1	0	18.71	18.62	18.59	19.5	5	
10	256QAM	1	25	18.53	18.56	18.64			
10	256QAM	1	49	18.47	18.54	18.48			
10	256QAM	25	0	18.55	18.58	18.62	19.5	5	
10	256QAM	25	12	18.62	18.68	18.69			
10	256QAM	25	25	18.44	18.65	18.54			
10	256QAM	50	0	18.49	18.69	18.51			
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	23.65	23.72	23.61	24.5	0	
5	QPSK	1	12	23.48	23.67	23.51			
5	QPSK	1	24	23.54	23.61	23.44			
5	QPSK	12	0	22.59	22.65	22.67	23.5	1	
5	QPSK	12	7	22.46	22.56	22.57			
5	QPSK	12	13	22.53	22.57	22.50			
5	QPSK	25	0	22.53	22.62	22.61	23.5	1	
5	16QAM	1	0	22.56	22.61	22.65			
5	16QAM	1	12	22.41	22.61	22.56			
5	16QAM	1	24	22.47	22.56	22.46	22.5	2	
5	16QAM	12	0	21.60	21.71	21.64			
5	16QAM	12	7	21.45	21.63	21.59			
5	16QAM	12	13	21.55	21.61	21.55	22.5	2	
5	16QAM	25	0	21.49	21.72	21.47			
5	64QAM	1	0	21.63	21.66	21.63			
5	64QAM	1	12	21.40	21.71	21.53	22.5	2	
5	64QAM	1	24	21.50	21.61	21.53			
5	64QAM	12	0	20.57	20.73	20.70			
5	64QAM	12	7	20.40	20.64	20.54	21.5	3	
5	64QAM	12	13	20.53	20.47	20.51			
5	64QAM	25	0	20.54	20.70	20.63			
5	256QAM	1	0	18.71	18.65	18.62	19.5	5	
5	256QAM	1	12	18.62	18.55	18.57			
5	256QAM	1	24	18.64	18.63	18.63			
5	256QAM	12	0	18.62	18.65	18.59	19.5	5	
5	256QAM	12	7	18.50	18.64	18.65			
5	256QAM	12	13	18.34	18.74	18.63			
5	256QAM	25	0	18.46	18.60	18.47			



Band 2 Ant 4 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.08	22.13	21.97			23	0
20	QPSK	1	66	22.03	22.11	21.91				
20	QPSK	50	0	21.96	21.98	21.92				
20	QPSK	50	24	21.94	21.94	21.94				
20	QPSK	50	50	21.92	21.96	21.97			23	1
20	QPSK	100	0	20.98	21.08	20.95				
20	QPSK	100	0	21.95	21.17	20.95				
20	16QAM	1	48	21.11	21.11	20.87				
20	16QAM	1	96	21.07	21.06	20.87				
20	16QAM	50	0	20.92	20.99	19.97				
20	16QAM	50	24	19.99	20.04	19.96			21	2
20	16QAM	50	50	19.98	20.03	19.93				
20	16QAM	100	0	19.99	20.09	19.95				
20	64QAM	1	0	20.98	20.94	19.95				
20	64QAM	1	48	20.11	20.12	19.98			21	2
20	64QAM	1	96	20.02	20.05	19.97				
20	64QAM	50	0	19.99	19.98	19.92				
20	64QAM	50	24	19.92	19.96	19.97				
20	64QAM	50	50	19.98	19.97	19.99			20	3
20	256QAM	1	0	17.94	17.97	16.92				
20	256QAM	1	96	16.99	17.07	16.96			18	5
20	256QAM	50	0	17.94	17.95	16.92				
20	256QAM	50	24	17.95	17.95	16.83				
20	256QAM	50	50	16.98	17.06	16.84			18	5
20	256QAM	100	0	17.93	17.99	16.92				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.98	22.12	21.97			23	0
15	QPSK	1	74	22.07	22.07	21.83				
15	QPSK	30	0	21.04	21.06	20.98				
15	QPSK	30	24	21.03	21.04	20.91				
15	QPSK	30	50	20.93	21.00	20.93			22	1
15	QPSK	75	0	20.91	21.03	20.91				
15	16QAM	1	37	21.03	21.10	20.83			22	1
15	16QAM	1	74	21.01	21.08	20.82				
15	16QAM	30	0	19.90	20.03	19.90				
15	16QAM	30	24	20.02	20.02	19.87				
15	16QAM	30	50	19.94	19.96	19.84				
15	64QAM	1	0	20.00	20.12	19.92			21	2
15	64QAM	1	37	20.00	20.07	19.88				
15	64QAM	1	74	19.92	20.14	19.95				
15	64QAM	30	0	18.93	18.98	18.95				
15	64QAM	30	24	18.98	18.99	18.92				
15	64QAM	30	50	18.95	18.95	18.93			20	3
15	64QAM	75	0	18.89	18.93	18.88				
15	256QAM	1	0	17.94	17.97	16.92				
15	256QAM	1	37	17.94	18.07	16.78			18	5
15	256QAM	1	74	16.97	17.04	16.84				
15	256QAM	30	0	16.92	17.02	16.78			18	5
15	256QAM	30	24	16.92	16.94	16.88				
15	256QAM	30	50	17.00	17.07	16.88				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.09	22.09	21.90			23	0
10	QPSK	1	25	22.07	22.09	21.79				
10	QPSK	1	49	21.96	22.09	21.86				
10	QPSK	25	0	21.91	21.91	21.87				
10	QPSK	25	12	21.91	21.96	20.93			22	1
10	QPSK	25	25	20.93	21.03	20.93				
10	16QAM	1	0	21.00	21.08	20.90				
10	16QAM	1	25	21.09	21.03	20.82			22	1
10	16QAM	1	49	20.94	20.79	20.88				
10	16QAM	25	0	19.91	20.00	19.90				
10	16QAM	25	12	19.98	20.02	19.88			21	2
10	16QAM	25	25	19.91	19.91	19.85				
10	64QAM	1	0	19.94	20.00	19.93				
10	64QAM	1	0	19.97	20.09	19.93			21	2
10	64QAM	1	25	19.95	20.10	19.93				
10	64QAM	25	0	18.99	19.06	19.00				
10	64QAM	25	12	18.98	18.96	18.92			20	3
10	64QAM	25	25	18.95	18.93	18.92				
10	256QAM	1	0	17.91	17.91	16.84				
10	256QAM	1	49	16.97	17.01	16.84			18	5
10	256QAM	25	0	16.98	17.01	16.84				
10	256QAM	25	12	17.02	17.07	16.84			18	5
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.09	22.09	21.90			23	0
5	QPSK	1	24	22.05	22.07	21.82				
5	QPSK	12	0	20.94	21.00	20.84				
5	QPSK	12	13	21.01	21.02	20.84			22	1
5	QPSK	12	25	20.94	21.07	20.87				
5	16QAM	1	0	21.02	21.05	20.81				
5	16QAM	1	12	21.08	21.00	20.81			22	1
5	16QAM	1	24	20.97	20.93	20.83				
5	16QAM	12	0	19.97	20.05	19.92				
5	16QAM	12	7	19.91	19.93	19.88			21	2
5	16QAM	12	13	19.94	19.97	19.86				
5	16QAM	12	25	19.93	19.97	19.85				
5	64QAM	1	0	20.01	20.11	19.84			21	2
5	64QAM	1	0	20.08	20.09	19.86				
5	64QAM	1	24	19.94	20.07	19.92				
5	64QAM	12	0	18.91	19.02	18.91				
5	64QAM	12	7	18.96	18.98	18.91			20	3
5	64QAM	12	13	18.90	18.99	18.92				
5	64QAM	12	25	18.87	18.97	18.91				
5	256QAM	1	0	17.98	17.98	16.86				
5	256QAM	1	12	17.91	17.95	16.82			18	5
5	256QAM	12	0	17.92	17.91	16.82				
5	256QAM	12	13	16.99	16.98	16.82			18	5
5	256QAM	12	25	16.94	17.03	16.91				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.09	22.09	21.90			23	0
3	QPSK	1	8	22.02	22.01	21.77				
3	QPSK	1	14	21.99	22.07	21.83				
3	QPSK	1	20	21.92	21.94	21.86				
3	QPSK	8	0	20.93	21.07	20.91			22	1
3	QPSK	8	7	20.94	20.99	20.89				
3	QPSK	8	14	20.97	21.07	20.92				
3	16QAM	1	0	20.98	21.07	20.84				
3	16QAM	1	8	21.03	20.99	20.78			22	1
3	16QAM	1	16	21.02	20.94	20.78				
3	16QAM	8	0	19.90	20.05	19.95				
3	16QAM	8	4	19.94	19.95	19.84			21	2
3	16QAM	8	12	19.91	19.97	19.86				
3	64QAM	1	0	19.99	19.98	19.87				
3	64QAM	1	0	20.01	20.07	19.86			21	2
3	64QAM	1	8	20.08	20.02	19.87				
3	64QAM	1	14	19.91	20.08	19.90				
3	64QAM	8	0	18.91	19.07	18.91				
3	64QAM	8	4	18.96	18.96	18.96			20	3
3	64QAM	8	12	18.90	18.94	18.91				
3	256QAM	1	0	17.91	17.98	16.91				
3	256QAM	1	8	16.98	17.06	16.84			18	5
3	256QAM	8	0	16.94	17.04	16.95				
3	256QAM	8	4	17.00	16.94	16.78			18	5
3	256QAM	8	12	16.97	17.03	16.83				
3	256QAM	16	0	16.92	17.01	16.91				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.08	22.11	21.97			23	0
1.4	QPSK	1	3	21.96	22.02	21.81				
1.4	QPSK	1	6	21.99	22.07	21.80				
1.4	QPSK	1	9	22.07	22.11	21.86				
1.4	QPSK	3	0	21.96	21.99	21.75				
1.4										



Band 12 Ant 4 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.41	24.26	24.37			25.5	0
10	QPSK	1	25	24.32	24.24	24.32				
10	QPSK	1	49	24.33	24.33	24.31				
10	QPSK	25	0	23.43	23.53	23.34			24.5	1
10	QPSK	25	25	23.32	23.48	23.32				
10	QPSK	25	25	23.35	23.51	23.29				
10	16QAM	1	0	23.43	23.51	23.33			24.5	1
10	16QAM	1	25	23.39	23.54	23.30				
10	16QAM	1	49	23.28	23.51	23.27				
10	16QAM	1	75	23.45	23.56	23.32				
10	16QAM	25	12	22.42	22.58	22.38			23.5	2
10	16QAM	25	12	22.42	22.58	22.38				
10	16QAM	25	25	22.31	22.47	22.28				
10	16QAM	25	50	22.32	22.59	22.34				
10	16QAM	1	0	22.43	22.57	22.43			23.5	2
10	16QAM	1	25	22.38	22.50	22.27				
10	16QAM	1	49	22.28	22.51	22.27				
10	16QAM	1	75	22.45	22.56	22.32				
10	16QAM	25	0	21.40	21.55	21.39			22.5	3
10	16QAM	25	12	21.41	21.47	21.33				
10	16QAM	25	12	21.39	21.48	21.15				
10	16QAM	25	25	21.38	21.57	21.32				
10	16QAM	25	50	21.38	21.57	21.32				
10	256QAM	1	0	19.48	19.59	19.59			20.5	5
10	256QAM	1	25	19.32	19.55	19.26				
10	256QAM	1	49	19.33	19.54	19.27				
10	256QAM	1	75	19.40	19.53	19.30				
10	256QAM	25	12	19.43	19.48	19.37			20.5	5
10	256QAM	25	12	19.43	19.48	19.37				
10	256QAM	25	25	19.31	19.48	19.19				
10	256QAM	25	50	19.31	19.48	19.19				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.36	24.54	24.26			25.5	0
5	QPSK	1	24	24.27	24.42	24.24				
5	QPSK	1	24	24.27	24.42	24.24				
5	QPSK	12	0	23.37	23.51	23.29			24.5	1
5	QPSK	12	7	23.33	23.42	23.30				
5	QPSK	12	13	23.25	23.41	23.23				
5	QPSK	25	0	23.39	23.49	23.26				
5	16QAM	1	0	23.42	23.41	23.22			24.5	1
5	16QAM	1	12	23.39	23.47	23.24				
5	16QAM	1	24	23.29	23.38	23.29				
5	16QAM	12	0	22.34	22.54	22.30			23.5	2
5	16QAM	12	7	22.37	22.47	22.35				
5	16QAM	12	13	22.28	22.43	22.42				
5	16QAM	25	0	22.23	22.46	22.30				
5	16QAM	25	0	22.28	22.46	22.37			23.5	2
5	16QAM	25	12	22.30	22.37	22.35				
5	16QAM	25	12	22.27	22.47	22.31				
5	16QAM	25	24	22.17	22.47	22.31				
5	16QAM	12	0	21.31	21.44	21.35			22.5	3
5	16QAM	12	7	21.33	21.38	21.29				
5	16QAM	12	13	21.24	21.41	21.10				
5	16QAM	25	0	21.34	21.46	21.31				
5	256QAM	1	0	19.43	19.53	19.34			20.5	5
5	256QAM	1	12	19.22	19.49	19.22				
5	256QAM	1	24	19.24	19.49	19.18				
5	256QAM	12	0	19.47	19.45	19.34				
5	256QAM	12	7	19.42	19.41	19.30			20.5	5
5	256QAM	12	13	19.31	19.37	19.28				
5	256QAM	25	0	19.28	19.45	19.23				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.33	24.42	24.16			25.5	0
3	QPSK	1	14	24.23	24.53	24.22				
3	QPSK	1	14	24.23	24.53	24.22				
3	QPSK	8	4	23.34	23.42	23.23			24.5	1
3	QPSK	8	7	23.24	23.41	23.24				
3	16QAM	1	0	23.36	23.41	23.25			24.5	1
3	16QAM	1	8	23.38	23.49	23.21				
3	16QAM	1	8	23.36	23.49	23.25				
3	16QAM	8	4	22.33	22.51	22.30			23.5	2
3	16QAM	8	7	22.30	22.37	22.26				
3	16QAM	16	0	22.31	22.51	22.27				
3	16QAM	1	0	22.38	22.47	22.42			23.5	2
3	16QAM	1	8	22.32	22.38	22.24				
3	16QAM	1	14	22.25	22.49	22.27				
3	16QAM	8	0	21.37	21.46	21.37			22.5	3
3	16QAM	8	4	21.32	21.45	21.08				
3	16QAM	16	0	21.28	21.48	21.27				
3	256QAM	1	8	19.32	19.52	19.18			20.5	5
3	256QAM	1	14	19.31	19.43	19.25				
3	256QAM	8	0	19.32	19.53	19.34				
3	256QAM	8	4	19.40	19.46	19.26			20.5	5
3	256QAM	8	7	19.25	19.46	19.12				
3	256QAM	16	0	19.30	19.46	19.25				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.32	24.51	24.21			25.5	0
1.4	QPSK	1	3	24.32	24.53	24.22				
1.4	QPSK	1	5	24.33	24.46	24.21				
1.4	QPSK	3	0	23.33	23.41	23.28			24.5	1
1.4	QPSK	3	1	24.27	24.49	24.15				
1.4	QPSK	3	3	24.24	24.48	24.22				
1.4	16QAM	1	0	23.38	23.59	23.27			24.5	1
1.4	16QAM	1	3	23.28	23.40	23.22				
1.4	16QAM	1	5	23.31	23.48	23.19				
1.4	16QAM	3	0	23.42	23.46	23.30				
1.4	16QAM	3	1	23.35	23.52	23.27			23.5	2
1.4	16QAM	3	1	23.34	23.48	23.19				
1.4	16QAM	6	0	22.44	22.52	22.27			23.5	2
1.4	16QAM	1	0	22.32	22.54	22.34				
1.4	16QAM	1	6	22.30	22.43	22.20			23.5	2
1.4	16QAM	1	6	22.23	22.59	22.28				
1.4	16QAM	3	0	22.41	22.49	22.38				
1.4	16QAM	3	1	22.28	22.48	22.21			22.5	3
1.4	16QAM	3	3	22.23	22.48	22.32				
1.4	16QAM	6	0	21.39	21.54	21.21			22.5	3
1.4	256QAM	1	0	19.40	19.59	19.33				
1.4	256QAM	1	3	19.28	19.53	19.28			20.5	5
1.4	256QAM	1	5	19.21	19.51	19.19				
1.4	256QAM	3	0	19.32	19.45	19.35				
1.4	256QAM	3	1	19.40	19.45	19.28			20.5	5
1.4	256QAM	3	0	19.26	19.44	19.07				
1.4	256QAM	15	0	19.38	19.46	19.24			20.5	5

Band 13 Ant 4 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.50					25.5	0
10	QPSK	1	25	24.46						
10	QPSK	1	49	24.47						
10	QPSK	25	0	23.54					24.5	1
10	QPSK	25	12	23.56						
10	QPSK	25	25	23.48						
10	QPSK	50	0	23.51						
10	16QAM	1	0	23.54					24.5	1
10	16QAM	1	25	23.51						
10	16QAM	1	49	23.52						
10	16QAM	1	75	22.53						
10	16QAM	25	12	22.45					23.5	2
10	16QAM	25	12	22.45						
10	16QAM	25	25	22.48						
10	16QAM	25	50	22.48						
10	16QAM	1	0	22.49						



Band 66 Ant 4 DSI 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dB)	MPE (dB)	
Channel									
				1750	1745	1776			
20	QPSK	1	0	22.58	22.69	22.37	23.5	0	
20	QPSK	1	49	22.48	22.64	22.35			
20	QPSK	1	99	22.41	22.61	22.31			
20	QPSK	50	0	22.08	22.23	21.85	23	0.5	
20	QPSK	50	24	21.97	22.09	21.61			
20	QPSK	50	50	21.93	22.14	21.85			
20	QPSK	100	0	22.12	22.21	21.82	23	0.5	
20	HQAM	1	0	22.00	22.17	21.71			
20	HQAM	1	49	21.89	21.99	21.89			
20	HQAM	1	99	21.81	22.09	21.75	22	1.5	
20	HQAM	50	0	21.12	21.18	20.98			
20	HQAM	50	24	21.01	21.12	20.99			
20	HQAM	100	0	20.92	21.18	20.81	21	2.5	
20	HQAM	50	50	21.13	21.18	20.93			
20	HQAM	1	0	21.05	21.17	20.75			
20	HQAM	1	49	20.88	20.96	20.85	21	2.5	
20	HQAM	1	99	20.78	21.03	20.89			
20	HQAM	50	0	20.07	20.19	19.85			
20	HQAM	50	24	20.03	20.07	19.86	19	4.5	
20	HQAM	50	50	19.89	20.14	19.86			
20	HQAM	100	0	20.18	20.12	19.78			
20	SSBQAM	1	0	18.04	18.16	17.68	19	4.5	
20	SSBQAM	1	49	18.03	18.12	17.84			
20	SSBQAM	1	99	17.94	18.09	17.82			
20	SSBQAM	50	0	18.07	18.13	17.78	19	4.5	
20	SSBQAM	50	24	18.01	18.19	17.76			
20	SSBQAM	50	50	17.94	18.02	17.92			
20	SSBQAM	100	0	17.76	18.10	17.71	Channel		
				13547	13532	13597			
Channel									
				1717.5	1745	1772.5			
15	QPSK	1	0	22.54	22.38	22.24	23.5	0	
15	QPSK	1	37	22.41	22.60	22.54			
15	QPSK	1	74	22.35	22.57	22.28			
15	QPSK	96	0	21.99	22.21	21.71	23	0.5	
15	QPSK	96	20	21.93	22.04	21.64			
15	QPSK	96	38	21.87	22.01	21.76			
15	QPSK	75	0	22.09	22.19	21.76	23	0.5	
15	HQAM	1	0	21.88	22.14	21.68			
15	HQAM	1	37	21.89	21.91	21.78			
15	HQAM	1	74	21.72	21.97	21.68	22	1.5	
15	HQAM	96	0	21.09	21.05	20.73			
15	HQAM	96	20	20.91	20.98	20.78			
15	HQAM	96	38	20.87	21.18	20.74	21	2.5	
15	HQAM	75	0	21.09	21.13	20.78			
15	HQAM	1	0	20.97	21.10	20.68			
15	HQAM	1	37	20.77	20.86	20.81	21	2.5	
15	HQAM	1	74	20.71	21.01	20.77			
15	HQAM	96	0	20.04	20.11	19.81			
15	HQAM	96	20	19.98	20.04	19.88	19	4.5	
15	HQAM	96	38	19.84	20.07	19.85			
15	HQAM	75	0	20.06	20.15	19.68			
15	SSBQAM	1	0	18.01	18.16	17.85	19	4.5	
15	SSBQAM	1	37	18.00	18.05	17.85			
15	SSBQAM	1	74	17.85	18.01	17.71			
15	SSBQAM	50	0	17.94	18.15	17.83	19	4.5	
15	SSBQAM	50	20	17.95	18.15	17.74			
15	SSBQAM	50	39	17.84	17.90	17.81			
15	SSBQAM	75	0	17.68	18.04	17.67	Channel		
				13592	13592	13592			
Channel									
				1715	1745	1775			
10	QPSK	1	0	22.44	22.58	22.48	23.5	0	
10	QPSK	1	25	22.41	22.52	22.23			
10	QPSK	1	49	22.30	22.56	22.17			
10	QPSK	25	0	21.96	22.20	21.78	23	0.5	
10	QPSK	25	12	21.93	22.05	21.77			
10	QPSK	25	25	21.83	22.08	21.78			
10	QPSK	50	0	22.02	22.10	21.71	23	0.5	
10	HQAM	1	0	21.93	22.04	21.68			
10	HQAM	1	25	21.78	21.96	21.79			
10	HQAM	1	49	21.73	21.95	21.68	22	1.5	
10	HQAM	25	0	21.08	21.02	20.73			
10	HQAM	25	12	20.89	21.08	20.88			
10	HQAM	25	25	20.85	21.08	20.68	21	2.5	
10	HQAM	50	0	21.09	21.08	20.78			
10	HQAM	1	0	20.97	21.13	20.65			
10	HQAM	1	25	20.78	20.83	20.81	21	2.5	
10	HQAM	1	49	20.72	21.04	20.78			
10	HQAM	25	0	20.03	20.07	19.78			
10	HQAM	25	12	19.99	20.02	19.80	19	4.5	
10	HQAM	25	25	19.82	20.08	19.79			
10	HQAM	50	0	20.02	20.12	19.69			
10	SSBQAM	1	0	17.93	18.14	17.65	19	4.5	
10	SSBQAM	1	25	17.93	18.08	17.82			
10	SSBQAM	1	49	17.82	18.05	17.72			
10	SSBQAM	25	0	18.01	18.03	17.67	19	4.5	
10	SSBQAM	25	12	17.96	18.12	17.67			
10	SSBQAM	25	25	17.85	17.89	17.84			
10	SSBQAM	50	0	17.73	18.00	17.63	Channel		
				13197	13192	13267			
Channel									
				1712.5	1745	1777.5			
5	QPSK	1	0	22.40	22.54	22.34	23.5	0	
5	QPSK	1	12	22.40	22.60	22.33			
5	QPSK	1	24	22.29	22.59	22.26			
5	QPSK	13	0	22.00	22.11	21.78	23	0.5	
5	QPSK	12	7	21.91	22.03	21.89			
5	QPSK	12	13	21.85	22.08	21.71			
5	QPSK	25	0	22.03	22.19	21.78	23	0.5	
5	HQAM	1	0	21.90	22.04	21.68			
5	HQAM	1	12	21.78	21.88	21.76			
5	HQAM	1	24	21.73	22.04	21.72	22	1.5	
5	HQAM	12	0	21.05	21.02	20.78			
5	HQAM	12	7	20.91	21.01	20.86			
5	HQAM	12	13	20.84	21.12	20.71	21	2.5	
5	HQAM	25	0	21.08	21.05	20.69			
5	HQAM	1	0	20.97	21.10	20.71			
5	HQAM	1	12	20.77	20.84	20.85	21	2.5	
5	HQAM	1	24	20.74	21.06	20.68			
5	HQAM	12	0	20.04	20.08	19.78			
5	HQAM	12	7	19.97	19.99	19.85	19	4.5	
5	HQAM	12	13	19.77	20.07	19.75			
5	HQAM	25	0	20.11	20.11	19.86			
5	SSBQAM	1	0	17.92	18.02	17.81	19	4.5	
5	SSBQAM	1	12	17.94	18.00	17.82			
5	SSBQAM	1	24	17.81	18.07	17.71			
5	SSBQAM	12	0	17.97	18.14	17.71	19	4.5	
5	SSBQAM	12	7	17.85	18.14	17.70			
5	SSBQAM	25	0	17.65	17.99	17.64			
				13168	13192	13267	Channel		
Channel									
				1712.5	1745	1777.5			
3	QPSK	1	0	22.45	22.65	22.34	23.5	0	
3	QPSK	1	8	22.36	22.61	22.31			
3	QPSK	1	14	22.30	22.51	22.25			
3	QPSK	8	0	22.02	22.11	21.72	23	0.5	
3	QPSK	8	4	21.91	22.00	21.85			
3	QPSK	8	7	21.87	22.08	21.76			
3	QPSK	15	0	22.04	22.17	21.75	23	0.5	
3	HQAM	1	0	21.97	22.04	21.60			
3	HQAM	1	8	21.82	21.91	21.78			
3	HQAM	1	14	21.75	21.96	21.69	22	1.5	
3	HQAM	8	0	21.02	21.23	20.83			
3	HQAM	8	4	20.92	21.09	20.84			
3	HQAM	8	7	20.87	21.13	20.76	21	2.5	
3	HQAM	15	0	21.01	21.13	20.79			
3	HQAM	1	0	21.00	21.12	20.68			
3	HQAM	1	8	20.77	20.93	20.73	21	2.5	
3	HQAM	1	14	20.68	21.03	20.68			
3	HQAM	8	0	19.97	20.12	19.82			
3	HQAM	8	4	19.95	19.99	19.83	19	4.5	
3	HQAM	8	7	19.84	20.12	19.81			
3	HQAM	15	0	20.13	20.18	19.72			
3	SSBQAM	1	0	17.95	18.23	17.64	19	4.5	
3	SSBQAM	1	8	17.97	18.09	17.89			
3	SSBQAM	1	14	17.83	18.05	17.74			
3	SSBQAM	8	0	17.94	18.13	17.77	19	4.5	
3	SSBQAM	8	4	17.93	18.10	17.67			
3	SSBQAM	8	7	17.88	17.99	17.82			
3	SSBQAM	15	0	17.69	18.08	17.59	Channel		
				13179	13192	13265			
Channel									
				1712.5	1745	1777.5			
1.4									

Band 38 Ant 1 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.49	23.51	23.47	24.5	0	
20	QPSK	1	49	23.47	23.50	23.42			
20	QPSK	1	99	23.46	23.49	23.44			
20	QPSK	50	0	22.53	22.49	22.42	23.5	1	
20	QPSK	50	24	22.48	22.47	22.46			
20	QPSK	50	50	22.41	22.49	22.39			
20	QPSK	100	0	22.44	22.45	22.39	23.5	1	
20	16QAM	1	0	22.44	22.50	22.44			
20	16QAM	1	49	22.48	22.45	22.46			
20	16QAM	1	99	22.49	22.46	22.48	22.5	2	
20	16QAM	50	0	21.48	21.49	21.42			
20	16QAM	50	24	21.45	21.47	21.43			
20	16QAM	50	50	21.36	21.54	21.36	22.5	2	
20	16QAM	100	0	21.49	21.42	21.37			
20	64QAM	1	0	21.44	21.51	21.52			
20	64QAM	1	49	21.48	21.50	21.36	22.5	2	
20	64QAM	1	99	21.48	21.45	21.41			
20	64QAM	50	0	20.49	20.53	20.47			
20	64QAM	50	24	20.49	20.42	20.51	21.5	3	
20	64QAM	50	50	20.40	20.44	20.35			
20	64QAM	100	0	20.45	20.51	20.42			
20	256QAM	1	0	18.48	18.49	18.52	19.5	5	
20	256QAM	1	49	18.45	18.47	18.42			
20	256QAM	1	99	18.51	18.53	18.40			
20	256QAM	50	0	18.50	18.52	18.48	19.5	5	
20	256QAM	50	24	18.46	18.48	18.47			
20	256QAM	50	50	18.43	18.47	18.43			
20	256QAM	100	0	18.45	18.49	18.33			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.44	23.49	23.43	24.5	0	
15	QPSK	1	37	23.45	23.48	23.42			
15	QPSK	1	74	23.34	23.41	23.38			
15	QPSK	36	0	22.41	22.48	22.39	23.5	1	
15	QPSK	36	20	22.48	22.43	22.45			
15	QPSK	36	39	22.31	22.45	22.30			
15	QPSK	75	0	22.34	22.43	22.35	23.5	1	
15	16QAM	1	0	22.38	22.45	22.42			
15	16QAM	1	37	22.37	22.45	22.43			
15	16QAM	1	74	22.40	22.43	22.46	22.5	2	
15	16QAM	36	0	21.48	21.37	21.33			
15	16QAM	36	20	21.34	21.37	21.36			
15	16QAM	36	39	21.34	21.49	21.28	22.5	2	
15	16QAM	75	0	21.45	21.32	21.30			
15	64QAM	1	0	21.43	21.41	21.50			
15	64QAM	1	37	21.42	21.40	21.26	22.5	2	
15	64QAM	1	74	21.44	21.42	21.32			
15	64QAM	36	0	20.48	20.44	20.47			
15	64QAM	36	20	20.39	20.39	20.48	21.5	3	
15	64QAM	36	39	20.40	20.39	20.34			
15	64QAM	75	0	20.45	20.42	20.40			
15	256QAM	1	0	18.43	18.38	18.45	19.5	5	
15	256QAM	1	37	18.43	18.42	18.39			
15	256QAM	1	74	18.41	18.48	18.32			
15	256QAM	36	0	18.47	18.43	18.46	19.5	5	
15	256QAM	36	20	18.44	18.39	18.40			
15	256QAM	36	39	18.34	18.35	18.37			
15	256QAM	75	0	18.42	18.48	18.23			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.48	23.48	23.45	24.5	0	
10	QPSK	1	25	23.36	23.41	23.40			
10	QPSK	1	49	23.38	23.39	23.34			
10	QPSK	25	0	22.41	22.38	22.31	23.5	1	
10	QPSK	25	12	22.37	22.41	22.35			
10	QPSK	25	25	22.35	22.46	22.45			
10	QPSK	50	0	22.44	22.36	22.27	23.5	1	
10	16QAM	1	0	22.36	22.45	22.39			
10	16QAM	1	25	22.38	22.42	22.35			
10	16QAM	1	49	22.39	22.38	22.37	22.5	2	
10	16QAM	25	0	21.38	21.40	21.34			
10	16QAM	25	12	21.37	21.41	21.40			
10	16QAM	25	25	21.33	21.44	21.34	22.5	2	
10	16QAM	50	0	21.44	21.39	21.28			
10	64QAM	1	0	21.35	21.46	21.43			
10	64QAM	1	25	21.47	21.46	21.28	22.5	2	
10	64QAM	1	49	21.37	21.37	21.34			
10	64QAM	25	0	20.42	20.51	20.41			
10	64QAM	25	12	20.38	20.36	20.48	21.5	3	
10	64QAM	25	25	20.35	20.42	20.27			
10	64QAM	50	0	20.38	20.48	20.35			
10	256QAM	1	0	18.43	18.40	18.41	19.5	5	
10	256QAM	1	25	18.44	18.46	18.38			
10	256QAM	1	49	18.42	18.50	18.32			
10	256QAM	25	0	18.41	18.48	18.36	19.5	5	
10	256QAM	25	12	18.43	18.47	18.44			
10	256QAM	25	25	18.41	18.45	18.41			
10	256QAM	50	0	18.44	18.44	18.25			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.42	23.48	23.41	24.5	0	
5	QPSK	1	12	23.38	23.41	23.35			
5	QPSK	1	24	23.45	23.42	23.42			
5	QPSK	12	0	22.44	22.46	22.40	23.5	1	
5	QPSK	12	7	22.39	22.43	22.45			
5	QPSK	12	13	22.41	22.41	22.30			
5	QPSK	25	0	22.37	22.35	22.30	23.5	1	
5	16QAM	1	0	22.41	22.45	22.43			
5	16QAM	1	12	22.46	22.36	22.39			
5	16QAM	1	24	22.40	22.35	22.41	22.5	2	
5	16QAM	12	0	21.48	21.40	21.30			
5	16QAM	12	7	21.40	21.41	21.43			
5	16QAM	12	13	21.29	21.53	21.33	22.5	2	
5	16QAM	25	0	21.44	21.31	21.31			
5	64QAM	1	0	21.42	21.46	21.49			
5	64QAM	1	12	21.38	21.42	21.26	22.5	2	
5	64QAM	1	24	21.39	21.35	21.41			
5	64QAM	12	0	20.40	20.42	20.44			
5	64QAM	12	7	20.43	20.41	20.48	21.5	3	
5	64QAM	12	13	20.38	20.37	20.34			
5	64QAM	25	0	20.35	20.41	20.33			
5	256QAM	1	0	18.39	18.39	18.41	19.5	5	
5	256QAM	1	12	18.44	18.42	18.30			
5	256QAM	1	24	18.47	18.49	18.39			
5	256QAM	12	0	18.45	18.43	18.44	19.5	5	
5	256QAM	12	7	18.45	18.45	18.40			
5	256QAM	12	13	18.40	18.39	18.39			
5	256QAM	25	0	18.39	18.46	18.23			

Band 41 Ant 1 DSI 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.44	23.56	23.60	23.55	23.54	24.5	0
20	QPSK	1	49	23.42	23.47	23.56	23.46	23.53		
20	QPSK	1	99	23.40	23.46	23.54	23.47	23.49		
20	QPSK	50	0	22.40	22.43	22.54	22.42	22.47	23.5	1
20	QPSK	50	24	22.37	22.49	22.53	22.44	22.48		
20	QPSK	50	50	22.36	22.42	22.46	22.34	22.37		
20	QPSK	100	0	22.32	22.41	22.49	22.35	22.41	23.5	1
20	16QAM	1	0	22.49	22.57	22.59	22.56	22.57		
20	16QAM	1	49	22.44	22.41	22.51	22.49	22.55		
20	16QAM	1	99	22.44	22.49	22.59	22.48	22.48	22.5	2
20	16QAM	50	0	21.38	21.48	21.53	21.44	21.44		
20	16QAM	50	24	21.35	21.50	21.58	21.38	21.51		
20	16QAM	50	50	21.36	21.37	21.46	21.32	21.31	22.5	2
20	16QAM	100	0	21.28	21.39	21.53	21.39	21.42		
20	64QAM	1	0	21.43	21.53	21.58	21.51	21.51		
20	64QAM	1	49	21.45	21.44	21.55	21.40	21.49	22.5	2
20	64QAM	1	99	21.38	21.50	21.53	21.45	21.54		
20	64QAM	50	0	20.43	20.47	20.55	20.38	20.43		
20	64QAM	50	24	20.39	20.47	20.58	20.48	20.46	21.5	

Band 42 Part 27Q Ant 2 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.06	19.15	19.09	20	0	
20	QPSK	1	49	18.98	19.10	18.99			
20	QPSK	1	99	18.96	19.06	19.02			
20	QPSK	50	0	18.05	18.18	18.04			
20	QPSK	50	24	17.97	18.09	18.00	19	1	
20	QPSK	50	50	17.95	18.10	18.07			
20	QPSK	100	0	18.11	18.15	18.14			
20	16QAM	1	0	18.11	18.14	18.05			
20	16QAM	1	49	18.03	18.16	18.04	19	1	
20	16QAM	1	99	17.96	18.03	18.01			
20	16QAM	50	0	17.07	17.16	17.09			
20	16QAM	50	24	17.01	17.06	17.01			
20	16QAM	50	50	16.97	17.05	17.13	18	2	
20	16QAM	100	0	17.09	17.20	17.13			
20	64QAM	1	0	17.07	17.18	17.00			
20	64QAM	1	49	17.06	17.22	17.08	18	2	
20	64QAM	1	99	17.01	17.02	17.03			
20	64QAM	50	0	16.02	16.16	15.98			
20	64QAM	50	24	16.03	16.12	16.02	17	3	
20	64QAM	50	50	15.92	16.12	16.12			
20	64QAM	100	0	16.11	16.16	16.15			
20	256QAM	1	0	14.07	14.14	14.04			
20	256QAM	1	49	13.92	14.08	13.99	15	5	
20	256QAM	1	99	13.93	14.12	14.01			
20	256QAM	50	0	14.06	14.17	14.16			
20	256QAM	50	24	14.06	14.18	14.03	15	5	
20	256QAM	50	50	14.02	14.20	14.02			
20	256QAM	100	0	13.92	14.05	14.01			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	19.02	19.04	19.04	20	0	
15	QPSK	1	37	18.96	18.99	18.89			
15	QPSK	1	74	18.92	19.01	18.90			
15	QPSK	36	0	17.91	18.09	18.01			
15	QPSK	36	20	17.84	18.04	17.98	19	1	
15	QPSK	36	39	17.90	18.08	17.95			
15	QPSK	75	0	18.07	18.09	18.08			
15	16QAM	1	0	18.07	18.12	18.01	19	1	
15	16QAM	1	37	18.00	18.02	17.94			
15	16QAM	1	74	17.84	17.97	17.87			
15	16QAM	36	0	17.04	17.11	16.95	18	2	
15	16QAM	36	20	16.90	16.92	16.95			
15	16QAM	36	39	16.89	17.03	17.04			
15	16QAM	75	0	17.06	17.11	17.10			
15	64QAM	1	0	17.01	17.10	16.93	18	2	
15	64QAM	1	37	16.99	17.09	17.03			
15	64QAM	1	74	16.89	16.88	16.92			
15	64QAM	36	0	15.99	16.10	15.93	17	3	
15	64QAM	36	20	15.92	16.08	15.91			
15	64QAM	36	39	15.83	16.05	16.00			
15	64QAM	75	0	15.97	16.09	16.09			
15	256QAM	1	0	14.02	14.07	13.91	15	5	
15	256QAM	1	37	13.78	14.02	13.96			
15	256QAM	1	74	13.83	14.07	13.89			
15	256QAM	36	0	14.04	14.11	14.11			
15	256QAM	36	20	14.00	14.04	13.94	15	5	
15	256QAM	36	39	13.90	14.10	13.93			
15	256QAM	75	0	13.90	13.95	13.94			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.98	19.02	19.06	20	0	
10	QPSK	1	25	18.93	18.96	18.96			
10	QPSK	1	49	18.90	18.96	18.93			
10	QPSK	25	0	17.99	18.05	17.92			
10	QPSK	25	12	17.88	18.05	17.96	19	1	
10	QPSK	25	25	17.88	18.06	17.97			
10	QPSK	50	0	18.02	18.05	18.12			
10	16QAM	1	0	18.00	18.06	17.97	19	1	
10	16QAM	1	25	17.97	18.03	17.98			
10	16QAM	1	49	17.91	17.92	17.91			
10	16QAM	25	0	17.00	17.10	16.99	18	2	
10	16QAM	25	12	16.90	17.00	16.89			
10	16QAM	25	25	16.91	16.96	17.06			
10	16QAM	50	0	17.07	17.10	17.08			
10	64QAM	1	0	17.02	17.15	16.91	18	2	
10	64QAM	1	25	17.03	17.15	16.99			
10	64QAM	1	49	16.91	16.91	16.95			
10	64QAM	25	0	15.99	16.10	15.90	17	3	
10	64QAM	25	12	15.96	16.09	15.97			
10	64QAM	25	25	15.85	16.06	15.99			
10	64QAM	50	0	16.02	16.10	16.01			
10	256QAM	1	0	13.99	14.11	13.92	15	5	
10	256QAM	1	25	13.86	13.95	13.89			
10	256QAM	1	49	13.87	14.04	13.87			
10	256QAM	25	0	13.97	14.14	14.03	15	5	
10	256QAM	25	12	13.98	14.07	13.95			
10	256QAM	25	25	13.96	14.15	13.90			
10	256QAM	50	0	13.85	13.94	13.98			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	19.00	19.05	18.98	20	0	
5	QPSK	1	12	18.93	19.01	18.96			
5	QPSK	1	24	18.86	18.99	18.96			
5	QPSK	12	0	17.94	18.13	17.98			
5	QPSK	12	7	17.88	18.02	17.88	19	1	
5	QPSK	12	13	17.86	18.00	17.95			
5	QPSK	25	0	18.01	18.12	18.08			
5	16QAM	1	0	18.06	18.10	17.94	19	1	
5	16QAM	1	12	17.89	18.11	18.01			
5	16QAM	1	24	17.87	17.97	17.95			
5	16QAM	12	0	17.03	17.03	16.99	18	2	
5	16QAM	12	7	16.97	17.03	16.90			
5	16QAM	12	13	16.88	17.00	17.04			
5	16QAM	25	0	17.00	17.12	17.07			
5	64QAM	1	0	16.96	17.10	16.91	18	2	
5	64QAM	1	12	16.96	17.16	17.02			
5	64QAM	1	24	16.92	16.92	16.95			
5	64QAM	12	0	15.89	16.11	15.91	17	3	
5	64QAM	12	7	15.90	16.05	15.95			
5	64QAM	12	13	15.88	16.05	16.00			
5	64QAM	25	0	15.97	16.06	16.01			
5	256QAM	1	0	14.02	14.06	13.90	15	5	
5	256QAM	1	12	13.79	14.04	13.89			
5	256QAM	1	24	13.86	14.09	13.88			
5	256QAM	12	0	13.92	14.08	14.05			
5	256QAM	12	7	13.99	14.14	13.98	15	5	
5	256QAM	12	13	13.97	14.13	13.97			
5	256QAM	25	0	13.85	13.94	13.97			

Band 48 Ant 2 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55830	56150	56470	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	19.03	19.12	19.01	19.10	20	0
20	QPSK	1	49	19.01	19.06	18.94	19.00		
20	QPSK	1	99	19.01	19.11	18.93	19.09		
20	QPSK	50	0	18.08	18.13	17.99	18.09		
20	QPSK	50	24	18.05	18.04	18.00	17.99	19	1
20	QPSK	50	50	18.01	18.11	17.87	18.04		
20	QPSK	100	0	18.02	18.14	17.92	18.01		
20	16QAM	1	0	18.02	18.11	17.97	18.06	19	1
20	16QAM	1	49	17.95	18.03	17.91	18.04		
20	16QAM	1	99	17.97	18.05	17.90	18.05		
20	16QAM	50	0	17.07	17.16	17.05	17.05		
20	16QAM	50	24	17.00	17.03	17.03	16.93	18	2
20	16QAM	50	50	16.96	17.10	16.			

Band 38 Ant 3 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.43	23.52	23.48	24.5	0	
20	QPSK	1	49	23.38	23.45	23.38			
20	QPSK	1	99	23.40	23.40	23.37			
20	QPSK	50	0	22.37	22.57	22.43	23.5	1	
20	QPSK	50	24	22.34	22.49	22.37			
20	QPSK	50	50	22.41	22.42	22.33			
20	QPSK	100	0	22.46	22.52	22.50	23.5	1	
20	16QAM	1	0	22.44	22.54	22.47			
20	16QAM	1	49	22.38	22.51	22.36			
20	16QAM	1	99	22.39	22.39	22.34	22.5	2	
20	16QAM	50	0	21.36	21.56	21.37			
20	16QAM	50	24	21.36	21.54	21.35			
20	16QAM	50	50	21.42	21.43	21.29	22.5	2	
20	16QAM	100	0	21.40	21.53	21.47			
20	64QAM	1	0	21.50	21.56	21.43			
20	64QAM	1	49	21.43	21.52	21.36	22.5	2	
20	64QAM	1	99	21.33	21.41	21.31			
20	64QAM	50	0	20.39	20.58	20.44			
20	64QAM	50	24	20.35	20.54	20.32	21.5	3	
20	64QAM	50	50	20.41	20.47	20.31			
20	64QAM	100	0	20.48	20.58	20.45			
20	256QAM	1	0	18.32	18.32	18.37	19.5	5	
20	256QAM	1	49	18.40	18.48	18.40			
20	256QAM	1	99	18.44	18.37	18.35			
20	256QAM	50	0	18.46	18.48	18.46	19.5	5	
20	256QAM	50	24	18.45	18.58	18.42			
20	256QAM	50	50	18.43	18.54	18.34			
20	256QAM	100	0	18.38	18.42	18.29			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.29	23.45	23.45	24.5	0	
15	QPSK	1	37	23.31	23.38	23.27			
15	QPSK	1	74	23.36	23.27	23.34			
15	QPSK	36	0	22.25	22.47	22.32	23.5	1	
15	QPSK	36	20	22.31	22.41	22.29			
15	QPSK	36	39	22.27	22.36	22.22			
15	QPSK	75	0	22.42	22.47	22.40	23.5	1	
15	16QAM	1	0	22.33	22.40	22.39			
15	16QAM	1	37	22.31	22.38	22.25			
15	16QAM	1	74	22.27	22.31	22.25	22.5	2	
15	16QAM	36	0	21.27	21.45	21.27			
15	16QAM	36	20	21.28	21.45	21.28			
15	16QAM	36	39	21.29	21.37	21.24	22.5	2	
15	16QAM	75	0	21.32	21.43	21.45			
15	64QAM	1	0	21.41	21.49	21.30			
15	64QAM	1	37	21.35	21.39	21.32	22.5	2	
15	64QAM	1	74	21.25	21.29	21.26			
15	64QAM	36	0	20.32	20.51	20.32			
15	64QAM	36	20	20.32	20.48	20.23	21.5	3	
15	64QAM	36	39	20.37	20.36	20.20			
15	64QAM	75	0	20.40	20.51	20.37			
15	256QAM	1	0	18.20	18.41	18.33	19.5	5	
15	256QAM	1	37	18.30	18.38	18.34			
15	256QAM	1	74	18.32	18.28	18.30			
15	256QAM	36	0	18.39	18.41	18.43	19.5	5	
15	256QAM	36	20	18.35	18.50	18.32			
15	256QAM	36	39	18.39	18.44	18.23			
15	256QAM	75	0	18.27	18.35	18.25			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.34	23.39	23.43	24.5	0	
10	QPSK	1	25	23.27	23.39	23.32			
10	QPSK	1	49	23.38	23.33	23.25			
10	QPSK	25	0	22.24	22.46	22.36	23.5	1	
10	QPSK	25	12	22.24	22.37	22.31			
10	QPSK	25	25	22.37	22.37	22.20			
10	QPSK	50	0	22.39	22.46	22.43	23.5	1	
10	16QAM	1	0	22.33	22.48	22.35			
10	16QAM	1	25	22.27	22.45	22.22			
10	16QAM	1	49	22.35	22.31	22.27	22.5	2	
10	16QAM	25	0	21.32	21.53	21.31			
10	16QAM	25	12	21.32	21.50	21.27			
10	16QAM	25	25	21.28	21.40	21.17	22.5	2	
10	16QAM	50	0	21.30	21.42	21.40			
10	64QAM	1	0	21.43	21.53	21.34			
10	64QAM	1	25	21.34	21.44	21.27	22.5	2	
10	64QAM	1	49	21.19	21.35	21.29			
10	64QAM	25	0	20.34	20.52	20.41			
10	64QAM	25	12	20.27	20.50	20.19	21.5	3	
10	64QAM	25	25	20.38	20.36	20.25			
10	64QAM	50	0	20.43	20.52	20.32			
10	256QAM	1	0	18.28	18.50	18.33	19.5	5	
10	256QAM	1	25	18.27	18.39	18.36			
10	256QAM	1	49	18.39	18.27	18.33			
10	256QAM	25	0	18.39	18.35	18.39	19.5	5	
10	256QAM	25	12	18.34	18.50	18.31			
10	256QAM	25	25	18.34	18.47	18.23			
10	256QAM	50	0	18.34	18.32	18.26			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.38	23.39	23.37	24.5	0	
5	QPSK	1	12	23.28	23.36	23.29			
5	QPSK	1	24	23.30	23.26	23.27			
5	QPSK	12	0	22.23	22.51	22.34	23.5	1	
5	QPSK	12	7	22.29	22.36	22.35			
5	QPSK	12	13	22.31	22.30	22.27			
5	QPSK	25	0	22.43	22.48	22.46	23.5	1	
5	16QAM	1	0	22.41	22.46	22.40			
5	16QAM	1	12	22.29	22.41	22.31			
5	16QAM	1	24	22.26	22.28	22.22	22.5	2	
5	16QAM	12	0	21.25	21.43	21.29			
5	16QAM	12	7	21.28	21.41	21.24			
5	16QAM	12	13	21.34	21.32	21.22	22.5	2	
5	16QAM	25	0	21.31	21.43	21.34			
5	64QAM	1	0	21.42	21.47	21.32			
5	64QAM	1	12	21.36	21.42	21.27	22.5	2	
5	64QAM	1	24	21.21	21.33	21.22			
5	64QAM	12	0	20.35	20.54	20.37			
5	64QAM	12	7	20.31	20.50	20.25	21.5	3	
5	64QAM	12	13	20.33	20.44	20.22			
5	64QAM	25	0	20.43	20.47	20.37			
5	256QAM	1	0	18.23	18.38	18.26	19.5	5	
5	256QAM	1	12	18.33	18.34	18.33			
5	256QAM	1	24	18.30	18.25	18.24			
5	256QAM	12	0	18.44	18.38	18.33	19.5	5	
5	256QAM	12	7	18.38	18.55	18.30			
5	256QAM	12	13	18.39	18.42	18.21			
5	256QAM	25	0	18.24	18.31	18.18			

Band 41 Ant 3 DSI 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.52	23.48	23.59	23.56	23.50	24.5	0
20	QPSK	1	49	23.47	23.39	23.46	23.39	23.44		
20	QPSK	1	99	23.40	23.38	23.44	23.36	23.34		
20	QPSK	50	0	22.66	22.41	22.66	22.42	22.57	23.5	1
20	QPSK	50	24	22.50	22.41	22.52	22.41	22.49		
20	QPSK	50	50	22.45	22.40	22.48	22.38	22.38		
20	QPSK	100	0	22.40	22.44	22.50	22.53	22.50	23.5	1
20	16QAM	1	0	22.61	22.47	22.62	22.44	22.56		
20	16QAM	1	49	22.44	22.46	22.48	22.43	22.39		
20	16QAM	1	99	22.38	22.37	22.47	22.42	22.41	22.5	2
20	16QAM	50	0	21.51	21.41	21.54	21.39	21.50		
20	16QAM	50	24	21.48	21.41	21.54	21.36	21.52		
20	16QAM	50	50	21.36	21.46	21.43	21.28	21.40	22.5	2
20	16QAM	100	0	21.57	21.40	21.58	21.49	21.49		
20	64QAM	1	0	21.56	21.50	21.61	21.48	21.54		
20	64QAM	1	49	21.55	21.49	21.57	21.39	21.49	22.5	2
20	64QAM	1	99	21.46	21.35	21.45	21.35	21.35		
20	64QAM	50	0	20.60	20.40	20.62	20.47	20.63		
20	64QAM	50	24	20.49	20.41	20.55	20.35	20.54	21.5	

Band 42 Part 27Q Ant 3 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.46	20.47	20.22	21.5	0	
20	QPSK	1	49	20.42	20.41	20.19			
20	QPSK	1	99	20.42	20.46	20.19			
20	QPSK	50	0	19.47	19.47	19.21	20.5	1	
20	QPSK	50	24	19.44	19.42	19.23			
20	QPSK	50	50	19.46	19.42	19.20			
20	QPSK	100	0	19.37	19.41	19.16	20.5	1	
20	16QAM	1	0	19.41	19.41	19.19			
20	16QAM	1	49	19.46	19.47	19.19			
20	16QAM	1	99	19.46	19.50	19.23	19.5	2	
20	16QAM	50	0	18.51	18.45	18.26			
20	16QAM	50	24	18.41	18.43	18.25			
20	16QAM	50	50	18.46	18.44	18.24	19.5	2	
20	16QAM	100	0	18.38	18.36	18.19			
20	64QAM	1	0	18.38	18.43	18.08			
20	64QAM	1	49	18.32	18.35	18.13	19.5	2	
20	64QAM	1	99	18.37	18.35	18.08			
20	64QAM	50	0	17.35	17.41	17.16			
20	64QAM	50	24	17.29	17.30	17.12	18.5	3	
20	64QAM	50	50	17.35	17.34	17.16			
20	64QAM	100	0	17.22	17.36	17.03			
20	256QAM	1	0	15.40	15.43	15.27	16.5	5	
20	256QAM	1	49	15.37	15.42	15.24			
20	256QAM	1	99	15.39	15.42	15.23			
20	256QAM	50	0	15.37	15.39	15.05	16.5	5	
20	256QAM	50	24	15.37	15.33	15.16			
20	256QAM	50	50	15.40	15.30	15.16			
20	256QAM	100	0	15.27	15.32	15.08			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.46	20.46	20.18	21.5	0	
15	QPSK	1	37	20.39	20.39	20.11			
15	QPSK	1	74	20.32	20.39	20.14			
15	QPSK	36	0	19.46	19.45	19.20	20.5	1	
15	QPSK	36	20	19.39	19.32	19.12			
15	QPSK	36	39	19.41	19.34	19.09			
15	QPSK	75	0	19.28	19.40	19.06	20.5	1	
15	16QAM	1	0	19.41	19.40	19.14			
15	16QAM	1	37	19.42	19.39	19.17			
15	16QAM	1	74	19.36	19.47	19.19	19.5	2	
15	16QAM	36	0	18.41	18.41	18.25			
15	16QAM	36	20	18.29	18.39	18.19			
15	16QAM	36	39	18.37	18.34	18.21	19.5	2	
15	16QAM	75	0	18.27	18.32	18.14			
15	64QAM	1	0	18.28	18.36	18.01			
15	64QAM	1	37	18.30	18.30	18.02	19.5	2	
15	64QAM	1	74	18.36	18.28	18.07			
15	64QAM	36	0	17.26	17.32	17.08			
15	64QAM	36	20	17.25	17.27	17.04	18.5	3	
15	64QAM	36	39	17.27	17.31	17.05			
15	64QAM	75	0	17.13	17.26	17.00			
15	256QAM	1	0	15.31	15.37	15.24	16.5	5	
15	256QAM	1	37	15.27	15.37	15.18			
15	256QAM	1	74	15.32	15.34	15.12			
15	256QAM	36	0	15.33	15.37	14.98	16.5	5	
15	256QAM	36	20	15.33	15.22	15.07			
15	256QAM	36	39	15.40	15.27	15.07			
15	256QAM	75	0	15.24	15.23	15.00			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.38	20.42	20.16	21.5	0	
10	QPSK	1	25	20.31	20.31	20.15			
10	QPSK	1	49	20.33	20.43	20.12			
10	QPSK	25	0	19.41	19.38	19.18	20.5	1	
10	QPSK	25	12	19.41	19.37	19.21			
10	QPSK	25	25	19.36	19.41	19.11			
10	QPSK	50	0	19.27	19.39	19.06	20.5	1	
10	16QAM	1	0	19.40	19.33	19.17			
10	16QAM	1	25	19.39	19.36	19.14			
10	16QAM	1	49	19.35	19.48	19.16	19.5	2	
10	16QAM	25	0	18.41	18.39	18.17			
10	16QAM	25	12	18.40	18.40	18.18			
10	16QAM	25	25	18.44	18.38	18.15	19.5	2	
10	16QAM	50	0	18.29	18.36	18.12			
10	64QAM	1	0	18.28	18.35	18.00			
10	64QAM	1	25	18.29	18.29	18.02	19.5	2	
10	64QAM	1	49	18.29	18.28	18.02			
10	64QAM	25	0	17.35	17.37	17.07			
10	64QAM	25	12	17.17	17.25	17.04	18.5	3	
10	64QAM	25	25	17.27	17.30	17.14			
10	64QAM	50	0	17.13	17.24	16.96			
10	256QAM	1	0	15.37	15.40	15.15	16.5	5	
10	256QAM	1	25	15.27	15.32	15.18			
10	256QAM	1	49	15.32	15.34	15.19			
10	256QAM	25	0	15.33	15.29	14.99	16.5	5	
10	256QAM	25	12	15.36	15.21	15.13			
10	256QAM	25	25	15.32	15.24	15.09			
10	256QAM	50	0	15.25	15.26	15.00			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.42	20.43	20.22	21.5	0	
5	QPSK	1	12	20.38	20.33	20.11			
5	QPSK	1	24	20.39	20.34	20.09			
5	QPSK	12	0	19.43	19.37	19.17	20.5	1	
5	QPSK	12	7	19.41	19.38	19.13			
5	QPSK	12	13	19.40	19.35	19.10			
5	QPSK	25	0	19.29	19.32	19.09	20.5	1	
5	16QAM	1	0	19.37	19.34	19.08			
5	16QAM	1	12	19.42	19.44	19.19			
5	16QAM	1	24	19.42	19.40	19.13	19.5	2	
5	16QAM	12	0	18.47	18.40	18.23			
5	16QAM	12	7	18.30	18.42	18.22			
5	16QAM	12	13	18.37	18.43	18.12	19.5	2	
5	16QAM	25	0	18.31	18.30	18.08			
5	64QAM	1	0	18.36	18.41	18.02			
5	64QAM	1	12	18.23	18.27	18.06	19.5	2	
5	64QAM	1	24	18.30	18.25	18.04			
5	64QAM	12	0	17.26	17.41	17.10			
5	64QAM	12	7	17.23	17.19	17.01	18.5	3	
5	64QAM	12	13	17.33	17.24	17.09			
5	64QAM	25	0	17.16	17.24	16.95			
5	256QAM	1	0	15.32	15.33	15.16	16.5	5	
5	256QAM	1	12	15.26	15.38	15.22			
5	256QAM	1	24	15.37	15.34	15.17			
5	256QAM	12	0	15.37	15.27	15.02	16.5	5	
5	256QAM	12	7	15.25	15.29	15.16			
5	256QAM	12	13	15.33	15.29	15.12			
5	256QAM	25	0	15.22	15.24	15.06			

Band 48 Ant 3 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.46	20.46	20.39	20.38	21.5	0
20	QPSK	1	49	20.33	20.45	20.29	20.36		
20	QPSK	1	99	20.36	20.45	20.32	20.32		
20	QPSK	50	0	19.40	19.47	19.41	19.38	20.5	1
20	QPSK	50	24	19.48	19.48	19.33	19.34		
20	QPSK	50	50	19.37	19.42	19.36	19.34		
20	QPSK	100	0	19.32	19.47	19.37	19.32	20.5	1
20	16QAM	1	0	19.41	19.48	19.37	19.35		
20	16QAM	1	49	19.35	19.43	19.30	19.30		
20	16QAM	1	99	19.37	19.51	19.28	19.38	19.5	2
20	16QAM	50	0	18.42	18.50	18.40	18.33		
20	16QAM	50	24	18.50	18.47	18.32	18.31		
20	16QAM	50	50	18.35	18.40	18.38	18.34	19.5	2
20	16QAM	100	0	18.37	18.49	18.32	18.34		
20	64QAM	1	0	18.50	18.40	18.38	18.32		
20	64QAM	1	49	18.38	18.49	18.25	18.30	19.5	2
20	64QAM	1	99	18.32	18.42	18.34	18.37		
20	64QAM	50	0	17.37	17.49	17.41	17.33		
20	64QAM	50	24	17.44	17.48	17.39	17.33	18.5	3
20	64QAM	50	50	17.35	17.40	17.35	17.29		
20	64QAM	100	0	17.32	17.41	17.31	17.34		
20	256QAM</								

Band 38 Ant 4 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.11	23.16	23.12	24.5	0	
20	QPSK	1	49	23.09	23.15	23.05			
20	QPSK	1	99	23.03	23.14	23.05			
20	QPSK	50	0	22.10	22.20	22.15	23.5	1	
20	QPSK	50	24	22.05	22.18	22.13			
20	QPSK	50	50	22.11	22.15	22.07			
20	QPSK	100	0	22.14	22.18	22.14	23.5	1	
20	16QAM	1	0	22.10	22.16	22.15			
20	16QAM	1	49	22.09	22.11	22.04			
20	16QAM	1	99	22.05	22.13	22.06	22.5	2	
20	16QAM	50	0	21.08	21.15	21.05			
20	16QAM	50	24	21.07	21.17	21.15			
20	16QAM	50	50	21.17	21.17	21.07	22.5	2	
20	16QAM	100	0	21.01	21.14	20.99			
20	64QAM	1	0	21.09	21.17	21.09			
20	64QAM	1	49	21.05	21.14	21.03	22.5	2	
20	64QAM	1	99	21.08	21.11	21.07			
20	64QAM	50	0	20.12	20.17	20.08			
20	64QAM	50	24	20.08	20.24	20.11	21.5	3	
20	64QAM	50	50	20.16	20.16	20.11			
20	64QAM	100	0	19.97	20.14	20.05			
20	16QAM	1	0	18.05	18.20	18.06	19.5	5	
20	256QAM	1	49	18.10	18.18	18.04			
20	256QAM	1	99	18.04	18.11	18.00			
20	256QAM	50	0	18.08	18.19	18.04	19.5	5	
20	256QAM	50	24	18.05	18.14	18.12			
20	256QAM	50	50	18.06	18.17	18.04			
20	256QAM	100	0	18.02	18.18	18.08			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.09	23.14	23.02	24.5	0	
15	QPSK	1	37	23.08	23.08	23.02			
15	QPSK	1	74	22.92	23.10	23.03			
15	QPSK	36	0	22.02	22.09	22.07	23.5	1	
15	QPSK	36	20	21.98	22.07	22.12			
15	QPSK	36	39	22.10	22.15	22.05			
15	QPSK	75	0	22.11	22.12	22.02	23.5	1	
15	16QAM	1	0	21.99	22.06	22.10			
15	16QAM	1	37	22.09	22.07	21.98			
15	16QAM	1	74	21.96	22.10	21.98	22.5	2	
15	16QAM	36	0	21.05	21.10	20.99			
15	16QAM	36	20	21.05	21.12	21.06			
15	16QAM	36	39	21.12	21.11	21.02	22.5	2	
15	16QAM	75	0	20.97	21.03	20.91			
15	64QAM	1	0	21.02	21.10	21.03			
15	64QAM	1	37	20.95	21.08	21.02	22.5	2	
15	64QAM	1	74	21.02	21.09	20.99			
15	64QAM	36	0	20.07	20.13	20.09			
15	64QAM	36	20	20.06	20.12	20.07	21.5	3	
15	64QAM	36	39	20.16	20.06	20.05			
15	64QAM	75	0	19.85	20.11	20.02			
15	256QAM	1	0	17.96	18.12	18.04	19.5	5	
15	256QAM	1	37	18.01	18.11	17.99			
15	256QAM	1	74	18.04	18.03	17.93			
15	256QAM	36	0	18.06	18.19	17.95	19.5	5	
15	256QAM	36	20	18.04	18.09	18.12			
15	256QAM	36	39	18.05	18.15	18.03			
15	256QAM	75	0	17.99	18.13	17.99			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.10	23.14	23.09	24.5	0	
10	QPSK	1	25	23.00	23.09	22.95			
10	QPSK	1	49	22.93	23.12	22.99			
10	QPSK	25	0	22.09	22.16	22.10	23.5	1	
10	QPSK	25	12	21.96	22.07	22.04			
10	QPSK	25	25	22.05	22.13	22.05			
10	QPSK	50	0	22.13	22.13	22.12	23.5	1	
10	16QAM	1	0	22.04	22.14	22.13			
10	16QAM	1	25	22.07	22.05	22.01			
10	16QAM	1	49	21.96	22.04	22.01	22.5	2	
10	16QAM	25	0	21.00	21.11	21.14			
10	16QAM	25	12	21.00	21.11	21.14			
10	16QAM	25	25	21.05	21.15	21.01	22.5	2	
10	16QAM	50	0	20.98	21.11	20.92			
10	64QAM	1	0	21.02	21.16	21.09			
10	64QAM	1	25	20.96	21.12	20.97	22.5	2	
10	64QAM	1	49	21.05	21.01	20.99			
10	64QAM	25	0	20.10	20.06	20.05			
10	64QAM	25	12	20.02	20.16	20.06	21.5	3	
10	64QAM	25	25	20.05	20.13	20.10			
10	64QAM	50	0	19.91	20.04	19.94			
10	256QAM	1	0	17.99	18.09	18.01	19.5	5	
10	256QAM	1	25	18.03	18.11	18.01			
10	256QAM	1	49	18.03	18.05	17.94			
10	256QAM	25	0	17.96	18.10	18.02	19.5	5	
10	256QAM	25	12	18.03	18.05	18.08			
10	256QAM	25	25	17.97	18.06	17.95			
10	256QAM	50	0	17.99	18.15	17.99			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.04	23.14	23.03	24.5	0	
5	QPSK	1	12	23.07	23.08	23.03			
5	QPSK	1	24	23.01	23.06	22.94			
5	QPSK	12	0	22.05	22.14	22.12	23.5	1	
5	QPSK	12	7	21.99	22.12	22.13			
5	QPSK	12	13	22.06	22.05	22.02			
5	QPSK	25	0	22.02	22.15	22.11	23.5	1	
5	16QAM	1	0	22.02	22.11	22.10			
5	16QAM	1	12	22.09	22.01	22.02			
5	16QAM	1	24	21.97	22.06	22.03	22.5	2	
5	16QAM	12	0	20.99	21.06	20.94			
5	16QAM	12	7	20.99	21.12	21.07			
5	16QAM	12	13	21.08	21.10	21.05	22.5	2	
5	16QAM	25	0	20.91	21.09	20.88			
5	64QAM	1	0	21.04	21.16	20.98			
5	64QAM	1	12	21.03	21.09	20.96	22.5	2	
5	64QAM	1	24	21.03	21.08	21.04			
5	64QAM	12	0	20.09	20.07	20.06			
5	64QAM	12	7	19.96	20.18	20.01	21.5	3	
5	64QAM	12	13	20.13	20.09	20.05			
5	64QAM	25	0	19.89	20.08	20.00			
5	256QAM	1	0	18.05	18.11	18.06	19.5	5	
5	256QAM	1	12	18.05	18.11	18.03			
5	256QAM	1	24	17.99	18.07	17.92			
5	256QAM	12	0	18.07	18.10	17.92	19.5	5	
5	256QAM	12	7	18.00	18.03	18.10			
5	256QAM	12	13	17.94	18.10	17.94			
5	256QAM	25	0	17.93	18.12	18.03			

Band 41 Ant 4 DSI 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.09	23.16	23.27	23.14	23.25	24.5	0
20	QPSK	1	49	23.02	23.14	23.25	23.09	23.17		
20	QPSK	1	99	23.01	23.15	23.22	23.09	23.17		
20	QPSK	50	0	22.07	22.12	22.27	22.15	22.29	23.5	1
20	QPSK	50	24	22.11	22.18	22.26	22.13	22.24		
20	QPSK	50	50	22.02	22.19	22.23	22.04	22.13		
20	QPSK	100	0	22.01	22.10	22.26	22.08	22.26	23.5	1
20	16QAM	1	0	22.14	22.12	22.24	22.11	22.24		
20	16QAM	1	49	21.98	22.16	22.20	22.11	22.20		
20	16QAM	1	99	21.97	22.19	22.18	22.04	22.21	22.5	2
20	16QAM	50	0	21.09	21.17	21.28	21.15	21.28		
20	16QAM	50	24	21.13	21.16	21.23	21.19	21.25		
20	16QAM	50	50	21.08	21.24	21.27	21.03	21.13	22.5	2
20	16QAM	100	0	21.05	21.10	21.22	21.09	21.15		
20	64QAM	1	0	21.04	21.21	21.26	21.19	21.21		
20	64QAM	1	49	21.03	21.09	21.24	21.07	21.15	22.5	2
20	64QAM	1	99	21.02	21.14	21.24	21.08	21.20		
20	64QAM	50	0	20.11	20.17	20.29	20.14	20.34		

Band 42 Part 27Q Ant 5 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42990	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	24.56	24.59	24.54	25.5	0	
20	QPSK	1	49	24.54	24.57	24.51			
20	QPSK	1	99	24.52	24.56	24.49			
20	QPSK	50	0	23.53	23.57	23.52	24.5	1	
20	QPSK	50	24	23.57	23.56	23.57			
20	QPSK	50	50	23.54	23.55	23.45			
20	QPSK	100	0	23.52	23.55	23.54	24.5	1	
20	16QAM	1	0	23.53	23.57	23.52			
20	16QAM	1	49	23.59	23.58	23.46			
20	16QAM	1	99	23.52	23.60	23.46	23.5	2	
20	16QAM	50	0	22.48	22.56	22.51			
20	16QAM	50	24	22.52	22.50	22.51			
20	16QAM	50	50	22.59	22.52	22.48	23.5	2	
20	16QAM	100	0	22.47	22.56	22.53			
20	64QAM	1	0	22.53	22.56	22.57			
20	64QAM	1	49	22.50	22.56	22.50	23.5	2	
20	64QAM	1	99	22.51	22.60	22.45			
20	64QAM	50	0	21.58	21.61	21.53			
20	64QAM	50	24	21.54	21.58	21.59	22.5	3	
20	64QAM	50	50	21.55	21.61	21.41			
20	64QAM	100	0	21.55	21.52	21.55			
20	256QAM	1	0	19.55	19.56	19.49	20.5	5	
20	256QAM	1	49	19.54	19.56	19.53			
20	256QAM	1	99	19.54	19.61	19.48			
20	256QAM	50	0	19.57	19.59	19.52	20.5	5	
20	256QAM	50	24	19.52	19.54	19.61			
20	256QAM	50	50	19.53	19.56	19.48			
20	256QAM	100	0	19.55	19.57	19.56			
Channel				42165	42990	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	24.46	24.56	24.47	25.5	0	
15	QPSK	1	37	24.46	24.47	24.39			
15	QPSK	1	74	24.40	24.48	24.48			
15	QPSK	36	0	23.44	23.45	23.51	24.5	1	
15	QPSK	36	20	23.52	23.49	23.54			
15	QPSK	36	39	23.49	23.45	23.41			
15	QPSK	75	0	23.40	23.46	23.46	24.5	1	
15	16QAM	1	0	23.46	23.56	23.40			
15	16QAM	1	37	23.48	23.47	23.36			
15	16QAM	1	74	23.49	23.50	23.36	23.5	2	
15	16QAM	36	0	22.36	22.50	22.47			
15	16QAM	36	20	22.51	22.46	22.49			
15	16QAM	36	39	22.48	22.50	22.42	23.5	2	
15	16QAM	75	0	22.45	22.51	22.46			
15	64QAM	1	0	22.50	22.51	22.46			
15	64QAM	1	37	22.40	22.46	22.47	23.5	2	
15	64QAM	1	74	22.46	22.57	22.43			
15	64QAM	36	0	21.51	21.59	21.52			
15	64QAM	36	20	21.47	21.46	21.57	22.5	3	
15	64QAM	36	39	21.51	21.54	21.33			
15	64QAM	75	0	21.50	21.45	21.48			
15	256QAM	1	0	19.52	19.51	19.41	20.5	5	
15	256QAM	1	37	19.43	19.56	19.51			
15	256QAM	1	74	19.46	19.60	19.42			
15	256QAM	36	0	19.56	19.57	19.40	20.5	5	
15	256QAM	36	20	19.46	19.45	19.57			
15	256QAM	36	39	19.50	19.50	19.40			
15	256QAM	75	0	19.51	19.51	19.45			
Channel				42140	42990	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	24.51	24.58	24.43	25.5	0	
10	QPSK	1	25	24.47	24.50	24.43			
10	QPSK	1	49	24.49	24.55	24.41			
10	QPSK	25	0	23.44	23.56	23.45	24.5	1	
10	QPSK	25	12	23.52	23.45	23.50			
10	QPSK	25	25	23.49	23.50	23.43			
10	QPSK	50	0	23.44	23.53	23.50	24.5	1	
10	16QAM	1	0	23.49	23.45	23.44			
10	16QAM	1	25	23.52	23.47	23.45			
10	16QAM	1	49	23.40	23.60	23.44	23.5	2	
10	16QAM	25	0	22.44	22.55	22.48			
10	16QAM	25	12	22.44	22.39	22.46			
10	16QAM	25	25	22.56	22.49	22.41	23.5	2	
10	16QAM	50	0	22.41	22.54	22.51			
10	64QAM	1	0	22.48	22.54	22.50			
10	64QAM	1	25	22.49	22.49	22.46	23.5	2	
10	64QAM	1	49	22.41	22.56	22.36			
10	64QAM	25	0	21.55	21.57	21.48			
10	64QAM	25	12	21.49	21.54	21.51	22.5	3	
10	64QAM	25	25	21.49	21.50	21.30			
10	64QAM	50	0	21.43	21.47	21.49			
10	256QAM	1	0	19.45	19.52	19.42	20.5	5	
10	256QAM	1	25	19.50	19.53	19.45			
10	256QAM	1	49	19.53	19.51	19.37			
10	256QAM	25	0	19.49	19.52	19.47	20.5	5	
10	256QAM	25	12	19.44	19.44	19.50			
10	256QAM	25	25	19.46	19.48	19.43			
10	256QAM	50	0	19.49	19.55	19.52			
Channel				42115	42990	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	24.50	24.54	24.49	25.5	0	
5	QPSK	1	12	24.44	24.54	24.47			
5	QPSK	1	24	24.50	24.52	24.39			
5	QPSK	12	0	23.44	23.46	23.44	24.5	1	
5	QPSK	12	7	23.45	23.45	23.46			
5	QPSK	12	13	23.48	23.45	23.38			
5	QPSK	25	0	23.43	23.49	23.50	24.5	1	
5	16QAM	1	0	23.53	23.51	23.42			
5	16QAM	1	12	23.54	23.48	23.37			
5	16QAM	1	24	23.44	23.59	23.38	23.5	2	
5	16QAM	12	0	22.45	22.48	22.44			
5	16QAM	12	7	22.45	22.45	22.48			
5	16QAM	12	13	22.47	22.50	22.42	23.5	2	
5	16QAM	25	0	22.36	22.51	22.44			
5	64QAM	1	0	22.48	22.49	22.53			
5	64QAM	1	12	22.42	22.53	22.47	23.5	2	
5	64QAM	1	24	22.45	22.49	22.42			
5	64QAM	12	0	21.50	21.57	21.45			
5	64QAM	12	7	21.52	21.54	21.57	22.5	3	
5	64QAM	12	13	21.48	21.54	21.30			
5	64QAM	25	0	21.54	21.45	21.47			
5	256QAM	1	0	19.47	19.44	19.38	20.5	5	
5	256QAM	1	12	19.52	19.55	19.51			
5	256QAM	1	24	19.52	19.59	19.40			
5	256QAM	12	0	19.51	19.53	19.44	20.5	5	
5	256QAM	12	7	19.40	19.42	19.59			
5	256QAM	12	13	19.42	19.46	19.39			
5	256QAM	25	0	19.55	19.45	19.54			

Band 48 Ant 5 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55830	56150	56640			
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	24.41	24.48	24.34	24.38	25.5	0
20	QPSK	1	49	24.37	24.46	24.28	24.33		
20	QPSK	1	99	24.38	24.43	24.32	24.35		
20	QPSK	50	0	23.43	23.46	23.34	23.36	24.5	1
20	QPSK	50	24	23.46	23.51	23.32	23.33		
20	QPSK	50	50	23.41	23.49	23.32	23.32		
20	QPSK	100	0	23.42	23.45	23.35	23.38	24.5	1
20	16QAM	1	0	23.47	23.42	23.31	23.41		
20	16QAM	1	49	23.33	23.45	23.29	23.34		
20	16QAM	1	99	23.35	23.39	23.30	23.40	23.5	2
20	16QAM	50	0	22.47	22.52	22.33	22.34		
20	16QAM	50	24	22.46	22.49	22.27	22.27		
20	16QAM	50	50	22.42	22.52	22.36	22.28	23.5	2
20	16QAM	100	0	22.41	22.46	22.34	22.33		
20	64QAM	1	0	22.37	22.45	22.34	22.36		
20	64QAM	1	49	22.38	22.48	22.24	22.32	23.5	2
20	64QAM	1	99	22.43	22.48	22.29	22.38		
20	64QAM	50	0	21.44	21.50	21.36	21.40		
20	64QAM	50	24	21.47	21.48	21.30	21.32	22.5	3
20	64QAM	50	50	21.40	21.52	21.33	21.29		
20	64QAM	100	0	21.43	21.47	21.30	21.31		
20	256QAM	1	0	19.41	19.47	1			

Band 42 Part 27Q Ant 7 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.79	20.81	20.75	22	0	
20	QPSK	1	49	20.70	20.78	20.68			
20	QPSK	1	99	20.74	20.69	20.68			
20	QPSK	50	0	20.66	20.78	20.64	22	0	
20	QPSK	50	24	20.71	20.72	20.62			
20	QPSK	50	50	20.68	20.75	20.65			
20	QPSK	100	0	20.75	20.75	20.72	22	0	
20	16QAM	1	0	20.65	20.69	20.73			
20	16QAM	1	49	20.66	20.75	20.56			
20	16QAM	1	99	20.61	20.59	20.66	22	0	
20	16QAM	50	0	20.62	20.69	20.52			
20	16QAM	50	24	20.68	20.59	20.57			
20	16QAM	50	50	20.66	20.72	20.62	22	0	
20	16QAM	100	0	20.68	20.68	20.65			
20	64QAM	1	0	20.74	20.70	20.67			
20	64QAM	1	49	20.64	20.73	20.56	22	0	
20	64QAM	1	99	20.66	20.63	20.58			
20	64QAM	50	0	19.73	19.78	19.72			
20	64QAM	50	24	19.65	19.78	19.71	21	1	
20	64QAM	50	50	19.71	19.74	19.74			
20	64QAM	100	0	19.63	19.77	19.66			
20	256QAM	1	0	17.83	17.79	17.89	19	3	
20	256QAM	1	49	17.89	17.73	17.82			
20	256QAM	1	99	17.76	17.71	17.82			
20	256QAM	50	0	17.70	17.76	17.65	19	3	
20	256QAM	50	24	17.89	17.68	17.58			
20	256QAM	50	50	17.71	17.80	17.63			
20	256QAM	100	0	17.72	17.71	17.75			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.69	20.75	20.61	22	0	
15	QPSK	1	37	20.57	20.66	20.65			
15	QPSK	1	74	20.65	20.62	20.56			
15	QPSK	36	0	20.62	20.67	20.55	22	0	
15	QPSK	36	20	20.63	20.64	20.51			
15	QPSK	36	39	20.66	20.71	20.58			
15	QPSK	75	0	20.73	20.65	20.64	22	0	
15	16QAM	1	0	20.62	20.56	20.69			
15	16QAM	1	37	20.60	20.66	20.45			
15	16QAM	1	74	20.48	20.48	20.63	22	0	
15	16QAM	36	0	20.54	20.57	20.45			
15	16QAM	36	20	20.65	20.45	20.50			
15	16QAM	36	39	20.54	20.58	20.49	22	0	
15	16QAM	75	0	20.66	20.56	20.60			
15	64QAM	1	0	20.65	20.57	20.56			
15	64QAM	1	37	20.52	20.69	20.51	22	0	
15	64QAM	1	74	20.58	20.60	20.53			
15	64QAM	36	0	19.70	19.72	19.59			
15	64QAM	36	20	19.60	19.74	19.65	21	1	
15	64QAM	36	39	19.65	19.65	19.71			
15	64QAM	75	0	19.56	19.64	19.61			
15	256QAM	1	0	17.70	17.68	17.55	19	3	
15	256QAM	1	37	17.86	17.66	17.58			
15	256QAM	1	74	17.84	17.61	17.59			
15	256QAM	36	0	17.59	17.65	17.54	19	3	
15	256QAM	36	20	17.57	17.62	17.49			
15	256QAM	36	39	17.69	17.73	17.56			
15	256QAM	75	0	17.64	17.64	17.67			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.69	20.69	20.67	22	0	
10	QPSK	1	25	20.66	20.72	20.65			
10	QPSK	1	49	20.63	20.66	20.57			
10	QPSK	25	0	20.58	20.72	20.54	22	0	
10	QPSK	25	12	20.57	20.68	20.58			
10	QPSK	25	25	20.55	20.70	20.57			
10	QPSK	50	0	20.72	20.66	20.67	22	0	
10	16QAM	1	0	20.61	20.57	20.70			
10	16QAM	1	25	20.62	20.70	20.51			
10	16QAM	1	49	20.55	20.47	20.64	22	0	
10	16QAM	25	0	20.51	20.58	20.49			
10	16QAM	25	12	20.57	20.56	20.49			
10	16QAM	25	25	20.63	20.64	20.56	22	0	
10	16QAM	50	0	20.60	20.55	20.54			
10	16QAM	1	0	20.61	20.56	20.59			
10	64QAM	1	25	20.58	20.63	20.54	22	0	
10	64QAM	1	49	20.60	20.53	20.45			
10	64QAM	25	0	19.69	19.69	19.64			
10	64QAM	25	12	19.59	19.68	19.63	21	1	
10	64QAM	25	25	19.69	19.71	19.69			
10	64QAM	50	0	19.52	19.68	19.63			
10	256QAM	1	0	17.72	17.71	17.59	19	3	
10	256QAM	1	25	17.58	17.69	17.53			
10	256QAM	1	49	17.70	17.59	17.48			
10	256QAM	25	0	17.61	17.73	17.54	19	3	
10	256QAM	25	12	17.99	17.63	17.50			
10	256QAM	25	25	17.57	17.78	17.53			
10	256QAM	50	0	17.62	17.57	17.64			
Channel				42115	42590	43365			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.73	20.67	20.71	22	0	
5	QPSK	1	12	20.64	20.68	20.65			
5	QPSK	1	24	20.71	20.59	20.56			
5	QPSK	12	0	20.58	20.65	20.54	22	0	
5	QPSK	12	7	20.67	20.70	20.52			
5	QPSK	12	13	20.54	20.70	20.52			
5	QPSK	25	0	20.66	20.72	20.66	22	0	
5	16QAM	1	0	20.55	20.63	20.73			
5	16QAM	1	12	20.52	20.63	20.41			
5	16QAM	1	24	20.58	20.50	20.63	22	0	
5	16QAM	12	0	20.52	20.59	20.48			
5	16QAM	12	7	20.57	20.51	20.53			
5	16QAM	12	13	20.62	20.70	20.55	22	0	
5	16QAM	25	0	20.64	20.59	20.59			
5	64QAM	1	0	20.69	20.66	20.60			
5	64QAM	1	12	20.52	20.71	20.50	22	0	
5	64QAM	1	24	20.61	20.56	20.48			
5	64QAM	12	0	19.66	19.76	19.63			
5	64QAM	12	7	19.63	19.71	19.62	21	1	
5	64QAM	12	13	19.59	19.64	19.69			
5	64QAM	25	0	19.53	19.68	19.54			
5	256QAM	1	0	17.81	17.66	17.57	19	3	
5	256QAM	1	12	17.58	17.67	17.57			
5	256QAM	1	24	17.71	17.62	17.60			
5	256QAM	12	0	17.64	17.70	17.63	19	3	
5	256QAM	12	7	17.64	17.58	17.45			
5	256QAM	12	13	17.64	17.76	17.52			
5	256QAM	25	0	17.70	17.67	17.61			

Band 48 Ant 7 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.15	22.23	22.20	22.16	23.5	0
20	QPSK	1	49	22.05	22.16	22.12	22.06		
20	QPSK	1	99	22.03	22.12	22.16	22.10		
20	QPSK	50	0	21.18	21.25	21.15	21.16	22.5	1
20	QPSK	50	24	21.06	21.12	21.17	21.06		
20	QPSK	50	50	21.02	21.15	21.21	21.05		
20	QPSK	100	0	21.11	21.21	21.19	21.19	22.5	1
20	16QAM	1	0	21.19	21.18	21.24	21.15		
20	16QAM	1	49	21.03	21.17	21.08	21.01		
20	16QAM	1	99	21.00	21.17	21.22	21.15	21.5	2
20	16QAM	50	0	20.16	20.22	20.15	20.13		
20	16QAM	50	24	20.03	20.16	20.15	20.08		
20	16QAM	50	50	19.97	20.20	20.17	20.01	21.5	2
20	16QAM	100	0	20.14	20.20	20.24	20.14		
20	64QAM	1	0	20.19	20.13	20.26	20.17		
20	64QAM	1	49	20.07	20.14	20.12	19.96	21.5	2
20	64QAM	1	99	19.99	20.14	20.26	20.17		
20	64QAM	50	0	19.17	19.23	19.18	19.13		
20	64QAM	50	24	19.00	19.11	19.20	19.02	20.5	3
20	64QAM	50	50	19.01	19.12	19.25	19.07		
20	64QAM	100	0	19.08	19.16	19.20	19.13		
20	256QAM	1	0	17.77	17.24	17.12	17.19	18.5	5
20	256QAM								

Reduced Power Mode for Main PA DS12 ENDC

Band 7 Ant 3 DSI 2 for ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.79	22.81	22.75	23.5	0	
20	QPSK	1	49	22.69	22.76	22.69			
20	QPSK	1	99	22.72	22.74	22.67			
20	QPSK	50	0	22.69	22.76	22.71	23.5	0	
20	QPSK	50	24	22.56	22.68	22.63			
20	QPSK	50	50	22.62	22.64	22.62			
20	QPSK	100	0	22.63	22.75	22.64	23.5	0	
20	16QAM	1	0	22.64	22.73	22.69			
20	16QAM	1	49	22.50	22.73	22.62			
20	16QAM	1	99	22.59	22.69	22.58	22.5	1	
20	16QAM	50	0	21.69	21.80	21.67			
20	16QAM	50	24	21.58	21.66	21.67			
20	16QAM	50	50	21.60	21.64	21.58	22.5	1	
20	16QAM	100	0	21.62	21.80	21.60			
20	64QAM	1	0	21.67	21.79	21.65			
20	64QAM	1	49	21.52	21.78	21.63	22.5	1	
20	64QAM	1	99	21.57	21.72	21.61			
20	64QAM	50	0	20.71	20.75	20.74			
20	64QAM	50	24	20.51	20.74	20.67	21.5	2	
20	64QAM	50	50	20.85	20.59	20.84			
20	64QAM	100	0	20.59	20.73	20.66			
20	256QAM	1	0	18.73	18.72	18.68	19.5	4	
20	256QAM	1	49	18.55	18.66	18.67			
20	256QAM	1	99	18.59	18.65	18.62			
20	256QAM	50	0	18.67	18.70	18.64	19.5	4	
20	256QAM	50	24	18.64	18.71	18.74			
20	256QAM	50	50	18.46	18.77	18.67			
20	256QAM	100	0	18.56	18.71	18.58			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.72	22.79	22.70	23.5	0	
15	QPSK	1	37	22.62	22.73	22.61			
15	QPSK	1	74	22.73	22.65	22.66			
15	QPSK	36	0	22.67	22.66	22.61	23.5	0	
15	QPSK	36	20	22.50	22.57	22.51			
15	QPSK	36	39	22.63	22.57	22.49			
15	QPSK	75	0	22.55	22.65	22.59	23.5	0	
15	16QAM	1	0	22.56	22.69	22.63			
15	16QAM	1	37	22.42	22.65	22.55			
15	16QAM	1	74	22.46	22.65	22.53	22.5	1	
15	16QAM	36	0	21.60	21.74	21.57			
15	16QAM	36	20	21.56	21.63	21.56			
15	16QAM	36	39	21.47	21.61	21.44	22.5	1	
15	16QAM	75	0	21.52	21.76	21.50			
15	64QAM	1	0	21.61	21.71	21.59			
15	64QAM	1	37	21.49	21.68	21.58	22.5	1	
15	64QAM	1	74	21.46	21.65	21.47			
15	64QAM	36	0	20.62	20.69	20.72			
15	64QAM	36	20	20.48	20.63	20.54	21.5	2	
15	64QAM	36	39	20.54	20.40	20.53			
15	64QAM	75	0	20.49	20.64	20.60			
15	256QAM	1	0	18.60	18.70	18.62	19.5	4	
15	256QAM	1	37	18.45	18.58	18.57			
15	256QAM	1	74	18.55	18.63	18.51			
15	256QAM	36	0	18.65	18.61	18.61	19.5	4	
15	256QAM	36	20	18.51	18.57	18.69			
15	256QAM	36	39	18.41	18.67	18.61			
15	256QAM	75	0	18.46	18.61	18.49			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.80	22.74	22.70	23.5	0	
10	QPSK	1	25	22.66	22.76	22.68			
10	QPSK	1	49	22.66	22.76	22.70			
10	QPSK	25	0	22.62	22.65	22.60	23.5	0	
10	QPSK	25	12	22.64	22.64	22.59			
10	QPSK	25	25	22.56	22.52	22.58			
10	QPSK	50	0	22.56	22.69	22.62	23.5	0	
10	16QAM	1	0	22.52	22.60	22.66			
10	16QAM	1	25	22.39	22.65	22.57			
10	16QAM	1	49	22.54	22.67	22.49	22.5	1	
10	16QAM	25	0	21.60	21.73	21.60			
10	16QAM	25	12	21.48	21.57	21.64			
10	16QAM	25	25	21.57	21.57	21.55	22.5	1	
10	16QAM	50	0	21.52	21.78	21.48			
10	64QAM	1	0	21.54	21.67	21.60			
10	64QAM	1	25	21.49	21.74	21.59	22.5	1	
10	64QAM	1	49	21.43	21.63	21.57			
10	64QAM	25	0	20.68	20.73	20.70			
10	64QAM	25	12	20.39	20.61	20.64	21.5	2	
10	64QAM	25	25	20.58	20.47	20.61			
10	64QAM	50	0	20.47	20.64	20.62			
10	256QAM	1	0	18.71	18.62	18.59	19.5	4	
10	256QAM	1	25	18.53	18.56	18.64			
10	256QAM	1	49	18.47	18.54	18.48			
10	256QAM	25	0	18.55	18.58	18.62	19.5	4	
10	256QAM	25	12	18.62	18.68	18.69			
10	256QAM	25	25	18.44	18.65	18.54			
10	256QAM	50	0	18.49	18.69	18.51			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.76	22.79	22.69	23.5	0	
5	QPSK	1	12	22.70	22.75	22.61			
5	QPSK	1	24	22.65	22.71	22.69			
5	QPSK	12	0	22.59	22.65	22.67	23.5	0	
5	QPSK	12	7	22.46	22.56	22.57			
5	QPSK	12	13	22.53	22.57	22.50			
5	QPSK	25	0	22.53	22.62	22.61	23.5	0	
5	16QAM	1	0	22.56	22.61	22.65			
5	16QAM	1	12	22.41	22.61	22.56			
5	16QAM	1	24	22.47	22.56	22.46	22.5	1	
5	16QAM	12	0	21.60	21.71	21.64			
5	16QAM	12	7	21.45	21.53	21.59			
5	16QAM	12	13	21.55	21.61	21.55	22.5	1	
5	16QAM	25	0	21.49	21.72	21.47			
5	64QAM	1	0	21.63	21.66	21.53			
5	64QAM	1	12	21.40	21.71	21.53	22.5	1	
5	64QAM	1	24	21.50	21.61	21.53			
5	64QAM	12	0	20.57	20.73	20.70			
5	64QAM	12	7	20.40	20.64	20.54	21.5	2	
5	64QAM	12	13	20.63	20.47	20.51			
5	64QAM	25	0	20.54	20.70	20.63			
5	256QAM	1	0	18.71	18.65	18.62	19.5	4	
5	256QAM	1	12	18.52	18.55	18.57			
5	256QAM	1	24	18.54	18.63	18.53			
5	256QAM	12	0	18.62	18.65	18.59	19.5	4	
5	256QAM	12	7	18.50	18.64	18.65			
5	256QAM	12	13	18.34	18.74	18.63			
5	256QAM	25	0	18.46	18.60	18.47			



Reduced Power Mode for DSI3_Main PA

GSM900 Ant 1 DSI 3 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slots	32.26	32.29	32.28	33.50	23.26	23.29	23.28	24.50
GPRS 1 Tx slots	32.24	32.26	32.24	33.50	23.24	23.26	23.24	24.50
GPRS 2 Tx slots	31.43	31.53	31.51	32.50	25.43	25.53	25.51	26.50
GPRS 3 Tx slots	29.67	29.75	29.77	31.00	25.41	25.49	25.51	26.74
GPRS 4 Tx slots	28.63	28.67	28.73	30.00	25.63	25.67	25.73	27.00
EDGE 1 Tx slots	29.67	29.99	29.94	29.00	17.67	17.99	17.94	19.00
EDGE 2 Tx slots	23.95	23.99	23.90	25.00	17.95	17.99	17.90	19.00
EDGE 3 Tx slots	22.09	22.15	22.13	23.20	17.83	17.89	17.87	18.94
EDGE 4 Tx slots	20.83	20.98	20.94	22.00	17.83	17.98	17.94	19.00

GSM1900 Ant 1 DSI 3 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1957.2	1959.2	1961.2	1957.2	1959.2	1961.2		
GSM 1 Tx slots	29.18	29.45	29.43	30.50	20.18	20.45	20.43	21.50
GPRS 1 Tx slots	29.31	29.38	29.36	30.50	20.31	20.38	20.36	21.50
GPRS 2 Tx slots	26.90	26.97	26.86	28.00	20.90	20.97	20.86	22.00
GPRS 3 Tx slots	24.90	24.95	24.99	26.20	20.84	20.89	20.93	21.94
GPRS 4 Tx slots	23.55	23.62	23.54	25.00	20.55	20.62	20.54	22.00
EDGE 1 Tx slots	25.84	25.90	25.81	27.00	16.84	16.90	16.81	18.00
EDGE 2 Tx slots	22.85	22.88	22.80	24.00	16.85	16.88	16.80	18.00
EDGE 3 Tx slots	21.02	21.08	21.01	22.20	16.76	16.82	16.75	17.94
EDGE 4 Tx slots	19.82	19.87	19.82	21.00	16.82	16.87	16.82	18.00

Band TX Channel	WCDMA V Ar1 T DSI 3			Tune-up Limit (dBm)	WCDMA IV Ar1 T DSI 3			Tune-up Limit (dBm)	WCDMA V Ar1 T DSI 3			Tune-up Limit (dBm)
	Rx Channel	9000	9800		2538	1312	1413		1513	4132	4182	
Frequency (MHz)	9662	9800	9938	9662	1712.4	1732.6	1752.6	4357	4407	4458		
ISPP Rel 99 AMR 12.2kops	18.93	19.00	18.83	20.00	18.83	18.90	18.83	20.00	24.38	24.46	24.35	25.50
ISPP Rel 99 RMC 12.2kops	18.86	19.01	18.97	20.00	18.86	18.97	18.93	20.00	24.48	24.50	24.44	25.50
ISPP Rel 6 HSDPA Subtest-1	17.81	18.00	17.95	19.00	17.98	17.99	17.98	19.00	23.52	23.54	23.46	24.50
ISPP Rel 6 HSDPA Subtest-2	17.91	18.04	17.97	19.00	17.91	18.02	17.95	19.00	23.50	23.47	23.43	24.50
ISPP Rel 6 HSDPA Subtest-3	17.36	17.47	17.42	18.50	17.51	17.50	17.42	18.50	22.94	23.01	22.90	24.00
ISPP Rel 6 HSDPA Subtest-4	17.60	17.54	17.42	18.50	17.47	17.49	17.38	18.50	23.01	22.98	22.91	24.00
ISPP Rel 8 DC-HSDPA Subtest-1	17.84	18.06	17.92	19.00	17.98	18.01	17.96	19.00	23.46	23.56	23.41	24.50
ISPP Rel 8 DC-HSDPA Subtest-2	17.84	17.97	17.94	19.00	17.99	18.02	17.94	19.00	23.47	23.53	23.48	24.50
ISPP Rel 8 DC-HSDPA Subtest-3	17.33	17.51	17.42	18.50	17.50	17.46	17.40	18.50	23.01	23.04	22.94	24.00
ISPP Rel 8 DC-HSDPA Subtest-4	17.38	17.52	17.52	18.50	17.44	17.44	17.45	18.50	23.01	23.01	22.97	24.00
ISPP Rel 6 HSUPA Subtest-1	17.85	17.95	18.00	19.00	18.00	17.96	17.90	19.00	23.49	23.52	23.42	24.50
ISPP Rel 6 HSUPA Subtest-2	15.83	16.00	15.96	17.00	15.98	15.95	15.92	17.00	21.48	21.50	21.41	22.50
ISPP Rel 6 HSUPA Subtest-3	16.83	17.02	16.92	18.00	16.88	16.96	16.93	18.00	22.51	22.48	22.38	23.50
ISPP Rel 6 HSUPA Subtest-4	15.90	16.01	16.03	17.00	15.98	16.01	15.95	17.00	21.48	21.51	21.45	22.50
ISPP Rel 6 HSUPA Subtest-5	17.87	18.01	18.00	19.00	17.90	17.98	17.88	19.00	23.45	23.49	23.49	24.50
ISPP Rel 7 HSPA+ (16QAM) Subtest	15.33	15.49	15.52	16.50	15.41	15.44	15.46	16.50	20.96	21.01	20.97	22.00



Band 2 Ant 1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.96	19.03	18.92				
20	QPSK	1	49	18.92	18.91	18.79	20	0		
20	QPSK	50	0	18.91	19.01	18.84				
20	QPSK	50	49	18.83	18.99	18.82				
20	QPSK	50	50	18.87	18.93	18.82	20	0		
20	QPSK	100	0	18.82	18.99	18.83				
20	QPSK	100	49	18.82	18.97	18.89				
20	HQAM	1	49	18.70	18.93	18.68	20	0		
20	HQAM	1	99	18.84	18.85	18.70				
20	HQAM	50	0	18.77	18.97	18.77				
20	HQAM	50	24	18.77	18.95	18.81	20	0		
20	HQAM	50	50	18.81	18.80	18.72				
20	HQAM	100	0	18.85	18.85	18.77				
20	HQAM	100	49	18.89	18.88	18.90				
20	HQAM	1	49	18.78	18.84	18.77	20	0		
20	HQAM	50	0	18.86	18.80	18.97				
20	HQAM	50	0	18.86	18.88	18.78				
20	HQAM	50	24	18.71	18.94	18.69	20	0		
20	HQAM	50	50	18.82	18.85	18.78				
20	ZSSBAM	1	49	17.87	18.00	17.81	19	1		
20	ZSSBAM	1	99	17.88	17.87	17.82				
20	ZSSBAM	50	0	17.99	18.02	17.82				
20	ZSSBAM	50	24	17.84	18.00	17.89	19	1		
20	ZSSBAM	50	50	17.88	17.88	17.87				
20	ZSSBAM	50	99	17.89	17.82	17.88				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.93	18.92	18.86				
15	QPSK	1	74	18.86	18.83	18.78	20	0		
15	QPSK	36	0	18.79	18.97	18.71				
15	QPSK	36	36	18.79	18.92	18.74	20	0		
15	QPSK	36	36	18.80	18.85	18.75	20	0		
15	QPSK	75	0	18.81	18.80	18.80				
15	QPSK	75	0	18.76	18.94	18.78				
15	HQAM	1	37	18.72	18.81	18.58	20	0		
15	HQAM	1	74	18.81	18.81	18.69				
15	HQAM	36	0	18.77	18.90	18.73				
15	HQAM	36	36	18.83	18.84	18.87	20	0		
15	HQAM	36	36	18.86	18.79	18.80				
15	HQAM	36	36	18.73	18.79	18.81	20	0		
15	HQAM	75	0	18.81	18.77	18.74				
15	HQAM	1	0	18.78	18.91	18.83	20	0		
15	HQAM	1	74	18.84	18.84	18.84				
15	HQAM	1	74	18.82	18.89	18.87				
15	HQAM	36	0	18.79	18.86	18.78				
15	HQAM	36	36	18.86	18.79	18.80				
15	HQAM	36	36	18.73	18.79	18.81	20	0		
15	HQAM	75	0	18.78	18.79	18.89				
15	ZSSBAM	1	37	17.81	17.90	17.81	19	1		
15	ZSSBAM	1	74	17.85	17.74	17.75				
15	ZSSBAM	36	0	17.85	18.01	17.88				
15	ZSSBAM	36	36	17.81	17.92	17.85	19	1		
15	ZSSBAM	36	36	17.80	17.75	17.73				
15	ZSSBAM	75	0	17.84	17.81	17.81				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.81	18.89	18.80				
10	QPSK	1	25	18.77	18.88	18.74	20	0		
10	QPSK	1	49	18.90	18.86	18.66				
10	QPSK	25	0	18.72	18.95	18.73				
10	QPSK	25	25	18.74	18.89	18.73	20	0		
10	QPSK	50	0	18.79	18.94	18.71				
10	QPSK	50	25	18.74	18.89	18.73				
10	HQAM	1	0	18.79	18.89	18.86	20	0		
10	HQAM	1	25	18.72	18.85	18.64				
10	HQAM	25	0	18.80	18.89	18.74				
10	HQAM	25	12	18.64	18.90	18.74	20	0		
10	HQAM	25	12	18.68	18.73	18.68				
10	HQAM	50	0	18.73	18.80	18.75				
10	HQAM	50	0	18.81	18.87	18.78				
10	HQAM	50	0	18.82	18.82	18.82	20	0		
10	HQAM	1	49	18.84	18.89	18.89				
10	HQAM	25	0	18.79	18.95	18.75				
10	HQAM	25	12	18.68	18.76	18.62	20	0		
10	HQAM	50	0	18.71	18.84	18.63				
10	ZSSBAM	1	25	17.65	17.97	17.72	19	1		
10	ZSSBAM	1	49	17.78	17.74	17.73				
10	ZSSBAM	25	12	17.80	17.97	17.78	19	1		
10	ZSSBAM	25	25	17.75	17.78	17.73				
10	ZSSBAM	50	0	17.65	17.85	17.68				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.81	18.85	18.80				
5	QPSK	1	12	18.81	18.88	18.74	20	0		
5	QPSK	1	24	18.81	18.87	18.74				
5	QPSK	12	0	18.78	18.88	18.75				
5	QPSK	12	13	18.73	18.80	18.81	20	0		
5	QPSK	25	0	18.82	18.88	18.73				
5	HQAM	1	0	18.70	18.90	18.82	20	0		
5	HQAM	1	12	18.66	18.83	18.82				
5	HQAM	12	0	18.80	18.77	18.68				
5	HQAM	12	0	18.74	18.88	18.73				
5	HQAM	12	7	18.73	18.87	18.78	20	0		
5	HQAM	12	13	18.76	18.74	18.63				
5	HQAM	25	0	18.80	18.73	18.71				
5	HQAM	1	0	18.87	18.93	18.82	20	0		
5	HQAM	1	12	18.86	18.83	18.87				
5	HQAM	1	24	18.74	18.88	18.64				
5	HQAM	12	0	18.83	18.93	18.77				
5	HQAM	12	13	18.81	18.85	18.73	20	0		
5	HQAM	25	0	18.76	18.90	18.69				
5	ZSSBAM	1	12	17.68	17.98	17.64	19	1		
5	ZSSBAM	1	12	17.85	17.89	17.73				
5	ZSSBAM	12	7	17.76	17.92	17.84	19	1		
5	ZSSBAM	25	0	17.61	17.94	17.78				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.87	18.93	18.83				
3	QPSK	1	8	18.71	18.90	18.70	20	0		
3	QPSK	1	14	18.83	18.89	18.86				
3	QPSK	8	0	18.86	18.89	18.70				
3	QPSK	8	4	18.76	18.90	18.73	20	0		
3	QPSK	8	7	18.75	18.89	18.78				
3	HQAM	1	0	18.87	18.98	18.71				
3	HQAM	1	0	18.80	18.93	18.81	20	0		
3	HQAM	1	8	18.77	18.81	18.56				
3	HQAM	1	14	18.78	18.78	18.63				
3	HQAM	8	4	18.70	18.92	18.70	20	0		
3	HQAM	8	14	18.76	18.75	18.68				
3	HQAM	16	0	18.73	18.72	18.69				
3	HQAM	1	0	18.87	18.98	18.68	20	0		
3	HQAM	1	8	18.86	18.89	18.68				
3	HQAM	1	14	18.70	18.78	18.57				
3	HQAM	8	0	18.77	18.93	18.67				
3	HQAM	8	7	18.77	18.83	18.75	20	0		
3	HQAM	16	0	18.83	18.83	18.75				
3	HQAM	8	7	18.77	18.71	18.62				
3	ZSSBAM	1	8	17.68	17.88	17.79	19	1		
3	ZSSBAM	1	8	17.85	18.02	17.77				
3	ZSSBAM	1	8	17.81	17.98	17.87	19	1		
3	ZSSBAM	8	0	17.62	17.95	17.73				
3	ZSSBAM	8	4	17.73	17.98	17.81	19	1		
3	ZSSBAM	16	0	17.64	17.83	17.64				
3	ZSSBAM	16	0	17.64	17.93	17.74				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.91	18.89	18.84				
1.4	QPSK	1	3	18.72	18.93	18				



Band 7 Ant 1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.88	18.93	18.94	20	0		
20	QPSK	1	99	18.78	18.87	18.79	20	0		
20	QPSK	50	0	18.78	18.88	18.78	20	0		
20	QPSK	50	24	18.82	18.90	18.77	20	0		
20	QPSK	50	50	18.80	18.86	18.82	20	0		
20	QPSK	100	0	18.86	18.84	18.80	20	0		
20	QPSK	100	0	18.80	18.80	18.77	20	0		
20	HQAM	1	49	18.70	18.81	18.70	20	0		
20	HQAM	1	99	18.67	18.74	18.76	20	0		
20	HQAM	50	0	18.66	18.69	18.69	20	0		
20	HQAM	50	24	18.69	18.72	18.73	20	0		
20	HQAM	50	50	18.80	18.72	18.73	20	0		
20	HQAM	100	0	18.79	18.72	18.75	22.45	2		
20	HQAM	100	0	18.79	18.83	18.77	20	0		
20	HQAM	1	49	18.75	18.71	18.64	20	0		
20	HQAM	50	0	18.64	18.73	18.68	20	0		
20	HQAM	50	24	18.72	18.79	18.76	20	0		
20	HQAM	50	50	18.73	18.74	18.75	20	0		
20	HQAM	100	0	18.80	18.75	18.87	20	0		
20	ZSSBAM	1	0	18.82	18.69	18.51	19.5	0.5		
20	ZSSBAM	1	49	18.34	18.31	18.17	19.5	0.5		
20	ZSSBAM	1	99	18.21	18.36	18.27	19.5	0.5		
20	ZSSBAM	50	0	18.27	18.59	18.56	19.5	0.5		
20	ZSSBAM	50	24	18.28	18.38	18.23	19.5	0.5		
20	ZSSBAM	50	50	18.26	18.31	18.33	19.5	0.5		
20	ZSSBAM	100	0	18.29	18.23	18.23	19.5	0.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.84	18.90	18.71	20	0		
15	QPSK	1	97	18.74	18.76	18.66	20	0		
15	QPSK	1	74	18.70	18.78	18.66	20	0		
15	QPSK	36	0	18.70	18.78	18.66	20	0		
15	QPSK	36	34	18.79	18.77	18.73	20	0		
15	QPSK	36	99	18.73	18.80	18.73	20	0		
15	HQAM	75	0	18.84	18.81	18.71	20	0		
15	HQAM	1	37	18.63	18.76	18.59	20	0		
15	HQAM	36	0	18.67	18.72	18.69	20	0		
15	HQAM	36	0	18.65	18.74	18.67	20	0		
15	HQAM	36	20	18.67	18.63	18.62	20	0		
15	HQAM	75	0	18.78	18.73	18.65	20	0		
15	HQAM	75	0	18.78	18.81	18.70	20	0		
15	HQAM	1	0	18.65	18.70	18.74	20	0		
15	HQAM	1	74	18.65	18.65	18.59	20	0		
15	HQAM	1	74	18.65	18.64	18.60	20	0		
15	HQAM	36	0	18.62	18.69	18.56	20	0		
15	HQAM	36	39	18.67	18.65	18.73	20	0		
15	HQAM	75	0	18.71	18.70	18.63	20	0		
15	ZSSBAM	1	0	18.27	18.59	18.56	19.5	0.5		
15	ZSSBAM	1	37	18.30	18.29	18.03	19.5	0.5		
15	ZSSBAM	1	74	18.18	18.30	18.16	19.5	0.5		
15	ZSSBAM	36	0	18.21	18.33	18.10	19.5	0.5		
15	ZSSBAM	36	39	18.16	18.27	18.28	19.5	0.5		
15	ZSSBAM	75	0	18.18	18.23	18.23	19.5	0.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.80	18.70	18.68	20	0		
5	QPSK	1	49	18.68	18.79	18.67	20	0		
5	QPSK	12	0	18.72	18.80	18.65	20	0		
5	QPSK	25	0	18.68	18.80	18.73	20	0		
5	QPSK	25	25	18.68	18.72	18.73	20	0		
5	HQAM	1	0	18.75	18.74	18.73	20	0		
5	HQAM	1	25	18.59	18.71	18.59	20	0		
5	HQAM	12	0	18.66	18.65	18.68	20	0		
5	HQAM	25	0	18.58	18.69	18.65	20	0		
5	HQAM	24	12	18.66	18.65	18.65	20	0		
5	HQAM	25	0	18.66	18.62	18.69	20	0		
5	HQAM	50	0	18.74	18.67	18.61	20	0		
5	HQAM	1	0	18.75	18.61	18.74	20	0		
5	HQAM	1	25	18.65	18.64	18.52	20	0		
5	HQAM	1	49	18.54	18.70	18.56	20	0		
5	HQAM	25	0	18.51	18.77	18.52	20	0		
5	HQAM	25	25	18.68	18.66	18.68	20	0		
5	HQAM	50	0	18.73	18.64	18.55	20	0		
5	ZSSBAM	1	0	18.27	18.53	18.22	19.5	0.5		
5	ZSSBAM	1	25	18.27	18.27	18.25	19.5	0.5		
5	ZSSBAM	1	49	18.18	18.25	18.21	19.5	0.5		
5	ZSSBAM	12	0	18.18	18.25	18.13	19.5	0.5		
5	ZSSBAM	25	0	18.24	18.23	18.25	19.5	0.5		
5	ZSSBAM	50	0	18.18	18.20	18.20	19.5	0.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.81	18.81	18.72	20	0		
5	QPSK	1	12	18.73	18.81	18.63	20	0		
5	QPSK	1	24	18.69	18.78	18.71	20	0		
5	QPSK	12	0	18.72	18.80	18.65	20	0		
5	QPSK	12	7	18.65	18.72	18.75	20	0		
5	HQAM	1	0	18.77	18.83	18.80	20	0		
5	HQAM	1	0	18.77	18.70	18.67	20	0		
5	HQAM	1	12	18.67	18.78	18.62	20	0		
5	HQAM	12	0	18.63	18.69	18.62	20	0		
5	HQAM	12	7	18.66	18.62	18.66	20	0		
5	HQAM	25	0	18.74	18.69	18.72	20	0		
5	HQAM	1	0	18.70	18.76	18.67	20	0		
5	HQAM	1	12	18.70	18.60	18.54	20	0		
5	HQAM	1	24	18.67	18.69	18.58	20	0		
5	HQAM	12	0	18.60	18.76	18.55	20	0		
5	HQAM	12	13	18.69	18.69	18.71	20	0		
5	HQAM	12	13	18.60	18.75	18.70	20	0		
5	HQAM	25	0	18.67	18.68	18.59	20	0		
5	ZSSBAM	1	0	18.29	18.38	18.20	19.5	0.5		
5	ZSSBAM	1	12	18.24	18.18	18.04	19.5	0.5		
5	ZSSBAM	1	24	18.13	18.28	18.20	19.5	0.5		
5	ZSSBAM	12	0	18.18	18.27	18.20	19.5	0.5		
5	ZSSBAM	12	7	18.20	18.29	18.11	19.5	0.5		
5	ZSSBAM	25	0	18.20	18.25	18.21	19.5	0.5		

Band 12 Ant 1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.29	24.45	24.37	25.5	0		
10	QPSK	1	25	24.21	24.37	24.24	25.5	0		
10	QPSK	1	49	24.31	24.34	24.28	25.5	0		
10	QPSK	25	0	23.42	23.45	23.37	24.5	1		
10	QPSK	25	12	23.32	23.40	23.28	24.5	1		
10	QPSK	25	25	23.34	23.37	23.30	24.5	1		
10	QPSK	50	0	23.25	23.42	23.35	24.5	1		
10	QPSK	50	0	23.27	23.40	23.29	24.5	1		
10	HQAM	1	25	23.40	23.40	23.28	24.5	1		
10	HQAM	1	49	23.25	23.28	23.25	24.5	1		
10	HQAM	25	0	22.47	22.41	22.32	23.5	2		
10	HQAM	25	12	22.33	22.42	22.23	23.5	2		
10	HQAM	25	25	22.29	22.37	22.21	23.5	2		
10	HQAM	50	0	22.39	22.42	22.31	23.5	2		
10	HQAM	1	25	22.42	22.37	22.28	23.5	2		
10	HQAM	25	0	21.41	21.48	21.34	22.5	3		
10	HQAM	25	12	21.26	21.36	21.24	22.5	3		
10	HQAM	25	25	21.27	21.37	21.24	22.5	3		
10	HQAM	50	0	21.29	21.45	21.34	22.5	3		
10	ZSSBAM	1	0	18.41	18.43	18.42	20.5	5		
10	ZSSBAM	1	25	18.30	18.40	18.27	20.5	5		
10	ZSSBAM									



Band 17 Ant 1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
700 710 715										
10	QPSK	1	0	24.36	24.37	24.28		25.5	0	
10	QPSK	25	25	24.20	24.35	24.18				
10	QPSK	1	46	24.22	24.23	24.16				
10	QPSK	25	0	23.34	23.35	23.26				
10	QPSK	25	12	23.28	23.34	23.17		24.5	1	
10	QPSK	25	25	23.28	23.25	23.07				
10	QPSK	50	0	23.29	23.34	23.26				
10	HQAM	1	0	23.25	23.32	23.27				
10	HQAM	1	25	23.28	23.30	23.18		24.5	1	
10	HQAM	1	46	23.24	23.22	23.12				
10	HQAM	1	49	22.24	22.28	22.22				
10	HQAM	25	12	22.28	22.30	22.18		23.5	2	
10	HQAM	25	25	22.26	22.31	22.17				
10	HQAM	50	0	22.16	22.27	22.22				
10	HQAM	1	0	22.33	22.36	22.22				
10	HQAM	1	25	22.28	22.29	22.23		23.5	2	
10	HQAM	1	49	22.24	22.14	21.81				
10	HQAM	25	12	21.23	21.34	21.21		22.5	3	
10	HQAM	25	25	21.24	21.28	21.13				
10	HQAM	50	0	21.10	21.33	21.22				
10	SSQAM	1	0	19.20	19.33	19.20				
10	SSQAM	1	25	19.25	19.36	19.18		20.5	5	
10	SSQAM	1	49	19.30	19.30	19.17				
10	SSQAM	25	12	19.27	19.32	19.28				
10	SSQAM	25	25	19.30	19.36	19.24		20.5	5	
10	SSQAM	50	0	19.25	19.35	19.12				
10	SSQAM	50	0	19.23	19.27	19.23				
Channel										
7075 710 715										
5	QPSK	1	0	24.20	24.23	24.20		25.5	0	
5	QPSK	1	12	24.26	24.26	24.18				
5	QPSK	1	24	24.20	24.21	24.05				
5	QPSK	12	0	23.20	23.33	23.20				
5	QPSK	12	7	23.20	23.24	23.05		24.5	1	
5	QPSK	12	13	23.18	23.19	22.84				
5	QPSK	25	0	23.25	23.25	23.04				
5	HQAM	1	0	23.21	23.26	23.18				
5	HQAM	1	12	23.20	23.17	23.15		24.5	1	
5	HQAM	1	13	22.17	22.23	22.14				
5	HQAM	12	0	22.24	22.24	22.11		23.5	2	
5	HQAM	12	7	22.19	22.17	22.15				
5	HQAM	25	0	22.09	22.08	22.11				
5	HQAM	1	0	22.21	22.28	22.12		23.5	2	
5	HQAM	1	12	22.24	22.21	22.11				
5	HQAM	1	24	22.15	22.10	21.95				
5	HQAM	12	0	21.24	21.36	21.25		22.5	3	
5	HQAM	12	7	21.18	21.32	21.18				
5	HQAM	12	13	21.10	21.14	21.03				
5	HQAM	25	0	21.09	21.25	21.17				
5	SSQAM	1	0	19.20	19.36	19.22				
5	SSQAM	1	12	19.23	19.36	19.25		20.5	5	
5	SSQAM	1	24	19.21	19.18	19.06				
5	SSQAM	12	0	19.16	19.19	19.13				
5	SSQAM	12	7	19.19	19.34	19.19		20.5	5	
5	SSQAM	12	13	19.22	19.29	19.04				
5	SSQAM	25	0	19.17	19.21	19.17				

Band 26 Ant 1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
821.5 831.5 841.5										
15	QPSK	1	0	24.38	24.41	24.39		25.5	0	
15	QPSK	1	37	24.24	24.35	24.22				
15	QPSK	1	74	24.30	24.35	24.22				
15	QPSK	36	0	23.41	23.48	23.36		24.5	1	
15	QPSK	36	20	23.20	23.34	23.35				
15	QPSK	36	39	23.27	23.39	23.20				
15	QPSK	75	0	23.41	23.34	23.36				
15	HQAM	1	0	23.28	23.42	23.35				
15	HQAM	1	37	23.31	23.28	23.35		24.5	1	
15	HQAM	1	74	23.25	23.32	23.28				
15	HQAM	36	0	22.38	22.37	22.39				
15	HQAM	36	20	22.26	22.37	22.34		23.5	2	
15	HQAM	36	39	22.22	22.39	22.13				
15	HQAM	75	0	22.27	22.32	22.25				
15	HQAM	1	0	22.39	22.38	22.25		23.5	2	
15	HQAM	1	37	22.27	22.33	22.20				
15	HQAM	1	74	22.29	22.32	22.27				
15	HQAM	36	0	21.39	21.42	21.44				
15	HQAM	36	20	21.19	21.26	21.45		22.5	3	
15	HQAM	36	39	21.20	21.45	21.25				
15	HQAM	75	0	21.35	21.31	21.30				
15	SSQAM	1	0	19.29	19.42	19.45				
15	SSQAM	1	37	19.24	19.29	19.35		20.5	5	
15	SSQAM	1	74	19.26	19.39	19.24				
15	SSQAM	36	0	19.24	19.44	19.27				
15	SSQAM	36	20	19.37	19.37	19.40		20.5	5	
15	SSQAM	36	39	19.46	19.28	19.29				
15	SSQAM	75	0	19.20	19.38	19.12				
Channel										
819 831.5 844										
10	QPSK	1	0	24.24	24.36	24.34		25.5	0	
10	QPSK	1	25	24.12	24.24	24.35				
10	QPSK	1	49	24.23	24.29	24.17				
10	QPSK	25	0	23.31	23.42	23.22				
10	QPSK	25	12	23.17	23.23	23.11		24.5	1	
10	QPSK	25	25	23.14	23.29	23.21				
10	HQAM	1	0	23.26	23.22	23.27				
10	HQAM	1	12	23.28	23.38	23.31				
10	HQAM	1	25	23.24	23.23	23.29		24.5	1	
10	HQAM	1	36	22.27	22.27	22.25				
10	HQAM	12	0	22.32	22.33	22.36				
10	HQAM	25	12	22.18	22.29	22.30		23.5	2	
10	HQAM	25	13	22.22	22.29	22.28				
10	HQAM	50	0	22.18	22.20	22.28				
10	HQAM	1	0	22.35	22.33	22.14		23.5	2	
10	HQAM	1	25	22.29	22.18	22.12				
10	HQAM	1	49	22.23	22.10	22.25				
10	HQAM	25	0	21.30	21.40	21.34		22.5	3	
10	HQAM	25	12	21.15	21.18	21.01				
10	HQAM	25	25	21.15	21.43	21.25				
10	HQAM	50	0	21.22	21.20	21.18				
10	SSQAM	1	0	19.23	19.39	19.07				
10	SSQAM	1	25	19.20	19.20	19.25		20.5	5	
10	SSQAM	1	49	19.18	19.35	19.10				
10	SSQAM	12	0	19.25	19.25	19.25				
10	SSQAM	12	7	19.25	19.29	19.26		20.5	5	
10	SSQAM	12	13	19.28	19.14	19.23				
10	SSQAM	25	0	19.20	19.16	19.14				
Channel										
827.5 831.5 846.5										
5	QPSK	1	0	24.17	24.34	24.33		25.5	0	
5	QPSK	1	12	24.20	24.32	24.35				
5	QPSK	1	24	24.17	24.30	24.12				
5	QPSK	12	0	23.27	23.38	23.31				
5	QPSK	12	7	23.13	23.22	23.30		24.5	1	
5	QPSK	12	13	23.20	23.31	23.12				
5	HQAM	1	0	23.29	23.40	23.25				
5	HQAM	1	12	23.22	23.18	23.21		24.5	1	
5	HQAM	1	13	22.25	22.25	22.22				
5	HQAM	12	0	22.31	22.28	22.29				
5	HQAM	12	7	22.15	22.25	22.22		23.5	2	
5	HQAM	12	13	22.22	22.22	22.28				
5	HQAM	25	0	22.17	22.22	22.28				
5	HQAM	1	0	22.26	22.31	22.19		23.5	2	
5	HQAM	1	12	22.22	22.33	22.25				

GSM850 Ant 4 DSI 3	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	199	251		128	199	251	
Tx Channel	824.2	838.4	848.8	824.2	838.4	848.8		
Frequency (MHz)								
GSM 1 Tx slot	32.40	32.46	32.45	33.50	23.40	23.46	23.45	24.50
GPRS 1 Tx slot	32.40	32.41	32.38	33.50	23.40	23.41	23.38	24.50
GPRS 2 Tx slots	31.45	31.36	31.31	32.50	23.45	23.36	23.31	24.50
GPRS 3 Tx slots	29.67	29.61	29.61	31.00	25.41	25.35	25.35	26.74
GPRS 4 Tx slots	28.73	28.79	28.68	30.00	25.73	25.79	25.68	27.00
EDGE 1 Tx slot	26.86	26.93	26.89	28.00	17.86	17.93	17.89	19.00
EDGE 2 Tx slots	23.82	23.96	23.90	25.00	17.82	17.86	17.80	18.00
EDGE 3 Tx slots	22.08	22.11	22.07	23.20	17.82	17.85	17.81	18.94
EDGE 4 Tx slots	20.89	20.93	20.84	22.00	17.86	17.93	17.84	19.00

GSM1900 Ant 4 DSI 3	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	1860	1909.8	1850.2	1860	1909.8		
Frequency (MHz)								
GSM 1 Tx slot	28.42	28.54	28.51	29.50	19.42	19.54	19.51	20.50
GPRS 1 Tx slot	26.38	26.50	26.46	29.50	19.38	19.50	19.46	20.50
GPRS 2 Tx slots	27.64	27.59	27.73	28.50	21.64	21.59	21.73	22.50
GPRS 3 Tx slots	25.83	25.83	25.95	27.00	21.57	21.57	21.89	22.74
GPRS 4 Tx slots	24.60	24.89	24.87	26.00	21.90	21.89	21.87	23.00
EDGE 1 Tx slot	24.62	24.87	24.83	26.00	15.62	15.87	15.83	17.00
EDGE 2 Tx slots	21.81	21.92	21.79	23.00	15.81	15.92	15.79	17.00
EDGE 3 Tx slots	20.03	20.07	20.02	21.20	15.77	15.81	15.76	16.94
EDGE 4 Tx slots	18.88	18.87	18.87	20.00	15.88	15.87	15.87	17.00

Band	WCDMA 8 Ant 4 DSI 3			Tune-up Limit (dBm)	WCDMA 4 Ant 4 DSI 3			Tune-up Limit (dBm)	WCDMA V Ant 4 DSI 3			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Tx Channel	9662	9690	9698	1537	1638	1738	4357	4407	4458				
Rx Channel	9662	9690	9698	1712.4	1732.6	1752.6	4364	4384	4404				
Frequency (MHz)													
3GPP Rel 99	AMR 12.2kops	22.51	22.53	22.45	23.50	23.67	23.80	23.70	24.50	24.31	24.44	24.29	25.50
3GPP Rel 99	RM C 12.2kops	22.58	22.68	22.57	23.50	23.77	23.84	23.72	24.50	24.45	24.48	24.41	25.50
3GPP Rel 6	HSDPA Subtest-1	21.52	21.66	21.61	22.50	22.76	22.84	22.68	23.50	23.48	23.50	23.39	24.50
3GPP Rel 6	HSDPA Subtest-2	21.56	21.64	21.59	22.50	22.74	22.68	22.74	23.50	23.50	23.48	23.35	24.50
3GPP Rel 6	HSDPA Subtest-3	21.08	21.21	21.02	22.00	22.28	22.34	22.27	23.00	22.92	22.94	22.94	24.00
3GPP Rel 6	HSDPA Subtest-4	21.06	21.11	21.09	22.00	22.21	22.32	22.27	23.00	22.91	22.93	22.90	24.00
3GPP Rel 6	DC-HSDPA Subtest-1	21.60	21.62	21.56	22.50	22.76	22.84	22.68	23.50	23.40	23.48	23.44	24.50
3GPP Rel 6	DC-HSDPA Subtest-2	21.53	21.62	21.61	22.50	22.83	22.88	22.76	23.50	23.46	23.45	23.45	24.50
3GPP Rel 6	DC-HSDPA Subtest-3	21.04	21.22	21.02	22.00	22.24	22.31	22.21	23.00	22.90	22.94	22.87	24.00
3GPP Rel 6	DC-HSDPA Subtest-4	21.10	21.13	21.08	22.00	22.30	22.35	22.29	23.00	22.99	22.93	22.95	24.00
3GPP Rel 6	HSUPA Subtest-1	21.62	21.71	21.56	22.50	22.80	22.83	22.75	23.50	23.49	23.48	23.44	24.50
3GPP Rel 6	HSUPA Subtest-2	19.57	19.72	19.55	20.50	20.73	20.81	20.71	21.50	21.44	21.48	21.44	22.50
3GPP Rel 6	HSUPA Subtest-3	20.59	20.68	20.55	21.50	21.78	21.88	21.87	22.50	22.48	22.53	22.43	23.50
3GPP Rel 6	HSUPA Subtest-4	19.60	19.70	19.57	20.50	20.83	20.90	20.77	21.50	21.50	21.49	21.29	22.50
3GPP Rel 6	HSUPA Subtest-5	21.56	21.71	21.60	22.50	22.73	22.81	22.76	23.50	23.44	23.52	23.41	24.50
3GPP Rel 7	HSPA+ (HSGAM) Subtest-	18.09	18.14	18.06	20.00	20.23	20.32	20.23	21.00	20.93	21.04	20.95	22.00



Band 7 Ant 3 DSI 3									
Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21550			
Frequency (MHz)				2010	2055	2100			
20	QPSK	1	0	23.68	23.75	23.66	24.5	0	
20	QPSK	1	49	23.56	23.71	23.63			
20	QPSK	1	99	23.61	23.66	23.57			
20	QPSK	50	0	22.69	22.76	22.71	23.5	1	
20	QPSK	50	24	22.56	22.66	22.63			
20	QPSK	50	50	22.82	22.84	22.82			
20	QPSK	100	0	22.63	22.75	22.64			
20	16QAM	1	0	22.64	22.73	22.69	23.5	1	
20	16QAM	1	49	22.50	22.73	22.62			
20	16QAM	1	99	22.58	22.69	22.58			
20	16QAM	50	0	21.69	21.80	21.67	22.5	2	
20	16QAM	50	24	21.58	21.66	21.67			
20	16QAM	50	50	21.80	21.84	21.58			
20	16QAM	100	0	21.62	21.80	21.60			
20	64QAM	1	0	21.67	21.79	21.65	22.5	2	
20	64QAM	1	49	21.52	21.78	21.63			
20	64QAM	1	99	21.57	21.72	21.61			
20	64QAM	50	0	20.71	20.75	20.74	21.5	3	
20	64QAM	50	24	20.51	20.74	20.67			
20	64QAM	50	50	20.65	20.59	20.64			
20	64QAM	100	0	20.59	20.73	20.66			
20	256QAM	1	0	18.73	18.72	18.68	19.5	5	
20	256QAM	1	49	18.55	18.66	18.67			
20	256QAM	1	99	18.59	18.65	18.62			
20	256QAM	50	0	18.67	18.70	18.64	19.5	5	
20	256QAM	50	24	18.64	18.71	18.74			
20	256QAM	50	50	18.46	18.77	18.67			
20	256QAM	100	0	18.56	18.71	18.58			
Channel				20625	21100	21375			
Frequency (MHz)				20075	2055	20925			
15	QPSK	1	0	23.56	23.63	23.57	24.5	0	
15	QPSK	1	37	23.46	23.58	23.53			
15	QPSK	1	74	23.54	23.54	23.48			
15	QPSK	36	0	22.67	22.66	22.61	23.5	1	
15	QPSK	36	20	22.50	22.57	22.51			
15	QPSK	36	39	22.53	22.57	22.49			
15	QPSK	75	0	22.55	22.65	22.59	23.5	1	
15	16QAM	1	0	22.56	22.69	22.63			
15	16QAM	1	37	22.42	22.65	22.55			
15	16QAM	1	74	22.46	22.65	22.53	22.5	2	
15	16QAM	36	0	21.60	21.74	21.57			
15	16QAM	36	20	21.56	21.63	21.56	22.5	2	
15	16QAM	36	39	21.47	21.61	21.44			
15	16QAM	75	0	21.52	21.76	21.50	22.5	2	
15	64QAM	1	0	21.61	21.71	21.59			
15	64QAM	1	37	21.49	21.68	21.58	22.5	2	
15	64QAM	1	74	21.46	21.65	21.47			
15	64QAM	36	0	20.62	20.69	20.72	21.5	3	
15	64QAM	36	20	20.48	20.63	20.54			
15	64QAM	36	39	20.54	20.49	20.53			
15	64QAM	75	0	20.49	20.64	20.60	19.5	5	
15	256QAM	1	0	18.60	18.70	18.62			
15	256QAM	1	37	18.45	18.58	18.57			
15	256QAM	1	74	18.55	18.63	18.51	19.5	5	
15	256QAM	36	0	18.65	18.61	18.61			
15	256QAM	36	20	18.51	18.57	18.69			
15	256QAM	36	39	18.41	18.67	18.61			
15	256QAM	75	0	18.46	18.61	18.49			
Channel				20800	21100	21400			
Frequency (MHz)				20505	20535	20565			
10	QPSK	1	0	23.57	23.71	23.52	24.5	0	
10	QPSK	1	25	23.48	23.63	23.52			
10	QPSK	1	49	23.56	23.62	23.44			
10	QPSK	25	0	22.62	22.65	22.60	23.5	1	
10	QPSK	25	12	22.54	22.64	22.59			
10	QPSK	25	25	22.56	22.52	22.58			
10	QPSK	50	0	22.56	22.69	22.62	23.5	1	
10	16QAM	1	0	22.52	22.60	22.66			
10	16QAM	1	25	22.39	22.65	22.57	22.5	1	
10	16QAM	1	49	22.54	22.67	22.49			
10	16QAM	25	0	21.60	21.73	21.60	22.5	2	
10	16QAM	25	12	21.48	21.57	21.64			
10	16QAM	25	25	21.57	21.57	21.55			
10	16QAM	50	0	21.52	21.78	21.48	22.5	2	
10	64QAM	1	0	21.54	21.67	21.60	22.5	2	
10	64QAM	1	25	21.49	21.74	21.59			
10	64QAM	1	49	21.43	21.63	21.57			
10	64QAM	25	0	20.68	20.73	20.70	21.5	3	
10	64QAM	25	12	20.39	20.61	20.64			
10	64QAM	25	25	20.58	20.47	20.61			
10	64QAM	50	0	20.47	20.64	20.62			
10	256QAM	1	0	18.71	18.62	18.59	19.5	5	
10	256QAM	1	25	18.53	18.56	18.64			
10	256QAM	1	49	18.47	18.54	18.48			
10	256QAM	25	0	18.55	18.58	18.62	19.5	5	
10	256QAM	25	12	18.62	18.68	18.69			
10	256QAM	25	25	18.44	18.65	18.54			
10	256QAM	50	0	18.40	18.69	18.51			
Channel				20775	21100	21425			
Frequency (MHz)				20025	20535	20675			
5	QPSK	1	0	23.65	23.72	23.61	24.5	0	
5	QPSK	1	12	23.48	23.67	23.51			
5	QPSK	1	24	23.54	23.61	23.44			
5	QPSK	12	0	22.58	22.65	22.67	23.5	1	
5	QPSK	12	7	22.46	22.56	22.57			
5	QPSK	12	13	22.53	22.57	22.50			
5	QPSK	25	0	22.53	22.62	22.61	23.5	1	
5	16QAM	1	0	22.56	22.61	22.65			
5	16QAM	1	12	22.41	22.61	22.56	22.5	1	
5	16QAM	1	24	22.47	22.56	22.46			
5	16QAM	12	0	21.60	21.71	21.64	22.5	2	
5	16QAM	12	7	21.45	21.53	21.59			
5	16QAM	12	13	21.55	21.61	21.55			
5	16QAM	25	0	21.49	21.72	21.47	22.5	2	
5	64QAM	1	0	21.63	21.66	21.53			
5	64QAM	1	12	21.40	21.71	21.53	21.5	2	
5	64QAM	1	24	21.50	21.61	21.53			
5	64QAM	12	0	20.57	20.73	20.70	21.5	3	
5	64QAM	12	7	20.40	20.64	20.54			
5	64QAM	12	13	20.53	20.47	20.51			
5	64QAM	25	0	20.54	20.70	20.63			
5	256QAM	1	0	18.71	18.65	18.62	19.5	5	
5	256QAM	1	12	18.52	18.55	18.57			
5	256QAM	1	24	18.54	18.63	18.53			
5	256QAM	12	0	18.62	18.65	18.59	19.5	5	
5	256QAM	12	7	18.50	18.64	18.65			
5	256QAM	12	13	18.34	18.74	18.63			
5	256QAM	25	0	18.46	18.60	18.47			



Band 2 Ant 4 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.08	22.13	21.97			23	0
20	QPSK	1	96	22.03	22.11	21.91				
20	QPSK	50	0	21.06	21.08	21.02				
20	QPSK	50	24	21.04	21.04	21.04				
20	QPSK	50	50	21.02	21.06	20.97			22	1
20	QPSK	100	0	20.08	21.08	20.95				
20	QPSK	100	24	21.05	21.17	20.95				
20	HQAM	1	49	21.10	21.11	20.97			22	1
20	HQAM	1	99	21.07	21.08	20.87				
20	HQAM	50	0	20.08	20.08	19.97				
20	HQAM	50	24	19.99	20.04	19.98			21	2
20	HQAM	50	50	19.98	20.03	19.93				
20	HQAM	100	0	19.99	20.08	19.95				
20	HQAM	100	24	20.06	20.14	19.95				
20	HQAM	1	49	20.11	20.12	19.98			21	2
20	HQAM	1	99	20.07	20.07	19.97				
20	HQAM	50	0	19.99	19.99	19.92				
20	HQAM	50	24	19.92	19.96	19.87			20	3
20	HQAM	50	50	19.98	19.97	19.88				
20	HQAM	100	0	19.98	19.97	19.85				
20	HQAM	100	24	19.94	19.96	19.84				
20	HQAM	1	49	17.06	17.07	16.89			18	5
20	HQAM	1	99	16.99	17.07	16.86				
20	ZSSBAM	50	0	17.06	17.06	16.84				
20	ZSSBAM	50	24	17.08	17.05	16.83			18	5
20	ZSSBAM	50	50	16.98	17.06	16.84				
20	ZSSBAM	100	0	16.99	17.07	16.84				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.08	22.12	21.97			23	0
15	QPSK	1	96	22.00	22.09	21.83				
15	QPSK	36	0	21.04	21.06	20.96				
15	QPSK	36	20	21.00	21.04	20.91				
15	QPSK	36	36	20.99	21.00	20.93			22	1
15	HQAM	1	49	21.03	21.16	20.93				
15	HQAM	1	97	21.03	21.10	20.83			22	1
15	HQAM	36	0	20.00	20.02	19.87				
15	HQAM	36	20	19.90	20.03	19.90			21	2
15	HQAM	36	36	19.98	19.98	19.84				
15	HQAM	75	0	19.94	19.96	19.84				
15	HQAM	1	0	20.00	20.12	19.92			21	2
15	HQAM	1	49	20.05	20.05	19.84				
15	HQAM	1	97	19.92	20.14	19.91				
15	HQAM	36	0	18.93	18.98	18.90			20	3
15	HQAM	36	20	18.93	19.03	18.93				
15	HQAM	36	36	18.95	18.95	18.93				
15	HQAM	75	0	18.88	18.93	18.88				
15	ZSSBAM	1	49	17.06	17.06	16.84			18	5
15	ZSSBAM	1	97	17.04	16.97	16.78				
15	ZSSBAM	1	74	16.87	17.04	16.84				
15	ZSSBAM	36	0	16.96	17.02	16.84				
15	ZSSBAM	36	20	16.95	17.02	16.78			18	5
15	ZSSBAM	36	36	16.92	16.94	16.88				
15	ZSSBAM	75	0	17.00	17.02	16.84				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.08	22.10	21.97			23	0
10	QPSK	1	96	22.07	22.09	21.79				
10	QPSK	1	49	21.98	22.09	21.86				
10	QPSK	25	0	21.00	21.02	20.96				
10	QPSK	25	12	21.01	21.06	20.93			22	1
10	QPSK	25	25	20.98	21.03	20.93				
10	HQAM	1	0	21.00	21.08	20.90				
10	HQAM	1	25	21.08	21.03	20.82			22	1
10	HQAM	25	0	19.91	20.00	19.97				
10	HQAM	25	12	19.96	20.02	19.88			21	2
10	HQAM	25	25	19.98	19.98	19.86				
10	HQAM	50	0	19.94	20.00	19.93				
10	HQAM	1	0	19.97	20.09	19.91			21	2
10	HQAM	1	49	20.04	20.04	19.84				
10	HQAM	1	99	19.95	20.10	19.93				
10	HQAM	25	0	18.93	19.08	19.00			20	3
10	HQAM	25	12	18.96	18.93	18.92				
10	HQAM	25	25	18.95	18.93	18.92				
10	HQAM	50	0	18.88	18.96	18.95				
10	ZSSBAM	1	49	17.06	17.11	16.89			18	5
10	ZSSBAM	1	25	17.01	17.00	16.84				
10	ZSSBAM	1	49	16.96	17.01	16.84				
10	ZSSBAM	25	0	17.00	17.02	16.84			18	5
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.08	22.08	21.86			23	0
5	QPSK	1	12	21.98	22.05	21.85				
5	QPSK	1	24	21.95	22.07	21.82				
5	QPSK	12	0	20.96	21.02	20.86				
5	QPSK	12	7	20.94	21.00	20.84			22	1
5	QPSK	12	13	21.01	21.02	20.84				
5	HQAM	1	0	21.02	21.05	20.91				
5	HQAM	1	12	21.08	21.00	20.81			22	1
5	HQAM	12	0	20.00	20.03	19.83				
5	HQAM	12	7	19.91	19.93	19.88			21	2
5	HQAM	12	13	19.93	20.01	19.88				
5	HQAM	25	0	19.93	19.97	19.85				
5	HQAM	1	0	20.01	20.11	19.84			21	2
5	HQAM	1	24	20.05	20.05	19.82				
5	HQAM	12	0	18.91	19.02	19.01			20	3
5	HQAM	12	7	18.96	18.98	18.91				
5	HQAM	12	13	18.90	18.99	18.92				
5	HQAM	25	0	18.87	18.97	18.91				
5	ZSSBAM	1	49	17.06	17.06	16.86			18	5
5	ZSSBAM	1	12	17.01	17.05	16.85				
5	ZSSBAM	1	24	16.90	16.99	16.92				
5	ZSSBAM	12	0	17.00	17.11	16.89			18	5
5	ZSSBAM	12	7	16.96	16.98	16.85				
5	ZSSBAM	12	13	16.98	16.95	16.87			18	5
5	ZSSBAM	25	0	16.94	17.10	16.87				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.99	22.09	21.88			23	0
3	QPSK	1	8	22.02	22.01	21.77				
3	QPSK	1	14	21.99	22.05	21.83				
3	QPSK	8	0	21.00	21.04	20.86				
3	QPSK	8	4	20.93	21.07	20.91			22	1
3	QPSK	8	7	20.94	20.99	20.89				
3	HQAM	1	0	20.97	21.07	20.89				
3	HQAM	1	0	20.98	21.07	20.84			22	1
3	HQAM	1	8	21.03	20.99	20.76				
3	HQAM	1	14	21.00	20.94	20.78				
3	HQAM	8	0	19.90	20.05	19.95			21	2
3	HQAM	8	4	19.94	19.95	19.94				
3	HQAM	8	7	19.96	19.97	19.86				
3	HQAM	16	0	19.90	19.96	19.87			21	2
3	HQAM	1	0	20.01	20.07	19.86				
3	HQAM	1	8	20.08	20.10	19.97				
3	HQAM	1	14	19.91	20.08	19.90				
3	HQAM	8	0	18.93	19.07	18.94			20	3
3	HQAM	8	4	18.96	18.95	18.95				
3	HQAM	8	7	18.90	18.94	18.91				
3	ZSSBAM	1	49	17.06	17.06	16.86			18	5
3	ZSSBAM	1	8	17.01	17.08	16.91				
3	ZSSBAM	1	16	16.98	17.08	16.84				
3	ZSSBAM	8	0	16.94	17.04	16.80				
3	ZSSBAM	8	4	17.00	16.94	16.78			18	5
3	ZSSBAM	8	7	16.97	17.03	16.83				
3	ZSSBAM	16	0	16.95	17.10	16.91				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.08	22.11	21.97				



Band 7 Ant 4 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.97	23.04	22.96		24.5	0	
20	QPSK	1	99	22.93	23.02	22.94				
20	QPSK	50	0	21.62	22.03	21.96		23.5	1	
20	QPSK	50	50	21.96	22.01	21.86				
20	QPSK	100	0	21.86	22.03	21.96				
20	QPSK	100	50	22.01	22.07	21.96				
20	HQAM	1	49	21.93	22.05	21.90		23.5	1	
20	HQAM	1	99	21.98	22.05	21.96				
20	HQAM	50	0	20.96	21.02	20.93		22.5	2	
20	HQAM	50	50	21.02	20.97	21.01				
20	HQAM	100	0	20.93	21.01	20.92				
20	HQAM	100	50	20.96	21.01	21.02				
20	HQAM	1	0	21.00	21.08	20.95				
20	HQAM	1	49	20.99	21.01	20.91		22.5	2	
20	HQAM	1	99	20.96	21.05	20.93				
20	HQAM	50	0	19.93	20.05	19.90				
20	HQAM	50	50	20.05	19.99	20.08				
20	HQAM	100	0	19.99	20.06	19.92		21.5	3	
20	HQAM	100	50	20.06	19.99	20.08				
20	ZSSBAM	1	0	18.07	18.08	17.96		19.5	5	
20	ZSSBAM	1	49	17.94	18.03	17.91				
20	ZSSBAM	1	99	17.93	18.04	17.93				
20	ZSSBAM	50	0	17.96	18.02	17.97				
20	ZSSBAM	50	50	17.99	18.04	17.90				
20	ZSSBAM	100	0	17.93	17.98	17.96				
20	ZSSBAM	100	50	17.96	18.01	17.99				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.85	23.00	22.85		24.5	0	
15	QPSK	1	74	22.89	22.95	22.83				
15	QPSK	36	0	21.88	21.93	21.83		23.5	1	
15	QPSK	36	36	21.96	21.99	21.93				
15	QPSK	36	72	21.90	21.96	21.75				
15	HQAM	1	0	21.96	22.03	21.84		23.5	1	
15	HQAM	1	37	21.90	22.02	21.88				
15	HQAM	36	0	20.94	20.97	20.98		22.5	2	
15	HQAM	36	36	20.99	20.97	20.98				
15	HQAM	72	0	20.92	21.00	20.90				
15	HQAM	72	36	20.96	21.03	20.93		22.5	2	
15	HQAM	1	0	19.88	19.96	19.89				
15	HQAM	1	74	19.92	20.03	19.83				
15	HQAM	36	0	19.88	20.02	19.89		21.5	3	
15	HQAM	36	36	19.95	19.95	19.75				
15	HQAM	72	0	19.84	19.95	19.89				
15	ZSSBAM	1	0	17.92	17.97	17.90		19.5	5	
15	ZSSBAM	1	37	17.85	17.97	17.90				
15	ZSSBAM	36	0	17.86	18.03	17.89				
15	ZSSBAM	36	36	17.93	18.01	17.79				
15	ZSSBAM	72	0	17.85	17.93	17.91				
15	ZSSBAM	72	36	17.92	18.01	17.91				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.26	22.03	22.01		24.5	0	
10	QPSK	1	49	22.27	22.00	22.03				
10	QPSK	25	0	21.93	21.90	21.90		23.5	1	
10	QPSK	25	25	21.94	21.96	21.80				
10	HQAM	1	0	22.01	22.05	21.90		23.5	1	
10	HQAM	1	25	21.86	22.00	21.82				
10	HQAM	25	0	20.90	20.95	20.90		22.5	2	
10	HQAM	25	12	20.93	20.90	21.00				
10	HQAM	50	0	20.88	20.91	20.93				
10	HQAM	50	12	20.90	20.96	20.88		22.5	2	
10	HQAM	1	0	20.90	21.00	20.88		22.5	2	
10	HQAM	1	25	20.95	20.98	20.89				
10	HQAM	25	0	19.90	19.99	19.81				
10	HQAM	25	12	19.96	19.97	19.89		21.5	3	
10	HQAM	50	0	19.88	19.96	19.82				
10	ZSSBAM	1	0	17.90	18.00	17.96		19.5	5	
10	ZSSBAM	1	49	17.91	17.96	17.88				
10	ZSSBAM	25	0	17.91	17.98	17.90				
10	ZSSBAM	25	12	17.90	17.96	17.89				
10	ZSSBAM	50	0	17.88	17.99	17.86				
10	ZSSBAM	50	12	17.92	17.99	17.93				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.26	22.03	22.01		24.5	0	
5	QPSK	1	12	22.21	22.30	22.82				
5	QPSK	1	24	22.84	23.01	22.83				
5	QPSK	12	0	21.84	21.98	21.96		23.5	1	
5	QPSK	12	7	21.90	21.94	21.79				
5	HQAM	1	0	21.97	22.05	21.85		23.5	1	
5	HQAM	1	12	21.93	21.94	21.83				
5	HQAM	12	0	20.89	20.94	20.85		22.5	2	
5	HQAM	12	7	20.95	20.96	21.00				
5	HQAM	25	0	20.90	20.98	20.92				
5	HQAM	25	0	20.90	21.00	20.88		22.5	2	
5	HQAM	1	0	20.90	20.98	20.89				
5	HQAM	1	49	20.85	21.01	20.91				
5	HQAM	25	0	19.90	19.99	19.81				
5	HQAM	25	12	19.96	19.97	19.89		21.5	3	
5	HQAM	50	0	19.88	19.96	19.82				
5	ZSSBAM	1	0	17.90	18.00	17.96		19.5	5	
5	ZSSBAM	1	49	17.91	17.96	17.88				
5	ZSSBAM	12	0	17.91	17.98	17.90				
5	ZSSBAM	12	7	17.89	17.96	17.89				
5	ZSSBAM	25	0	17.88	17.99	17.86				
5	ZSSBAM	25	12	17.92	17.99	17.93				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.27	24.51	24.37		25.5	0	
14	QPSK	1	3	24.32	24.53	24.22				
14	QPSK	1	5	24.33	24.42	24.18				
14	QPSK	1	14	24.23	24.53	24.22		24.5	1	
14	QPSK	8	0	23.27	23.51	23.28				
14	QPSK	8	4	23.32	23.42	23.28				
14	QPSK	8	7	23.24	23.41	23.14				
14	HQAM	1	0	23.27	23.47	23.28		24.5	1	
14	HQAM	1	8	23.28	23.49	23.21				
14	HQAM	8	0	22.30	22.97	22.30		23.5	2	
14	HQAM	8	4	22.33	22.51	22.30				
14	HQAM	16	0	22.31	22.51	22.27				
14	HQAM	16	0	22.28	22.47	22.42		23.5	2	
14	HQAM	3	0	22.25	22.38	22.24				
14	HQAM	3	14	22.22	22.49	22.21				
14	HQAM	3	0	21.27	21.46	21.37		22.5	3	
14	HQAM	3	4	21.22	21.43	21.21				
14	HQAM	3	7	21.22	21.45	21.08				
14	HQAM	15	0	21.28	21.48	21.27				
14	ZSSBAM	1	0	18.43	18.56	18.31		20.5	5	
14	ZSSBAM	1	8	18.32	18.52	18.18				
14	ZSSBAM	1	14	18.31	18.43	18.25				
14	ZSSBAM	8	0	18.40	18.46	18.26		20.5	5	
14	ZSSBAM	8	7	18.25	18.46	18.12				
14	ZSSBAM	16	0	18.29	18.46	18.25				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.27	24.51	24.37		25.5	0	
14	QPSK	1	3	24.32	24.53	24.22				
14	QPSK	1	5	24.33	24.42	24.18				
14	QPSK	1	14	24.23	24.53	24.22		24.5	1	
14	QPSK	8	0	23.27	23.51	23.28				
14	QPSK	8	4	23.32	23.42	23.28				
14	QPSK	8	7	23.24	23.41	23.14				
14	HQAM	1	0	23.27	23.47	23.28		24.5	1	
14	HQAM	1	3	23.28	23.49	23.22				
14	HQAM	8	0	22.30	22.97	22.30		23.5	2	
14	HQAM	8	4	22.33	22.51	22.30				



Band 17 Ant 4 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.40	24.46	24.52		25.5	0	
10	QPSK	25	25	24.38	24.46	24.52				
10	QPSK	1	49	24.38	24.47	24.52				
10	QPSK	25	0	23.37	23.49	23.50				
10	QPSK	25	12	23.30	23.48	23.51		24.5	1	
10	QPSK	25	25	23.39	23.46	23.51				
10	QPSK	50	0	23.35	23.44	23.52				
10	HQAM	1	0	23.37	23.52	23.58				
10	HQAM	1	25	23.40	23.46	23.51		24.5	1	
10	HQAM	1	49	23.37	23.47	23.57				
10	HQAM	1	49	22.42	22.46	22.50				
10	HQAM	25	12	22.35	22.45	22.40		23.5	2	
10	HQAM	25	25	22.41	22.49	22.54				
10	HQAM	50	0	22.34	22.41	22.52				
10	HQAM	1	0	22.41	22.47	22.57				
10	HQAM	1	25	22.46	22.49	22.54		23.5	2	
10	HQAM	1	49	22.40	22.44	22.54				
10	HQAM	25	0	21.32	21.48	21.57				
10	HQAM	25	12	21.36	21.53	21.58		22.5	3	
10	HQAM	25	25	21.36	21.46	21.41				
10	HQAM	50	0	21.36	21.47	21.58				
10	ZSSBAM	1	0	19.40	19.46	19.50				
10	ZSSBAM	1	25	19.34	19.45	19.55		20.5	5	
10	ZSSBAM	1	49	19.39	19.47	19.56				
10	ZSSBAM	25	0	19.43	19.45	19.54				
10	ZSSBAM	25	12	19.43	19.42	19.58		20.5	5	
10	ZSSBAM	25	25	19.38	19.45	19.58				
10	ZSSBAM	50	0	19.37	19.44	19.55				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.32	24.46	24.46		25.5	0	
5	QPSK	1	12	24.30	24.39	24.37				
5	QPSK	1	24	24.35	24.42	24.31				
5	QPSK	12	0	23.30	23.40	23.21				
5	QPSK	12	7	23.32	23.48	23.27		24.5	1	
5	QPSK	12	13	23.32	23.35	23.31				
5	QPSK	25	0	23.24	23.37	23.24				
5	HQAM	1	0	23.33	23.45	23.31				
5	HQAM	1	12	23.28	23.38	23.23		24.5	1	
5	HQAM	1	12	22.32	22.46	22.35				
5	HQAM	12	0	22.33	22.46	22.29				
5	HQAM	12	7	22.27	22.41	22.32		23.5	2	
5	HQAM	12	13	22.33	22.44	22.15				
5	HQAM	25	0	22.34	22.31	22.17				
5	HQAM	1	0	22.43	22.38	22.17		23.5	2	
5	HQAM	1	24	22.32	22.42	22.25				
5	HQAM	1	24	22.29	22.40	22.27				
5	HQAM	12	0	21.22	21.37	21.23				
5	HQAM	12	7	21.33	21.43	21.30		22.5	3	
5	HQAM	12	13	21.34	21.36	21.34				
5	HQAM	25	0	21.29	21.35	21.27				
5	ZSSBAM	1	0	19.29	19.40	19.31				
5	ZSSBAM	1	12	19.25	19.34	19.23		20.5	5	
5	ZSSBAM	1	24	19.35	19.37	19.26				
5	ZSSBAM	12	0	19.25	19.35	19.31				
5	ZSSBAM	12	7	19.29	19.40	19.36		20.5	5	
5	ZSSBAM	12	13	19.28	19.35	19.27				
5	ZSSBAM	25	0	19.25	19.38	19.24				

Band 26 Ant 4 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.42	24.55	24.47		25.5	0	
15	QPSK	1	37	24.38	24.52	24.50				
15	QPSK	1	74	24.36	24.51	24.45				
15	QPSK	36	0	23.45	23.48	23.46				
15	QPSK	36	20	23.38	23.45	23.43		24.5	1	
15	QPSK	36	39	23.36	23.45	23.43				
15	QPSK	75	0	23.34	23.47	23.45				
15	HQAM	1	0	23.44	23.58	23.53				
15	HQAM	1	37	23.39	23.49	23.41		24.5	1	
15	HQAM	1	74	23.39	23.52	23.46				
15	HQAM	36	0	22.42	22.53	22.50				
15	HQAM	36	20	22.32	22.49	22.39		23.5	2	
15	HQAM	36	39	22.32	22.43	22.26				
15	HQAM	75	0	22.33	22.46	22.46				
15	HQAM	1	0	22.48	22.51	22.49		23.5	2	
15	HQAM	1	37	22.34	22.51	22.47				
15	HQAM	1	74	22.38	22.49	22.47				
15	HQAM	36	0	21.48	21.50	21.43				
15	HQAM	36	20	21.36	21.49	21.39		22.5	3	
15	HQAM	36	39	21.34	21.41	21.48				
15	HQAM	75	0	21.32	21.52	21.40				
15	ZSSBAM	1	0	19.46	19.57	19.46				
15	ZSSBAM	1	37	19.35	19.53	19.49		20.5	5	
15	ZSSBAM	1	74	19.34	19.55	19.44				
15	ZSSBAM	36	0	19.47	19.54	19.50				
15	ZSSBAM	36	20	19.44	19.56	19.49		20.5	5	
15	ZSSBAM	36	39	19.43	19.52	19.45				
15	ZSSBAM	75	0	19.34	19.45	19.41				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.40	24.53	24.35		25.5	0	
10	QPSK	1	25	24.29	24.50	24.36				
10	QPSK	1	49	24.35	24.49	24.39				
10	QPSK	25	0	23.43	23.43	23.36				
10	QPSK	25	12	23.44	23.42	23.32		24.5	1	
10	QPSK	25	25	23.29	23.44	23.31				
10	HQAM	1	0	23.52	23.44	23.38				
10	HQAM	1	25	23.38	23.49	23.47				
10	HQAM	1	25	23.39	23.46	23.31		24.5	1	
10	HQAM	1	25	22.38	22.49	22.37				
10	HQAM	12	0	22.34	22.49	22.37				
10	HQAM	12	7	22.28	22.45	22.35		23.5	2	
10	HQAM	12	13	22.34	22.42	22.35				
10	HQAM	50	0	22.32	22.42	22.45				
10	HQAM	1	0	22.48	22.48	22.38		23.5	2	
10	HQAM	1	25	22.38	22.50	22.45				
10	HQAM	1	49	22.33	22.45	22.45				
10	HQAM	25	0	21.37	21.47	21.43		22.5	3	
10	HQAM	25	12	21.38	21.56	21.45				
10	HQAM	25	25	21.29	21.38	21.44				
10	HQAM	50	0	21.22	21.43	21.36				
10	ZSSBAM	1	0	19.45	19.54	19.43				
10	ZSSBAM	1	25	19.27	19.49	19.45		20.5	5	
10	ZSSBAM	1	49	19.33	19.52	19.42				
10	ZSSBAM	12	0	19.38	19.46	19.41				
10	ZSSBAM	12	7	19.35	19.50	19.41		20.5	5	
10	ZSSBAM	12	13	19.41	19.47	19.34				
10	ZSSBAM	25	0	19.34	19.53	19.31				

Band 66 Ant 4 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.05	23.18	22.87				
20	QPSK	1	49	22.95	23.10	22.85		24	0	
20	QPSK	1	99	22.94	23.16	22.87				
20	QPSK	50	0	22.09	22.14	21.91				
20	QPSK	50	24	22.09	22.16	21.88		23	1	
20	QPSK	50	50	21.95	22.14	21.87				
20	HQAM	1	0	21.92	22.14	21.84				
20	HQAM	1	49	21.91	22.11	21.84		23	1	
20	HQAM	1	49	21.92	22.20	21.84				
20	HQAM	1	99	21.98	22.22	21.88				
20	HQAM	50	0	21.09	21.98	20.98				
20	HQAM	50	24	20.83						



Band 38 Ant 1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.53	19.54	19.43	20.5	0		
20	QPSK	1	49	19.43	19.44	19.34				
20	QPSK	1	99	19.45	19.51	19.35	20.5	0		
20	QPSK	50	0	19.42	19.51	19.33				
20	QPSK	50	24	19.48	19.41	19.41	20.5	0		
20	QPSK	50	50	19.45	19.44	19.39				
20	QPSK	100	0	19.42	19.47	19.37	20.5	0		
20	16QAM	1	0	19.43	19.45	19.40				
20	16QAM	1	49	19.34	19.37	19.23	20.5	0		
20	16QAM	1	99	19.31	19.41	19.30				
20	16QAM	50	0	19.32	19.47	19.25	20.5	0		
20	16QAM	50	24	19.36	19.32	19.30				
20	16QAM	50	50	19.35	19.32	19.31	20.5	0		
20	16QAM	100	0	19.34	19.38	19.28				
20	64QAM	1	0	19.40	19.44	19.31	20.5	0		
20	64QAM	1	49	19.37	19.33	19.22				
20	64QAM	1	99	19.38	19.37	19.28	20.5	0		
20	64QAM	50	0	19.39	19.41	19.24				
20	64QAM	50	24	19.38	19.35	19.36	20.5	0		
20	64QAM	50	50	19.34	19.38	19.28				
20	64QAM	100	0	19.38	19.36	19.33	19.5	1		
20	256QAM	1	0	18.54	18.51	18.47				
20	256QAM	1	49	18.45	18.40	18.31	19.5	1		
20	256QAM	1	99	18.41	18.53	18.32				
20	256QAM	50	0	18.39	18.54	18.35	19.5	1		
20	256QAM	50	24	18.49	18.46	18.43				
20	256QAM	50	50	18.42	18.47	18.43	19.5	1		
20	256QAM	100	0	18.44	18.51	18.32				
Channel				37825	38000	38175				
Frequency (MHz)				25775	2592	2612				
15	QPSK	1	0	19.45	19.45	19.38	20.5	0		
15	QPSK	1	37	19.36	19.41	19.23				
15	QPSK	1	74	19.35	19.39	19.27	20.5	0		
15	QPSK	36	0	19.39	19.39	19.31				
15	QPSK	36	20	19.45	19.29	19.33	20.5	0		
15	QPSK	36	39	19.38	19.38	19.36				
15	QPSK	75	0	19.33	19.39	19.24	20.5	0		
15	16QAM	1	0	19.30	19.33	19.33				
15	16QAM	1	37	19.24	19.25	19.12	20.5	0		
15	16QAM	1	74	19.24	19.30	19.27				
15	16QAM	36	0	19.23	19.37	19.21	20.5	0		
15	16QAM	36	20	19.24	19.26	19.26				
15	16QAM	36	39	19.24	19.23	19.29	20.5	0		
15	16QAM	75	0	19.28	19.42	19.26				
15	64QAM	1	0	19.32	19.41	19.21	20.5	0		
15	64QAM	1	37	19.25	19.26	19.19				
15	64QAM	1	74	19.26	19.31	19.15	20.5	0		
15	64QAM	36	0	19.36	19.33	19.19				
15	64QAM	36	20	19.28	19.32	19.23	20.5	0		
15	64QAM	36	39	19.27	19.32	19.22				
15	64QAM	75	0	19.28	19.32	19.21	19.5	1		
15	256QAM	1	0	18.42	18.45	18.45				
15	256QAM	1	37	18.47	18.35	18.28	19.5	1		
15	256QAM	1	74	18.35	18.48	18.18				
15	256QAM	36	0	18.30	18.47	18.25	19.5	1		
15	256QAM	36	20	18.45	18.35	18.37				
15	256QAM	36	39	18.35	18.36	18.35	19.5	1		
15	256QAM	75	0	18.33	18.45	18.19				
Channel				37900	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.43	19.50	19.40	20.5	0		
10	QPSK	1	25	19.31	19.32	19.28				
10	QPSK	1	49	19.36	19.45	19.22	20.5	0		
10	QPSK	25	0	19.28	19.39	19.24				
10	QPSK	25	12	19.40	19.37	19.28	20.5	0		
10	QPSK	25	25	19.41	19.41	19.28				
10	QPSK	50	0	19.32	19.38	19.31	20.5	0		
10	16QAM	1	0	19.32	19.41	19.34				
10	16QAM	1	49	19.26	19.34	19.16	20.5	0		
10	16QAM	1	99	19.25	19.33	19.24				
10	16QAM	25	0	19.23	19.34	19.12	20.5	0		
10	16QAM	25	12	19.31	19.19	19.25				
10	16QAM	25	25	19.24	19.18	19.24	20.5	0		
10	16QAM	50	0	19.35	19.32	19.27				
10	64QAM	1	0	19.30	19.36	19.20	20.5	0		
10	64QAM	1	25	19.27	19.29	19.09				
10	64QAM	1	49	19.30	19.35	19.22	20.5	0		
10	64QAM	25	0	19.28	19.28	19.14				
10	64QAM	25	12	19.26	19.27	19.26	20.5	0		
10	64QAM	25	25	19.30	19.35	19.20				
10	64QAM	50	0	19.32	19.25	19.30	19.5	1		
10	256QAM	1	0	18.50	18.48	18.37				
10	256QAM	1	25	18.43	18.37	18.25	19.5	1		
10	256QAM	1	49	18.30	18.47	18.27				
10	256QAM	25	0	18.32	18.43	18.26	19.5	1		
10	256QAM	25	12	18.37	18.36	18.38				
10	256QAM	25	25	18.37	18.36	18.32	19.5	1		
10	256QAM	50	0	18.38	18.37	18.23				
Channel				37775	38000	38225				
Frequency (MHz)				25725	2595	2617.5				
5	QPSK	1	0	19.44	19.51	19.40	20.5	0		
5	QPSK	1	12	19.39	19.38	19.28				
5	QPSK	1	24	19.43	19.43	19.28	20.5	0		
5	QPSK	12	0	19.33	19.47	19.19				
5	QPSK	12	7	19.42	19.37	19.27	20.5	0		
5	QPSK	12	13	19.36	19.40	19.35				
5	QPSK	25	0	19.33	19.41	19.25	20.5	0		
5	16QAM	1	0	19.39	19.40	19.37				
5	16QAM	1	12	19.23	19.34	19.19	20.5	0		
5	16QAM	1	24	19.21	19.32	19.19				
5	16QAM	12	0	19.22	19.36	19.17	20.5	0		
5	16QAM	12	7	19.33	19.20	19.18				
5	16QAM	12	13	19.25	19.23	19.17	20.5	0		
5	16QAM	25	0	19.34	19.39	19.26				
5	64QAM	1	0	19.27	19.30	19.29	20.5	0		
5	64QAM	1	12	19.26	19.29	19.20				
5	64QAM	1	24	19.24	19.30	19.19	20.5	0		
5	64QAM	12	0	19.28	19.31	19.14				
5	64QAM	12	7	19.35	19.27	19.30	20.5	0		
5	64QAM	12	13	19.22	19.27	19.18				
5	64QAM	25	0	19.30	19.25	19.24	19.5	1		
5	256QAM	1	0	18.47	18.48	18.45				
5	256QAM	1	12	18.34	18.38	18.21	19.5	1		
5	256QAM	1	24	18.29	18.50	18.22				
5	256QAM	12	0	18.35	18.43	18.29	19.5	1		
5	256QAM	12	7	18.38	18.37	18.33				
5	256QAM	12	13	18.38	18.34	18.33	19.5	1		
5	256QAM	25	0	18.40	18.48	18.27				

Band 41 Ant 1 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq	Power Low Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Middle Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.55	20.51	20.64	20.60	20.52	21.5	0
20	QPSK	1	49	20.42	20.47	20.57	20.48	20.44		
20	QPSK	1	99	20.47	20.37	20.51	20.33	20.43	21.5	0
20	QPSK	50	0	20.46	20.44	20.59	20.50	20.45		
20	QPSK	50	24	20.43	20.45	20.54	20.54	20.48	21.5	0
20	QPSK	50	50	20.50	20.49	20.56	20.53	20.46		
20	QPSK	100	0	20.51	20.40	20.52	20.52	20.39	21.5	0
2										



Band 42 Part 27Q Ant 2 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.06	19.15	19.09			
20	QPSK	1	49	18.98	19.10	18.99	20	0	
20	QPSK	1	99	18.96	19.06	19.02			
20	QPSK	50	0	18.05	18.18	18.04			
20	QPSK	50	24	17.97	18.09	18.00			
20	QPSK	50	50	17.95	18.10	18.07	19	1	
20	QPSK	100	0	18.11	18.15	18.14			
20	16QAM	1	0	18.11	18.14	18.05			
20	16QAM	1	49	18.03	18.16	18.04	19	1	
20	16QAM	1	99	17.96	18.03	18.01			
20	16QAM	50	0	17.07	17.16	17.09			
20	16QAM	50	24	17.01	17.06	17.01	18	2	
20	16QAM	50	50	16.97	17.05	17.13			
20	16QAM	100	0	17.09	17.20	17.13			
20	64QAM	1	0	17.07	17.18	17.00			
20	64QAM	1	49	17.06	17.22	17.08	18	2	
20	64QAM	1	99	17.01	17.02	17.03			
20	64QAM	50	0	16.02	16.16	15.98			
20	64QAM	50	24	16.03	16.12	16.02	17	3	
20	64QAM	50	50	15.92	16.12	16.12			
20	64QAM	100	0	16.11	16.16	16.15			
20	256QAM	1	0	14.07	14.14	14.04			
20	256QAM	1	49	13.92	14.08	13.99	15	5	
20	256QAM	1	99	13.93	14.12	14.01			
20	256QAM	50	0	14.06	14.17	14.16			
20	256QAM	50	24	14.06	14.18	14.03	15	5	
20	256QAM	50	50	14.02	14.20	14.02			
20	256QAM	100	0	13.92	14.05	14.01			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423.5	3500	3576.5			
15	QPSK	1	0	19.02	19.04	19.04	20	0	
15	QPSK	1	37	18.96	18.99	18.99			
15	QPSK	1	74	18.92	19.01	18.90			
15	QPSK	36	0	17.91	18.09	18.01			
15	QPSK	36	20	17.84	18.04	17.98	19	1	
15	QPSK	36	39	17.90	18.08	17.95			
15	QPSK	75	0	16.07	16.09	16.08			
15	16QAM	1	0	18.07	18.12	18.01			
15	16QAM	1	37	18.00	18.02	17.94	19	1	
15	16QAM	1	74	17.84	17.97	17.87			
15	16QAM	36	0	17.04	17.11	16.95			
15	16QAM	36	20	16.90	16.92	16.95	18	2	
15	16QAM	36	39	16.89	17.03	17.04			
15	16QAM	75	0	17.06	17.11	17.10			
15	64QAM	1	0	17.01	17.10	16.93			
15	64QAM	1	37	16.99	17.09	17.03	18	2	
15	64QAM	1	74	16.89	16.98	16.92			
15	64QAM	36	0	15.99	16.10	15.93			
15	64QAM	36	20	15.92	16.08	15.91	17	3	
15	64QAM	36	39	15.83	16.05	16.00			
15	64QAM	75	0	14.02	14.07	13.91			
15	256QAM	1	0	13.76	14.02	13.96	15	5	
15	256QAM	1	37	13.78	14.02	13.96			
15	256QAM	1	74	13.83	14.07	13.89			
15	256QAM	36	0	14.04	14.11	14.11			
15	256QAM	36	20	14.00	14.04	13.94	15	5	
15	256QAM	36	39	13.90	14.10	13.93			
15	256QAM	75	0	13.93	13.95	13.94			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.98	19.02	19.06	20	0	
10	QPSK	1	25	18.93	18.96	18.96			
10	QPSK	1	49	18.90	18.96	18.93			
10	QPSK	25	0	17.98	18.05	17.92			
10	QPSK	25	12	17.88	18.05	17.96	19	1	
10	QPSK	25	25	17.88	18.06	17.97			
10	QPSK	50	0	18.02	18.05	18.12			
10	16QAM	1	0	18.00	18.05	17.97			
10	16QAM	1	25	17.97	18.03	17.98	19	1	
10	16QAM	1	49	17.91	17.92	17.91			
10	16QAM	25	0	17.00	17.10	16.99			
10	16QAM	25	12	16.90	17.00	16.89	18	2	
10	16QAM	25	25	16.91	16.96	17.06			
10	16QAM	50	0	17.07	17.10	17.08			
10	64QAM	1	0	17.02	17.15	16.91	18	2	
10	64QAM	1	25	17.03	17.15	16.99			
10	64QAM	1	49	16.91	16.91	16.95			
10	64QAM	25	0	15.99	16.10	15.90			
10	64QAM	25	12	15.96	16.09	15.97	17	3	
10	64QAM	25	25	15.85	16.06	15.99			
10	64QAM	50	0	16.02	16.10	16.01			
10	256QAM	1	0	13.99	14.11	13.92	15	5	
10	256QAM	1	25	13.86	13.95	13.89			
10	256QAM	1	49	13.87	14.04	13.87			
10	256QAM	25	0	13.97	14.14	14.03			
10	256QAM	25	12	13.98	14.07	13.95	15	5	
10	256QAM	25	25	13.96	14.15	13.90			
10	256QAM	50	0	13.85	13.94	13.88			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423	3500	3577			
5	QPSK	1	0	19.00	19.05	18.98	20	0	
5	QPSK	1	12	18.93	19.01	18.96			
5	QPSK	1	24	18.86	18.99	18.96			
5	QPSK	12	0	17.94	18.13	17.98			
5	QPSK	12	7	17.88	18.02	17.88	19	1	
5	QPSK	12	13	17.86	18.00	17.95			
5	QPSK	25	0	18.01	18.12	18.08			
5	16QAM	1	0	18.06	18.10	17.94			
5	16QAM	1	12	17.89	18.11	18.01	19	1	
5	16QAM	1	24	17.87	17.97	17.95			
5	16QAM	12	0	17.03	17.03	16.99			
5	16QAM	12	7	16.97	17.03	16.90	18	2	
5	16QAM	12	13	16.88	17.00	17.04			
5	16QAM	25	0	17.00	17.12	17.07			
5	64QAM	1	0	16.96	17.10	16.91			
5	64QAM	1	12	16.96	17.16	17.02	18	2	
5	64QAM	1	24	16.92	16.92	16.95			
5	64QAM	12	0	15.99	16.11	15.91			
5	64QAM	12	7	15.90	16.05	15.95	17	3	
5	64QAM	12	13	15.88	16.05	16.00			
5	64QAM	25	0	15.97	16.06	16.01			
5	256QAM	1	0	14.02	14.06	13.90	15	5	
5	256QAM	1	12	13.79	14.04	13.89			
5	256QAM	1	24	13.86	14.09	13.88			
5	256QAM	12	0	13.92	14.08	14.05			
5	256QAM	12	7	13.99	14.14	13.98	15	5	
5	256QAM	12	13	13.97	14.13	13.97			
5	256QAM	25	0	13.85	13.94	13.97			

Band 48 Ant 2 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150			
Frequency (MHz)				3560	3569	3641			
20	QPSK	1	0	19.03	19.12	19.01			
20	QPSK	1	49	19.01	19.06	18.94	20	0	
20	QPSK	1	99	19.01	19.11	18.93			
20	QPSK	50	0	18.08	18.13	17.99			
20	QPSK	50	24	18.05	18.04	18.00	19	1	
20	QPSK	50	50	18.01	18.11	17.87			
20	QPSK	100	0	18.02	18.14	17.92			
20	16QAM	1	0	18.02	18.11	17.97			
20	16QAM	1	49	17.95	18.03	17.91	19	1	
20	16QAM	1	99	17.97	18.05	17.90			
20	16QAM	50	0	17.07	17.16	17.05			
20	16QAM	50	24	17.00	17.03	17.03	18	2	
20	16QAM	50	50	16.96	17.10	16.89			
20	16QAM	100	0	16.98</					



Band 38 Ant 3 DSI 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2590	2595	2610					
20	QPSK	1	0	23.43	23.52	23.48					
20	QPSK	1	49	23.38	23.45	23.38	24.5	0			
20	QPSK	1	99	23.40	23.40	23.37					
20	QPSK	50	0	22.37	22.57	22.43					
20	QPSK	50	24	22.34	22.49	22.37					
20	QPSK	50	50	22.41	22.42	22.33	23.5	1			
20	QPSK	100	0	22.46	22.52	22.50					
20	16QAM	1	0	22.44	22.54	22.47					
20	16QAM	1	49	22.38	22.51	22.36	23.5	1			
20	16QAM	1	99	22.39	22.39	22.34					
20	16QAM	50	0	21.36	21.56	21.37					
20	16QAM	50	24	21.36	21.54	21.35					
20	16QAM	50	50	21.42	21.43	21.29					
20	16QAM	100	0	21.40	21.53	21.47					
20	64QAM	1	0	21.50	21.56	21.43					
20	64QAM	1	49	21.43	21.52	21.38	22.5	2			
20	64QAM	1	99	21.33	21.41	21.31					
20	64QAM	50	0	20.39	20.58	20.44					
20	64QAM	50	24	20.35	20.54	20.32					
20	64QAM	50	50	20.41	20.47	20.31	21.5	3			
20	64QAM	100	0	20.48	20.58	20.45					
20	256QAM	1	0	18.32	18.52	18.37					
20	256QAM	1	49	18.40	18.46	18.40	19.5	5			
20	256QAM	1	99	18.44	18.37	18.35					
20	256QAM	50	0	18.46	18.48	18.46					
20	256QAM	50	24	18.45	18.58	18.42					
20	256QAM	50	50	18.43	18.54	18.34	19.5	5			
20	256QAM	100	0	18.38	18.42	18.29					
Channel				37825	38000	38175					
Frequency (MHz)				2372.5	2375	2372.5					
15	QPSK	1	0	23.29	23.45	23.45					
15	QPSK	1	37	23.31	23.38	23.27	24.5	0			
15	QPSK	1	74	23.36	23.27	23.34					
15	QPSK	36	0	22.25	22.47	22.32					
15	QPSK	36	20	22.31	22.41	22.29					
15	QPSK	36	39	22.27	22.36	22.22	23.5	1			
15	QPSK	75	0	22.42	22.47	22.40					
15	16QAM	1	0	22.33	22.40	22.39					
15	16QAM	1	37	22.31	22.38	22.25	23.5	1			
15	16QAM	1	74	22.27	22.31	22.25					
15	16QAM	36	0	21.27	21.45	21.27					
15	16QAM	36	20	21.28	21.31	21.28					
15	16QAM	36	39	21.29	21.37	21.24	22.5	2			
15	16QAM	75	0	21.32	21.43	21.45					
15	64QAM	1	0	21.41	21.49	21.30					
15	64QAM	1	37	21.35	21.39	21.32	22.5	2			
15	64QAM	1	74	21.25	21.29	21.26					
15	64QAM	36	0	20.32	20.51	20.32					
15	64QAM	36	20	20.32	20.48	20.23					
15	64QAM	36	39	20.37	20.36	20.20	21.5	3			
15	64QAM	75	0	20.40	20.51	20.37					
15	256QAM	1	0	18.20	18.21	18.33					
15	256QAM	1	37	18.30	18.38	18.34	19.5	5			
15	256QAM	1	74	18.32	18.28	18.30					
15	256QAM	36	0	18.39	18.41	18.43					
15	256QAM	36	20	18.35	18.50	18.32					
15	256QAM	36	39	18.39	18.44	18.23	19.5	5			
15	256QAM	75	0	18.27	18.35	18.25					
Channel				37860	38000	38125					
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	23.34	23.39	23.43					
10	QPSK	1	25	23.27	23.39	23.32	24.5	0			
10	QPSK	1	49	23.36	23.33	23.25					
10	QPSK	25	0	22.24	22.46	22.38					
10	QPSK	25	12	22.24	22.37	22.31					
10	QPSK	25	25	22.37	22.37	22.20	23.5	1			
10	QPSK	50	0	22.39	22.46	22.43					
10	16QAM	1	0	22.33	22.42	22.35					
10	16QAM	1	49	22.27	22.45	22.32	23.5	1			
10	16QAM	1	99	22.35	22.31	22.27					
10	16QAM	25	0	21.32	21.53	21.31					
10	16QAM	25	12	21.32	21.50	21.27					
10	16QAM	25	25	21.28	21.40	21.17	22.5	2			
10	16QAM	50	0	21.30	21.42	21.40					
10	64QAM	1	0	21.43	21.53	21.34					
10	64QAM	1	25	21.34	21.44	21.27	22.5	2			
10	64QAM	1	49	21.19	21.35	21.29					
10	64QAM	25	0	20.34	20.52	20.41					
10	64QAM	25	12	20.27	20.50	20.19					
10	64QAM	25	25	20.36	20.36	20.25	21.5	3			
10	64QAM	50	0	20.43	20.52	20.32					
10	256QAM	1	0	18.28	18.50	18.33					
10	256QAM	1	25	18.27	18.39	18.36	19.5	5			
10	256QAM	1	49	18.39	18.27	18.33					
10	256QAM	25	0	18.39	18.35	18.39					
10	256QAM	25	12	18.34	18.50	18.31					
10	256QAM	25	25	18.34	18.47	18.23	19.5	5			
10	256QAM	50	0	18.34	18.32	18.28					
Channel				37775	38000	38225					
Frequency (MHz)				2372.5	2375	2372.5					
5	QPSK	1	0	23.39	23.39	23.37					
5	QPSK	1	12	23.28	23.36	23.29	24.5	0			
5	QPSK	1	24	23.30	23.26	23.27					
5	QPSK	12	0	22.23	22.51	22.34					
5	QPSK	12	7	22.29	22.36	22.35					
5	QPSK	12	13	22.31	22.30	22.27	23.5	1			
5	QPSK	25	0	22.43	22.48	22.46					
5	16QAM	1	0	22.41	22.46	22.40					
5	16QAM	1	12	22.29	22.41	22.31	23.5	1			
5	16QAM	1	24	22.26	22.28	22.22					
5	16QAM	12	0	21.25	21.43	21.29					
5	16QAM	12	7	21.29	21.41	21.24					
5	16QAM	12	13	21.34	21.32	21.22	22.5	2			
5	16QAM	25	0	21.31	21.43	21.34					
5	64QAM	1	0	21.42	21.47	21.32					
5	64QAM	1	12	21.36	21.42	21.27	22.5	2			
5	64QAM	1	24	21.21	21.33	21.22					
5	64QAM	12	0	20.35	20.54	20.37					
5	64QAM	12	7	20.31	20.50	20.25					
5	64QAM	12	13	20.33	20.44	20.22	21.5	3			
5	64QAM	25	0	20.43	20.47	20.37					
5	256QAM	1	0	18.23	18.38	18.26					
5	256QAM	1	12	18.30	18.34	18.33	19.5	5			
5	256QAM	1	24	18.30	18.25	18.24					
5	256QAM	12	0	18.44	18.38	18.33					
5	256QAM	12	7	18.38	18.55	18.30					
5	256QAM	12	13	18.39	18.42	18.21	19.5	5			
5	256QAM	25	0	18.24	18.31	18.18					

Band 41 Ant 3 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2590	2595	2610	2636.5	2660		
20	QPSK	1	0	23.52	23.48	23.59	23.56	23.50		
20	QPSK	1	49	23.47	23.39	23.46	23.39	23.44	24.5	0
20	QPSK	1	99	23.40	23.38	23.44	23.36	23.34		
20	QPSK	50	0	22.86	22.41	22.86	22.42	22.57		
20	QPSK	50	24	22.50						



Band 42 Part 27Q Ant 3 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.46	20.47	20.22	21.5	0	
20	QPSK	1	49	20.42	20.41	20.19			
20	QPSK	1	99	20.42	20.45	20.19			
20	QPSK	50	0	19.47	19.47	19.21	20.5	1	
20	QPSK	50	24	19.44	19.42	19.23			
20	QPSK	50	50	19.46	19.42	19.20			
20	QPSK	100	0	19.37	19.41	19.16			
20	16QAM	1	0	19.41	19.41	19.19	20.5	1	
20	16QAM	1	49	19.46	19.47	19.19			
20	16QAM	1	99	19.46	19.50	19.23			
20	16QAM	50	0	18.51	18.45	18.26	19.5	2	
20	16QAM	50	24	18.41	18.43	18.25			
20	16QAM	50	50	18.46	18.44	18.24			
20	16QAM	100	0	18.38	18.36	18.19			
20	64QAM	1	0	18.38	18.43	18.08	19.5	2	
20	64QAM	1	49	18.32	18.35	18.13			
20	64QAM	1	99	18.37	18.35	18.08			
20	64QAM	50	0	17.35	17.41	17.16			
20	64QAM	50	24	17.29	17.30	17.12	18.5	3	
20	64QAM	50	50	17.35	17.34	17.16			
20	64QAM	100	0	17.22	17.38	17.03			
20	256QAM	1	0	15.40	15.43	15.27	16.5	5	
20	256QAM	1	49	15.37	15.42	15.24			
20	256QAM	1	99	15.39	15.42	15.23			
20	256QAM	50	0	15.37	15.39	15.05	16.5	5	
20	256QAM	50	24	15.37	15.33	15.16			
20	256QAM	50	50	15.40	15.30	15.16			
20	256QAM	100	0	15.27	15.32	15.08			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3425	3475	3525			
15	QPSK	1	0	20.46	20.46	20.18	21.5	0	
15	QPSK	1	37	20.39	20.39	20.11			
15	QPSK	1	74	20.32	20.39	20.14			
15	QPSK	36	0	19.46	19.45	19.20	20.5	1	
15	QPSK	36	20	19.39	19.32	19.12			
15	QPSK	36	39	19.41	19.34	19.09			
15	QPSK	75	0	19.28	19.40	19.06	20.5	1	
15	16QAM	1	0	19.41	19.40	19.14			
15	16QAM	1	37	19.42	19.39	19.17	20.5	1	
15	16QAM	1	74	19.36	19.47	19.19			
15	16QAM	36	0	18.41	18.41	18.25	19.5	2	
15	16QAM	36	20	18.20	18.30	18.19			
15	16QAM	36	39	18.37	18.34	18.21			
15	16QAM	75	0	18.27	18.32	18.14	19.5	2	
15	64QAM	1	0	18.28	18.36	18.01			
15	64QAM	1	37	18.30	18.30	18.02	19.5	2	
15	64QAM	1	74	18.26	18.29	18.07			
15	64QAM	36	0	17.26	17.32	17.08	18.5	3	
15	64QAM	36	20	17.25	17.27	17.04			
15	64QAM	36	39	17.27	17.31	17.05			
15	64QAM	75	0	17.13	17.26	17.00	16.5	5	
15	256QAM	1	0	15.31	15.37	15.24			
15	256QAM	1	37	15.27	15.37	15.18			
15	256QAM	1	74	15.32	15.34	15.12	16.5	5	
15	256QAM	36	0	15.33	15.37	14.98			
15	256QAM	36	20	15.33	15.22	15.07			
15	256QAM	36	39	15.40	15.27	15.07			
15	256QAM	75	0	15.24	15.23	15.09			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.38	20.42	20.16	21.5	0	
10	QPSK	1	25	20.31	20.31	20.15			
10	QPSK	1	49	20.33	20.43	20.12			
10	QPSK	25	0	19.41	19.38	19.18	20.5	1	
10	QPSK	25	12	19.41	19.37	19.21			
10	QPSK	25	25	19.36	19.41	19.11			
10	QPSK	50	0	19.27	19.39	19.06	20.5	1	
10	16QAM	1	0	19.40	19.33	19.17			
10	16QAM	1	25	19.39	19.36	19.14			
10	16QAM	1	49	19.35	19.48	19.16	19.5	2	
10	16QAM	25	0	18.41	18.39	18.17			
10	16QAM	25	12	18.40	18.40	18.18			
10	16QAM	25	25	18.44	18.38	18.15	19.5	2	
10	16QAM	50	0	18.29	18.36	18.12			
10	64QAM	1	0	18.28	18.35	18.00	19.5	2	
10	64QAM	1	25	18.29	18.29	18.02			
10	64QAM	1	49	18.29	18.28	18.02			
10	64QAM	25	0	17.35	17.37	17.07	18.5	3	
10	64QAM	25	12	17.17	17.25	17.04			
10	64QAM	25	25	17.27	17.30	17.14			
10	64QAM	50	0	17.13	17.24	16.96	16.5	5	
10	256QAM	1	0	15.37	15.40	15.15			
10	256QAM	1	25	15.27	15.32	15.18			
10	256QAM	1	49	15.32	15.34	15.19	16.5	5	
10	256QAM	25	0	15.33	15.29	14.99			
10	256QAM	25	12	15.36	15.21	15.13			
10	256QAM	25	25	15.32	15.24	15.09	16.5	5	
10	256QAM	50	0	15.25	15.28	15.00			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3425	3475	3525			
5	QPSK	1	0	20.42	20.43	20.22	21.5	0	
5	QPSK	1	12	20.38	20.33	20.11			
5	QPSK	1	24	20.39	20.34	20.09			
5	QPSK	12	0	19.43	19.37	19.17	20.5	1	
5	QPSK	12	7	19.41	19.38	19.13			
5	QPSK	12	13	19.40	19.35	19.10			
5	QPSK	25	0	19.29	19.32	19.09	20.5	1	
5	16QAM	1	0	19.37	19.34	19.08			
5	16QAM	1	12	19.42	19.44	19.19	20.5	1	
5	16QAM	1	24	19.42	19.40	19.13			
5	16QAM	12	0	18.47	18.40	18.23	19.5	2	
5	16QAM	12	7	18.30	18.42	18.22			
5	16QAM	12	13	18.37	18.43	18.12			
5	16QAM	25	0	18.31	18.30	18.08	19.5	2	
5	64QAM	1	0	18.36	18.41	18.02			
5	64QAM	1	12	18.23	18.27	18.06	18.5	3	
5	64QAM	1	24	18.30	18.25	18.04			
5	64QAM	12	0	17.26	17.41	17.10	18.5	3	
5	64QAM	12	7	17.23	17.19	17.01			
5	64QAM	12	13	17.33	17.24	17.09			
5	64QAM	25	0	17.16	17.24	16.95	16.5	5	
5	256QAM	1	0	15.32	15.33	15.16			
5	256QAM	1	12	15.26	15.30	15.22	16.5	5	
5	256QAM	1	24	15.37	15.34	15.17			
5	256QAM	12	0	15.37	15.27	15.02	16.5	5	
5	256QAM	12	7	15.25	15.29	15.16			
5	256QAM	12	13	15.33	15.29	15.12			
5	256QAM	25	0	15.22	15.24	15.06			

Band 48 Ant 3 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55590	56150	56640		
Frequency (MHz)				3560	3569	3641	3690		
20	QPSK	1	0	20.44	20.46	20.39	21.5	0	
20	QPSK	1	49	20.33	20.45	20.29			
20	QPSK	1	99	20.36	20.45	20.32			
20	QPSK	50	0	19.40	19.47	19.41	20.5	1	
20	QPSK	50	24	19.48	19.48	19.33			
20	QPSK	50	50	19.37	19.42	19.36			
20	QPSK	100	0	19.32	19.47	19.37			
20	16QAM	1	0	19.41	19.48	19.37	20.5	1	
20	16QAM	1	49	19.35	19.43	19.30			
20	16QAM	1	99	19.37	19.51	19.28			
20	16QAM	50	0	18.42	18.50	18.40	19.5	2	
20	16QAM	50	24	18.50	18.47	18.32			
20	16QAM	50	50	18.35	18.40	18.38			
20	16QAM	100	0	18.37	18.49	18.32	19.5	2	
20	64QAM	1	0	18.50	18.40	18.38			
20	64QAM	1	49	18.38	18.49	18.25	18.5	3	
20	64QAM	1							



Band 38 Ant 4 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.11	23.16	23.12	24.5	0		
20	QPSK	1	49	23.09	23.15	23.05				
20	QPSK	1	99	23.08	23.14	23.05				
20	QPSK	50	0	22.10	22.20	22.15				
20	QPSK	50	24	22.05	22.18	22.13				
20	QPSK	50	50	22.11	22.15	22.07	23.5	1		
20	16QAM	100	0	22.14	22.18	22.14				
20	16QAM	1	0	22.10	22.16	22.10				
20	16QAM	1	49	22.09	22.13	22.04	23.5	1		
20	16QAM	1	99	22.05	22.13	22.06				
20	16QAM	50	0	21.08	21.15	21.05				
20	16QAM	50	24	21.07	21.17	21.15				
20	16QAM	50	50	21.17	21.17	21.07				
20	16QAM	100	0	21.08	21.14	20.99				
20	64QAM	1	0	21.09	21.17	21.09				
20	64QAM	1	49	21.05	21.14	21.03	22.5	2		
20	64QAM	1	99	21.08	21.11	21.07				
20	64QAM	50	0	20.12	20.17	20.08				
20	64QAM	50	24	20.08	20.24	20.11				
20	64QAM	50	50	20.16	20.16	20.11	21.5	3		
20	64QAM	100	0	19.97	20.14	20.05				
20	256QAM	1	0	18.05	18.20	18.06				
20	256QAM	1	49	18.10	18.18	18.04	19.5	5		
20	256QAM	1	99	18.04	18.11	18.00				
20	256QAM	50	0	18.08	18.19	18.04				
20	256QAM	50	24	18.05	18.14	18.12	19.5	5		
20	256QAM	50	50	18.08	18.17	18.04				
20	256QAM	100	0	18.02	18.18	18.08				
Channel				37825	38000	38175				
Frequency (MHz)				25775	25952	26127				
15	QPSK	1	0	23.09	23.14	23.02	24.5	0		
15	QPSK	1	37	23.08	23.08	23.02				
15	QPSK	1	74	22.92	23.10	23.03				
15	QPSK	36	0	22.02	22.09	22.07				
15	QPSK	36	20	21.98	22.07	22.12	23.5	1		
15	QPSK	36	39	22.10	22.15	22.02				
15	QPSK	75	0	22.11	22.12	22.05				
15	16QAM	1	0	21.99	22.06	22.10				
15	16QAM	1	37	22.09	22.07	21.98	23.5	1		
15	16QAM	1	74	21.96	22.10	21.98				
15	16QAM	36	0	21.05	21.10	20.99				
15	16QAM	36	20	21.05	21.12	21.06				
15	16QAM	36	39	21.12	21.11	21.02	22.5	2		
15	16QAM	75	0	20.97	21.03	20.91				
15	64QAM	1	0	21.02	21.10	21.03				
15	64QAM	1	37	20.95	21.08	21.02	22.5	2		
15	64QAM	1	74	21.02	21.09	20.99				
15	64QAM	36	0	20.07	20.13	19.99				
15	64QAM	36	20	20.06	20.12	20.07	21.5	3		
15	64QAM	36	39	20.16	20.06	20.05				
15	64QAM	75	0	19.85	20.11	20.02				
15	256QAM	1	0	17.96	18.12	18.04	19.5	5		
15	256QAM	1	37	18.01	18.11	17.98				
15	256QAM	1	74	18.04	18.03	17.93				
15	256QAM	36	0	18.08	18.19	17.95				
15	256QAM	36	20	18.04	18.09	18.12	19.5	5		
15	256QAM	36	39	18.05	18.15	18.03				
15	256QAM	75	0	17.99	18.13	17.99				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.10	23.14	23.09	24.5	0		
10	QPSK	1	25	23.00	23.09	22.95				
10	QPSK	1	49	22.93	23.12	22.99				
10	QPSK	25	0	22.09	22.16	22.10				
10	QPSK	25	12	21.96	22.07	22.04	23.5	1		
10	QPSK	25	25	22.05	22.13	22.05				
10	QPSK	50	0	22.13	22.13	22.12				
10	16QAM	1	0	22.04	22.14	22.13	23.5	1		
10	16QAM	1	25	22.07	22.05	22.01				
10	16QAM	1	49	21.96	22.04	22.01				
10	16QAM	25	0	21.00	21.14	20.99				
10	16QAM	25	12	21.00	21.11	21.14				
10	16QAM	25	25	21.05	21.15	21.01	22.5	2		
10	16QAM	50	0	20.98	21.11	20.92				
10	64QAM	1	0	21.02	21.16	21.09				
10	64QAM	1	25	20.98	21.12	20.97	22.5	2		
10	64QAM	1	49	21.05	21.01	20.99				
10	64QAM	25	0	20.10	20.06	20.05				
10	64QAM	25	12	20.02	20.16	20.06	21.5	3		
10	64QAM	25	25	20.06	20.13	20.10				
10	64QAM	50	0	19.91	20.04	19.94				
10	256QAM	1	0	17.99	18.09	18.01	19.5	5		
10	256QAM	1	25	18.03	18.11	18.01				
10	256QAM	1	49	18.03	18.05	17.94				
10	256QAM	25	0	17.96	18.10	18.02				
10	256QAM	25	12	18.14	18.09	18.08	19.5	5		
10	256QAM	25	25	17.97	18.06	17.95				
10	256QAM	50	0	17.99	18.15	17.99				
Channel				37775	38000	38225				
Frequency (MHz)				23225	23265	23312				
5	QPSK	1	0	23.04	23.14	23.03	24.5	0		
5	QPSK	1	12	23.07	23.08	23.03				
5	QPSK	1	24	23.01	23.06	22.94				
5	QPSK	12	0	22.05	22.14	22.12				
5	QPSK	12	7	21.99	22.12	22.13	23.5	1		
5	QPSK	12	13	22.06	22.05	22.02				
5	QPSK	25	0	22.02	22.15	22.11				
5	16QAM	1	0	22.02	22.11	22.12				
5	16QAM	1	12	22.09	22.01	22.00	23.5	1		
5	16QAM	1	24	21.97	22.06	22.03				
5	16QAM	12	0	20.99	21.06	20.94				
5	16QAM	12	7	20.99	21.12	21.07				
5	16QAM	12	13	21.08	21.10	21.05	22.5	2		
5	16QAM	25	0	20.91	21.09	20.88				
5	64QAM	1	0	21.04	21.16	20.98				
5	64QAM	1	12	21.03	21.09	20.96	22.5	2		
5	64QAM	1	24	21.03	21.08	21.04				
5	64QAM	12	0	20.09	20.07	20.06				
5	64QAM	12	7	19.98	20.18	20.01	21.5	3		
5	64QAM	12	13	20.13	20.09	20.05				
5	64QAM	25	0	19.89	20.08	20.00				
5	256QAM	1	0	18.05	18.11	18.06	19.5	5		
5	256QAM	1	12	18.05	18.11	18.03				
5	256QAM	1	24	17.99	18.07	17.92				
5	256QAM	12	0	18.07	18.10	17.92				
5	256QAM	12	7	18.00	18.03	18.10	19.5	5		
5	256QAM	12	13	17.94	18.10	17.94				
5	256QAM	25	0	17.93	18.12	18.03				

Band 41 Ant 4 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620				
Frequency (MHz)				2506	2549.5	2593				
20	QPSK	1	0	23.09	23.16	23.27	24.5	0		
20	QPSK	1	49	23.02	23.14	23.25				
20	QPSK	1	99	23.01	23.15	23.22				
20	QPSK	50	0	22.07	22.12	22.27				
20	QPSK	50	24	22.11	22.18	22.26				
20	QPSK	50	50	22.02	22.19	22.23	23.5	1		
20	16QAM	100	0	22.14	22.12	22.24				
20	16QAM	1	0	21.98	22.16	22.20				
20	16QAM	1	49	21.98	22.16	22.20	23.5</			



Band 42 Part 27Q Ant 5 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	24.56	24.59	24.54	25.5	0	
20	QPSK	1	49	24.54	24.57	24.51			
20	QPSK	1	99	24.52	24.56	24.48			
20	QPSK	50	0	23.53	23.57	23.52			
20	QPSK	50	24	23.57	23.56	23.57			
20	QPSK	50	50	23.54	23.55	23.45	24.5	1	
20	QPSK	100	0	23.53	23.57	23.52			
20	16QAM	1	0	23.53	23.57	23.52			
20	16QAM	1	49	23.59	23.56	23.46			
20	16QAM	1	99	23.52	23.60	23.46			
20	16QAM	50	0	22.48	22.56	22.51			
20	16QAM	50	24	22.52	22.50	22.51			
20	16QAM	50	50	22.59	22.52	22.48			
20	16QAM	100	0	22.47	22.56	22.53			
20	64QAM	1	0	22.53	22.56	22.57			
20	64QAM	1	49	22.50	22.56	22.50			
20	64QAM	1	99	22.51	22.60	22.45			
20	64QAM	50	0	21.58	21.61	21.53			
20	64QAM	50	24	21.54	21.58	21.59			
20	64QAM	50	50	21.56	21.61	21.41	22.5	3	
20	64QAM	100	0	21.55	21.52	21.55			
20	256QAM	1	0	19.55	19.56	19.49			
20	256QAM	1	49	19.54	19.56	19.53			
20	256QAM	1	99	19.54	19.61	19.48			
20	256QAM	50	0	19.57	19.59	19.52			
20	256QAM	50	24	19.52	19.54	19.61			
20	256QAM	50	50	19.53	19.56	19.48			
20	256QAM	100	0	19.55	19.57	19.56			
Channel				42165	42590	43015			
Frequency (MHz)				3422.5	3422.5	3422.5			
15	QPSK	1	0	24.46	24.56	24.47	25.5	0	
15	QPSK	1	37	24.46	24.47	24.39			
15	QPSK	1	74	24.40	24.48	24.48			
15	QPSK	36	0	23.44	23.45	23.51			
15	QPSK	36	20	23.52	23.49	23.54			
15	QPSK	36	39	23.49	23.45	23.41	24.5	1	
15	QPSK	75	0	23.40	23.46	23.46			
15	16QAM	1	0	23.46	23.56	23.40			
15	16QAM	1	37	23.48	23.47	23.36			
15	16QAM	1	74	23.49	23.50	23.36			
15	16QAM	36	0	22.36	22.50	22.47			
15	16QAM	36	20	22.51	22.46	22.49			
15	16QAM	36	39	22.48	22.50	22.42			
15	16QAM	75	0	22.45	22.51	22.46			
15	64QAM	1	0	22.50	22.51	22.46			
15	64QAM	1	37	22.40	22.46	22.47			
15	64QAM	1	74	22.46	22.57	22.43			
15	64QAM	36	0	21.51	21.59	21.52			
15	64QAM	36	20	21.47	21.48	21.57			
15	64QAM	36	39	21.51	21.54	21.33	22.5	3	
15	64QAM	75	0	21.50	21.45	21.48			
15	256QAM	1	0	19.52	19.51	19.41			
15	256QAM	1	37	19.43	19.56	19.51			
15	256QAM	1	74	19.46	19.60	19.42			
15	256QAM	36	0	19.56	19.57	19.40			
15	256QAM	36	20	19.46	19.45	19.57			
15	256QAM	36	39	19.50	19.50	19.40			
15	256QAM	75	0	19.51	19.51	19.45			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	24.51	24.58	24.43	25.5	0	
10	QPSK	1	25	24.47	24.50	24.43			
10	QPSK	1	49	24.49	24.56	24.41			
10	QPSK	25	0	23.44	23.56	23.45			
10	QPSK	25	12	23.52	23.45	23.50			
10	QPSK	25	25	23.49	23.50	23.43			
10	QPSK	50	0	23.44	23.53	23.50			
10	16QAM	1	0	23.49	23.45	23.44			
10	16QAM	1	25	23.52	23.47	23.45			
10	16QAM	1	49	23.40	23.60	23.44			
10	16QAM	25	0	22.44	22.55	22.48			
10	16QAM	25	12	22.44	22.39	22.46			
10	16QAM	25	25	22.56	22.49	22.41			
10	16QAM	50	0	22.41	22.54	22.51			
10	64QAM	1	0	22.48	22.54	22.50			
10	64QAM	1	25	22.49	22.49	22.46			
10	64QAM	1	49	22.41	22.56	22.36			
10	64QAM	25	0	21.55	21.57	21.48			
10	64QAM	25	12	21.49	21.54	21.51			
10	64QAM	25	25	21.49	21.50	21.30	22.5	3	
10	64QAM	50	0	21.43	21.47	21.49			
10	256QAM	1	0	19.45	19.52	19.42			
10	256QAM	1	25	19.50	19.53	19.45			
10	256QAM	1	49	19.53	19.51	19.37			
10	256QAM	25	0	19.49	19.52	19.47			
10	256QAM	25	12	19.44	19.44	19.50			
10	256QAM	25	25	19.46	19.48	19.43			
10	256QAM	50	0	19.49	19.55	19.52			
Channel				42115	42590	43065			
Frequency (MHz)				3422.5	3500	3577.5			
5	QPSK	1	0	24.50	24.54	24.49	25.5	0	
5	QPSK	1	12	24.44	24.54	24.47			
5	QPSK	1	24	24.50	24.52	24.39			
5	QPSK	12	0	23.44	23.46	23.44			
5	QPSK	12	7	23.45	23.45	23.46			
5	QPSK	12	13	23.46	23.45	23.38			
5	QPSK	25	0	23.43	23.40	23.50			
5	16QAM	1	0	23.53	23.51	23.42			
5	16QAM	1	12	23.54	23.48	23.37			
5	16QAM	1	24	23.44	23.59	23.38			
5	16QAM	12	0	22.45	22.48	22.44			
5	16QAM	12	7	22.45	22.45	22.48			
5	16QAM	12	13	22.47	22.50	22.42			
5	16QAM	25	0	22.36	22.51	22.44			
5	64QAM	1	0	22.48	22.49	22.53			
5	64QAM	1	12	22.42	22.53	22.47			
5	64QAM	1	24	22.45	22.49	22.42			
5	64QAM	12	0	21.50	21.57	21.45			
5	64QAM	12	7	21.52	21.54	21.57			
5	64QAM	12	13	21.48	21.54	21.30	22.5	3	
5	64QAM	25	0	21.54	21.45	21.47			
5	256QAM	1	0	19.47	19.44	19.38			
5	256QAM	1	12	19.52	19.55	19.51			
5	256QAM	1	24	19.52	19.59	19.40			
5	256QAM	12	0	19.51	19.53	19.44			
5	256QAM	12	7	19.40	19.42	19.59			
5	256QAM	12	13	19.42	19.46	19.39			
5	256QAM	25	0	19.55	19.45	19.54			

Band 48 Ant 5 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150			
Frequency (MHz)				3560	3569	3641			
20	QPSK	1	0	24.41	24.48	24.34	25.5	0	
20	QPSK	1	49	24.37	24.46	24.28			
20	QPSK	1	99	24.38	24.43	24.32			
20	QPSK	50	0	23.43	23.46	23.34			
20	QPSK	50	24	23.46	23.51	23.32			
20	QPSK	50	50	23.41	23.49	23.32	24.5	1	
20	QPSK	100	0	23.42	23.45	23.35			
20	16QAM	1	0	23.47	23.42	23.31			
20	16QAM	1	49	23.33	23.45	23.29			
20	16QAM	1	99	23.35	23.39	23.30			
20	16QAM	50	0	22.47	22.52	22.33			
20	16QAM	50	24	22.46	22.49	22.27			
20	16QAM	50	50	22.42	22.52	22.36			
20	16QAM	100	0	22.41	22.46	22.34			
20	64QAM	1	0	22.37	22.45	22.34			



Band 42 Part 27Q Ant 7 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.79	20.81	20.75	22	0	
20	QPSK	1	49	20.70	20.78	20.68			
20	QPSK	1	99	20.74	20.69	20.73			
20	QPSK	50	0	20.66	20.78	20.84			
20	QPSK	50	24	20.71	20.72	20.62			
20	QPSK	50	50	20.68	20.75	20.65	22	0	
20	QPSK	100	0	20.75	20.75	20.72			
20	16QAM	1	0	20.65	20.69	20.73			
20	16QAM	1	49	20.66	20.75	20.56	22	0	
20	16QAM	1	99	20.61	20.59	20.66			
20	16QAM	50	0	20.62	20.69	20.52			
20	16QAM	50	24	20.68	20.59	20.57	22	0	
20	16QAM	50	50	20.66	20.72	20.62			
20	16QAM	100	0	20.68	20.68	20.65			
20	64QAM	1	0	20.74	20.70	20.67			
20	64QAM	1	49	20.64	20.73	20.56	22	0	
20	64QAM	1	99	20.66	20.63	20.58			
20	64QAM	50	0	19.73	19.78	19.72			
20	64QAM	50	24	19.65	19.78	19.71	21	1	
20	64QAM	50	50	19.74	19.74	19.74			
20	64QAM	100	0	19.63	19.77	19.66			
20	256QAM	1	0	17.83	17.79	17.89			
20	256QAM	1	49	17.69	17.73	17.62	19	3	
20	256QAM	1	99	17.76	17.71	17.62			
20	256QAM	50	0	17.70	17.76	17.65			
20	256QAM	50	24	17.69	17.68	17.58	19	3	
20	256QAM	50	50	17.71	17.80	17.63			
20	256QAM	100	0	17.72	17.71	17.75			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423.5	3466	3509			
15	QPSK	1	0	20.69	20.75	20.61	22	0	
15	QPSK	1	37	20.57	20.66	20.65			
15	QPSK	1	74	20.65	20.62	20.56			
15	QPSK	36	0	20.62	20.67	20.55			
15	QPSK	36	20	20.63	20.64	20.51	22	0	
15	QPSK	36	39	20.66	20.71	20.58			
15	QPSK	75	0	20.73	20.65	20.84			
15	16QAM	1	0	20.62	20.56	20.69			
15	16QAM	1	37	20.60	20.66	20.45	22	0	
15	16QAM	1	74	20.48	20.48	20.63			
15	16QAM	36	0	20.54	20.57	20.45			
15	16QAM	36	20	20.65	20.45	20.50	22	0	
15	16QAM	36	39	20.54	20.58	20.49			
15	16QAM	75	0	20.66	20.58	20.60			
15	64QAM	1	0	20.65	20.57	20.56			
15	64QAM	1	37	20.52	20.69	20.51	22	0	
15	64QAM	1	74	20.58	20.60	20.63			
15	64QAM	36	0	19.70	19.72	19.59			
15	64QAM	36	20	19.60	19.74	19.65	21	1	
15	64QAM	36	39	19.65	19.65	19.71			
15	64QAM	75	0	19.56	19.64	19.61			
15	256QAM	1	0	17.70	17.68	17.55			
15	256QAM	1	37	17.68	17.66	17.58	19	3	
15	256QAM	1	74	17.64	17.61	17.59			
15	256QAM	36	0	17.59	17.65	17.54			
15	256QAM	36	20	17.57	17.62	17.49	19	3	
15	256QAM	36	39	17.69	17.73	17.58			
15	256QAM	75	0	17.64	17.64	17.67			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.69	20.69	20.67	22	0	
10	QPSK	1	25	20.66	20.72	20.65			
10	QPSK	1	49	20.63	20.66	20.67			
10	QPSK	25	0	20.58	20.72	20.54			
10	QPSK	25	12	20.57	20.68	20.58	22	0	
10	QPSK	25	25	20.55	20.70	20.57			
10	QPSK	50	0	20.72	20.66	20.67			
10	16QAM	1	0	20.61	20.57	20.70			
10	16QAM	1	25	20.62	20.70	20.61	22	0	
10	16QAM	1	49	20.55	20.47	20.64			
10	16QAM	25	0	20.51	20.58	20.49			
10	16QAM	25	12	20.57	20.56	20.49	22	0	
10	16QAM	25	25	20.63	20.64	20.56			
10	16QAM	50	0	20.60	20.55	20.54			
10	64QAM	1	0	20.61	20.58	20.69	22	0	
10	64QAM	1	25	20.58	20.63	20.54			
10	64QAM	1	49	20.60	20.53	20.45			
10	64QAM	25	0	19.69	19.69	19.64			
10	64QAM	25	12	19.59	19.68	19.63	21	1	
10	64QAM	25	25	19.69	19.71	19.69			
10	64QAM	50	0	19.62	19.68	19.63			
10	256QAM	1	0	17.72	17.71	17.59	19	3	
10	256QAM	1	25	17.58	17.69	17.53			
10	256QAM	1	49	17.70	17.59	17.48			
10	256QAM	25	0	17.61	17.73	17.54			
10	256QAM	25	12	17.59	17.63	17.50	19	3	
10	256QAM	25	25	17.57	17.78	17.53			
10	256QAM	50	0	17.62	17.57	17.64			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423	3500	3577			
5	QPSK	1	0	20.73	20.67	20.71	22	0	
5	QPSK	1	12	20.64	20.68	20.65			
5	QPSK	1	24	20.71	20.59	20.56			
5	QPSK	12	0	20.58	20.65	20.64			
5	QPSK	12	7	20.67	20.70	20.52	22	0	
5	QPSK	12	13	20.54	20.70	20.52			
5	QPSK	25	0	20.66	20.72	20.66			
5	16QAM	1	0	20.55	20.63	20.71			
5	16QAM	1	12	20.52	20.63	20.43	22	0	
5	16QAM	1	24	20.58	20.50	20.63			
5	16QAM	12	0	20.52	20.59	20.48			
5	16QAM	12	7	20.57	20.51	20.53	22	0	
5	16QAM	12	13	20.62	20.70	20.55			
5	16QAM	25	0	20.64	20.59	20.59			
5	64QAM	1	0	20.69	20.66	20.60			
5	64QAM	1	12	20.52	20.71	20.50	22	0	
5	64QAM	1	24	20.61	20.56	20.48			
5	64QAM	12	0	19.66	19.76	19.63			
5	64QAM	12	7	19.63	19.71	19.62	21	1	
5	64QAM	12	13	19.59	19.64	19.69			
5	64QAM	25	0	19.53	19.66	19.54			
5	256QAM	1	0	17.61	17.66	17.57	19	3	
5	256QAM	1	12	17.58	17.67	17.57			
5	256QAM	1	24	17.71	17.62	17.60			
5	256QAM	12	0	17.64	17.70	17.63	19	3	
5	256QAM	12	7	17.64	17.58	17.45			
5	256QAM	12	13	17.64	17.76	17.52			
5	256QAM	25	0	17.70	17.67	17.61			

Band 48 Ant 7 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150			
Frequency (MHz)				3560	3569	3641			
20	QPSK	1	0	22.15	22.23	22.20	23.5	0	
20	QPSK	1	49	22.05	22.16	22.12			
20	QPSK	1	99	22.03	22.12	22.16			
20	QPSK	50	0	21.18	21.25	21.15			
20	QPSK	50	24	21.06	21.12	21.17	22.5	1	
20	QPSK	50	50	21.02	21.15	21.21			
20	QPSK	100	0	21.11	21.21	21.19			
20	16QAM	1	0	21.19	21.18	21.24			
20	16QAM	1	49	21.03	21.17	21.08	22.5	1	
20	16QAM	1	99	21.00	21.17	21.22			
20	16QAM	50	0	20.16	20.22	20.15			
20	16QAM	50	24	20.03	20.16	20.15	21.5	2	
20	16QAM	50	50	19.97	20.20	20.17			
20	16QAM	100	0	2					



Reduced Power Mode for DSI4 Main PA

GSM850 Ant 1 DSI 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	830.4	848.8	824.2	830.4	848.8	824.2	830.4
GSM 1 Tx slot	32.28	32.29	32.29	33.50	23.20	23.29	23.28	24.50
GPRS 1 Tx slot	32.24	32.26	32.24	33.50	23.24	23.26	23.24	24.50
GPRS 2 Tx slots	31.43	31.53	31.51	32.50	25.43	25.53	25.51	26.50
GPRS 3 Tx slots	29.67	29.75	29.77	31.00	25.41	25.49	25.51	26.74
GPRS 4 Tx slots	29.63	29.87	29.73	30.00	25.63	25.97	25.73	27.00
EDGE 1 Tx slot	26.87	26.99	26.94	28.00	17.87	17.99	17.94	19.00
EDGE 2 Tx slots	23.95	23.99	23.90	25.00	17.96	17.99	17.90	19.00
EDGE 3 Tx slots	22.09	22.15	22.13	23.20	17.83	17.89	17.87	18.94
EDGE 4 Tx slots	20.63	20.98	20.84	22.00	17.63	17.98	17.84	19.00

GSM1900 Ant 1 DSI 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1869.8	1850.2	1860	1869.8	1850.2	1860
GSM 1 Tx slot	28.16	29.45	29.43	30.50	20.16	20.45	20.43	21.50
GPRS 1 Tx slot	29.31	29.38	29.36	30.50	20.31	20.38	20.36	21.50
GPRS 2 Tx slots	26.80	26.97	26.86	28.00	20.80	20.97	20.86	22.00
GPRS 3 Tx slots	24.90	24.95	24.89	26.20	20.84	20.89	20.83	21.94
GPRS 4 Tx slots	23.55	23.62	23.54	25.00	20.55	20.62	20.54	22.00
EDGE 1 Tx slot	25.84	25.90	25.81	27.00	18.84	18.90	18.81	18.00
EDGE 2 Tx slots	22.85	22.86	22.80	24.00	16.85	16.88	16.80	18.00
EDGE 3 Tx slots	21.02	21.08	21.01	22.20	16.76	16.82	16.75	17.94
EDGE 4 Tx slots	19.82	19.87	19.82	21.00	16.62	16.67	16.62	18.00

Band	WCDMA 3 Ant 1 DSI 4			Tune-up Limit (dBm)	WCDMA 4 Ant 1 DSI 4			Tune-up Limit (dBm)	WCDMA 5 Ant 1 DSI 4			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458	4508	4558	
Frequency (MHz)	1824	1820	1807.6	1717.4	1727.6	1727.4	322.4	332.4	342.6	342.6	352.6	
3GPP Rel 99 - AMC 12.2kops	18.53	19.00	18.53	20.00	18.53	18.50	18.53	20.00	21.38	24.46	24.50	
3GPP Rel 99 - RMC 12.2kops	18.89	19.01	18.97	20.00	18.96	18.97	18.93	20.00	24.48	24.50	25.50	
3GPP Rel 6 - HSDPA Subtest-1	17.81	18.00	17.85	19.00	17.96	17.99	17.98	19.00	23.52	23.54	23.46	
3GPP Rel 6 - HSDPA Subtest-2	17.91	18.04	17.97	19.00	17.91	18.02	17.95	19.00	23.47	23.43	24.50	
3GPP Rel 6 - HSDPA Subtest-3	17.36	17.47	17.42	18.50	17.51	17.50	17.42	18.50	23.94	23.91	22.90	
3GPP Rel 6 - HSDPA Subtest-4	17.40	17.54	17.42	18.50	17.47	17.49	17.38	18.50	23.01	22.98	22.91	
3GPP Rel 8 - DC-HSDPA Subtest-1	17.84	18.06	17.82	19.00	17.86	18.01	17.96	19.00	23.46	23.56	23.41	
3GPP Rel 8 - DC-HSDPA Subtest-2	17.84	17.97	17.94	19.00	17.96	18.02	17.94	19.00	23.47	23.53	23.46	
3GPP Rel 8 - DC-HSDPA Subtest-3	17.53	17.51	17.42	18.50	17.50	17.49	17.40	18.50	23.01	23.04	22.94	
3GPP Rel 8 - DC-HSDPA Subtest-4	17.36	17.52	17.52	18.50	17.44	17.44	17.45	18.50	23.01	23.01	22.97	
3GPP Rel 6 - HSUPA Subtest-1	17.85	17.95	18.00	19.00	18.00	17.96	17.90	19.00	23.49	23.52	23.42	
3GPP Rel 6 - HSUPA Subtest-2	15.83	16.00	15.96	17.00	15.88	15.95	15.92	17.00	21.48	21.50	21.41	
3GPP Rel 6 - HSUPA Subtest-3	16.83	17.02	16.92	18.00	16.88	16.98	16.93	18.00	22.51	22.48	22.39	
3GPP Rel 6 - HSUPA Subtest-4	15.80	16.01	16.03	17.00	15.98	16.01	15.95	17.00	21.46	21.51	21.45	
3GPP Rel 6 - HSUPA Subtest-5	17.87	18.01	18.00	19.00	17.90	17.96	17.88	19.00	23.45	23.49	23.49	
3GPP Rel 7 - HSPA+ (TCM) Subtest-1	15.33	15.49	15.52	16.50	15.41	15.44	15.46	16.50	20.96	21.01	20.97	



Band 2 Ant 1 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (min)	MPE (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.95	19.03	18.92				
20	QPSK	1	49	18.92	18.91	18.79				
20	QPSK	50	0	18.91	19.01	18.84				
20	QPSK	50	49	18.83	18.99	18.89				
20	QPSK	50	50	18.87	18.93	18.82				
20	QPSK	100	0	18.82	18.99	18.83				
20	QPSK	100	49	18.82	18.97	18.89				
20	HQAM	1	49	18.79	18.93	18.68				
20	HQAM	1	99	18.84	18.85	18.70				
20	HQAM	50	0	18.87	18.97	18.77				
20	HQAM	50	24	18.77	18.95	18.81				
20	HQAM	50	50	18.81	18.80	18.72				
20	HQAM	100	0	18.85	18.85	18.77				
20	HQAM	100	49	18.89	18.88	18.90				
20	HQAM	1	49	18.78	18.84	18.77				
20	HQAM	50	0	18.86	18.80	18.97				
20	HQAM	50	0	18.86	18.88	18.78				
20	HQAM	50	24	18.71	18.94	18.80				
20	HQAM	100	0	18.82	18.85	18.78				
20	ZSSBAM	1	49	17.87	18.00	17.81				
20	ZSSBAM	1	99	17.88	17.87	17.82				
20	ZSSBAM	50	0	17.99	18.04	17.82				
20	ZSSBAM	50	24	17.84	18.00	17.89				
20	ZSSBAM	50	50	17.85	17.88	17.87				
20	ZSSBAM	100	0	17.89	18.00	17.88				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.93	18.92	18.86				
15	QPSK	1	74	18.86	18.83	18.78				
15	QPSK	36	0	18.79	18.97	18.71				
15	QPSK	36	36	18.71	18.92	18.74				
15	QPSK	36	36	18.80	18.85	18.75				
15	QPSK	75	0	18.81	18.86	18.80				
15	QPSK	75	0	18.76	18.94	18.78				
15	HQAM	1	37	18.72	18.81	18.58				
15	HQAM	1	74	18.85	18.84	18.78				
15	HQAM	36	0	18.77	18.90	18.73				
15	HQAM	36	36	18.83	18.84	18.87				
15	HQAM	36	36	18.86	18.79	18.80				
15	HQAM	36	36	18.73	18.79	18.81				
15	HQAM	75	0	18.81	18.77	18.74				
15	HQAM	1	0	18.78	18.91	18.83				
15	HQAM	1	74	18.84	18.84	18.84				
15	HQAM	1	74	18.82	18.89	18.87				
15	HQAM	36	0	18.73	18.86	18.78				
15	HQAM	36	36	18.86	18.79	18.80				
15	HQAM	36	36	18.73	18.79	18.81				
15	HQAM	75	0	18.78	18.79	18.89				
15	ZSSBAM	1	37	17.85	17.90	17.80				
15	ZSSBAM	1	74	17.86	17.74	17.75				
15	ZSSBAM	36	0	18.85	18.81	18.88				
15	ZSSBAM	36	36	18.81	17.92	17.85				
15	ZSSBAM	36	36	17.80	17.75	17.73				
15	ZSSBAM	75	0	17.84	17.81	17.81				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.81	18.89	18.80				
10	QPSK	1	25	18.77	18.88	18.74				
10	QPSK	1	49	18.90	18.86	18.66				
10	QPSK	12	0	18.86	18.84	18.76				
10	QPSK	25	12	18.72	18.95	18.73				
10	QPSK	25	25	18.74	18.89	18.73				
10	QPSK	25	25	18.82	18.84	18.71				
10	QPSK	50	0	18.79	18.89	18.80				
10	HQAM	1	0	18.79	18.89	18.80				
10	HQAM	1	25	18.72	18.85	18.64				
10	HQAM	1	49	18.85	18.84	18.68				
10	HQAM	25	0	18.80	18.89	18.74				
10	HQAM	25	12	18.64	18.90	18.74				
10	HQAM	25	25	18.86	18.73	18.80				
10	HQAM	50	0	18.73	18.80	18.75				
10	HQAM	1	0	18.81	18.87	18.78				
10	HQAM	1	25	18.82	18.82	18.78				
10	HQAM	1	49	18.84	18.89	18.80				
10	HQAM	25	0	18.79	18.95	18.75				
10	HQAM	25	12	18.78	18.87	18.78				
10	HQAM	25	25	18.86	18.76	18.82				
10	HQAM	50	0	18.71	18.84	18.67				
10	ZSSBAM	1	25	17.85	17.90	17.80				
10	ZSSBAM	1	49	17.78	17.74	17.73				
10	ZSSBAM	12	0	17.83	17.98	17.81				
10	ZSSBAM	12	13	18.73	18.80	18.85				
10	ZSSBAM	25	0	18.82	18.86	18.82				
10	ZSSBAM	25	12	18.70	18.77	18.73				
10	ZSSBAM	25	25	17.75	17.78	17.73				
10	ZSSBAM	50	0	17.82	17.85	17.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.81	18.85	18.80				
5	QPSK	1	12	18.81	18.88	18.74				
5	QPSK	1	24	18.81	18.87	18.74				
5	QPSK	12	0	18.86	18.84	18.76				
5	QPSK	12	13	18.73	18.80	18.81				
5	QPSK	25	0	18.82	18.86	18.73				
5	HQAM	1	0	18.70	18.90	18.80				
5	HQAM	1	12	18.66	18.83	18.82				
5	HQAM	1	24	18.86	18.77	18.68				
5	HQAM	12	0	18.74	18.86	18.73				
5	HQAM	12	13	18.73	18.87	18.78				
5	HQAM	12	13	18.76	18.74	18.63				
5	HQAM	25	0	18.80	18.73	18.71				
5	HQAM	1	0	18.87	18.93	18.82				
5	HQAM	1	12	18.86	18.83	18.87				
5	HQAM	1	24	18.74	18.88	18.84				
5	HQAM	12	0	18.83	18.93	18.77				
5	HQAM	12	13	18.82	18.85	18.73				
5	HQAM	25	0	18.76	18.90	18.89				
5	ZSSBAM	1	12	17.86	17.98	17.84				
5	ZSSBAM	1	12	17.85	17.89	17.73				
5	ZSSBAM	1	24	17.81	17.76	17.69				
5	ZSSBAM	12	0	17.84	17.83	17.71				
5	ZSSBAM	12	13	17.76	17.62	17.84				
5	ZSSBAM	25	0	17.81	17.84	17.78				
5	ZSSBAM	25	12	17.81	17.84	17.78				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.87	18.90	18.83				
3	QPSK	1	8	18.71	18.90	18.70				
3	QPSK	1	14	18.83	18.89	18.86				
3	QPSK	8	0	18.86	18.89	18.70				
3	QPSK	8	4	18.76	18.90	18.73				
3	QPSK	8	7	18.75	18.89	18.78				
3	QPSK	16	0	18.87	18.96	18.71				
3	HQAM	1	0	18.80	18.93	18.81				
3	HQAM	1	8	18.77	18.81	18.56				
3	HQAM	1	14	18.78	18.78	18.63				
3	HQAM	8	0	18.73	18.93	18.68				
3	HQAM	8	4	18.70	18.92	18.70				
3	HQAM	8	7	18.68	18.75	18.68				
3	HQAM	16	0	18.73	18.72	18.69				
3	HQAM	1	0	18.87	18.98	18.88				
3	HQAM	1	8	18.84	18.89	18.68				
3	HQAM	1	14	18.70	18.76	18.57				
3	HQAM	8	0	18.77	18.93	18.67				
3	HQAM	8	4	18.83	18.83	18.73				
3	HQAM	8	7	18.77	18.71	18.62				
3	HQAM	16	0	18.86	18.84	18.71				
3	ZSSBAM	1	8	17.83	18.02	17.77				
3	ZSSBAM	1	8							



Band 7 Ant 1 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.88	18.93	18.94	20	0		
20	QPSK	1	99	18.78	18.87	18.79	20	0		
20	QPSK	50	0	18.78	18.88	18.78	20	0		
20	QPSK	50	24	18.82	18.90	18.77	20	0		
20	QPSK	50	50	18.80	18.86	18.82	20	0		
20	QPSK	100	0	18.86	18.84	18.80	20	0		
20	HQAM	1	0	18.80	18.80	18.77	20	0		
20	HQAM	1	49	18.70	18.81	18.70	20	0		
20	HQAM	1	99	18.67	18.74	18.76	20	0		
20	HQAM	50	0	18.66	18.69	18.69	20	0		
20	HQAM	50	24	18.69	18.72	18.73	20	0		
20	HQAM	50	50	18.80	18.72	18.73	20	0		
20	HQAM	100	0	18.79	18.72	18.75	22.45	0		
20	HQAM	1	0	18.79	18.83	18.77	20	0		
20	HQAM	1	49	18.75	18.71	18.64	20	0		
20	HQAM	1	99	18.66	18.73	18.68	20	0		
20	HQAM	50	0	18.64	18.65	18.65	20	0		
20	HQAM	50	24	18.72	18.79	18.76	20	0		
20	HQAM	50	50	18.73	18.74	18.75	20	0		
20	HQAM	100	0	18.80	18.75	18.87	20	0		
20	ZSSBAM	1	0	18.62	18.60	18.51	19.5	0.5		
20	ZSSBAM	1	49	18.34	18.31	18.17	19.5	0.5		
20	ZSSBAM	1	99	18.21	18.36	18.27	19.5	0.5		
20	ZSSBAM	50	0	18.27	18.39	18.26	19.5	0.5		
20	ZSSBAM	50	24	18.28	18.38	18.23	19.5	0.5		
20	ZSSBAM	50	50	18.26	18.31	18.33	19.5	0.5		
20	ZSSBAM	100	0	18.32	18.30	18.23	19.5	0.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.84	18.90	18.71	20	0		
15	QPSK	1	97	18.74	18.76	18.66	24.37	0		
15	QPSK	1	74	18.70	18.78	18.66	24.37	0		
15	QPSK	36	0	18.70	18.78	18.66	24.37	0		
15	QPSK	36	34	18.79	18.77	18.67	24.37	0		
15	QPSK	36	99	18.73	18.80	18.73	24.37	0		
15	HQAM	75	0	18.84	18.81	18.71	24.37	0		
15	HQAM	1	0	18.74	18.74	18.66	24.37	0		
15	HQAM	1	37	18.63	18.76	18.59	24.37	0		
15	HQAM	1	74	18.66	18.65	18.56	24.37	0		
15	HQAM	36	0	18.66	18.74	18.67	24.37	0		
15	HQAM	36	30	18.67	18.63	18.62	24.37	0		
15	HQAM	36	99	18.69	18.69	18.65	24.37	0		
15	HQAM	75	0	18.78	18.81	18.70	24.37	0		
15	HQAM	1	0	18.65	18.70	18.74	24.37	0		
15	HQAM	1	74	18.64	18.65	18.56	24.37	0		
15	HQAM	1	74	18.65	18.64	18.60	24.37	0		
15	HQAM	36	0	18.62	18.69	18.56	24.37	0		
15	HQAM	36	30	18.67	18.65	18.73	24.37	0		
15	HQAM	75	0	18.71	18.70	18.63	24.37	0		
15	ZSSBAM	1	0	18.27	18.29	18.26	19.5	0.5		
15	ZSSBAM	1	37	18.30	18.29	18.03	19.5	0.5		
15	ZSSBAM	1	74	18.18	18.30	18.16	19.5	0.5		
15	ZSSBAM	36	0	18.21	18.33	18.10	19.5	0.5		
15	ZSSBAM	36	30	18.16	18.27	18.28	19.5	0.5		
15	ZSSBAM	75	0	18.16	18.23	18.13	19.5	0.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.80	18.79	18.80	20	0		
5	QPSK	1	49	18.68	18.79	18.67	20	0		
5	QPSK	12	0	18.72	18.80	18.65	20	0		
5	QPSK	25	0	18.68	18.80	18.73	20	0		
5	QPSK	25	25	18.68	18.72	18.73	20	0		
5	HQAM	1	0	18.75	18.74	18.73	20	0		
5	HQAM	1	25	18.59	18.71	18.59	20	0		
5	HQAM	12	0	18.63	18.63	18.63	20	0		
5	HQAM	25	0	18.58	18.69	18.65	20	0		
5	HQAM	24	12	18.66	18.65	18.65	20	0		
5	HQAM	25	0	18.66	18.62	18.69	20	0		
5	HQAM	50	0	18.74	18.67	18.61	20	0		
5	HQAM	1	0	18.75	18.61	18.74	20	0		
5	HQAM	1	25	18.63	18.64	18.52	20	0		
5	HQAM	1	49	18.54	18.70	18.56	20	0		
5	HQAM	25	0	18.51	18.77	18.52	20	0		
5	HQAM	25	25	18.68	18.65	18.68	20	0		
5	HQAM	50	0	18.73	18.64	18.55	20	0		
5	ZSSBAM	1	0	18.27	18.27	18.22	19.5	0.5		
5	ZSSBAM	1	25	18.27	18.27	18.25	19.5	0.5		
5	ZSSBAM	1	49	18.18	18.25	18.21	19.5	0.5		
5	ZSSBAM	12	0	18.21	18.33	18.22	19.5	0.5		
5	ZSSBAM	25	0	18.18	18.25	18.13	19.5	0.5		
5	ZSSBAM	25	25	18.24	18.23	18.25	19.5	0.5		
5	ZSSBAM	50	0	18.16	18.20	18.20	19.5	0.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.81	18.81	18.72	20	0		
5	QPSK	1	12	18.73	18.81	18.63	20	0		
5	QPSK	1	24	18.69	18.78	18.71	20	0		
5	QPSK	12	0	18.72	18.80	18.65	20	0		
5	QPSK	12	7	18.65	18.72	18.75	20	0		
5	HQAM	1	0	18.77	18.70	18.67	20	0		
5	HQAM	1	12	18.67	18.78	18.62	20	0		
5	HQAM	1	24	18.66	18.62	18.69	20	0		
5	HQAM	12	0	18.63	18.69	18.62	20	0		
5	HQAM	12	7	18.66	18.62	18.66	20	0		
5	HQAM	25	0	18.74	18.69	18.72	20	0		
5	HQAM	1	0	18.70	18.76	18.67	20	0		
5	HQAM	1	12	18.70	18.69	18.54	20	0		
5	HQAM	1	24	18.67	18.69	18.58	20	0		
5	HQAM	12	0	18.60	18.76	18.55	20	0		
5	HQAM	12	7	18.69	18.69	18.71	20	0		
5	HQAM	12	13	18.60	18.75	18.70	20	0		
5	HQAM	25	0	18.67	18.68	18.59	20	0		
5	ZSSBAM	1	0	18.29	18.38	18.20	19.5	0.5		
5	ZSSBAM	1	12	18.24	18.18	18.04	19.5	0.5		
5	ZSSBAM	1	24	18.13	18.28	18.20	19.5	0.5		
5	ZSSBAM	12	0	18.18	18.27	18.22	19.5	0.5		
5	ZSSBAM	12	7	18.20	18.29	18.11	19.5	0.5		
5	ZSSBAM	25	0	18.21	18.22	18.21	19.5	0.5		

Band 12 Ant 1 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.29	24.45	24.37	25.5	0		
10	QPSK	1	25	24.24	24.37	24.24	25.5	0		
10	QPSK	1	49	24.31	24.34	24.28	25.5	0		
10	QPSK	25	0	23.42	23.45	23.37	24.5	1		
10	QPSK	25	12	23.32	23.40	23.28	24.5	1		
10	QPSK	25	25	23.34	23.37	23.20	24.5	1		
10	QPSK	50	0	23.25	23.42	23.35	24.5	1		
10	HQAM	1	0	23.37	23.40	23.29	24.5	1		
10	HQAM	1	25	23.40	23.40	23.28	24.5	1		
10	HQAM	1	49	23.25	23.28	23.25	24.5	1		
10	HQAM	25	0	22.47	22.41	22.32	23.5	2		
10	HQAM	25	12	22.33	22.42	22.23	23.5	2		
10	HQAM	25	25	22.29	22.37	22.21	23.5	2		
10	HQAM	50	0	22.39	22.42	22.31	23.5	2		
10	HQAM	1	0	22.42	22.37	22.28	23.5	2		
10	HQAM	1	25	22.42	22.37	22.28	23.5	2		
10	HQAM	25	0	21.41	21.48	21.34	22.5	3		
10	HQAM	25	12	21.26	21.36	21.24	22.5			



Band 17 Ant 1 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
700 710 715										
10	QPSK	1	0	24.36	24.37	24.28		25.5	0	
10	QPSK	25	25	24.20	24.35	24.18				
10	QPSK	1	46	24.22	24.23	24.18				
10	QPSK	25	0	23.34	23.35	23.26				
10	QPSK	25	12	23.28	23.34	23.17		24.5	1	
10	QPSK	25	25	23.28	23.25	23.07				
10	QPSK	50	0	23.29	23.34	23.28				
10	HQAM	1	0	23.25	23.32	23.27				
10	HQAM	1	25	23.28	23.30	23.18		24.5	1	
10	HQAM	1	46	23.24	23.22	23.12				
10	HQAM	25	0	22.24	22.28	22.22				
10	HQAM	25	12	22.28	22.30	22.18		23.5	2	
10	HQAM	25	25	22.26	22.31	22.17				
10	HQAM	50	0	22.16	22.27	22.22				
10	HQAM	1	0	22.33	22.36	22.22				
10	HQAM	1	25	22.28	22.29	22.23		23.5	2	
10	HQAM	1	46	22.24	22.14	22.09				
10	HQAM	25	0	21.27	21.45	21.31				
10	HQAM	25	12	21.23	21.34	21.21		22.5	3	
10	HQAM	25	25	21.24	21.28	21.13				
10	HQAM	50	0	21.10	21.33	21.27				
10	SSQAM	1	0	19.20	19.33	19.20				
10	SSQAM	1	25	19.25	19.36	19.18		20.5	5	
10	SSQAM	1	46	19.30	19.30	19.17				
10	SSQAM	25	0	19.27	19.30	19.28				
10	SSQAM	25	12	19.30	19.36	19.24		20.5	5	
10	SSQAM	25	25	19.35	19.35	19.12				
10	SSQAM	50	0	19.23	19.27	19.23				
Channel										
7075 710 7135										
5	QPSK	1	0	24.20	24.23	24.20		25.5	0	
5	QPSK	1	12	24.26	24.29	24.18				
5	QPSK	1	24	24.20	24.21	24.05				
5	QPSK	12	0	23.20	23.33	23.20				
5	QPSK	12	7	23.23	23.24	23.05		24.5	1	
5	QPSK	12	13	23.18	23.19	22.84				
5	QPSK	25	0	23.25	23.25	23.04				
5	QPSK	1	0	23.21	23.26	23.18				
5	HQAM	1	12	23.20	23.17	23.13		24.5	1	
5	HQAM	1	24	23.15	23.22	23.16				
5	HQAM	12	0	22.24	22.24	22.11				
5	HQAM	12	7	22.19	22.17	22.15		23.5	2	
5	HQAM	12	13	22.24	22.21	22.11				
5	HQAM	25	0	22.09	22.08	22.11				
5	HQAM	1	0	22.21	22.28	22.12		23.5	2	
5	HQAM	1	12	22.24	22.21	22.11				
5	HQAM	1	24	22.15	22.10	21.95				
5	HQAM	12	0	21.24	21.36	21.25				
5	HQAM	12	7	21.18	21.32	21.16		22.5	3	
5	HQAM	12	13	21.10	21.14	21.03				
5	HQAM	25	0	21.09	21.05	21.17				
5	SSQAM	1	0	19.20	19.36	19.23				
5	SSQAM	1	12	19.23	19.36	19.25		20.5	5	
5	SSQAM	1	24	19.21	19.18	19.06				
5	SSQAM	12	0	19.16	19.19	19.13				
5	SSQAM	12	7	19.19	19.34	19.19		20.5	5	
5	SSQAM	12	13	19.32	19.29	19.04				
5	SSQAM	25	0	19.17	19.21	19.17				

Band 26 Ant 1 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
821.5 831.5 841.5										
15	QPSK	1	0	24.38	24.41	24.39		25.5	0	
15	QPSK	1	37	24.24	24.35	24.22				
15	QPSK	1	74	24.30	24.35	24.22				
15	QPSK	36	0	23.41	23.48	23.36		24.5	1	
15	QPSK	36	20	23.23	23.34	23.25				
15	QPSK	36	39	23.27	23.39	23.20				
15	QPSK	75	0	23.41	23.34	23.36				
15	HQAM	1	0	23.38	23.42	23.35				
15	HQAM	1	37	23.31	23.28	23.35		24.5	1	
15	HQAM	1	74	23.25	23.32	23.28				
15	HQAM	36	0	22.38	22.37	22.39				
15	HQAM	36	20	22.26	22.39	22.13		23.5	2	
15	HQAM	36	39	22.27	22.32	22.25				
15	HQAM	75	0	22.39	22.38	22.25				
15	HQAM	1	0	22.27	22.33	22.20		23.5	2	
15	HQAM	1	37	22.39	22.32	22.30				
15	HQAM	1	74	21.39	21.42	21.44				
15	HQAM	36	0	21.19	21.26	21.45		22.5	3	
15	HQAM	36	20	21.20	21.45	21.25				
15	HQAM	36	39	21.35	21.31	21.30				
15	SSQAM	1	0	19.29	19.42	19.45				
15	SSQAM	1	37	19.24	19.29	19.35		20.5	5	
15	SSQAM	1	74	19.26	19.39	19.24				
15	SSQAM	36	0	19.24	19.24	19.27				
15	SSQAM	36	20	19.37	19.37	19.40		20.5	5	
15	SSQAM	36	39	19.46	19.28	19.29				
15	SSQAM	75	0	19.20	19.28	19.12				
Channel										
819 831.5 844										
10	QPSK	1	0	24.24	24.36	24.34		25.5	0	
10	QPSK	1	25	24.12	24.24	24.35				
10	QPSK	1	49	24.23	24.29	24.17				
10	QPSK	25	0	23.31	23.42	23.32				
10	QPSK	25	12	23.17	23.23	23.11		24.5	1	
10	QPSK	25	25	23.14	23.29	23.21				
10	HQAM	1	0	23.26	23.22	23.27				
10	HQAM	1	25	23.28	23.38	23.31		24.5	1	
10	HQAM	1	25	23.24	23.23	23.29				
10	HQAM	1	49	23.29	23.22	23.25				
10	HQAM	25	0	22.32	22.33	22.36				
10	HQAM	25	12	22.18	22.29	22.30		23.5	2	
10	HQAM	25	12	22.23	22.23	22.28				
10	HQAM	25	25	22.18	22.20	22.28				
10	HQAM	1	0	22.35	22.33	22.14		23.5	2	
10	HQAM	1	25	22.27	22.18	22.27				
10	HQAM	1	49	22.23	22.10	22.25				
10	HQAM	25	0	21.30	21.40	21.34		22.5	3	
10	HQAM	25	12	21.15	21.18	21.21				
10	HQAM	25	25	21.15	21.43	21.25				
10	HQAM	50	0	21.22	21.20	21.18				
10	SSQAM	1	0	19.23	19.39	19.27				
10	SSQAM	1	25	19.20	19.20	19.25		20.5	5	
10	SSQAM	1	49	19.18	19.35	19.10				
10	SSQAM	12	0	19.23	19.25	19.25				
10	SSQAM	12	12	19.25	19.29	19.26		20.5	5	
10	SSQAM	25	0	19.25	19.19	19.22				
10	SSQAM	25	0	19.29	19.16	19.12				
Channel										
827.5 831.5 846.5										
5	QPSK	1	0	24.17	24.34	24.33		25.5	0	
5	QPSK	1	12	24.20	24.32	24.35				
5	QPSK	1	24	24.17	24.30	24.12				
5	QPSK	12	0	23.28	23.38	23.31				
5	QPSK	12	7	23.13	23.22	23.30		24.5	1	
5	QPSK	12	13	23.20	23.31	23.12				
5	HQAM	1	0	23.29	23.40	23.25				
5	HQAM	1	12	23.22	23.18	23.21		24.5	1	
5	HQAM	1	24	23.19	23.22	23.25				
5	HQAM	12	0	22.31	22.28	22.29				
5	HQAM	12	7	22.15	22.25	22.22		23.5	2	
5	HQAM	12	13	22.22	22.23	22.28				
5	HQAM	25	0	22.17	22.22	22.28				
5	HQAM	1	0	22.26	22.31	22.19		23.5	2	



Appendix E

GSM850 Ant.4 DSI.4		Burst Average Power (dBm)			Frame-Average Power (dBm)			Tune-up
TX Channel		512	661	251	512	661	251	Limit
Frequency (MHz)		824.2	836.4	848.6	824.2	836.4	848.6	(dBm)
GSM 1 Tx slot		32.40	32.46	32.45	33.50	23.40	23.46	23.45
GPRS 1 Tx slot		32.40	32.41	32.38	33.50	23.40	23.41	23.38
GPRS 2 Tx slots		31.45	31.36	31.31	32.50	25.45	25.36	25.31
GPRS 3 Tx slots		29.67	29.61	29.61	31.00	25.41	25.35	25.35
GPRS 4 Tx slots		28.73	28.79	28.68	30.00	25.73	25.79	25.68
EDGE 1 Tx slot		26.86	26.93	26.89	28.00	17.86	17.93	17.89
EDGE 2 Tx slots		23.92	23.96	23.99	25.00	17.92	17.96	17.99
EDGE 3 Tx slots		22.08	22.11	22.07	23.20	17.82	17.85	17.81
EDGE 4 Tx slots		20.89	20.93	20.84	22.00	17.89	17.93	17.84

GSM1900 Ant.4 DSI.4		Burst Average Power (dBm)			Frame-Average Power (dBm)			Tune-up
TX Channel		512	661	810	512	661	810	Limit
Frequency (MHz)		1850.2	1860	1909.8	1850.2	1860	1909.8	(dBm)
GSM 1 Tx slot		26.93	27.04	29.56	28.00	17.93	18.04	17.96
GPRS 1 Tx slot		26.83	27.65	27.00	28.00	17.83	18.05	18.00
GPRS 2 Tx slots		24.17	24.10	24.18	25.00	18.17	18.10	18.18
GPRS 3 Tx slots		22.00	22.08	22.10	23.20	17.74	17.82	17.84
GPRS 4 Tx slots		20.88	20.92	20.86	22.00	17.88	17.92	17.86
EDGE 1 Tx slot		24.82	24.87	24.83	26.00	15.82	15.87	15.83
EDGE 2 Tx slots		21.81	21.82	21.79	23.00	15.81	15.92	15.79
EDGE 3 Tx slots		20.03	20.07	20.02	21.20	15.77	15.81	15.76
EDGE 4 Tx slots		18.88	18.87	18.87	20.00	15.88	15.87	15.87

Band		WCDMA 8 Ant.4 DSI.4			WCDMA 11 Ant.4 DSI.4			WCDMA 17 Ant.4 DSI.4			Tune-up
Tx Channel		9262	8400	9538	1312	1413	1513	4152	4162	4233	Limit
Frequency (MHz)		1852.4	1860	1907.8	1712.4	1732.6	1752.6	1825.4	1835.4	1865.6	(dBm)
3GPP Rel 99	AMR 12.2kbps	17.45	17.54	17.41	18.50	18.64	18.79	19.50	23.25	23.42	23.23
3GPP Rel 99	RM-C 12.2kbps	17.55	17.62	17.58	18.50	18.82	18.87	18.75	19.50	23.43	23.49
3GPP Rel 6	HSDPA Subtest-1	16.52	16.61	16.63	17.50	17.86	17.92	17.72	18.50	22.48	22.46
3GPP Rel 6	HSDPA Subtest-2	16.50	16.58	16.61	17.50	17.82	17.91	17.79	18.50	22.45	22.54
3GPP Rel 6	HSDPA Subtest-3	16.10	16.15	16.03	17.00	17.30	17.32	17.27	18.00	21.90	21.97
3GPP Rel 6	HSDPA Subtest-4	16.08	16.12	16.12	17.00	17.27	17.42	17.22	18.00	21.88	21.99
3GPP Rel 6	DCHSDPA Subtest-1	16.50	16.67	16.56	17.50	17.77	17.92	17.72	18.50	22.42	22.43
3GPP Rel 6	DCHSDPA Subtest-2	16.61	16.57	16.61	17.50	17.88	17.88	17.80	18.50	22.38	22.52
3GPP Rel 6	DCHSDPA Subtest-3	16.05	16.13	16.07	17.00	17.35	17.36	17.25	18.00	21.89	22.00
3GPP Rel 6	DCHSDPA Subtest-4	16.04	16.07	16.06	17.00	17.31	17.37	17.24	18.00	21.90	22.00
3GPP Rel 6	HSPA Subtest-1	16.50	16.64	16.63	17.50	17.83	17.84	17.70	18.50	22.44	22.55
3GPP Rel 6	HSPA Subtest-2	14.59	14.61	14.54	15.50	15.82	15.89	15.74	16.50	20.38	20.53
3GPP Rel 6	HSPA Subtest-3	15.52	15.86	15.53	16.50	16.78	16.82	16.79	17.50	21.44	21.43
3GPP Rel 6	HSPA Subtest-4	14.60	14.57	14.58	15.50	15.86	15.71	15.90	20.40	20.46	20.43
3GPP Rel 6	HSPA Subtest-5	16.59	16.67	16.61	17.50	17.84	17.82	17.72	18.50	22.39	22.44
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.01	14.08	14.04	15.00	15.30	15.36	15.29	16.00	18.91	18.96



Band 7 Ant 3 DSI 4									
Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21550			
Frequency (MHz)				2010	2035	2060			
20	QPSK	1	0	20.68	20.75	20.84	21.5	0	
20	QPSK	1	49	20.80	20.83	20.89			
20	QPSK	1	99	20.58	20.67	20.53			
20	QPSK	50	0	20.61	20.71	20.62	21.5	0	
20	QPSK	50	24	20.64	20.64	20.51			
20	QPSK	50	50	20.56	20.59	20.54			
20	QPSK	100	0	20.56	20.69	20.59	21.5	0	
20	16QAM	1	0	20.63	20.67	20.58			
20	16QAM	1	49	20.63	20.63	20.46			
20	16QAM	1	99	20.51	20.59	20.40	21.5	0	
20	16QAM	50	0	20.57	20.67	20.59			
20	16QAM	50	24	20.56	20.59	20.37			
20	16QAM	50	50	20.57	20.64	20.45	21.5	0	
20	16QAM	100	0	20.47	20.66	20.50			
20	64QAM	1	0	20.63	20.65	20.57			
20	64QAM	1	49	20.46	20.55	20.48	21.5	0	
20	64QAM	1	99	20.54	20.64	20.44			
20	64QAM	50	0	20.65	20.67	20.49			
20	64QAM	50	24	20.50	20.52	20.47	21.5	0	
20	64QAM	50	50	20.46	20.66	20.51			
20	64QAM	100	0	20.44	20.56	20.53			
20	256QAM	1	0	18.70	18.71	18.64	19.5	2	
20	256QAM	1	49	18.58	18.68	18.53			
20	256QAM	1	99	18.54	18.64	18.48			
20	256QAM	50	0	18.80	18.72	18.65	19.5	2	
20	256QAM	50	24	18.58	18.67	18.54			
20	256QAM	50	50	18.64	18.66	18.50			
20	256QAM	100	0	18.56	18.68	18.64			
Channel				20825	21100	21375			
Frequency (MHz)				20275	2055	20925			
15	QPSK	1	0	20.54	20.63	20.54	21.5	0	
15	QPSK	1	37	20.51	20.52	20.53			
15	QPSK	1	74	20.49	20.58	20.46			
15	QPSK	36	0	20.62	20.69	20.55	21.5	0	
15	QPSK	36	20	20.58	20.55	20.48			
15	QPSK	36	39	20.54	20.63	20.50			
15	QPSK	75	0	20.46	20.59	20.53	21.5	0	
15	16QAM	1	0	20.59	20.60	20.47			
15	16QAM	1	37	20.45	20.50	20.40			
15	16QAM	1	74	20.39	20.51	20.29	21.5	0	
15	16QAM	36	0	20.63	20.65	20.47			
15	16QAM	36	20	20.42	20.46	20.31			
15	16QAM	36	39	20.45	20.53	20.41	21.5	0	
15	16QAM	75	0	20.38	20.56	20.39			
15	64QAM	1	0	20.52	20.60	20.49			
15	64QAM	1	37	20.38	20.41	20.39	21.5	0	
15	64QAM	1	74	20.49	20.54	20.31			
15	64QAM	36	0	20.43	20.58	20.46			
15	64QAM	36	20	20.46	20.50	20.45	21.5	0	
15	64QAM	36	39	20.38	20.54	20.44			
15	64QAM	75	0	20.37	20.46	20.46			
15	256QAM	1	0	18.68	18.63	18.54	19.5	2	
15	256QAM	1	37	18.65	18.60	18.47			
15	256QAM	1	74	18.51	18.53	18.40			
15	256QAM	36	0	18.53	18.64	18.54	19.5	2	
15	256QAM	36	20	18.44	18.60	18.46			
15	256QAM	36	39	18.60	18.58	18.39			
15	256QAM	75	0	18.48	18.55	18.54			
Channel				20800	21100	21400			
Frequency (MHz)				20505	20535	20565			
10	QPSK	1	0	20.55	20.69	20.59	21.5	0	
10	QPSK	1	25	20.57	20.58	20.56			
10	QPSK	1	49	20.56	20.63	20.42			
10	QPSK	25	0	20.52	20.64	20.46	21.5	0	
10	QPSK	25	12	20.52	20.61	20.41			
10	QPSK	25	25	20.49	20.63	20.49			
10	QPSK	50	0	20.54	20.63	20.45	21.5	0	
10	16QAM	1	0	20.52	20.56	20.52			
10	16QAM	1	25	20.49	20.44	20.40			
10	16QAM	1	49	20.44	20.55	20.38	21.5	0	
10	16QAM	25	0	20.53	20.54	20.46			
10	16QAM	25	12	20.44	20.57	20.27			
10	16QAM	25	25	20.48	20.54	20.33	21.5	0	
10	16QAM	50	0	20.36	20.63	20.37			
10	64QAM	1	0	20.49	20.59	20.55			
10	64QAM	1	25	20.42	20.53	20.35	21.5	0	
10	64QAM	1	49	20.46	20.58	20.35			
10	64QAM	25	0	20.42	20.59	20.44			
10	64QAM	25	12	20.39	20.42	20.41	21.5	0	
10	64QAM	25	25	20.39	20.63	20.47			
10	64QAM	50	0	20.38	20.53	20.50			
10	256QAM	1	0	18.61	18.67	18.59	19.5	2	
10	256QAM	1	25	18.45	18.56	18.44			
10	256QAM	1	49	18.45	18.62	18.45			
10	256QAM	25	0	18.52	18.61	18.62	19.5	2	
10	256QAM	25	12	18.56	18.60	18.46			
10	256QAM	25	25	18.59	18.59	18.41			
10	256QAM	50	0	18.45	18.61	18.52			
Channel				20775	21100	21425			
Frequency (MHz)				20502.5	20535	20567.5			
5	QPSK	1	0	20.56	20.66	20.59	21.5	0	
5	QPSK	1	12	20.52	20.51	20.54			
5	QPSK	1	24	20.54	20.65	20.44			
5	QPSK	12	0	20.49	20.61	20.50	21.5	0	
5	QPSK	12	7	20.59	20.52	20.39			
5	QPSK	12	13	20.55	20.62	20.47			
5	QPSK	25	0	20.43	20.62	20.51	21.5	0	
5	16QAM	1	0	20.52	20.63	20.54			
5	16QAM	1	12	20.50	20.42	20.36			
5	16QAM	1	24	20.49	20.51	20.32	21.5	0	
5	16QAM	12	0	20.50	20.61	20.52			
5	16QAM	12	7	20.51	20.51	20.31			
5	16QAM	12	13	20.55	20.51	20.33	21.5	0	
5	16QAM	25	0	20.42	20.57	20.41			
5	64QAM	1	0	20.58	20.65	20.47			
5	64QAM	1	12	20.34	20.45	20.43	21.5	0	
5	64QAM	1	24	20.44	20.54	20.32			
5	64QAM	12	0	20.52	20.54	20.40			
5	64QAM	12	7	20.44	20.40	20.38	21.5	0	
5	64QAM	12	13	20.33	20.56	20.40			
5	64QAM	25	0	20.35	20.52	20.42			
5	256QAM	1	0	18.62	18.61	18.56	19.5	2	
5	256QAM	1	12	18.44	18.64	18.49			
5	256QAM	1	24	18.40	18.56	18.37			
5	256QAM	12	0	18.49	18.59	18.59	19.5	2	
5	256QAM	12	7	18.50	18.64	18.51			
5	256QAM	12	13	18.54	18.57	18.36			
5	256QAM	25	0	18.54	18.61	18.60			



Band 2 Ant 4 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.10	17.18	17.15				
20	QPSK	1	99	17.02	17.10	17.13	18	0		
20	QPSK	50	0	17.08	17.15	17.07				
20	QPSK	50	99	17.03	17.08	17.05	18	0		
20	QPSK	100	0	17.08	17.11	17.07				
20	QPSK	100	99	17.05	17.08	17.06	18	0		
20	HQAM	1	49	16.95	17.10	16.97	18	0		
20	HQAM	1	99	16.95	17.01	17.07	18	0		
20	HQAM	50	0	17.01	17.11	17.02	18	0		
20	HQAM	50	24	16.92	16.98	17.03	18	0		
20	HQAM	50	50	17.05	17.03	17.04	18	0		
20	HQAM	100	0	17.02	17.04	17.03	18	0		
20	HQAM	100	0	17.09	17.10	17.03	18	0		
20	HQAM	1	49	16.96	17.04	16.99	18	0		
20	HQAM	1	99	16.95	17.00	17.06	18	0		
20	HQAM	50	0	16.98	17.14	16.98	18	0		
20	HQAM	50	24	16.90	17.06	17.03	18	0		
20	HQAM	50	50	17.05	17.03	17.04	18	0		
20	HQAM	100	0	16.97	17.10	16.97	18	0		
20	HQAM	1	49	16.91	17.08	16.99	18	0		
20	HQAM	1	99	16.91	17.08	16.99	18	0		
20	HQAM	50	0	16.95	17.01	17.09	18	0		
20	HQAM	50	24	16.95	16.98	16.97	18	0		
20	HQAM	50	50	16.97	17.07	16.97	18	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.02	17.02	17.04				
15	QPSK	1	74	16.92	17.08	17.02	18	0		
15	QPSK	36	0	17.02	17.14	16.99				
15	QPSK	36	99	16.99	17.04	17.01	18	0		
15	QPSK	36	99	17.07	17.07	17.03	18	0		
15	HQAM	1	37	16.94	16.99	17.01	18	0		
15	HQAM	1	37	16.96	17.09	16.96	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		
15	HQAM	1	37	16.95	16.99	16.91	18	0		
15	HQAM	1	37	16.95	17.09	16.95	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		
15	HQAM	1	37	16.95	16.99	16.91	18	0		
15	HQAM	1	37	16.95	17.09	16.95	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		
15	HQAM	1	37	16.95	16.99	16.91	18	0		
15	HQAM	1	37	16.95	17.09	16.95	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		
15	HQAM	1	37	16.95	16.99	16.91	18	0		
15	HQAM	1	37	16.95	17.09	16.95	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		
15	HQAM	1	37	16.95	16.99	16.91	18	0		
15	HQAM	1	37	16.95	17.09	16.95	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		
15	HQAM	1	37	16.95	16.99	16.91	18	0		
15	HQAM	1	37	16.95	17.09	16.95	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		
15	HQAM	1	37	16.95	16.99	16.91	18	0		
15	HQAM	1	37	16.95	17.09	16.95	18	0		
15	HQAM	36	0	16.98	17.10	16.97	18	0		
15	HQAM	36	20	16.87	16.95	17.02	18	0		
15	HQAM	36	20	16.96	16.99	16.98	18	0		
15	HQAM	75	0	16.99	16.94	17.01	18	0		
15	HQAM	1	0	17.09	17.10	16.95	18	0		
15	HQAM	1	49	16.93	16.99	16.94	18	0		
15	HQAM	1	99	16.92	17.00	16.97	18	0		
15	HQAM	36	0	16.95	16.98	16.96	18	0		
15	HQAM	36	20	16.95	16.98	16.95	18	0		
15	HQAM	75	0	16.95	16.98	16.95	18	0		



Band 7 Ant 4 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.93	16.99	16.90		18.5	0	
20	QPSK	1	99	16.83	16.92	16.78				
20	QPSK	50	0	16.88	16.97	16.86				
20	QPSK	50	99	16.83	16.92	16.80		18.5	0	
20	QPSK	100	0	16.82	16.91	16.84				
20	HQAM	1	0	16.79	16.88	16.80				
20	HQAM	1	49	16.75	16.87	16.81		18.5	0	
20	HQAM	1	99	16.80	16.89	16.89				
20	HQAM	50	0	16.77	16.92	16.78				
20	HQAM	50	24	16.75	16.85	16.72		18.5	0	
20	HQAM	50	50	16.74	16.80	16.74				
20	HQAM	100	0	16.71	16.83	16.79				
20	HQAM	1	0	16.81	16.89	16.78				
20	HQAM	1	49	16.76	16.91	16.76		18.5	0	
20	HQAM	1	99	16.77	16.85	16.82				
20	HQAM	50	0	16.77	16.82	16.89				
20	HQAM	50	24	16.75	16.85	16.74		18.5	0	
20	HQAM	50	50	16.77	16.78	16.80				
20	HQAM	1	0	16.79	16.85	16.84				
20	HQAM	1	49	16.71	16.84	16.74		18.5	0	
20	HQAM	1	99	16.74	16.86	16.85				
20	HQAM	50	0	16.84	16.93	16.82				
20	HQAM	50	24	16.73	16.80	16.74		18.5	0	
20	HQAM	50	50	16.71	16.88	16.68				
20	HQAM	1	0	16.82	16.90	16.80				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.91	16.95	16.86		18.5	0	
15	QPSK	1	99	16.79	16.83	16.81				
15	QPSK	36	0	16.80	16.85	16.81				
15	QPSK	36	99	16.79	16.80	16.79		18.5	0	
15	QPSK	36	99	16.77	16.82	16.87				
15	HQAM	1	0	16.79	16.86	16.79				
15	HQAM	1	0	16.87	16.78	16.78		18.5	0	
15	HQAM	36	0	16.74	16.85	16.84				
15	HQAM	36	20	16.74	16.82	16.83		18.5	0	
15	HQAM	36	99	16.82	16.81	16.71				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.76	16.70		18.5	0	
15	HQAM	36	0	16.84	16.89	16.84				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.85	16.73	16.70				
15	HQAM	36	99	16.84	16.89	16.78				
15	HQAM	75	0	16.79	16.85	16.84				
15	HQAM	1	0	16.79	16.86	16.79		18.5	0	
15	HQAM	1	74	16.85	16.72	16.82				
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74	16.88	16.70				
15	HQAM	1	0	16.77	16.80	16.84				
15	HQAM	1	74	16.85	16.72	16.82		18.5	0	
15	HQAM	36	0	16.84	16.89	16.78				
15	HQAM	36	99	16.82	16.75	16.89				
15	HQAM	75	0	16.74						



Band 17 Ant 4 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.40	24.46	24.52		25.5	0	
10	QPSK	1	24	24.36	24.42	24.48				
10	QPSK	1	48	24.32	24.38	24.44				
10	QPSK	25	0	23.37	23.49	23.50		24.5	1	
10	QPSK	25	12	23.30	23.48	23.51				
10	QPSK	25	24	23.29	23.46	23.57				
10	QPSK	50	0	23.26	23.44	23.52				
10	HQAM	1	0	23.37	23.52	23.58		24.5	1	
10	HQAM	1	24	23.40	23.45	23.51				
10	HQAM	1	48	23.37	23.47	23.57				
10	HQAM	1	72	23.42	23.46	23.50				
10	HQAM	25	12	22.35	22.46	22.49		23.5	2	
10	HQAM	25	24	22.41	22.48	22.54				
10	HQAM	50	0	22.34	22.41	22.57				
10	HQAM	1	0	22.44	22.47	22.57		23.5	2	
10	HQAM	1	24	22.46	22.49	22.54				
10	HQAM	1	48	22.46	22.49	22.54				
10	HQAM	1	72	22.46	22.49	22.54				
10	HQAM	25	12	21.36	21.53	21.58		22.5	3	
10	HQAM	25	24	21.36	21.48	21.51				
10	HQAM	50	0	21.36	21.47	21.58				
10	SSQAM	1	0	19.40	19.46	19.50		20.5	5	
10	SSQAM	1	24	19.34	19.45	19.55				
10	SSQAM	1	48	19.39	19.47	19.56				
10	SSQAM	25	12	19.43	19.45	19.54		20.5	5	
10	SSQAM	25	24	19.43	19.45	19.54				
10	SSQAM	50	0	19.37	19.44	19.55				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.32	24.46	24.46		25.5	0	
5	QPSK	1	12	24.30	24.39	24.37				
5	QPSK	1	24	24.35	24.42	24.31				
5	QPSK	12	0	23.33	23.40	23.31		24.5	1	
5	QPSK	12	7	23.32	23.48	23.57				
5	QPSK	25	0	23.24	23.35	23.31				
5	HQAM	1	0	23.33	23.45	23.51		24.5	1	
5	HQAM	1	12	23.28	23.38	23.53				
5	HQAM	12	7	22.27	22.41	23.52		23.5	2	
5	HQAM	25	0	22.34	22.46	22.59				
5	HQAM	25	12	22.34	22.41	22.51				
5	HQAM	50	0	22.43	22.38	22.17		23.5	2	
5	HQAM	1	0	22.29	22.40	22.57				
5	HQAM	12	0	21.22	21.37	21.53		22.5	3	
5	HQAM	12	7	21.33	21.43	21.58				
5	HQAM	25	0	21.34	21.36	21.54				
5	SSQAM	1	0	19.29	19.40	19.51		20.5	5	
5	SSQAM	1	12	19.25	19.34	19.53				
5	SSQAM	1	24	19.35	19.37	19.56				
5	SSQAM	12	7	19.35	19.36	19.51		20.5	5	
5	SSQAM	12	13	19.28	19.35	19.57				
5	SSQAM	25	0	19.25	19.38	19.54				

Band 26 Ant 4 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.42	24.55	24.47		25.5	0	
15	QPSK	1	37	24.38	24.53	24.50				
15	QPSK	1	74	24.36	24.51	24.45				
15	QPSK	36	0	23.45	23.48	23.46		24.5	1	
15	QPSK	36	20	23.38	23.45	23.43				
15	QPSK	36	39	23.36	23.45	23.43				
15	QPSK	75	0	23.34	23.47	23.45				
15	HQAM	1	0	22.44	22.56	22.53		23.5	1	
15	HQAM	1	37	22.39	22.49	22.41				
15	HQAM	1	74	22.39	22.52	22.46				
15	HQAM	36	0	22.40	22.53	22.50		23.5	2	
15	HQAM	36	20	22.32	22.49	22.39				
15	HQAM	36	39	22.32	22.43	22.26				
15	HQAM	75	0	22.33	22.46	22.46				
15	HQAM	1	0	22.48	22.51	22.49		23.5	2	
15	HQAM	1	37	22.54	22.51	22.47				
15	HQAM	1	74	22.50	22.49	22.47				
15	SSQAM	1	0	19.46	19.57	19.46		22.5	3	
15	SSQAM	1	37	19.38	19.53	19.49				
15	SSQAM	1	74	19.34	19.55	19.44				
15	SSQAM	36	0	19.47	19.54	19.50		20.5	5	
15	SSQAM	36	20	19.44	19.56	19.49				
15	SSQAM	36	39	19.43	19.52	19.45				
15	SSQAM	75	0	19.34	19.45	19.51				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.40	24.53	24.35		25.5	0	
10	QPSK	1	25	24.29	24.50	24.36				
10	QPSK	1	49	24.35	24.46	24.39				
10	QPSK	25	0	23.43	23.43	23.36		24.5	1	
10	QPSK	25	12	23.44	23.42	23.32				
10	QPSK	25	24	23.29	23.43	23.31				
10	HQAM	1	0	23.52	23.44	23.33		24.5	1	
10	HQAM	1	24	23.38	23.49	23.47				
10	HQAM	1	25	23.38	23.46	23.31				
10	HQAM	1	49	23.46	23.46	23.33				
10	HQAM	25	12	22.34	22.49	22.37		23.5	2	
10	HQAM	25	13	22.28	22.45	22.35				
10	HQAM	25	15	22.38	22.49	22.35				
10	HQAM	50	0	22.52	22.42	22.45		23.5	2	
10	HQAM	1	0	22.48	22.48	22.38				
10	HQAM	1	25	22.38	22.50	22.45				
10	HQAM	1	49	22.35	22.45	22.45				
10	HQAM	25	0	21.37	21.47	21.43		22.5	3	
10	HQAM	25	12	21.38	21.56	21.45				
10	HQAM	25	24	21.29	21.38	21.44				
10	HQAM	50	0	21.52	21.43	21.36				
10	SSQAM	1	0	19.45	19.54	19.43		20.5	5	
10	SSQAM	1	25	19.27	19.49	19.45				
10	SSQAM	1	49	19.33	19.52	19.42				
10	SSQAM	12	7	19.38	19.46	19.51		20.5	5	
10	SSQAM	25	12	19.35	19.50	19.44				
10	SSQAM	25	12	19.35	19.51	19.41				
10	SSQAM	50	0	19.34	19.45	19.53				

Band 66 Ant 4 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.10	18.17	18.14		19	0	
20	QPSK	1	48	18.01	18.12	18.07				
20	QPSK	1	96	18.01	18.11	18.05				
20	QPSK	50	0	18.01	18.12	18.03				
20	QPSK	50	24	17.95	18.06	18.03				
20	QPSK	50	50	18.06	18.03	18.04				
20	QPSK	100	0	18.00	18.11	18.11				
20	HQAM	1	0	18.08	18.10	18.05		19	0	
20	HQAM	1	48	17.95	18.07	18.05				
20	HQAM	1	96	17.99	18.08	17.93				
20	HQAM	50	0	17.95	18.02	17.98				
20	HQAM	50	24	17.83	18.02	17.94				
20	HQAM	50	50	18.00	17.91	18.00				
20	HQAM	100	0	17.95	18.05	18.05				
20	HQAM	1	0	18.03	18.08	18.07				
20	HQAM	1	48	17.90	18.04	18.04				
20	HQAM	1	96	17.94	18.08	17.98				
20	HQAM	50	0	17.95	18.07	17.97				
20	HQAM	50	24	17.92	18.01	17.91				
20	HQAM	50	48	17.96	17.95	17.91				
20	SSQAM	1	0	17.93	18.07	18.02		19	0	
20	SSQAM	1	48	17.88	18.07	17.92				
20	SSQAM	1	96	17.96	18.06					



Band 38 Ant 1 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.53	19.54	19.43	20.5	0		
20	QPSK	1	49	19.43	19.44	19.34				
20	QPSK	1	99	19.45	19.51	19.35	20.5	0		
20	QPSK	50	0	19.42	19.51	19.33				
20	QPSK	50	24	19.48	19.41	19.41	20.5	0		
20	QPSK	50	50	19.45	19.44	19.39				
20	QPSK	100	0	19.42	19.47	19.37	20.5	0		
20	16QAM	1	0	19.43	19.41	19.40				
20	16QAM	1	49	19.34	19.37	19.23	20.5	0		
20	16QAM	1	99	19.31	19.41	19.30				
20	16QAM	50	0	19.32	19.47	19.25	20.5	0		
20	16QAM	50	24	19.36	19.32	19.30				
20	16QAM	50	50	19.35	19.32	19.31	20.5	0		
20	16QAM	100	0	19.34	19.38	19.28				
20	64QAM	1	0	19.40	19.44	19.31	20.5	0		
20	64QAM	1	49	19.37	19.33	19.22				
20	64QAM	1	99	19.38	19.37	19.28	20.5	0		
20	64QAM	50	0	19.39	19.41	19.24				
20	64QAM	50	24	19.38	19.35	19.36	20.5	0		
20	64QAM	50	50	19.34	19.38	19.28				
20	64QAM	100	0	19.38	19.36	19.33	19.5	1		
20	256QAM	1	0	18.54	18.51	18.47				
20	256QAM	1	49	18.45	18.40	18.31	19.5	1		
20	256QAM	1	99	18.41	18.53	18.32				
20	256QAM	50	0	19.39	18.54	18.35	19.5	1		
20	256QAM	50	24	18.49	18.46	18.43				
20	256QAM	50	50	18.42	18.47	18.43	19.5	1		
20	256QAM	100	0	18.44	18.51	18.32				
Channel				37825	38000	38175				
Frequency (MHz)				25775	2592	2612				
15	QPSK	1	0	19.45	19.45	19.38	20.5	0		
15	QPSK	1	37	19.36	19.41	19.23				
15	QPSK	1	74	19.35	19.39	19.27	20.5	0		
15	QPSK	36	0	19.39	19.39	19.31				
15	QPSK	36	20	19.45	19.29	19.33	20.5	0		
15	QPSK	36	39	19.38	19.38	19.36				
15	QPSK	75	0	19.33	19.39	19.24	20.5	0		
15	16QAM	1	0	19.30	19.33	19.33				
15	16QAM	1	37	19.24	19.25	19.12	20.5	0		
15	16QAM	1	74	19.24	19.30	19.27				
15	16QAM	36	0	19.23	19.37	19.21	20.5	0		
15	16QAM	36	20	19.24	19.26	19.26				
15	16QAM	36	39	19.24	19.23	19.29	20.5	0		
15	16QAM	75	0	19.28	19.42	19.26				
15	64QAM	1	0	19.32	19.41	19.21	20.5	0		
15	64QAM	1	37	19.25	19.26	19.19				
15	64QAM	1	74	19.26	19.31	19.15	20.5	0		
15	64QAM	36	0	19.36	19.33	19.19				
15	64QAM	36	20	19.28	19.32	19.23	20.5	0		
15	64QAM	36	39	19.27	19.32	19.22				
15	64QAM	75	0	19.28	19.32	19.21	19.5	1		
15	256QAM	1	0	18.47	18.45	18.45				
15	256QAM	1	37	18.47	18.35	18.28	19.5	1		
15	256QAM	1	74	18.35	18.48	18.18				
15	256QAM	36	0	18.30	18.47	18.25	19.5	1		
15	256QAM	36	20	18.45	18.35	18.37				
15	256QAM	36	39	18.35	18.36	18.35	19.5	1		
15	256QAM	75	0	18.33	18.45	18.19				
Channel				37900	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.43	19.50	19.40	20.5	0		
10	QPSK	1	25	19.31	19.32	19.28				
10	QPSK	1	49	19.36	19.45	19.22	20.5	0		
10	QPSK	25	0	19.28	19.39	19.24				
10	QPSK	25	12	19.40	19.37	19.28	20.5	0		
10	QPSK	25	25	19.41	19.41	19.28				
10	QPSK	50	0	19.32	19.38	19.31	20.5	0		
10	16QAM	1	0	19.32	19.41	19.34				
10	16QAM	1	49	19.26	19.34	19.16	20.5	0		
10	16QAM	25	0	19.23	19.34	19.12				
10	16QAM	25	12	19.31	19.19	19.25	20.5	0		
10	16QAM	25	25	19.24	19.18	19.24				
10	16QAM	50	0	19.35	19.32	19.27	20.5	0		
10	64QAM	1	0	19.30	19.36	19.20				
10	64QAM	1	25	19.27	19.29	19.09	20.5	0		
10	64QAM	1	49	19.30	19.35	19.22				
10	64QAM	25	0	19.28	19.28	19.14	20.5	0		
10	64QAM	25	12	19.26	19.27	19.26				
10	64QAM	25	25	19.30	19.35	19.20	20.5	0		
10	64QAM	50	0	19.32	19.25	19.30				
10	256QAM	1	0	18.50	18.48	18.37	19.5	1		
10	256QAM	1	25	18.43	18.37	18.25				
10	256QAM	1	49	18.30	18.47	18.27	19.5	1		
10	256QAM	25	0	18.32	18.43	18.26				
10	256QAM	25	12	18.37	18.36	18.38	19.5	1		
10	256QAM	25	25	18.37	18.36	18.32				
10	256QAM	50	0	18.38	18.37	18.23	19.5	1		
10	256QAM	100	0	18.38	18.48	18.27				
Channel				37775	38000	38225				
Frequency (MHz)				25725	2595	2617.5				
5	QPSK	1	0	19.44	19.51	19.40	20.5	0		
5	QPSK	1	12	19.39	19.38	19.28				
5	QPSK	1	24	19.43	19.43	19.28	20.5	0		
5	QPSK	12	0	19.33	19.47	19.19				
5	QPSK	12	7	19.42	19.37	19.27	20.5	0		
5	QPSK	12	13	19.36	19.40	19.35				
5	QPSK	25	0	19.33	19.41	19.25	20.5	0		
5	16QAM	1	0	19.39	19.40	19.37				
5	16QAM	1	12	19.23	19.34	19.19	20.5	0		
5	16QAM	1	24	19.21	19.32	19.19				
5	16QAM	12	0	19.22	19.36	19.17	20.5	0		
5	16QAM	12	7	19.33	19.20	19.18				
5	16QAM	12	13	19.25	19.23	19.17	20.5	0		
5	16QAM	25	0	19.34	19.39	19.26				
5	64QAM	1	0	19.27	19.30	19.29	20.5	0		
5	64QAM	1	12	19.26	19.29	19.20				
5	64QAM	1	24	19.24	19.30	19.19	20.5	0		
5	64QAM	12	0	19.28	19.31	19.14				
5	64QAM	12	7	19.35	19.27	19.30	20.5	0		
5	64QAM	12	13	19.22	19.27	19.18				
5	64QAM	25	0	19.30	19.25	19.24	20.5	0		
5	256QAM	1	0	18.47	18.48	18.45				
5	256QAM	1	12	18.34	18.38	18.21	19.5	1		
5	256QAM	1	24	18.29	18.50	18.22				
5	256QAM	12	0	18.35	18.43	18.29	19.5	1		
5	256QAM	12	7	18.38	18.37	18.33				
5	256QAM	12	13	18.38	18.34	18.33	19.5	1		
5	256QAM	25	0	18.40	18.48	18.27				

Band 41 Ant 1 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq	Power Low Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Middle Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.55	20.51	20.64	20.60	20.52	21.5	0
20	QPSK	1	49	20.42	20.47	20.57	20.48	20.44		
20	QPSK	1	99	20.47	20.37	20.51	20.33	20.43	21.5	0
20	QPSK	50	0	20.46	20.44	20.59	20.50	20.45		
20	QPSK	50	24	20.43	20.45	20.54	20.54	20.48	21.5	0
20	QPSK	50	50	20.50	20.49	20.56	20.53	20.46		
20	QPSK	100	0	20.51	20.40	20.52	20.52	20.39	21.5	0



Band 42 Part 27Q Ant 2 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.06	19.15	19.09			
20	QPSK	1	49	18.98	19.10	18.99	20	0	
20	QPSK	1	99	18.96	19.06	19.02			
20	QPSK	50	0	18.05	18.18	18.04			
20	QPSK	50	24	17.97	18.09	18.00			
20	QPSK	50	50	17.95	18.10	18.07	19	1	
20	QPSK	100	0	18.11	18.15	18.14			
20	16QAM	1	0	18.11	18.14	18.05			
20	16QAM	1	49	18.03	18.16	18.04	19	1	
20	16QAM	1	99	17.96	18.03	18.01			
20	16QAM	50	0	17.07	17.16	17.09			
20	16QAM	50	24	17.01	17.06	17.01	18	2	
20	16QAM	50	50	16.97	17.05	17.13			
20	16QAM	100	0	17.09	17.20	17.13			
20	64QAM	1	0	17.07	17.18	17.00			
20	64QAM	1	49	17.06	17.22	17.08	18	2	
20	64QAM	1	99	17.01	17.02	17.03			
20	64QAM	50	0	16.02	16.16	15.98			
20	64QAM	50	24	16.03	16.12	16.02	17	3	
20	64QAM	50	50	15.92	16.12	16.12			
20	64QAM	100	0	16.11	16.16	16.15			
20	256QAM	1	0	14.07	14.14	14.04			
20	256QAM	1	49	13.92	14.08	13.99	15	5	
20	256QAM	1	99	13.93	14.12	14.01			
20	256QAM	50	0	14.06	14.17	14.16			
20	256QAM	50	24	14.06	14.18	14.03	15	5	
20	256QAM	50	50	14.02	14.20	14.02			
20	256QAM	100	0	13.92	14.05	14.01			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423.5	3500	3576.5			
15	QPSK	1	0	19.02	19.04	19.04	20	0	
15	QPSK	1	37	18.96	18.99	18.89			
15	QPSK	1	74	18.92	19.01	18.90			
15	QPSK	36	0	17.91	18.09	18.01			
15	QPSK	36	20	17.84	18.04	17.98	19	1	
15	QPSK	36	39	17.90	18.08	17.95			
15	QPSK	75	0	16.07	16.09	16.08			
15	16QAM	1	0	18.07	18.12	18.01			
15	16QAM	1	37	18.00	18.02	17.94	19	1	
15	16QAM	1	74	17.84	17.97	17.87			
15	16QAM	36	0	17.04	17.11	16.95			
15	16QAM	36	20	16.90	16.92	16.95	18	2	
15	16QAM	36	39	16.89	17.03	17.04			
15	16QAM	75	0	17.06	17.11	17.10			
15	64QAM	1	0	17.01	17.10	16.93			
15	64QAM	1	37	16.99	17.09	17.03	18	2	
15	64QAM	1	74	16.89	16.98	16.92			
15	64QAM	36	0	15.99	16.10	15.93			
15	64QAM	36	20	15.92	16.08	15.91	17	3	
15	64QAM	36	39	15.83	16.05	16.00			
15	64QAM	75	0	14.02	14.07	13.91			
15	256QAM	1	0	13.76	14.02	13.96	15	5	
15	256QAM	1	37	13.78	14.02	13.96			
15	256QAM	1	74	13.83	14.07	13.89			
15	256QAM	36	0	14.04	14.11	14.11			
15	256QAM	36	20	14.00	14.04	13.94	15	5	
15	256QAM	36	39	13.90	14.10	13.93			
15	256QAM	75	0	13.93	13.95	13.94			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.98	19.02	19.06	20	0	
10	QPSK	1	25	18.93	18.96	18.96			
10	QPSK	1	49	18.90	18.96	18.93			
10	QPSK	25	0	17.96	18.05	17.92			
10	QPSK	25	12	17.88	18.05	17.96	19	1	
10	QPSK	25	25	17.88	18.06	17.97			
10	QPSK	50	0	18.02	18.05	18.12			
10	16QAM	1	0	18.00	18.05	17.97			
10	16QAM	1	25	17.97	18.03	17.98	19	1	
10	16QAM	1	49	17.91	17.92	17.91			
10	16QAM	25	0	17.00	17.10	16.99			
10	16QAM	25	12	16.90	17.00	16.89	18	2	
10	16QAM	25	25	16.91	16.96	17.06			
10	16QAM	50	0	17.07	17.10	17.08			
10	64QAM	1	0	17.02	17.15	16.91	18	2	
10	64QAM	1	25	17.03	17.15	16.99			
10	64QAM	1	49	16.91	16.91	16.95			
10	64QAM	25	0	15.99	16.10	15.90			
10	64QAM	25	12	15.96	16.09	15.97	17	3	
10	64QAM	25	25	15.85	16.06	15.99			
10	64QAM	50	0	16.02	16.10	16.01			
10	256QAM	1	0	13.99	14.11	13.92	15	5	
10	256QAM	1	25	13.86	13.95	13.89			
10	256QAM	1	49	13.87	14.04	13.87			
10	256QAM	25	0	13.97	14.14	14.03			
10	256QAM	25	12	13.98	14.07	13.95	15	5	
10	256QAM	25	25	13.96	14.15	13.90			
10	256QAM	50	0	13.85	13.94	13.88			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423.5	3500	3576.5			
5	QPSK	1	0	19.00	19.05	18.98	20	0	
5	QPSK	1	12	18.93	19.01	18.96			
5	QPSK	1	24	18.86	18.99	18.96			
5	QPSK	12	0	17.94	18.13	17.98			
5	QPSK	12	7	17.88	18.02	17.88	19	1	
5	QPSK	12	13	17.86	18.00	17.95			
5	QPSK	25	0	18.01	18.12	18.08			
5	16QAM	1	0	18.06	18.10	17.94			
5	16QAM	1	12	17.89	18.11	18.01	19	1	
5	16QAM	1	24	17.87	17.97	17.95			
5	16QAM	12	0	17.03	17.03	16.99			
5	16QAM	12	7	16.97	17.03	16.90	18	2	
5	16QAM	12	13	16.88	17.00	17.04			
5	16QAM	25	0	17.00	17.12	17.07			
5	64QAM	1	0	16.96	17.10	16.91			
5	64QAM	1	12	16.96	17.16	17.02	18	2	
5	64QAM	1	24	16.92	16.92	16.95			
5	64QAM	12	0	15.99	16.11	15.91			
5	64QAM	12	7	15.90	16.05	15.95	17	3	
5	64QAM	12	13	15.88	16.05	16.00			
5	64QAM	25	0	15.97	16.06	16.01			
5	256QAM	1	0	14.02	14.06	13.90	15	5	
5	256QAM	1	12	13.79	14.04	13.89			
5	256QAM	1	24	13.86	14.09	13.88			
5	256QAM	12	0	13.92	14.08	14.05			
5	256QAM	12	7	13.99	14.14	13.98	15	5	
5	256QAM	12	13	13.97	14.13	13.97			
5	256QAM	25	0	13.85	13.94	13.97			

Band 48 Ant 2 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3569	3641	3690		
20	QPSK	1	0	19.03	19.12	19.01	19.10		
20	QPSK	1	49	19.01	19.06	18.94	19.00	20	0
20	QPSK	1	99	19.01	19.11	18.93	19.00		
20	QPSK	50	0	18.08	18.13	17.99	18.00		
20	QPSK	50	24	18.05	18.04	18.00	17.99	19	1
20	QPSK	50	50	18.01	18.11	17.87	18.04		
20	QPSK	100	0	18.02	18.14	17.92	18.01		
20	16QAM	1	0	18.02	18.11	17.97	18.06		
20	16QAM	1	49	17.95	18.03	17.91	18.04	19	1
20	16QAM	1	99	17.97	18.05	17.90	18.05		
20	16QAM	50	0	17.07	17.16	17.05	17.05		
20	16QAM	50	24	17.00	17.03	17.03	16.93	18	2
20	16QAM	50	50						



Band 38 Ant 3 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	20.47	20.49	20.43				
20	QPSK	1	49	20.45	20.39	20.37	21.5	0		
20	QPSK	1	99	20.38	20.37	20.29				
20	QPSK	50	0	20.40	20.47	20.41				
20	QPSK	50	24	20.38	20.38	20.38	21.5	0		
20	QPSK	50	50	20.42	20.44	20.33				
20	QPSK	100	0	20.34	20.41	20.37				
20	16QAM	1	0	20.40	20.38	20.31				
20	16QAM	1	49	20.35	20.27	20.20	21.5	0		
20	16QAM	1	99	20.35	20.27	20.21				
20	16QAM	50	0	20.27	20.33	20.35				
20	16QAM	50	24	20.31	20.33	20.34	21.5	0		
20	16QAM	50	50	20.38	20.37	20.27				
20	16QAM	100	0	20.26	20.37	20.29				
20	64QAM	1	0	20.41	20.40	20.34				
20	64QAM	1	49	20.39	20.28	20.25	21.5	0		
20	64QAM	1	99	20.28	20.33	20.23				
20	64QAM	50	0	20.26	20.39	20.39				
20	64QAM	50	24	20.34	20.33	20.32	21.5	0		
20	64QAM	50	50	20.38	20.36	20.21				
20	64QAM	100	0	20.29	20.31	20.31				
20	256QAM	1	0	18.47	18.47	18.39				
20	256QAM	1	49	18.45	18.35	18.32	19.5	2		
20	256QAM	1	99	18.33	18.37	18.34				
20	256QAM	50	0	18.44	18.48	18.37				
20	256QAM	50	24	18.44	18.34	18.38	19.5	2		
20	256QAM	50	50	18.46	18.42	18.36				
20	256QAM	100	0	18.36	18.38	18.32				
Channel				37825	38000	38175				
Frequency (MHz)				2572.5	2585	2612.5				
15	QPSK	1	0	20.41	20.37	20.40	21.5	0		
15	QPSK	1	37	20.32	20.29	20.31				
15	QPSK	1	74	20.27	20.27	20.21				
15	QPSK	36	0	20.29	20.41	20.31				
15	QPSK	36	20	20.35	20.24	20.29	21.5	0		
15	QPSK	36	39	20.39	20.39	20.31				
15	QPSK	75	0	20.26	20.30	20.29				
15	16QAM	1	0	20.34	20.28	20.29				
15	16QAM	1	37	20.31	20.14	20.21	21.5	0		
15	16QAM	1	74	20.33	20.19	20.19				
15	16QAM	36	0	20.23	20.27	20.26				
15	16QAM	36	20	20.27	20.20	20.22	21.5	0		
15	16QAM	36	39	20.33	20.25	20.17				
15	16QAM	75	0	20.18	20.27	20.16				
15	64QAM	1	0	20.32	20.34	20.23				
15	64QAM	1	37	20.36	20.16	20.12	21.5	0		
15	64QAM	1	74	20.31	20.28	20.16				
15	64QAM	36	0	20.15	20.28	20.30				
15	64QAM	36	20	20.22	20.29	20.25	21.5	0		
15	64QAM	36	39	20.23	20.34	20.18				
15	64QAM	75	0	20.26	20.28	20.22				
15	256QAM	1	0	18.42	18.38	18.29				
15	256QAM	1	37	18.42	18.31	18.25	19.5	2		
15	256QAM	1	74	18.27	18.34	18.26				
15	256QAM	36	0	18.32	18.44	18.33				
15	256QAM	36	20	18.32	18.20	18.31	19.5	2		
15	256QAM	36	39	18.43	18.37	18.32				
15	256QAM	75	0	18.24	18.38	18.27				
Channel				37860	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.41	20.37	20.34	21.5	0		
10	QPSK	1	25	20.36	20.25	20.32				
10	QPSK	1	49	20.25	20.28	20.17				
10	QPSK	25	0	20.38	20.40	20.28				
10	QPSK	25	12	20.29	20.30	20.27	21.5	0		
10	QPSK	25	25	20.38	20.38	20.28				
10	QPSK	50	0	20.23	20.35	20.23				
10	16QAM	1	0	20.28	20.31	20.20				
10	16QAM	1	25	20.25	20.19	20.21	21.5	0		
10	16QAM	1	49	20.31	20.24	20.14				
10	16QAM	25	0	20.13	20.31	20.26				
10	16QAM	25	12	20.24	20.19	20.31	21.5	0		
10	16QAM	25	25	20.27	20.32	20.15				
10	16QAM	50	0	20.22	20.24	20.27				
10	64QAM	1	0	20.35	20.36	20.29				
10	64QAM	1	25	20.36	20.17	20.19	21.5	0		
10	64QAM	1	49	20.22	20.27	20.11				
10	64QAM	25	0	20.22	20.34	20.30				
10	64QAM	25	12	20.30	20.28	20.18	21.5	0		
10	64QAM	25	25	20.18	20.26	20.12				
10	64QAM	50	0	20.16	20.21	20.26				
10	256QAM	1	0	18.44	18.39	18.28				
10	256QAM	1	25	18.41	18.28	18.29	19.5	2		
10	256QAM	1	49	18.26	18.24	18.31				
10	256QAM	25	0	18.42	18.36	18.29				
10	256QAM	25	12	18.40	18.31	18.30	19.5	2		
10	256QAM	25	25	18.42	18.30	18.30				
10	256QAM	50	0	18.26	18.33	18.21				
Channel				37775	38000	38225				
Frequency (MHz)				2372.5	2385	2417.5				
5	QPSK	1	0	20.37	20.39	20.33	21.5	0		
5	QPSK	1	12	20.37	20.34	20.28				
5	QPSK	1	24	20.36	20.29	20.18				
5	QPSK	12	0	20.28	20.36	20.35				
5	QPSK	12	7	20.29	20.24	20.27	21.5	0		
5	QPSK	12	13	20.30	20.38	20.21				
5	QPSK	25	0	20.26	20.31	20.25				
5	16QAM	1	0	20.26	20.33	20.23				
5	16QAM	1	12	20.29	20.21	20.25	21.5	0		
5	16QAM	1	24	20.29	20.14	20.12				
5	16QAM	12	0	20.22	20.30	20.26				
5	16QAM	12	7	20.22	20.25	20.29	21.5	0		
5	16QAM	12	13	20.29	20.28	20.23				
5	16QAM	25	0	20.21	20.32	20.24				
5	64QAM	1	0	20.38	20.34	20.28				
5	64QAM	1	12	20.34	20.18	20.14	21.5	0		
5	64QAM	1	24	20.25	20.24	20.10				
5	64QAM	12	0	20.22	20.33	20.30				
5	64QAM	12	7	20.30	20.23	20.25	21.5	0		
5	64QAM	12	13	20.24	20.33	20.11				
5	64QAM	25	0	20.26	20.28	20.21				
5	256QAM	1	0	18.40	18.44	18.34				
5	256QAM	1	12	18.41	18.33	18.26	19.5	2		
5	256QAM	1	24	18.25	18.35	18.29				
5	256QAM	12	0	18.40	18.43	18.33				
5	256QAM	12	7	18.39	18.25	18.29	19.5	2		
5	256QAM	12	13	18.35	18.28	18.28				
5	256QAM	25	0	18.25	18.35	18.24				

Band 41 Ant 3 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2505	2548.5	2593	2636.5	2680		
20	QPSK	1	0	20.54	20.45	20.58	20.51	20.52		
20	QPSK	1	49	20.49	20.39	20.55	20.42	20.48	21.5	0
20	QPSK	1	99	20.40	20.34	20.44	20.41	20.39		
20	QPSK	50	0	20.49	20.40	20.55	20.42	20.47		
20	QPSK	50	24	20.49	20.41	20.46	20.49	20.43	21.5	



Band 42 Part 27Q Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.46	20.47	20.22	21.5	0	
20	QPSK	1	49	20.42	20.41	20.19			
20	QPSK	1	99	20.42	20.45	20.19			
20	QPSK	50	0	19.47	19.47	19.21	20.5	1	
20	QPSK	50	24	19.44	19.42	19.23			
20	QPSK	50	50	19.46	19.42	19.20			
20	QPSK	100	0	19.37	19.41	19.16			
20	16QAM	1	0	19.41	19.41	19.19	20.5	1	
20	16QAM	1	49	19.46	19.47	19.19			
20	16QAM	1	99	19.46	19.50	19.23			
20	16QAM	50	0	18.51	18.45	18.26	19.5	2	
20	16QAM	50	24	18.41	18.43	18.25			
20	16QAM	50	50	18.46	18.44	18.24			
20	16QAM	100	0	18.38	18.36	18.19			
20	64QAM	1	0	18.38	18.43	18.08	19.5	2	
20	64QAM	1	49	18.32	18.35	18.13			
20	64QAM	1	99	18.37	18.35	18.08			
20	64QAM	50	0	17.35	17.41	17.16			
20	64QAM	50	24	17.29	17.30	17.12	18.5	3	
20	64QAM	50	50	17.35	17.34	17.16			
20	64QAM	100	0	17.22	17.38	17.03			
20	256QAM	1	0	15.40	15.43	15.27	16.5	5	
20	256QAM	1	49	15.37	15.42	15.24			
20	256QAM	1	99	15.39	15.42	15.23			
20	256QAM	50	0	15.37	15.39	15.05	16.5	5	
20	256QAM	50	24	15.37	15.33	15.16			
20	256QAM	50	50	15.40	15.30	15.16			
20	256QAM	100	0	15.27	15.32	15.08			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3427.5	3472.5	3517.5			
15	QPSK	1	0	20.46	20.46	20.18	21.5	0	
15	QPSK	1	37	20.39	20.39	20.11			
15	QPSK	1	74	20.32	20.39	20.14			
15	QPSK	36	0	19.46	19.45	19.20	20.5	1	
15	QPSK	36	20	19.29	19.32	19.12			
15	QPSK	36	39	19.41	19.34	19.09			
15	QPSK	75	0	19.38	19.40	19.06	20.5	1	
15	16QAM	1	0	19.41	19.40	19.14			
15	16QAM	1	37	19.42	19.39	19.17	20.5	1	
15	16QAM	1	74	19.36	19.47	19.19			
15	16QAM	36	0	18.41	18.41	18.25	19.5	2	
15	16QAM	36	20	18.20	18.30	18.19			
15	16QAM	36	39	18.37	18.34	18.21			
15	16QAM	75	0	18.27	18.32	18.14	19.5	2	
15	64QAM	1	0	18.28	18.36	18.01			
15	64QAM	1	37	18.30	18.30	18.02	19.5	2	
15	64QAM	1	74	18.26	18.29	18.07			
15	64QAM	36	0	17.26	17.32	17.08	18.5	3	
15	64QAM	36	20	17.25	17.27	17.04			
15	64QAM	36	39	17.27	17.31	17.05			
15	64QAM	75	0	17.13	17.26	17.00	16.5	5	
15	256QAM	1	0	15.31	15.37	15.24			
15	256QAM	1	37	15.27	15.37	15.18			
15	256QAM	1	74	15.32	15.34	15.12	16.5	5	
15	256QAM	36	0	15.33	15.37	14.98			
15	256QAM	36	20	15.33	15.22	15.07			
15	256QAM	36	39	15.40	15.27	15.07			
15	256QAM	75	0	15.24	15.23	15.09			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.38	20.42	20.16	21.5	0	
10	QPSK	1	25	20.31	20.31	20.15			
10	QPSK	1	49	20.33	20.43	20.12			
10	QPSK	25	0	19.41	19.38	19.18	20.5	1	
10	QPSK	25	12	19.41	19.37	19.21			
10	QPSK	25	25	19.36	19.41	19.11			
10	QPSK	50	0	19.27	19.39	19.06	20.5	1	
10	16QAM	1	0	19.40	19.33	19.17			
10	16QAM	1	25	19.39	19.36	19.14			
10	16QAM	1	49	19.35	19.48	19.16	19.5	2	
10	16QAM	25	0	18.41	18.39	18.17			
10	16QAM	25	12	18.40	18.40	18.18			
10	16QAM	25	25	18.44	18.38	18.15	19.5	2	
10	16QAM	50	0	18.29	18.36	18.12			
10	64QAM	1	0	18.28	18.35	18.00	19.5	2	
10	64QAM	1	25	18.29	18.29	18.02			
10	64QAM	1	49	18.29	18.28	18.02			
10	64QAM	25	0	17.35	17.37	17.07	18.5	3	
10	64QAM	25	12	17.17	17.25	17.04			
10	64QAM	25	25	17.27	17.30	17.14			
10	64QAM	50	0	17.13	17.24	16.96	16.5	5	
10	256QAM	1	0	15.37	15.40	15.15			
10	256QAM	1	25	15.27	15.32	15.18			
10	256QAM	1	49	15.32	15.34	15.19	16.5	5	
10	256QAM	25	0	15.33	15.29	14.99			
10	256QAM	25	12	15.36	15.21	15.13			
10	256QAM	25	25	15.32	15.24	15.09	16.5	5	
10	256QAM	50	0	15.25	15.28	15.00			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3423	3472	3521			
5	QPSK	1	0	20.42	20.43	20.22	21.5	0	
5	QPSK	1	12	20.38	20.33	20.11			
5	QPSK	1	24	20.39	20.34	20.09			
5	QPSK	12	0	19.43	19.37	19.17	20.5	1	
5	QPSK	12	7	19.41	19.38	19.13			
5	QPSK	12	13	19.40	19.35	19.10			
5	QPSK	25	0	19.29	19.32	19.09	20.5	1	
5	16QAM	1	0	19.37	19.34	19.08			
5	16QAM	1	12	19.42	19.44	19.19	20.5	1	
5	16QAM	1	24	19.42	19.40	19.13			
5	16QAM	12	0	18.47	18.40	18.23	19.5	2	
5	16QAM	12	7	18.30	18.42	18.22			
5	16QAM	12	13	18.37	18.43	18.12			
5	16QAM	25	0	18.31	18.30	18.08	19.5	2	
5	64QAM	1	0	18.36	18.41	18.02			
5	64QAM	1	12	18.23	18.27	18.06	18.5	3	
5	64QAM	1	24	18.30	18.25	18.04			
5	64QAM	12	0	17.26	17.41	17.10	18.5	3	
5	64QAM	12	7	17.23	17.19	17.01			
5	64QAM	12	13	17.33	17.24	17.09			
5	64QAM	25	0	17.16	17.24	16.95	16.5	5	
5	256QAM	1	0	15.32	15.33	15.16			
5	256QAM	1	12	15.26	15.30	15.22	16.5	5	
5	256QAM	1	24	15.37	15.34	15.17			
5	256QAM	12	0	15.37	15.27	15.02	16.5	5	
5	256QAM	12	7	15.25	15.29	15.16			
5	256QAM	12	13	15.33	15.29	15.12			
5	256QAM	25	0	15.22	15.24	15.06			

Band 48 Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3569	3641	3690		
20	QPSK	1	0	20.44	20.46	20.39	21.5	0	
20	QPSK	1	49	20.33	20.45	20.29			
20	QPSK	1	99	20.36	20.45	20.32			
20	QPSK	50	0	19.40	19.47	19.41	20.5	1	
20	QPSK	50	24	19.48	19.48	19.33			
20	QPSK	50	50	19.37	19.42	19.36			
20	QPSK	100	0	19.32	19.47	19.37			
20	16QAM	1	0	19.41	19.48	19.37	20.5	1	
20	16QAM	1	49	19.35	19.43	19.30			
20	16QAM	1	99	19.37	19.51	19.28			
20	16QAM	50	0	18.42	18.50	18.40	19.5	2	
20	16QAM	50	24	18.50	18.47	18.32			
20	16QAM	50	50	18.35	18.40	18.38			
20	16QAM	100	0	18.37	18.49	18.32	19.5	2	
20	64QAM	1	0	18.50	18.40	18.38			
20	64QAM	1	49	18.38	18.49	18.25	18.5	3	
20	64QAM								



Band 38 Ant 4 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.12	19.19	19.07	20.5	0		
20	QPSK	1	49	19.08	19.17	19.03				
20	QPSK	1	99	18.98	19.05	18.98	20.5	0		
20	QPSK	50	0	19.09	19.13	18.96				
20	QPSK	50	24	18.98	19.17	18.99	20.5	0		
20	QPSK	50	50	19.09	19.08	18.94				
20	16QAM	1	0	18.99	19.08	19.01	20.5	0		
20	16QAM	1	49	18.97	19.05	18.98				
20	16QAM	1	99	19.03	19.06	18.92	20.5	0		
20	16QAM	50	0	18.86	19.00	18.91				
20	16QAM	50	24	18.92	19.14	18.97	20.5	0		
20	16QAM	50	50	18.99	18.92	18.84				
20	16QAM	100	0	18.94	18.98	18.90	20.5	0		
20	16QAM	100	0	19.07	19.07	18.95				
20	64QAM	1	0	19.03	19.07	19.00	20.5	0		
20	64QAM	1	99	18.85	18.97	18.87				
20	64QAM	50	0	19.00	19.06	18.85	20.5	0		
20	64QAM	50	24	18.91	19.13	18.86				
20	64QAM	50	50	18.97	18.95	18.88	20.5	0		
20	64QAM	100	0	18.94	18.97	18.92				
20	256QAM	1	0	18.08	18.18	18.11	19.5	1		
20	256QAM	1	49	18.13	18.20	18.03				
20	256QAM	1	99	18.03	18.01	17.94	19.5	1		
20	256QAM	50	0	18.05	18.14	17.90				
20	256QAM	50	24	17.93	18.13	17.97	19.5	1		
20	256QAM	50	50	18.15	18.08	17.88				
20	256QAM	100	0	18.05	18.09	17.98	19.5	1		
20	256QAM	100	0	18.05	18.09	17.98				
Channel				37825	38000	38175				
Frequency (MHz)				25775	2595	2612.5				
15	QPSK	1	0	19.01	19.09	18.98	20.5	0		
15	QPSK	1	37	18.98	19.07	18.92				
15	QPSK	1	74	18.88	18.92	18.91	20.5	0		
15	QPSK	36	0	19.00	19.01	18.85				
15	QPSK	36	20	18.94	19.13	18.90	20.5	0		
15	QPSK	36	39	18.96	18.95	18.90				
15	QPSK	75	0	18.96	19.01	18.93	20.5	0		
15	16QAM	1	0	18.96	18.96	18.93				
15	16QAM	1	37	18.99	18.96	18.80	20.5	0		
15	16QAM	1	74	18.76	18.87	18.79				
15	16QAM	36	0	18.97	19.02	18.94	20.5	0		
15	16QAM	36	20	18.87	19.05	18.89				
15	16QAM	36	39	18.91	18.83	18.76	20.5	0		
15	16QAM	75	0	18.83	18.94	18.86				
15	64QAM	1	0	18.96	18.95	18.92	20.5	0		
15	64QAM	1	37	18.95	19.04	18.93				
15	64QAM	1	74	18.83	18.88	18.78	20.5	0		
15	64QAM	36	0	18.95	19.02	18.77				
15	64QAM	36	20	18.87	19.09	18.82	20.5	0		
15	64QAM	36	39	18.93	18.87	18.77				
15	64QAM	75	0	18.90	18.86	18.78	19.5	1		
15	256QAM	1	0	18.02	18.12	18.06				
15	256QAM	1	37	18.13	18.00		19.5	1		
15	256QAM	1	74	17.94	17.91	17.84				
15	256QAM	36	0	17.91	18.06	17.83	19.5	1		
15	256QAM	36	20	17.85	18.09	17.84				
15	256QAM	36	39	18.05	18.04	17.82	19.5	1		
15	256QAM	75	0	17.96	18.04	17.91				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.06	19.05	19.01	20.5	0		
10	QPSK	1	25	18.95	19.08	18.98				
10	QPSK	1	49	18.90	19.00	18.90	20.5	0		
10	QPSK	25	0	19.08	19.05	18.89				
10	QPSK	25	12	18.90	19.08	18.93	20.5	0		
10	QPSK	25	25	19.02	19.00	18.92				
10	QPSK	50	0	18.89	18.95	18.87	20.5	0		
10	16QAM	1	0	19.03	19.00	18.86				
10	16QAM	1	25	18.96	18.95	18.80	20.5	0		
10	16QAM	1	49	18.72	18.96	18.86				
10	16QAM	25	0	18.96	19.02	18.79	20.5	0		
10	16QAM	25	12	18.80	19.10	18.89				
10	16QAM	25	25	18.88	18.83	18.79	20.5	0		
10	16QAM	50	0	18.85	18.85	18.92				
10	64QAM	1	0	19.02	18.93	18.93	20.5	0		
10	64QAM	1	25	18.95	18.98	18.88				
10	64QAM	1	49	18.72	18.87	18.73	20.5	0		
10	64QAM	25	0	18.87	18.94	18.75				
10	64QAM	25	12	18.85	19.08	18.75	20.5	0		
10	64QAM	25	25	18.87	18.88	18.78				
10	64QAM	50	0	18.91	18.89	18.80	19.5	1		
10	256QAM	1	0	17.97	18.16	18.05				
10	256QAM	1	25	18.03	18.12	17.94	19.5	1		
10	256QAM	1	49	17.93	17.88	17.86				
10	256QAM	25	0	17.99	18.12	17.78	19.5	1		
10	256QAM	25	12	17.81	18.05	17.90				
10	256QAM	25	25	18.10	17.99	17.85	19.5	1		
10	256QAM	50	0	17.95	18.01	17.93				
Channel				37775	38000	38225				
Frequency (MHz)				25725	2595	2617.5				
5	QPSK	1	0	19.09	19.10	19.05	20.5	0		
5	QPSK	1	12	18.98	19.13	18.95				
5	QPSK	1	24	18.96	19.00	18.93	20.5	0		
5	QPSK	12	0	18.98	19.09	18.92				
5	QPSK	12	7	18.96	19.13	18.93	20.5	0		
5	QPSK	12	13	19.07	19.00	18.91				
5	QPSK	25	0	18.95	18.94	18.88	20.5	0		
5	16QAM	1	0	18.95	19.00	18.91				
5	16QAM	1	12	18.98	18.93	18.87	20.5	0		
5	16QAM	1	24	18.83	18.96	18.78				
5	16QAM	12	0	18.97	19.03	18.76	20.5	0		
5	16QAM	12	7	18.86	19.05	18.85				
5	16QAM	12	13	18.86	18.98	18.79	20.5	0		
5	16QAM	25	0	18.87	18.89	18.78				
5	64QAM	1	0	18.99	18.97	18.96	20.5	0		
5	64QAM	1	12	18.91	19.05	18.88				
5	64QAM	1	24	18.79	18.84	18.82	20.5	0		
5	64QAM	12	0	18.94	19.02	18.81				
5	64QAM	12	7	18.82	19.07	18.85	20.5	0		
5	64QAM	12	13	18.88	18.92	18.78				
5	64QAM	25	0	18.84	18.87	18.89	19.5	1		
5	256QAM	1	0	17.96	18.11	17.96				
5	256QAM	1	12	18.08	18.16	17.90	19.5	1		
5	256QAM	1	24	18.00	17.94	17.88				
5	256QAM	12	0	17.97	18.11	17.77	19.5	1		
5	256QAM	12	7	17.80	18.09	17.90				
5	256QAM	12	13	18.02	18.02	17.75	19.5	1		
5	256QAM	25	0	18.02	18.04	17.92				

Band 41 Ant 4 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620				
Frequency (MHz)				2566	2593.5	2636.5				
20	QPSK	1	0	19.18	19.14	19.24	20.5	0		
20	QPSK	1	49	19.12	19.18	19.20				
20	QPSK	1	99	19.08	19.08	19.02	20.5	0		
20	QPSK	50	0	19.11	19.18	19.13				
20	QPSK	50	24	19.10	19.05	19.19	20.5	0		
20	QPSK	50	50	19.02	19.16	19.10				
20	QPSK	100	0	19.06	19.05	19.17	20.5	0		
20	16QAM	1	0	19.00	19.11	19.06				
20	16QAM	1	49	18.09	19.11	19.10	20.5	0		
20	16QAM									



Band 42 Part 27Q Ant 5 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.55	21.61	21.51	22.5	0	
20	QPSK	1	49	21.43	21.58	21.37			
20	QPSK	1	99	21.49	21.56	21.44			
20	QPSK	50	0	21.48	21.57	21.37	22.5	0	
20	QPSK	50	24	21.43	21.48	21.38			
20	QPSK	50	50	21.52	21.49	21.37			
20	QPSK	100	0	21.45	21.54	21.47	22.5	0	
20	16QAM	1	0	21.49	21.53	21.47			
20	16QAM	1	49	21.32	21.51	21.33			
20	16QAM	1	99	21.35	21.47	21.38	22.5	0	
20	16QAM	50	0	21.38	21.50	21.31			
20	16QAM	50	24	21.32	21.38	21.35			
20	16QAM	50	50	21.40	21.41	21.23	22.5	0	
20	16QAM	100	0	21.40	21.50	21.41			
20	64QAM	1	0	21.41	21.49	21.48	22.5	0	
20	64QAM	1	49	21.40	21.56	21.24			
20	64QAM	1	99	21.43	21.49	21.37			
20	64QAM	50	0	21.41	21.51	21.26	22.5	0	
20	64QAM	50	24	21.38	21.43	21.33			
20	64QAM	50	50	21.42	21.42	21.28			
20	64QAM	100	0	21.40	21.46	21.40	22.5	0	
20	256QAM	1	0	19.54	19.65	19.49			
20	256QAM	1	49	19.47	19.64	19.40	20.5	2	
20	256QAM	1	99	19.47	19.54	19.41			
20	256QAM	50	0	19.46	19.54	19.35			
20	256QAM	50	24	19.46	19.45	19.36	20.5	2	
20	256QAM	50	50	19.54	19.45	19.42			
20	256QAM	100	0	19.42	19.58	19.51			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3425	3500	3575	22.5	0	
15	QPSK	1	0	21.43	21.57	21.46	22.5	0	
15	QPSK	1	37	21.38	21.44	21.23			
15	QPSK	1	74	21.41	21.52	21.41			
15	QPSK	36	0	21.46	21.52	21.23	22.5	0	
15	QPSK	36	20	21.34	21.38	21.34			
15	QPSK	36	39	21.46	21.35	21.30			
15	QPSK	75	0	21.37	21.45	21.36	22.5	0	
15	16QAM	1	0	21.35	21.42	21.44			
15	16QAM	1	37	21.23	21.38	21.20			
15	16QAM	1	74	21.25	21.39	21.26	22.5	0	
15	16QAM	36	0	21.35	21.42	21.21			
15	16QAM	36	20	21.27	21.27	21.26			
15	16QAM	36	39	21.37	21.34	21.16	22.5	0	
15	16QAM	75	0	21.26	21.38	21.30			
15	64QAM	1	0	21.28	21.36	21.42	22.5	0	
15	64QAM	1	37	21.27	21.44	21.15			
15	64QAM	1	74	21.40	21.38	21.33			
15	64QAM	36	0	21.28	21.37	21.18	22.5	0	
15	64QAM	36	20	21.31	21.32	21.20			
15	64QAM	36	39	21.38	21.28	21.16			
15	64QAM	75	0	21.31	21.40	21.34	22.5	0	
15	256QAM	1	0	19.44	19.51	19.36			
15	256QAM	1	37	19.44	19.50	19.34	20.5	2	
15	256QAM	1	74	19.37	19.40	19.27			
15	256QAM	36	0	19.43	19.50	19.28			
15	256QAM	36	20	19.37	19.34	19.24	20.5	2	
15	256QAM	36	39	19.46	19.39	19.39			
15	256QAM	75	0	19.29	19.48	19.48			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545	22.5	0	
10	QPSK	1	0	21.46	21.52	21.38	22.5	0	
10	QPSK	1	25	21.41	21.45	21.31			
10	QPSK	1	49	21.46	21.51	21.41			
10	QPSK	25	0	21.41	21.49	21.28	22.5	0	
10	QPSK	25	12	21.32	21.38	21.35			
10	QPSK	25	25	21.38	21.42	21.27			
10	QPSK	50	0	21.40	21.49	21.36	22.5	0	
10	16QAM	1	0	21.40	21.49	21.43			
10	16QAM	1	25	21.27	21.41	21.28			
10	16QAM	1	49	21.24	21.38	21.27	22.5	0	
10	16QAM	25	0	21.31	21.36	21.27			
10	16QAM	25	12	21.19	21.26	21.30			
10	16QAM	25	25	21.31	21.35	21.12	22.5	0	
10	16QAM	50	0	21.36	21.42	21.36			
10	64QAM	1	0	21.31	21.45	21.38			
10	64QAM	1	25	21.28	21.42	21.18	22.5	0	
10	64QAM	1	49	21.34	21.43	21.24			
10	64QAM	25	0	21.30	21.39	21.18			
10	64QAM	25	12	21.31	21.41	21.29	22.5	0	
10	64QAM	25	25	21.35	21.32	21.15			
10	64QAM	50	0	21.29	21.33	21.33			
10	256QAM	1	0	19.41	19.55	19.45	20.5	2	
10	256QAM	1	25	19.42	19.53	19.33			
10	256QAM	1	49	19.43	19.46	19.29			
10	256QAM	25	0	19.34	19.41	19.30	20.5	2	
10	256QAM	25	12	19.33	19.34	19.32			
10	256QAM	25	25	19.49	19.37	19.35			
10	256QAM	50	0	19.30	19.37	19.40			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3425	3500	3575	22.5	0	
5	QPSK	1	0	21.45	21.56	21.43	22.5	0	
5	QPSK	1	12	21.29	21.54	21.28			
5	QPSK	1	24	21.45	21.46	21.32			
5	QPSK	12	0	21.35	21.54	21.23	22.5	0	
5	QPSK	12	7	21.36	21.38	21.28			
5	QPSK	12	13	21.45	21.38	21.30			
5	QPSK	25	0	21.42	21.42	21.36	22.5	0	
5	16QAM	1	0	21.35	21.42	21.36			
5	16QAM	1	12	21.23	21.45	21.29			
5	16QAM	1	24	21.31	21.35	21.32	22.5	0	
5	16QAM	12	0	21.33	21.47	21.24			
5	16QAM	12	7	21.25	21.34	21.32			
5	16QAM	12	13	21.34	21.30	21.17	22.5	0	
5	16QAM	25	0	21.37	21.46	21.34			
5	64QAM	1	0	21.35	21.44	21.40			
5	64QAM	1	12	21.27	21.53	21.14	22.5	0	
5	64QAM	1	24	21.36	21.41	21.25			
5	64QAM	12	0	21.33	21.44	21.14			
5	64QAM	12	7	21.34	21.31	21.23	22.5	0	
5	64QAM	12	13	21.44	21.35	21.17			
5	64QAM	25	0	21.27	21.34	21.35			
5	256QAM	1	0	19.51	19.62	19.46	20.5	2	
5	256QAM	1	12	19.42	19.59	19.29			
5	256QAM	1	24	19.37	19.49	19.36			
5	256QAM	12	0	19.37	19.51	19.25	20.5	2	
5	256QAM	12	7	19.33	19.39	19.29			
5	256QAM	12	13	19.42	19.34	19.30			
5	256QAM	25	0	19.39	19.47	19.45			

Band 48 Ant 5 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55590	56150	56640		
Frequency (MHz)				3560	3569	3641	3690		
20	QPSK	1	0	21.46	21.50	21.45	22.5	0	
20	QPSK	1	49	21.33	21.42	21.37			
20	QPSK	1	99	21.36	21.46	21.31			
20	QPSK	50	0	21.33	21.48	21.34	22.5	0	
20	QPSK	50	24	21.23	21.39	21.29			
20	QPSK	50	50	21.29	21.35	21.18			
20	QPSK	100	0	21.37	21.43	21.42	22.5	0	
20	16QAM	1	0	21.34	21.38	21.41			
20	16QAM	1	49	21.27	21.38	21.31			
20	16QAM	1	99	21.24	21.41	21.22	22.5	0	
20	16QAM	50	0	21.24	21.40	21.26			
20	16QAM	50	24	21.14	21.27	21.23			
20	16QAM	50	50	21.21	21.26	21.14	22.5	0	
20	16QAM	100	0	21.24	21.41	21.40			
20	64QAM	1	0	21.35	21.39	21.33	22.5	0	
20	64QAM	1	49	21.21	21.36	21.27			
20	64QAM								



Band 42 Part 27Q Ant 7 DSI 4													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)					
Channel				42190	42590	42990							
Frequency (MHz)				3460	3500	3540							
20	QPSK	1	0	20.79	20.81	20.75	22	0					
20	QPSK	1	49	20.70	20.78	20.68							
20	QPSK	1	99	20.74	20.69	20.73	22	0					
20	QPSK	50	0	20.66	20.78	20.84							
20	QPSK	50	24	20.71	20.72	20.62	22	0					
20	QPSK	50	50	20.68	20.75	20.65							
20	QPSK	100	0	20.75	20.75	20.72	22	0					
20	16QAM	1	0	20.65	20.69	20.73							
20	16QAM	1	49	20.66	20.75	20.56	22	0					
20	16QAM	1	99	20.61	20.59	20.66							
20	16QAM	50	0	20.62	20.69	20.52	22	0					
20	16QAM	50	24	20.68	20.59	20.57							
20	16QAM	50	50	20.66	20.72	20.62	22	0					
20	16QAM	100	0	20.66	20.66	20.65							
20	64QAM	1	0	20.74	20.70	20.67	22	0					
20	64QAM	1	49	20.64	20.73	20.56							
20	64QAM	1	99	20.66	20.63	20.58	22	0					
20	64QAM	50	0	19.73	19.78	19.72							
20	64QAM	50	24	19.65	19.78	19.71	21	1					
20	64QAM	50	50	19.71	19.74	19.74							
20	64QAM	100	0	19.63	19.77	19.66	19	3					
20	256QAM	1	0	17.83	17.79	17.89							
20	256QAM	1	49	17.69	17.73	17.62	19	3					
20	256QAM	1	99	17.76	17.71	17.62							
20	256QAM	50	0	17.70	17.76	17.65	19	3					
20	256QAM	50	24	17.69	17.68	17.58							
20	256QAM	50	50	17.71	17.80	17.63	20	256QAM	100	0	17.72	17.71	17.75
Channel				42165	42590	43015							
Frequency (MHz)				3423.5	3466	3508.5							
15	QPSK	1	0	20.69	20.75	20.61	22	0					
15	QPSK	1	37	20.57	20.66	20.65							
15	QPSK	1	74	20.65	20.62	20.56	22	0					
15	QPSK	36	0	20.62	20.67	20.55							
15	QPSK	36	20	20.63	20.64	20.51	22	0					
15	QPSK	36	39	20.66	20.71	20.58							
15	QPSK	75	0	20.73	20.65	20.84	22	0					
15	16QAM	1	0	20.62	20.56	20.69							
15	16QAM	1	37	20.60	20.66	20.45	22	0					
15	16QAM	1	74	20.48	20.48	20.63							
15	16QAM	36	0	20.54	20.57	20.45	22	0					
15	16QAM	36	20	20.65	20.45	20.50							
15	16QAM	36	39	20.54	20.58	20.49	22	0					
15	16QAM	75	0	20.66	20.56	20.60							
15	64QAM	1	0	20.65	20.57	20.56	22	0					
15	64QAM	1	37	20.52	20.69	20.51							
15	64QAM	1	74	20.58	20.60	20.63	21	1					
15	64QAM	36	0	19.70	19.72	19.59							
15	64QAM	36	20	19.60	19.74	19.65	19	3					
15	64QAM	36	39	19.65	19.65	19.71							
15	64QAM	75	0	19.56	19.64	19.61	19	3					
15	256QAM	1	0	17.70	17.68	17.55							
15	256QAM	1	37	17.68	17.66	17.58	19	3					
15	256QAM	1	74	17.64	17.61	17.59							
15	256QAM	36	0	17.59	17.65	17.54	19	3					
15	256QAM	36	20	17.57	17.62	17.49							
15	256QAM	36	39	17.69	17.73	17.56	20	256QAM	75	0	17.64	17.67	
Channel				42140	42590	43040							
Frequency (MHz)				3455	3500	3545							
10	QPSK	1	0	20.69	20.69	20.67	22	0					
10	QPSK	1	25	20.66	20.72	20.65							
10	QPSK	1	49	20.63	20.66	20.67	22	0					
10	QPSK	25	0	20.58	20.72	20.54							
10	QPSK	25	12	20.57	20.68	20.58	22	0					
10	QPSK	25	25	20.55	20.70	20.57							
10	QPSK	50	0	20.72	20.66	20.67	22	0					
10	16QAM	1	0	20.61	20.57	20.70							
10	16QAM	1	25	20.62	20.70	20.61	22	0					
10	16QAM	1	49	20.55	20.47	20.64							
10	16QAM	25	0	20.51	20.58	20.49	22	0					
10	16QAM	25	12	20.57	20.56	20.49							
10	16QAM	25	25	20.63	20.64	20.56	22	0					
10	16QAM	50	0	20.60	20.55	20.54							
10	64QAM	1	0	20.61	20.56	20.69	22	0					
10	64QAM	1	25	20.58	20.63	20.54							
10	64QAM	1	49	20.60	20.53	20.45	21	1					
10	64QAM	25	0	19.69	19.69	19.64							
10	64QAM	25	12	19.59	19.68	19.63	19	3					
10	64QAM	25	25	19.69	19.71	19.69							
10	64QAM	50	0	19.62	19.68	19.63	19	3					
10	256QAM	1	0	17.72	17.71	17.59							
10	256QAM	1	25	17.58	17.69	17.53	19	3					
10	256QAM	1	49	17.70	17.59	17.48							
10	256QAM	25	0	17.61	17.73	17.54	19	3					
10	256QAM	25	12	17.59	17.63	17.50							
10	256QAM	25	25	17.57	17.78	17.53	20	256QAM	50	0	17.62	17.67	
Channel				42115	42590	43065							
Frequency (MHz)				3423	3500	3577.5							
5	QPSK	1	0	20.73	20.67	20.71	22	0					
5	QPSK	1	12	20.64	20.68	20.65							
5	QPSK	1	24	20.71	20.59	20.56	22	0					
5	QPSK	12	0	20.58	20.65	20.64							
5	QPSK	12	7	20.67	20.70	20.52	22	0					
5	QPSK	12	13	20.54	20.70	20.52							
5	QPSK	25	0	20.66	20.72	20.66	22	0					
5	16QAM	1	0	20.55	20.63	20.71							
5	16QAM	1	12	20.52	20.63	20.43	22	0					
5	16QAM	1	24	20.58	20.50	20.63							
5	16QAM	12	0	20.52	20.59	20.48	22	0					
5	16QAM	12	7	20.57	20.51	20.53							
5	16QAM	12	13	20.62	20.70	20.55	21	1					
5	16QAM	25	0	20.64	20.59	20.59							
5	64QAM	1	0	20.69	20.66	20.60	22	0					
5	64QAM	1	12	20.52	20.71	20.50							
5	64QAM	1	24	20.61	20.56	20.48	21	1					
5	64QAM	12	0	19.66	19.76	19.63							
5	64QAM	12	7	19.63	19.71	19.62	19	3					
5	64QAM	12	13	19.59	19.64	19.69							
5	64QAM	25	0	19.53	19.66	19.54	19	3					
5	256QAM	1	0	17.61	17.66	17.57							
5	256QAM	1	12	17.58	17.67	17.57	18.5	5					
5	256QAM	1	24	17.71	17.62	17.60							
5	256QAM	12	0	17.64	17.70	17.63	18.5	5					
5	256QAM	12	7	17.64	17.58	17.45							
5	256QAM	12	13	17.64	17.76	17.52	18.5	5					
5	256QAM	25	0	17.70	17.67	17.61							

Band 48 Ant 7 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3569	3641	3690		
20	QPSK	1	0	22.15	22.23	22.20	23.5	0	
20	QPSK	1	49	22.05	22.16	22.12			
20	QPSK	1	99	22.03	22.12	22.16	22.5	1	
20	QPSK	50	0	21.18	21.25	21.15			
20	QPSK	50	24	21.06	21.12	21.17	22.5	1	
20	QPSK	50	50	21.02	21.15	21.21			
20	QPSK	100	0	21.11	21.21	21.19	22.5	1	
20	16QAM	1	0	21.19	21.18	21.24			
20	16QAM	1	49	21.03	21.17	21.08	22.5	1	
20	16QAM	1	99	21.00	21.17	21.22			
20	16QAM	50	0	20.16	20.22	20.15	21.5	2	
20	16QAM	50	24	20.03	20.16	20.15			
20	16QAM	50	50	19.97	20.20	20.17	21.5	2	
20	16QAM	100	0	20.14	20.20	20.14			
20	64QAM	1	0	20.19	20.13	20.26	21.5	2	
20	64QAM	1	49	20.07	20.14	20.12			
20	64QAM	1	99	19.99	20.14	20.26	20.5	3	
20	64QAM	50	0	19.17	19.23	19.18			
20	64QAM	50	24	19.00	19.11	19.20	20.5	3	
20	64QAM	50	50	19.74					

Full & Default Power

Band 2 other PA Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq	Power F.Freq/Ch./F.Freq	Time- slot (ms)	MPR (dB)				
20	QPSK	1	0	23.01	23.05	23.08	24	0			
20	QPSK	1	66	22.92	22.91	22.97	24	0			
20	QPSK	50	0	22.63	22.63	22.63	23	1			
20	QPSK	50	66	22.62	22.61	22.67	23	1			
20	QPSK	100	0	21.87	21.88	21.88	23	1			
20	QPSK	100	66	22.02	22.01	21.97	23	1			
20	QPSK	150	0	21.94	21.96	21.98	22	2			
20	QPSK	150	66	21.90	21.92	21.90	22	2			
20	QPSK	150	0	20.71	21.02	20.93	22	2			
20	QPSK	150	66	20.86	20.92	20.86	22	2			
20	QPSK	50	0	19.85	19.85	19.84	21	3			
20	QPSK	50	66	19.82	19.82	19.82	21	3			
20	QPSK	100	0	18.23	18.24	18.24	19	5			
20	QPSK	100	66	18.20	18.20	18.20	19	5			
20	QPSK	150	0	17.67	17.66	17.66	19	5			
20	QPSK	150	66	17.65	17.65	17.65	19	5			
20	QPSK	50	0	16.20	16.20	16.20	19	5			
20	QPSK	50	66	16.18	16.18	16.18	19	5			
20	QPSK	100	0	15.24	15.24	15.24	19	5			
20	QPSK	100	66	15.22	15.22	15.22	19	5			
20	QPSK	150	0	14.28	14.28	14.28	19	5			
20	QPSK	150	66	14.26	14.26	14.26	19	5			
20	QPSK	50	0	13.22	13.22	13.22	19	5			
20	QPSK	50	66	13.20	13.20	13.20	19	5			
20	QPSK	100	0	12.26	12.26	12.26	19	5			
20	QPSK	100	66	12.24	12.24	12.24	19	5			
20	QPSK	150	0	11.28	11.28	11.28	19	5			
20	QPSK	150	66	11.26	11.26	11.26	19	5			
20	QPSK	50	0	10.22	10.22	10.22	19	5			
20	QPSK	50	66	10.20	10.20	10.20	19	5			
20	QPSK	100	0	9.24	9.24	9.24	19	5			
20	QPSK	100	66	9.22	9.22	9.22	19	5			
20	QPSK	150	0	8.26	8.26	8.26	19	5			
20	QPSK	150	66	8.24	8.24	8.24	19	5			
20	QPSK	50	0	7.28	7.28	7.28	19	5			
20	QPSK	50	66	7.26	7.26	7.26	19	5			
20	QPSK	100	0	6.28	6.28	6.28	19	5			
20	QPSK	100	66	6.26	6.26	6.26	19	5			
20	QPSK	150	0	5.28	5.28	5.28	19	5			
20	QPSK	150	66	5.26	5.26	5.26	19	5			
20	QPSK	50	0	4.28	4.28	4.28	19	5			
20	QPSK	50	66	4.26	4.26	4.26	19	5			
20	QPSK	100	0	3.28	3.28	3.28	19	5			
20	QPSK	100	66	3.26	3.26	3.26	19	5			
20	QPSK	150	0	2.28	2.28	2.28	19	5			
20	QPSK	150	66	2.26	2.26	2.26	19	5			
20	QPSK	50	0	1.28	1.28	1.28	19	5			
20	QPSK	50	66	1.26	1.26	1.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0	0.28	0.28	0.28	19	5			
20	QPSK	150	66	0.26	0.26	0.26	19	5			
20	QPSK	50	0	0.28	0.28	0.28	19	5			
20	QPSK	50	66	0.26	0.26	0.26	19	5			
20	QPSK	100	0	0.28	0.28	0.28	19	5			
20	QPSK	100	66	0.26	0.26	0.26	19	5			
20	QPSK	150	0								



Band 38 other PA Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Middle Ch. / Freq	Power Low Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.21	23.28	23.22				
20	QPSK	1	49	23.20	23.26	23.19	24	0		
20	QPSK	1	99	23.20	23.26	23.18				
20	QPSK	50	0	22.23	22.24	22.22				
20	QPSK	50	24	22.25	22.22	22.24				
20	QPSK	50	50	22.19	22.30	22.21	23	1		
20	QPSK	100	0	22.18	22.20	22.23				
20	16QAM	1	0	22.23	22.26	22.18				
20	16QAM	1	49	22.18	22.25	22.24	23	1		
20	16QAM	1	99	22.17	22.23	22.18				
20	16QAM	50	0	21.19	21.30	21.27				
20	16QAM	50	24	21.26	21.21	21.28	22	2		
20	16QAM	50	50	21.15	21.33	21.20				
20	16QAM	100	0	21.16	21.23	21.20				
20	64QAM	1	0	21.26	21.22	21.24				
20	64QAM	1	49	21.21	21.28	21.19	22	2		
20	64QAM	1	99	21.23	21.22	21.15				
20	64QAM	50	0	20.27	20.29	20.27				
20	64QAM	50	24	20.29	20.18	20.18	21	3		
20	64QAM	50	50	20.25	20.31	20.26				
20	64QAM	100	0	20.18	20.23	20.20				
20	256QAM	1	0	18.25	18.32	18.23				
20	256QAM	1	49	18.25	18.21	18.21	19	5		
20	256QAM	1	99	18.22	18.25	18.13				
20	256QAM	50	0	18.23	18.25	18.27				
20	256QAM	50	24	18.25	18.19	18.24	19	5		
20	256QAM	50	50	18.18	18.27	18.26				
20	256QAM	100	0	18.21	18.28	18.24				
Channel				37825	38000	38175				
Frequency (MHz)				25775	2592	2592.5				
15	QPSK	1	0	23.19	23.24	23.17	24	0		
15	QPSK	1	37	23.19	23.23	23.14				
15	QPSK	1	74	23.19	23.25	23.17				
15	QPSK	36	0	22.22	22.20	22.22				
15	QPSK	36	20	22.22	22.11	22.19	23	1		
15	QPSK	36	39	22.08	22.21	22.17				
15	QPSK	75	0	22.14	22.18	22.20				
15	16QAM	1	0	22.13	22.19	22.18				
15	16QAM	1	37	22.11	22.12	22.14	23	1		
15	16QAM	1	74	22.17	22.20	22.16				
15	16QAM	36	0	21.17	21.25	21.25				
15	16QAM	36	20	21.24	21.09	21.21	22	2		
15	16QAM	36	39	21.06	21.29	21.10				
15	16QAM	75	0	21.13	21.23	21.18				
15	64QAM	1	0	21.23	21.22	21.19				
15	64QAM	1	37	21.21	21.18	21.09	22	2		
15	64QAM	1	74	21.22	21.20	21.06				
15	64QAM	36	0	20.20	20.29	20.21				
15	64QAM	36	20	20.29	20.07	20.10	21	3		
15	64QAM	36	39	20.14	20.25	20.21				
15	64QAM	75	0	20.17	20.20	20.20				
15	256QAM	1	0	18.17	18.24	18.23				
15	256QAM	1	37	18.26	18.12	18.17	19	5		
15	256QAM	1	74	18.20	18.14	18.11				
15	256QAM	36	0	18.23	18.16	18.17				
15	256QAM	36	20	18.22	18.16	18.24	19	5		
15	256QAM	36	39	18.16	18.16	18.26				
15	256QAM	75	0	18.21	18.15	18.14				
Channel				37890	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.13	23.23	23.16	24	0		
10	QPSK	1	25	23.18	23.15	23.08				
10	QPSK	1	49	23.20	23.15	23.14				
10	QPSK	25	0	22.15	22.13	22.13				
10	QPSK	25	12	22.13	22.14	22.16	23	1		
10	QPSK	25	25	22.16	22.28	22.12				
10	QPSK	50	0	22.12	22.09	22.11				
10	16QAM	1	0	22.12	22.15	22.22	23	1		
10	16QAM	1	49	22.12	22.19	22.17				
10	16QAM	1	99	22.10	22.16	22.12				
10	16QAM	25	0	21.10	21.24	21.26				
10	16QAM	25	12	21.15	21.15	21.25	22	2		
10	16QAM	25	25	21.10	21.27	21.18				
10	16QAM	50	0	21.06	21.14	21.12				
10	64QAM	1	0	21.21	21.20	21.13				
10	64QAM	1	25	21.14	21.16	21.19	22	2		
10	64QAM	1	49	21.14	21.21	21.14				
10	64QAM	25	0	20.20	20.26	20.20				
10	64QAM	25	12	20.23	20.11	20.10	21	3		
10	64QAM	25	25	20.19	20.20	20.15				
10	64QAM	50	0	20.11	20.22	20.15				
10	256QAM	1	0	18.20	18.24	18.18				
10	256QAM	1	25	18.25	18.15	18.19	19	5		
10	256QAM	1	49	18.15	18.20	18.02				
10	256QAM	25	0	18.16	18.20	18.20				
10	256QAM	25	12	18.16	18.15	18.15				
10	256QAM	25	25	18.11	18.16	18.14	19	5		
10	256QAM	50	0	18.18	18.24	18.16				
Channel				37775	38000	38225				
Frequency (MHz)				23225	2325	2317.5				
5	QPSK	1	0	23.12	23.26	23.16	24	0		
5	QPSK	1	12	23.12	23.25	23.08				
5	QPSK	1	24	23.12	23.22	23.16				
5	QPSK	12	0	22.21	22.14	22.19				
5	QPSK	12	7	22.24	22.15	22.22	23	1		
5	QPSK	12	13	22.09	22.28	22.17				
5	QPSK	25	0	22.11	22.16	22.17				
5	16QAM	1	0	22.17	22.15	22.27				
5	16QAM	1	12	22.09	22.21	22.14	23	1		
5	16QAM	1	24	22.16	22.22	22.10				
5	16QAM	12	0	21.16	21.18	21.17				
5	16QAM	12	7	21.20	21.16	21.24	22	2		
5	16QAM	12	13	21.12	21.27	21.18				
5	16QAM	25	0	21.14	21.12	21.20				
5	64QAM	1	0	21.23	21.17	21.15				
5	64QAM	1	12	21.15	21.25	21.16	22	2		
5	64QAM	1	24	21.20	21.22	21.06				
5	64QAM	12	0	20.25	20.23	20.26				
5	64QAM	12	7	20.20	20.10	20.07	21	3		
5	64QAM	12	13	20.18	20.20	20.19				
5	64QAM	25	0	20.12	20.14	20.19				
5	256QAM	1	0	18.14	18.21	18.19				
5	256QAM	1	12	18.23	18.16	18.17	19	5		
5	256QAM	1	24	18.14	18.15	18.09				
5	256QAM	12	0	18.18	18.14	18.21				
5	256QAM	12	7	18.15	18.13	18.13	19	5		
5	256QAM	12	13	18.07	18.17	18.23				
5	256QAM	25	0	18.20	18.15	18.23				

Band 41 other PA Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Low Middle Ch. / Freq	Power Middle Ch. / Freq	Power High Middle Ch. / Freq	Power Low Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.21	23.29	23.30	23.28	23.25		
20	QPSK	1	49	23.25	23.27	23.28	23.22	23.19	24	0
20	QPSK	1	99	23.20	23.26	23.28	23.25	23.16		
20	QPSK	50	0	22.16	22.32	22.31	22.26	22.24		
20	QPSK	50	24	22.19	22.28	22.30	22.34	22.20	23	1
20	QPSK	50	50	22.21	22.29					



Reduced Power Mode for DSI1

Table with 12 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch/Freq, Power High Ch/Freq, Power Mid Ch/Freq, Power High Ch/Freq, Turn-up (ms), MPR (dB). Contains data for Band 2 other PA Ant 2 DSI 1.

Table with 12 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch/Freq, Power High Ch/Freq, Power Mid Ch/Freq, Power High Ch/Freq, Turn-up (ms), MPR (dB). Contains data for Band 4 other PA Ant 2 DSI 1.

Table with 12 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch/Freq, Power High Ch/Freq, Power Mid Ch/Freq, Power High Ch/Freq, Turn-up (ms), MPR (dB). Contains data for Band 7 other PA Ant 2 DSI 1.

Table with 12 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch/Freq, Power High Ch/Freq, Power Mid Ch/Freq, Power High Ch/Freq, Turn-up (ms), MPR (dB). Contains data for Band 66 other PA Ant 2 DSI 1.



Band 38 other PA Ant 2 DSI 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power 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	22.25	22.30	22.23				
20	QPSK	1	49	22.16	22.16	22.18	23	0		
20	QPSK	1	99	22.12	22.17	22.16				
20	QPSK	50	0	22.18	22.24	22.12				
20	QPSK	50	24	22.16	22.22	22.09				
20	QPSK	50	50	22.16	22.19	22.13	23	0		
20	16QAM	100	0	22.22	22.21	22.10				
20	16QAM	1	0	22.13	22.20	22.17	23	0		
20	16QAM	1	49	22.15	22.20	22.11				
20	16QAM	50	24	21.15	21.19	21.04	22	1		
20	16QAM	50	50	21.21	21.13	21.13				
20	16QAM	100	0	21.19	21.23	21.13				
20	64QAM	1	0	21.13	21.20	21.17				
20	64QAM	1	49	21.11	21.22	21.11	22	1		
20	64QAM	1	99	21.08	21.17	21.07				
20	64QAM	50	0	20.19	20.26	20.15				
20	64QAM	50	24	20.18	20.20	20.09	21	2		
20	64QAM	50	50	20.18	20.14	20.17				
20	64QAM	100	0	20.24	20.15	20.06				
20	256QAM	1	0	18.23	18.22	18.15				
20	256QAM	1	49	18.15	18.21	18.06	19	4		
20	256QAM	1	99	18.16	18.25	18.11				
20	256QAM	50	0	18.26	18.26	18.14				
20	256QAM	50	24	18.15	18.19	18.21	19	4		
20	256QAM	50	50	18.21	18.18	18.17				
20	256QAM	100	0	18.03	18.20	18.06				
Channel				37825	38000	38175				
Frequency (MHz)				25775	25925	26125				
15	QPSK	1	0	22.14	22.21	22.12				
15	QPSK	1	37	22.11	22.06	22.09	23	0		
15	QPSK	1	74	22.09	22.06	22.13				
15	QPSK	36	0	22.08	22.11	22.02				
15	QPSK	36	20	22.07	22.19	22.03	23	0		
15	QPSK	36	39	22.02	22.07	22.10				
15	QPSK	75	0	22.12	22.17	22.06				
15	16QAM	1	0	22.01	22.06	22.04				
15	16QAM	1	37	22.07	22.08	22.05	23	0		
15	16QAM	1	74	22.03	22.07	22.06				
15	16QAM	36	0	21.07	21.08	21.03				
15	16QAM	36	20	21.11	21.10	21.02	22	1		
15	16QAM	36	39	21.12	20.99	21.10				
15	16QAM	75	0	21.14	21.10	21.07				
15	64QAM	1	0	21.07	21.18	21.09				
15	64QAM	1	37	21.03	21.17	21.05	22	1		
15	64QAM	1	74	21.00	21.09	21.05				
15	64QAM	36	0	20.10	20.19	20.02				
15	64QAM	36	20	20.10	20.18	20.03	21	2		
15	64QAM	36	39	20.12	20.07	20.08				
15	64QAM	75	0	20.10	20.01	20.00				
15	256QAM	1	0	18.14	18.09	18.04				
15	256QAM	1	37	18.10	18.09	17.95	19	4		
15	256QAM	1	74	18.03	18.17	18.07				
15	256QAM	36	0	18.21	18.12	18.04				
15	256QAM	36	20	18.05	18.06	18.09	19	4		
15	256QAM	36	39	18.11	18.12	18.13				
15	256QAM	75	0	17.94	18.14	17.99				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.22	22.24	22.18				
10	QPSK	1	25	22.09	22.09	22.12	23	0		
10	QPSK	1	49	22.10	22.13	22.06				
10	QPSK	25	0	22.11	22.12	22.00				
10	QPSK	25	12	22.02	22.17	22.01	23	0		
10	QPSK	25	25	22.06	22.15	22.05				
10	QPSK	50	0	22.09	22.14	21.99				
10	16QAM	1	0	22.04	22.12	22.04	23	0		
10	16QAM	1	25	22.11	22.16	22.06				
10	16QAM	1	49	22.03	22.09	22.04				
10	16QAM	25	0	21.09	21.10	21.04				
10	16QAM	25	12	21.10	21.10	20.97	22	1		
10	16QAM	25	25	21.09	21.06	21.07				
10	16QAM	50	0	21.15	21.10	21.07				
10	64QAM	1	0	21.03	21.13	21.14				
10	64QAM	1	25	21.03	21.16	20.98	22	1		
10	64QAM	1	49	21.04	21.06	21.00				
10	64QAM	25	0	20.12	20.19	20.13				
10	64QAM	25	12	20.12	20.14	19.98	21	2		
10	64QAM	25	25	20.15	20.02	20.05				
10	64QAM	50	0	20.15	20.06	20.00				
10	256QAM	1	0	18.10	18.08	18.09				
10	256QAM	1	25	18.10	18.12	17.96	19	4		
10	256QAM	1	49	18.09	18.18	18.03				
10	256QAM	25	0	18.16	18.14	18.02				
10	256QAM	25	12	18.04	18.14	18.19	19	4		
10	256QAM	25	25	18.19	18.06	18.03				
10	256QAM	50	0	17.99	18.17	18.00				
Channel				37775	38000	38225				
Frequency (MHz)				25725	2595	26175				
5	QPSK	1	0	22.16	22.19	22.16				
5	QPSK	1	12	22.09	22.06	22.06	23	0		
5	QPSK	1	24	22.07	22.15	22.09				
5	QPSK	12	0	22.14	22.20	22.05				
5	QPSK	12	7	22.05	22.12	22.04	23	0		
5	QPSK	12	13	22.11	22.10	22.09				
5	QPSK	25	0	22.10	22.13	22.01				
5	16QAM	1	0	22.03	22.15	22.05				
5	16QAM	1	12	22.08	22.17	22.07	23	0		
5	16QAM	1	24	21.97	22.10	22.00				
5	16QAM	12	0	21.12	21.13	21.00				
5	16QAM	12	7	21.09	21.13	21.00	22	1		
5	16QAM	12	13	21.09	21.01	21.03				
5	16QAM	25	0	21.08	21.18	21.09				
5	64QAM	1	0	21.08	21.10	21.13				
5	64QAM	1	12	21.03	21.11	20.98	22	1		
5	64QAM	1	24	20.97	21.09	21.04				
5	64QAM	12	0	20.06	20.15	20.07				
5	64QAM	12	7	20.14	20.07	19.97	21	2		
5	64QAM	12	13	20.11	20.10	20.04				
5	64QAM	25	0	20.15	20.12	19.99				
5	256QAM	1	0	18.15	18.16	18.10				
5	256QAM	1	12	18.10	18.16	17.97	19	4		
5	256QAM	1	24	18.13	18.18	18.06				
5	256QAM	12	0	18.18	18.20	18.06				
5	256QAM	12	7	18.06	18.09	18.10	19	4		
5	256QAM	12	13	18.14	18.04	18.12				
5	256QAM	25	0	17.93	18.13	17.97				

Band 41 other PA Ant 2 DSI 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2566	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.71	22.75	22.79	22.73	22.68		
20	QPSK	1	49	22.61	22.63	22.69	22.64	22.62	23.5	0
20	QPSK	1	99	22.66	22.16	22.72	22.66	22.54		
20	QPSK	50	0	22.25	22.28	22.31	22.23	22.25		
20	QPSK	50	24	22.26	22.21	22.30	22.18	22.28	23	0.5
20	QPSK	50	50	22.16	22.27	22.24	22.18	22.25		
20	QPSK	100	0	22.17	22.23	22.28	22.17	22.24		
20	16QAM	1	0	22.23	22.19	22.25	22.15	22.19		
20	16QAM	1	49	22.20	22.20	22.22	22.15	22.18	23	0.5
20	16									



Reduced Power Mode for DS1_ENDC

Table with columns: Band 2 other PA Ant 2 DSI 1 for ENDC, BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Mids, Power High, Turn-up, MPR, and MPR (dB). Contains multiple rows of frequency and power data.

Table with columns: Band 4 other PA Ant 2 DSI 1 for ENDC, BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Mids, Power High, Turn-up, MPR, and MPR (dB). Contains multiple rows of frequency and power data.

Table with columns: Band 7 other PA Ant 2 DSI 1 for ENDC, BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Mids, Power High, Turn-up, MPR, and MPR (dB). Contains multiple rows of frequency and power data.

Table with columns: Band 66 other PA Ant 2 DSI 1 for ENDC, BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Mids, Power High, Turn-up, MPR, and MPR (dB). Contains multiple rows of frequency and power data.



Band 38 other PA Ant 2 DSI 1 for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Middle Ch. / Freq	Power Low Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	22.23	22.30	22.23	23	0		
20	QPSK	1	49	22.24	22.25	22.14				
20	QPSK	1	99	22.14	22.24	22.16				
20	QPSK	50	0	22.23	22.24	22.22				
20	QPSK	50	24	22.25	22.22	22.24				
20	QPSK	50	50	22.19	22.25	22.21	23	0		
20	QPSK	100	0	22.18	22.20	22.23				
20	16QAM	1	0	22.23	22.22	22.27				
20	16QAM	1	49	22.18	22.25	22.24	23	0		
20	16QAM	1	99	22.17	22.23	22.18				
20	16QAM	50	0	21.19	21.30	21.27				
20	16QAM	50	24	21.26	21.21	21.28	22	1		
20	16QAM	50	50	21.15	21.33	21.20				
20	16QAM	100	0	21.16	21.23	21.20				
20	64QAM	1	0	21.26	21.22	21.24				
20	64QAM	1	49	21.21	21.28	21.19	22	1		
20	64QAM	1	99	21.23	21.22	21.15				
20	64QAM	50	0	20.27	20.29	20.27				
20	64QAM	50	24	20.29	20.18	20.18	21	2		
20	64QAM	50	50	20.25	20.31	20.26				
20	64QAM	100	0	20.18	20.23	20.20				
20	256QAM	1	0	18.25	18.32	18.23				
20	256QAM	1	49	18.25	18.21	18.21	19	4		
20	256QAM	1	99	18.22	18.25	18.13				
20	256QAM	50	0	18.23	18.25	18.27				
20	256QAM	50	24	18.25	18.19	18.24	19	4		
20	256QAM	50	50	18.18	18.27	18.26				
20	256QAM	100	0	18.21	18.28	18.24				
Channel				37825	38000	38175				
Frequency (MHz)				25775	25925	26125				
15	QPSK	1	0	22.22	22.27	22.16	23	0		
15	QPSK	1	37	22.21	22.24	22.03				
15	QPSK	1	74	22.06	22.16	22.12				
15	QPSK	36	0	22.22	22.20	22.22				
15	QPSK	36	20	22.22	22.11	22.19	23	0		
15	QPSK	36	39	22.08	22.21	22.17				
15	QPSK	75	0	22.14	22.18	22.20				
15	16QAM	1	0	22.13	22.19	22.18				
15	16QAM	1	37	22.11	22.12	22.14	23	0		
15	16QAM	1	74	22.17	22.20	22.16				
15	16QAM	36	0	21.17	21.25	21.25				
15	16QAM	36	20	21.24	21.09	21.21	22	1		
15	16QAM	36	39	21.06	21.29	21.10				
15	16QAM	75	0	21.13	21.23	21.18				
15	64QAM	1	0	21.23	21.22	21.19				
15	64QAM	1	37	21.21	21.18	21.09	22	1		
15	64QAM	1	74	21.22	21.20	21.06				
15	64QAM	36	0	20.20	20.29	20.21				
15	64QAM	36	20	20.29	20.07	20.10	21	2		
15	64QAM	36	39	20.14	20.25	20.21				
15	64QAM	75	0	20.17	20.20	20.20				
15	256QAM	1	0	18.17	18.24	18.23				
15	256QAM	1	37	18.26	18.12	18.17	19	4		
15	256QAM	1	74	18.20	18.14	18.11				
15	256QAM	36	0	18.23	18.16	18.17				
15	256QAM	36	20	18.22	18.16	18.24	19	4		
15	256QAM	36	39	18.16	18.16	18.26				
15	256QAM	75	0	18.21	18.15	18.14				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.20	22.29	22.15	23	0		
10	QPSK	1	25	22.23	22.25	22.10				
10	QPSK	1	49	22.09	22.19	22.09				
10	QPSK	25	0	22.16	22.13	22.13				
10	QPSK	25	12	22.13	22.14	22.16	23	0		
10	QPSK	25	25	22.16	22.28	22.12				
10	QPSK	50	0	22.12	22.09	22.11				
10	16QAM	1	0	22.12	22.15	22.22	23	0		
10	16QAM	1	25	22.12	22.19	22.17				
10	16QAM	1	49	22.10	22.16	22.12				
10	16QAM	25	0	21.10	21.24	21.26				
10	16QAM	25	12	21.15	21.15	21.25	22	1		
10	16QAM	25	25	21.10	21.27	21.18				
10	16QAM	50	0	21.06	21.14	21.12				
10	64QAM	1	0	21.21	21.20	21.13				
10	64QAM	1	25	21.14	21.16	21.19	22	1		
10	64QAM	1	49	21.14	21.21	21.14				
10	64QAM	25	0	20.20	20.26	20.20				
10	64QAM	25	12	20.23	20.11	20.10	21	2		
10	64QAM	25	25	20.19	20.20	20.15				
10	64QAM	50	0	20.11	20.22	20.15				
10	256QAM	1	0	18.20	18.24	18.18				
10	256QAM	1	25	18.25	18.15	18.19	19	4		
10	256QAM	1	49	18.15	18.20	18.02				
10	256QAM	25	0	18.16	18.20	18.20				
10	256QAM	25	12	18.16	18.15	18.15	19	4		
10	256QAM	25	25	18.11	18.16	18.14				
10	256QAM	50	0	18.18	18.24	18.16				
Channel				37775	38000	38225				
Frequency (MHz)				25725	2595	26175				
5	QPSK	1	0	22.20	22.29	22.19	23	0		
5	QPSK	1	12	22.24	22.23	22.07				
5	QPSK	1	24	22.07	22.18	22.12				
5	QPSK	12	0	22.21	22.14	22.19				
5	QPSK	12	7	22.24	22.15	22.22	23	0		
5	QPSK	12	13	22.09	22.28	22.17				
5	QPSK	25	0	22.11	22.16	22.17				
5	16QAM	1	0	22.17	22.15	22.27				
5	16QAM	1	12	22.09	22.21	22.14	23	0		
5	16QAM	1	24	22.16	22.22	22.10				
5	16QAM	12	0	21.16	21.18	21.17				
5	16QAM	12	7	21.20	21.16	21.24	22	1		
5	16QAM	12	13	21.12	21.27	21.18				
5	16QAM	25	0	21.14	21.12	21.20				
5	64QAM	1	0	21.23	21.17	21.15				
5	64QAM	1	12	21.15	21.25	21.16	22	1		
5	64QAM	1	24	21.20	21.22	21.06				
5	64QAM	12	0	20.25	20.23	20.26				
5	64QAM	12	7	20.20	20.10	20.07	21	2		
5	64QAM	12	13	20.18	20.21	20.21				
5	64QAM	25	0	20.12	20.14	20.19				
5	256QAM	1	0	18.14	18.21	18.18				
5	256QAM	1	12	18.23	18.16	18.17	19	4		
5	256QAM	1	24	18.14	18.15	18.09				
5	256QAM	12	0	18.18	18.14	18.21				
5	256QAM	12	7	18.15	18.13	18.13	19	4		
5	256QAM	12	13	18.07	18.17	18.23				
5	256QAM	25	0	18.20	18.15	18.23				

Band 41 other PA Ant 2 DSI 1 for ENDC										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Low Middle Ch. / Freq	Power Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40165	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.66	22.73	22.79	22.76	22.74	23.5	0
20	QPSK	1	49	22.70	22.76	22.77	22.72	22.63		
20	QPSK	1	99	22.69	22.74	22.74	22.68	22.67		
20	QPSK	50	0	22.16	22.32	22.31	22.26	22.24		
20	QPSK	50	24	22.19	22.28	22.30	22.34	22.20	23	0.5
20	QPSK	50	50	22						



Reduced Power Mode for DSI2

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, T-Setup (ns), T-MPR (dB). Contains data for Band 2 other PA Ant 2 DSI 2.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, T-Setup (ns), T-MPR (dB). Contains data for Band 4 other PA Ant 2 DSI 2.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, T-Setup (ns), T-MPR (dB). Contains data for Band 7 other PA Ant 2 DSI 2.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, T-Setup (ns), T-MPR (dB). Contains data for Band 66 other PA Ant 2 DSI 2.



Band 38 other PA Ant 2 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Middle Ch. / Freq	Power Low Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.21	23.28	23.22				
20	QPSK	1	49	23.20	23.26	23.19	24	0		
20	QPSK	1	99	23.20	23.26	23.18				
20	QPSK	50	0	22.23	22.24	22.22				
20	QPSK	50	24	22.25	22.22	22.24				
20	QPSK	50	50	22.19	22.30	22.21	23	1		
20	QPSK	100	0	22.18	22.20	22.23				
20	16QAM	1	0	22.23	22.26	22.18				
20	16QAM	1	49	22.18	22.25	22.24	23	1		
20	16QAM	1	99	22.17	22.23	22.18				
20	16QAM	50	0	21.19	21.30	21.27				
20	16QAM	50	24	21.26	21.21	21.28	22	2		
20	16QAM	50	50	21.15	21.33	21.20				
20	16QAM	100	0	21.16	21.23	21.20				
20	64QAM	1	0	21.26	21.22	21.24				
20	64QAM	1	49	21.21	21.28	21.19	22	2		
20	64QAM	1	99	21.23	21.22	21.15				
20	64QAM	50	0	20.27	20.29	20.27				
20	64QAM	50	24	20.29	20.18	20.18	21	3		
20	64QAM	50	50	20.25	20.31	20.26				
20	64QAM	100	0	20.18	20.23	20.20				
20	256QAM	1	0	18.25	18.32	18.23				
20	256QAM	1	49	18.25	18.21	18.21	19	5		
20	256QAM	1	99	18.22	18.25	18.13				
20	256QAM	50	0	18.23	18.25	18.27				
20	256QAM	50	24	18.25	18.19	18.24	19	5		
20	256QAM	50	50	18.18	18.27	18.26				
20	256QAM	100	0	18.21	18.28	18.24				
Channel				37825	38000	38175				
Frequency (MHz)				25775	2592	2592.5				
15	QPSK	1	0	23.19	23.24	23.17	24	0		
15	QPSK	1	37	23.19	23.23	23.14				
15	QPSK	1	74	23.19	23.25	23.17				
15	QPSK	36	0	22.22	22.20	22.22				
15	QPSK	36	20	22.22	22.11	22.19	23	1		
15	QPSK	36	39	22.08	22.21	22.17				
15	QPSK	75	0	22.14	22.18	22.20				
15	16QAM	1	0	22.13	22.19	22.18				
15	16QAM	1	37	22.11	22.12	22.14	23	1		
15	16QAM	1	74	22.17	22.20	22.16				
15	16QAM	36	0	21.17	21.25	21.25				
15	16QAM	36	20	21.24	21.09	21.21	22	2		
15	16QAM	36	39	21.06	21.29	21.10				
15	16QAM	75	0	21.13	21.23	21.18				
15	64QAM	1	0	21.23	21.22	21.19				
15	64QAM	1	37	21.21	21.18	21.09	22	2		
15	64QAM	1	74	21.22	21.20	21.06				
15	64QAM	36	0	20.20	20.29	20.21				
15	64QAM	36	20	20.29	20.07	20.10	21	3		
15	64QAM	36	39	20.14	20.25	20.21				
15	64QAM	75	0	20.17	20.20	20.20				
15	256QAM	1	0	18.17	18.24	18.23				
15	256QAM	1	37	18.26	18.12	18.17	19	5		
15	256QAM	1	74	18.20	18.14	18.11				
15	256QAM	36	0	18.23	18.16	18.17				
15	256QAM	36	20	18.22	18.16	18.24	19	5		
15	256QAM	36	39	18.16	18.16	18.26				
15	256QAM	75	0	18.21	18.15	18.14				
Channel				37820	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.13	23.23	23.16	24	0		
10	QPSK	1	25	23.18	23.15	23.08				
10	QPSK	1	49	23.20	23.15	23.14				
10	QPSK	25	0	22.15	22.13	22.13				
10	QPSK	25	12	22.13	22.14	22.16	23	1		
10	QPSK	25	25	22.16	22.28	22.12				
10	QPSK	50	0	22.12	22.09	22.11				
10	16QAM	1	0	22.12	22.15	22.22	23	1		
10	16QAM	1	49	22.12	22.19	22.17				
10	16QAM	1	99	22.10	22.16	22.12				
10	16QAM	25	0	21.10	21.24	21.26				
10	16QAM	25	12	21.15	21.15	21.25	22	2		
10	16QAM	25	25	21.10	21.27	21.18				
10	16QAM	50	0	21.06	21.14	21.12				
10	64QAM	1	0	21.21	21.20	21.13				
10	64QAM	1	25	21.14	21.16	21.19	22	2		
10	64QAM	1	49	21.14	21.21	21.14				
10	64QAM	25	0	20.20	20.26	20.20				
10	64QAM	25	12	20.23	20.11	20.10	21	3		
10	64QAM	25	25	20.19	20.20	20.15				
10	64QAM	50	0	20.11	20.22	20.15				
10	256QAM	1	0	18.20	18.24	18.18				
10	256QAM	1	25	18.25	18.15	18.19	19	5		
10	256QAM	1	49	18.15	18.20	18.02				
10	256QAM	25	0	18.16	18.20	18.20				
10	256QAM	25	12	18.16	18.15	18.15				
10	256QAM	25	25	18.11	18.16	18.14	19	5		
10	256QAM	50	0	18.18	18.24	18.16				
Channel				37775	38000	38225				
Frequency (MHz)				23225	2325	2317.5				
5	QPSK	1	0	23.12	23.26	23.16	24	0		
5	QPSK	1	12	23.12	23.25	23.08				
5	QPSK	1	24	23.12	23.22	23.16				
5	QPSK	12	0	22.21	22.14	22.19				
5	QPSK	12	7	22.24	22.15	22.22	23	1		
5	QPSK	12	13	22.09	22.26	22.17				
5	QPSK	25	0	22.11	22.28	22.17				
5	16QAM	1	0	22.17	22.15	22.27				
5	16QAM	1	12	22.09	22.21	22.14	23	1		
5	16QAM	1	24	22.16	22.22	22.10				
5	16QAM	12	0	21.16	21.18	21.17				
5	16QAM	12	7	21.20	21.16	21.24	22	2		
5	16QAM	12	13	21.12	21.27	21.18				
5	16QAM	25	0	21.14	21.12	21.20				
5	64QAM	1	0	21.23	21.17	21.15				
5	64QAM	1	12	21.15	21.25	21.16	22	2		
5	64QAM	1	24	21.20	21.22	21.06				
5	64QAM	12	0	20.25	20.23	20.26				
5	64QAM	12	7	20.20	20.10	20.07	21	3		
5	64QAM	12	13	20.18	20.21	20.21				
5	64QAM	25	0	20.12	20.14	20.19				
5	256QAM	1	0	18.14	18.21	18.18				
5	256QAM	1	12	18.23	18.16	18.17	19	5		
5	256QAM	1	24	18.14	18.15	18.09				
5	256QAM	12	0	18.18	18.14	18.21				
5	256QAM	12	7	18.15	18.13	18.13	19	5		
5	256QAM	12	13	18.07	18.17	18.23				
5	256QAM	25	0	18.20	18.15	18.23				

Band 41 other PA Ant 2 DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Low Middle Ch. / Freq	Power Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40165	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.21	23.29	23.30	23.28	23.25		
20	QPSK	1	49	23.25	23.27	23.28	23.22	23.19	24	0
20	QPSK	1	99	23.20	23.26	23.28	23.25	23.16		
20	QPSK	50	0	22.16	22.32	22.31	22.26	22.24		
20	QPSK	50	24	22.19	22.28	22.30	22.34	22.20	23	1
20	QPSK	50	50	22.21	22.29	22.29	22.21	22.16		
20	QPSK	100	0	22.15	22.22	22.26	22.25	22.12		
20	16QAM	1	0	22.26	22.33	22.28	22.30			



Band 38 other PA Ant 2 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Middle Ch. / Freq	Power Low Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.21	23.28	23.22				
20	QPSK	1	49	23.20	23.26	23.19	24	0		
20	QPSK	1	99	23.20	23.26	23.18				
20	QPSK	50	0	22.23	22.24	22.22				
20	QPSK	50	24	22.25	22.22	22.24				
20	QPSK	50	50	22.19	22.30	22.21	23	1		
20	QPSK	100	0	22.18	22.20	22.23				
20	16QAM	1	0	22.23	22.26	22.18				
20	16QAM	1	49	22.18	22.25	22.24	23	1		
20	16QAM	1	99	22.17	22.23	22.18				
20	16QAM	50	0	21.19	21.30	21.27				
20	16QAM	50	24	21.26	21.21	21.28	22	2		
20	16QAM	50	50	21.15	21.33	21.20				
20	16QAM	100	0	21.16	21.23	21.20				
20	64QAM	1	0	21.26	21.22	21.24				
20	64QAM	1	49	21.21	21.28	21.19	22	2		
20	64QAM	1	99	21.23	21.22	21.15				
20	64QAM	50	0	20.27	20.29	20.27				
20	64QAM	50	24	20.29	20.18	20.18	21	3		
20	64QAM	50	50	20.25	20.31	20.26				
20	64QAM	100	0	20.18	20.23	20.20				
20	256QAM	1	0	18.25	18.32	18.23				
20	256QAM	1	49	18.25	18.21	18.21	19	5		
20	256QAM	1	99	18.22	18.25	18.13				
20	256QAM	50	0	18.23	18.25	18.27				
20	256QAM	50	24	18.25	18.19	18.24	19	5		
20	256QAM	50	50	18.18	18.27	18.26				
20	256QAM	100	0	18.21	18.28	18.24				
Channel				37825	38000	38175				
Frequency (MHz)				25775	2592	2592.5				
15	QPSK	1	0	23.19	23.24	23.17	24	0		
15	QPSK	1	37	23.19	23.23	23.14				
15	QPSK	1	74	23.19	23.25	23.17				
15	QPSK	36	0	22.22	22.20	22.22				
15	QPSK	36	20	22.22	22.11	22.19	23	1		
15	QPSK	36	39	22.08	22.21	22.17				
15	QPSK	75	0	22.14	22.18	22.20				
15	16QAM	1	0	22.13	22.19	22.18				
15	16QAM	1	37	22.11	22.12	22.14	23	1		
15	16QAM	1	74	22.17	22.20	22.16				
15	16QAM	36	0	21.17	21.25	21.25				
15	16QAM	36	20	21.24	21.09	21.21	22	2		
15	16QAM	36	39	21.06	21.29	21.10				
15	16QAM	75	0	21.13	21.23	21.18				
15	64QAM	1	0	21.23	21.22	21.19				
15	64QAM	1	37	21.21	21.18	21.09	22	2		
15	64QAM	1	74	21.22	21.20	21.06				
15	64QAM	36	0	20.20	20.29	20.21				
15	64QAM	36	20	20.29	20.07	20.10	21	3		
15	64QAM	36	39	20.14	20.25	20.21				
15	64QAM	75	0	20.17	20.20	20.20				
15	256QAM	1	0	18.17	18.24	18.23				
15	256QAM	1	37	18.26	18.12	18.17	19	5		
15	256QAM	1	74	18.20	18.14	18.11				
15	256QAM	36	0	18.23	18.16	18.17				
15	256QAM	36	20	18.22	18.16	18.24	19	5		
15	256QAM	36	39	18.16	18.16	18.26				
15	256QAM	75	0	18.21	18.15	18.14				
Channel				37820	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.13	23.23	23.16	24	0		
10	QPSK	1	25	23.18	23.15	23.08				
10	QPSK	1	49	23.20	23.15	23.14				
10	QPSK	25	0	22.15	22.13	22.13				
10	QPSK	25	12	22.13	22.14	22.16	23	1		
10	QPSK	25	25	22.16	22.28	22.12				
10	QPSK	50	0	22.12	22.09	22.11				
10	16QAM	1	0	22.12	22.15	22.22	23	1		
10	16QAM	1	49	22.12	22.19	22.17				
10	16QAM	1	99	22.10	22.16	22.12				
10	16QAM	25	0	21.10	21.24	21.26				
10	16QAM	25	12	21.15	21.15	21.25	22	2		
10	16QAM	25	25	21.10	21.27	21.18				
10	16QAM	50	0	21.06	21.14	21.12				
10	64QAM	1	0	21.21	21.20	21.13				
10	64QAM	1	25	21.14	21.16	21.19	22	2		
10	64QAM	1	49	21.14	21.21	21.14				
10	64QAM	25	0	20.20	20.26	20.20				
10	64QAM	25	12	20.23	20.11	20.10	21	3		
10	64QAM	25	25	20.19	20.20	20.15				
10	64QAM	50	0	20.11	20.22	20.15				
10	256QAM	1	0	18.20	18.24	18.18				
10	256QAM	1	25	18.25	18.15	18.19	19	5		
10	256QAM	1	49	18.15	18.20	18.02				
10	256QAM	25	0	18.16	18.20	18.20				
10	256QAM	25	12	18.16	18.15	18.15				
10	256QAM	25	25	18.11	18.16	18.14	19	5		
10	256QAM	50	0	18.18	18.24	18.16				
Channel				37775	38000	38225				
Frequency (MHz)				23225	2325	2317.5				
5	QPSK	1	0	23.12	23.26	23.16	24	0		
5	QPSK	1	12	23.12	23.25	23.08				
5	QPSK	1	24	23.12	23.22	23.16				
5	QPSK	12	0	22.21	22.14	22.19				
5	QPSK	12	7	22.24	22.15	22.22	23	1		
5	QPSK	12	13	22.09	22.26	22.17				
5	QPSK	25	0	22.11	22.18	22.17				
5	16QAM	1	0	22.17	22.15	22.27				
5	16QAM	1	12	22.09	22.21	22.14	23	1		
5	16QAM	1	24	22.16	22.22	22.10				
5	16QAM	12	0	21.16	21.18	21.17				
5	16QAM	12	7	21.20	21.16	21.24	22	2		
5	16QAM	12	13	21.12	21.27	21.18				
5	16QAM	25	0	21.14	21.12	21.20				
5	64QAM	1	0	21.23	21.17	21.15				
5	64QAM	1	12	21.15	21.25	21.16	22	2		
5	64QAM	1	24	21.20	21.22	21.06				
5	64QAM	12	0	20.25	20.23	20.26				
5	64QAM	12	7	20.20	20.10	20.07	21	3		
5	64QAM	12	13	20.18	20.21	20.21				
5	64QAM	25	0	20.12	20.14	20.19				
5	256QAM	1	0	18.14	18.21	18.19				
5	256QAM	1	12	18.23	18.16	18.17	19	5		
5	256QAM	1	24	18.14	18.15	18.09				
5	256QAM	12	0	18.18	18.14	18.21				
5	256QAM	12	7	18.15	18.13	18.13	19	5		
5	256QAM	12	13	18.07	18.17	18.23				
5	256QAM	25	0	18.20	18.15	18.23				

Band 41 other PA Ant 2 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power High Ch. / Freq	Power Low Middle Ch. / Freq	Power Middle Ch. / Freq	Power High Middle Ch. / Freq	Power Low Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.21	23.29	23.30	23.28	23.25		
20	QPSK	1	49	23.25	23.27	23.28	23.22	23.19	24	0
20	QPSK	1	99	23.20	23.26	23.28	23.25	23.16		
20	QPSK	50	0	22.16	22.32	22.31	22.26	22.24		
20	QPSK	50	24	22.19	22.28	22.30	22.34	22.20	23	1
20	QPSK	50	50	22.21						



Reduced Power Mode for DSI4

Band 2 other PA Ant 2 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hch./F.Freq.	Power Lch./F.Freq.	Turn-up (sec)	MFR (dB)	
Channel									
20	QPSK	1	0	19.04	19.06	18.99	20	0	
20	QPSK	1	6	18.92	18.94	18.99	20	0	
20	QPSK	1	12	18.81	18.85	18.92	20	0	
20	QPSK	50	0	18.97	19.00	18.96	20	0	
20	QPSK	50	6	18.86	18.96	18.94	20	0	
20	QPSK	50	12	18.69	18.83	18.88	20	0	
20	QPSK	100	0	18.65	18.97	18.89	20	0	
20	QPSK	100	6	18.57	18.94	18.99	20	0	
20	HQAM	1	49	18.83	18.86	18.85	20	0	
20	HQAM	1	99	18.87	18.84	18.80	20	0	
20	HQAM	50	0	18.98	18.90	18.91	20	0	
20	HQAM	50	24	18.82	18.88	18.88	20	0	
20	HQAM	50	50	18.87	18.82	18.79	20	0	
20	HQAM	100	0	18.85	18.87	18.78	20	0	
20	HQAM	100	24	18.91	18.93	18.94	20	0	
20	HQAM	1	49	18.86	18.88	18.92	20	0	
20	HQAM	1	99	18.87	18.90	18.87	20	0	
20	HQAM	50	24	18.84	18.83	18.80	20	0	
20	HQAM	50	50	18.85	18.87	18.78	20	0	
20	HQAM	100	0	18.82	18.87	18.78	20	0	
20	HQAM	100	24	18.92	18.96	18.96	20	0	
20	HQAM	1	99	17.92	17.96	17.87	19	1	
20	HQAM	1	49	17.82	17.92	17.87	19	1	
20	HQAM	50	24	17.99	18.00	17.95	19	1	
20	HQAM	50	50	17.93	17.92	17.85	19	1	
20	HQAM	100	0	17.92	17.96	17.86	19	1	
Channel									
15	QPSK	1	0	18.97	18.90	18.92	20	0	
15	QPSK	1	37	18.97	18.90	19.02	20	0	
15	QPSK	1	0	18.91	18.92	18.86	20	0	
15	QPSK	1	37	18.83	18.83	18.87	20	0	
15	QPSK	1	74	18.79	18.87	18.87	20	0	
15	QPSK	36	0	18.86	18.92	18.76	20	0	
15	QPSK	36	36	18.89	18.90	18.86	20	0	
15	QPSK	75	0	18.82	18.95	18.89	20	0	
15	QPSK	75	36	18.81	18.91	18.81	20	0	
15	HQAM	1	37	18.74	18.81	18.74	20	0	
15	HQAM	1	74	18.78	18.80	18.78	20	0	
15	HQAM	36	0	18.76	18.78	18.71	20	0	
15	HQAM	36	36	18.69	18.76	18.81	20	0	
15	HQAM	75	0	18.85	18.91	18.87	20	0	
15	HQAM	75	36	18.80	18.79	18.68	20	0	
15	HQAM	1	0	18.82	18.91	18.87	20	0	
15	HQAM	1	37	18.79	18.87	18.77	20	0	
15	HQAM	36	0	18.74	18.79	18.77	20	0	
15	HQAM	36	36	18.73	18.81	18.77	20	0	
15	HQAM	75	0	18.86	18.93	18.89	20	0	
15	HQAM	75	36	18.84	18.73	18.75	20	0	
15	HQAM	1	37	17.86	17.84	17.82	19	1	
15	HQAM	1	74	17.80	17.81	17.78	19	1	
15	HQAM	36	0	17.82	17.87	17.81	19	1	
15	HQAM	36	36	17.83	17.89	17.92	19	1	
15	HQAM	75	0	17.87	17.88	17.82	19	1	
Channel									
10	QPSK	1	0	18.93	18.90	18.90	20	0	
10	QPSK	1	49	18.87	18.89	18.81	20	0	
10	QPSK	1	99	18.88	18.87	18.84	20	0	
10	QPSK	25	0	18.79	18.90	18.90	20	0	
10	QPSK	25	25	18.86	18.86	18.79	20	0	
10	HQAM	1	0	18.92	18.90	18.78	20	0	
10	HQAM	1	25	18.76	18.83	18.78	20	0	
10	HQAM	25	0	18.88	18.84	18.69	20	0	
10	HQAM	25	25	18.72	18.84	18.69	20	0	
10	HQAM	1	0	18.77	18.84	18.74	20	0	
10	HQAM	1	25	18.87	18.84	18.74	20	0	
10	HQAM	25	0	18.87	18.89	18.81	20	0	
10	HQAM	25	25	18.85	18.85	18.75	20	0	
10	HQAM	1	49	18.76	18.82	18.68	20	0	
10	HQAM	1	99	18.75	18.86	18.62	20	0	
10	HQAM	25	0	18.79	18.81	18.71	20	0	
10	HQAM	25	25	18.78	18.83	18.69	20	0	
10	HQAM	1	0	18.80	18.87	18.78	20	0	
10	HQAM	1	25	18.82	18.89	18.81	20	0	
10	HQAM	25	0	18.80	18.80	18.83	20	0	
10	HQAM	25	25	18.82	18.85	18.75	20	0	
10	HQAM	1	0	18.87	18.88	18.85	20	0	
10	HQAM	1	12	18.82	18.80	18.83	20	0	
10	HQAM	1	24	18.84	18.84	18.83	20	0	
10	HQAM	1	48	18.83	18.83	18.85	20	0	
10	HQAM	1	96	18.82	18.86	18.88	20	0	
10	HQAM	25	0	18.80	18.87	18.84	20	0	
10	HQAM	25	25	18.79	18.81	18.71	20	0	
10	HQAM	1	0	18.82	18.88	18.88	20	0	
10	HQAM	1	12	18.83	18.87	18.81	20	0	
10	HQAM	1	24	18.87	18.91	18.86	20	0	
10	HQAM	25	0	18.87	18.90	18.86	20	0	
10	HQAM	25	25	18.85	18.88	18.86	20	0	
10	HQAM	1	0	17.82	17.94	17.82	19	1	
10	HQAM	1	24	17.81	17.92	17.82	19	1	
10	HQAM	25	0	17.82	17.90	17.82	19	1	
10	HQAM	25	25	17.86	17.85	17.81	19	1	
10	HQAM	1	0	17.87	17.98	17.72	19	1	
10	HQAM	1	24	17.87	17.98	17.72	19	1	
10	HQAM	25	0	17.87	17.98	17.72	19	1	
10	HQAM	25	25	17.86	17.92	17.72	19	1	
Channel									
5	QPSK	1	0	18.93	18.90	18.90	20	0	
5	QPSK	1	12	18.88	18.83	18.83	20	0	
5	QPSK	1	24	18.78	18.91	18.83	20	0	
5	QPSK	12	0	18.87	18.88	18.85	20	0	
5	QPSK	12	12	18.82	18.88	18.85	20	0	
5	QPSK	12	24	18.80	18.80	18.83	20	0	
5	QPSK	12	36	18.84	18.84	18.83	20	0	
5	HQAM	1	0	18.87	18.83	18.80	20	0	
5	HQAM	1	12	18.75	18.78	18.71	20	0	
5	HQAM	1	24	18.80	18.82	18.79	20	0	
5	HQAM	12	0	18.81	18.80	18.79	20	0	
5	HQAM	12	12	18.76	18.86	18.75	20	0	
5	HQAM	12	24	18.82	18.74	18.74	20	0	
5	HQAM	12	36	18.82	18.77	18.64	20	0	
5	HQAM	1	0	18.82	18.88	18.88	20	0	
5	HQAM	1	12	18.84	18.84	18.84	20	0	
5	HQAM	12	0	18.80	18.87	18.84	20	0	
5	HQAM	12	12	18.82	18.87	18.81	20	0	
5	HQAM	12	24	18.83	18.89	18.82	20	0	
5	HQAM	12	36	18.83	18.79	18.72	20	0	
5	HQAM	1	0	18.82	18.88	18.88	20	0	
5	HQAM	1	12	18.82	18.89	18.86	20	0	
5	HQAM	12	0	18.82	18.87	18.84	20	0	
5	HQAM	12	12	18.83	18.87	18.81	20	0	
5	HQAM	12	24	18.87	18.91	18.86	20	0	
5	HQAM	12	36	18.85	18.88	18.86	20	0	
5	HQAM	1	0	17.82	17.94	17.82	19	1	
5	HQAM	1	12	17.81	17.92	17.82	19	1	
5	HQAM	12	0	17.82	17.90	17.82	19	1	
5	HQAM	12	12	17.86	17.85	17.81	19	1	
5	HQAM	12	24	17.87	17.92	17.74	19	1	
5	HQAM	12	36	17.87	17.94	17.81	19	1	
Channel									
3	QPSK	1	0	18.95	18.92	18.98	20	0	
3	QPSK	1	8	18.84	18.88	18.77	20	0	
3	QPSK	1	14	18.83	18.81	18.78	20	0	
3	QPSK	8	0	18.87	18.96	18.86	20	0	
3	QPSK	8	8	18.82	18.91	18.82	20	0	
3	QPSK	8	14	18.82	18.88	18.81	20	0	
3	HQAM								



Band 38 other PA Ant 2 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	20.25	20.30	20.27				
20	QPSK	1	49	20.16	20.16	20.14	21	0		
20	QPSK	1	99	20.19	20.22	20.20				
20	QPSK	50	0	20.18	20.24	20.22				
20	QPSK	50	24	20.19	20.21	20.14				
20	QPSK	50	50	20.13	20.17	20.20	21	0		
20	QPSK	100	0	20.21	20.21	20.18				
20	16QAM	1	0	20.22	20.17	20.15				
20	16QAM	1	49	20.03	20.14	20.06	21	0		
20	16QAM	1	99	20.14	20.12	20.11				
20	16QAM	50	0	20.06	20.15	20.11				
20	16QAM	50	24	20.05	20.10	20.05				
20	16QAM	50	50	20.09	20.14	20.18				
20	16QAM	100	0	20.04	20.14	20.11				
20	64QAM	1	0	20.19	20.20	20.23				
20	64QAM	1	49	20.14	20.11	20.04	21	0		
20	64QAM	1	99	20.16	20.11	20.14				
20	64QAM	50	0	20.14	20.19	20.15				
20	64QAM	50	24	20.15	20.08	20.03				
20	64QAM	50	50	20.08	20.14	20.18				
20	64QAM	100	0	20.04	20.14	20.11	21	0		
20	256QAM	1	0	18.28	18.25	18.30				
20	256QAM	1	49	18.10	18.21	18.15	19	2		
20	256QAM	1	99	18.14	18.25	18.18				
20	256QAM	50	0	18.21	18.22	18.17				
20	256QAM	50	24	18.20	18.24	18.19	19	2		
20	256QAM	50	50	18.11	18.15	18.20				
20	256QAM	100	0	18.19	18.15	18.21				
Channel				37825	38000	38175				
Frequency (MHz)				25775	25925	26125				
15	QPSK	1	0	20.17	20.21	20.14	21	0		
15	QPSK	1	37	20.03	20.13	20.03				
15	QPSK	1	74	20.09	20.17	20.15				
15	QPSK	36	0	20.07	20.16	20.19				
15	QPSK	36	20	20.12	20.18	20.10	21	0		
15	QPSK	36	39	20.09	20.12	20.07				
15	QPSK	75	0	20.17	20.12	20.10				
15	16QAM	1	0	20.17	20.14	20.09				
15	16QAM	1	37	19.99	20.03	20.04	21	0		
15	16QAM	1	74	20.11	20.01	20.01				
15	16QAM	36	0	19.92	20.03	19.99				
15	16QAM	36	20	19.95	20.01	19.97				
15	16QAM	36	39	20.04	20.03	20.05	21	0		
15	16QAM	75	0	20.05	20.09	20.06				
15	64QAM	1	0	20.16	20.09	20.09				
15	64QAM	1	37	20.11	20.08	19.96	21	0		
15	64QAM	1	74	20.13	20.02	20.01				
15	64QAM	36	0	20.03	20.09	20.03				
15	64QAM	36	20	20.02	20.02	19.93	21	0		
15	64QAM	36	39	19.94	20.12	20.00				
15	64QAM	75	0	20.01	20.01	20.09				
15	256QAM	1	0	18.18	18.18	18.19				
15	256QAM	1	37	17.98	18.11	18.03	19	2		
15	256QAM	1	74	18.09	18.17	18.14				
15	256QAM	36	0	18.13	18.12	18.05				
15	256QAM	36	20	18.08	18.12	18.05	19	2		
15	256QAM	36	39	18.08	18.05	18.10				
15	256QAM	75	0	18.08	18.01	18.14				
Channel				37900	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.20	20.22	20.18	21	0		
10	QPSK	1	25	20.08	20.13	20.05				
10	QPSK	1	49	20.13	20.14	20.13				
10	QPSK	25	0	20.12	20.16	20.13				
10	QPSK	25	12	20.06	20.14	20.05	21	0		
10	QPSK	25	25	20.01	20.15	20.12				
10	QPSK	50	0	20.11	20.11	20.09				
10	16QAM	1	0	20.11	20.11	20.13	21	0		
10	16QAM	1	25	19.90	20.05	19.98				
10	16QAM	1	49	20.07	20.03	20.06				
10	16QAM	25	0	20.03	20.10	20.08				
10	16QAM	25	12	19.95	19.99	20.02	21	0		
10	16QAM	25	25	20.03	20.02	20.11				
10	16QAM	50	0	19.96	20.09	20.02				
10	64QAM	1	0	20.12	20.13	20.13				
10	64QAM	1	25	20.03	19.98	19.99	21	0		
10	64QAM	1	49	20.09	20.08	20.05				
10	64QAM	25	0	20.04	20.16	20.10				
10	64QAM	25	12	20.07	20.01	19.93	21	0		
10	64QAM	25	25	19.90	20.02	20.06				
10	64QAM	50	0	19.99	20.09	19.99				
10	256QAM	1	0	18.18	18.14	18.18				
10	256QAM	1	25	18.04	18.14	18.09	19	2		
10	256QAM	1	49	18.04	18.12	18.07				
10	256QAM	25	0	18.16	18.08	18.05				
10	256QAM	25	12	18.09	18.20	18.14	19	2		
10	256QAM	25	25	18.04	18.06	18.09				
10	256QAM	50	0	18.05	18.07	18.16				
Channel				37775	38000	38225				
Frequency (MHz)				25725	2595	26175				
5	QPSK	1	0	20.18	20.22	20.15	21	0		
5	QPSK	1	12	20.13	20.05	20.06				
5	QPSK	1	24	20.14	20.12	20.18				
5	QPSK	12	0	20.05	20.19	20.14				
5	QPSK	12	7	20.12	20.08	20.06	21	0		
5	QPSK	12	13	20.08	20.07	20.07				
5	QPSK	25	0	20.19	20.11	20.16				
5	16QAM	1	0	20.19	20.14	20.10				
5	16QAM	1	12	19.94	20.01	19.97	21	0		
5	16QAM	1	24	20.04	20.01	20.08				
5	16QAM	12	0	19.98	20.11	20.06				
5	16QAM	12	7	19.95	20.07	20.00				
5	16QAM	12	13	20.01	20.11	20.09	21	0		
5	16QAM	25	0	20.04	20.04	20.07				
5	64QAM	1	0	20.13	20.17	20.21				
5	64QAM	1	12	20.08	20.07	19.93	21	0		
5	64QAM	1	24	20.10	20.08	20.02				
5	64QAM	12	0	20.02	20.07	20.01				
5	64QAM	12	7	20.11	20.02	19.90	21	0		
5	64QAM	12	13	19.97	20.01	20.03				
5	64QAM	25	0	20.01	20.08	20.03				
5	256QAM	1	0	18.14	18.23	18.17				
5	256QAM	1	12	17.99	18.15	18.06	19	2		
5	256QAM	1	24	18.02	18.16	18.07				
5	256QAM	12	0	18.17	18.18	18.06				
5	256QAM	12	7	18.12	18.18	18.10	19	2		
5	256QAM	12	13	18.08	18.04	18.09				
5	256QAM	25	0	18.11	18.01	18.16				

Band 41 other PA Ant 2 DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2566	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.29	20.25	20.35	20.34	20.26		
20	QPSK	1	49	20.16	20.18	20.27	20.25	20.22	21	0
20	QPSK	1	99	20.22	20.21	20.25	20.31	20.22		
20	QPSK	50	0	20.23	20.12	20.31	20.27	20.22		
20	QPSK	50	24	20.27	20.20	20.26	20.30	20.16	21	0
20	QPSK	50	50	20.25	20.12	20.22	20.24	20.16		
20	QPSK	100	0	20.17	20.12	20.27	20.30	20.20		
20	16QAM	1	0	20.24	20.22	20.22	20.21	20.19		



n2 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.97	22.94	22.90			
20	PI2 BPSK	1	53	22.99	23.02	22.98	24.5	0.0	
20	PI2 BPSK	1	104	22.79	22.97	22.81			
20	PI2 BPSK	50	0	22.51	22.58	22.45	24.0	0.5	
20	PI2 BPSK	50	28	22.99	23.02	22.94	24.5	0.0	
20	PI2 BPSK	50	56	22.43	22.56	22.43	24.0	0.5	
20	PI2 BPSK	100	0	22.46	22.59	22.51			
20	QPSK	1	1	22.93	23.07	22.86			
20	QPSK	1	53	22.99	23.01	22.94	24.5	0.0	
20	QPSK	1	104	22.79	22.88	22.84			
20	QPSK	50	0	21.96	22.08	22.03	23.5	1.0	
20	QPSK	50	28	22.92	23.05	22.91	24.5	0.0	
20	QPSK	50	56	22.00	22.07	22.05	23.5	1.0	
20	QPSK	100	0	22.06	22.12	22.03			
20	16QAM	1	1	21.76	21.79	21.75	23.5	1.0	
20	64QAM	1	1	20.29	20.40	20.35	22.0	2.5	
20	256QAM	1	1	18.90	19.03	18.97	20.0	4.5	
Channel									
Frequency (MHz)				37500	37600	38000			
15	QPSK	1	1	22.87	22.93	22.93	24.5	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	22.84	23.01	22.90	24.5	0.0	
Channel									
Frequency (MHz)				375000	376000	381500			
5	QPSK	1	1	22.89	23.02	22.86	24.5	0.0	

Full&Default Power Mode									
n5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				834	836.5	838			
20	PI2 BPSK	1	1	24.20	24.27	24.15			
20	PI2 BPSK	1	53	24.39	24.45	24.36	25.7	0.0	
20	PI2 BPSK	1	104	24.35	24.47	24.34			
20	PI2 BPSK	50	0	23.96	24.09	23.99	25.2	0.5	
20	PI2 BPSK	50	28	24.39	24.45	24.31	25.7	0.0	
20	PI2 BPSK	50	56	24.01	24.09	24.01	25.2	0.5	
20	PI2 BPSK	100	0	24.03	24.08	23.98			
20	QPSK	1	1	24.49	24.58	24.50			
20	QPSK	1	53	24.32	24.43	24.35	25.7	0.0	
20	QPSK	1	104	24.31	24.38	24.29			
20	QPSK	50	0	23.48	23.61	23.54	24.7	1.0	
20	QPSK	50	28	24.39	24.47	24.38	25.7	0.0	
20	QPSK	50	56	23.06	23.11	23.09	24.7	1.0	
20	QPSK	100	0	23.55	23.65	23.52			
20	16QAM	1	1	23.10	23.22	23.18	24.7	1.0	
20	64QAM	1	1	21.70	21.81	21.77	23.2	2.5	
20	256QAM	1	1	20.31	20.42	20.36	21.2	4.5	
Channel									
Frequency (MHz)				165300	167300	168800			
15	QPSK	1	1	24.39	24.51	24.38	25.7	0.0	
Channel									
Frequency (MHz)				165800	167300	168800			
10	QPSK	1	1	24.39	24.50	24.45	25.7	0.0	
Channel									
Frequency (MHz)				165300	167300	169300			
5	QPSK	1	1	24.45	24.48	24.46	25.7	0.0	

n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2505	2535	2545			
50	PI2 BPSK	1	1	23.38	23.45	23.37			
50	PI2 BPSK	1	135	23.38	23.44	23.41	25.0	0.0	
50	PI2 BPSK	1	268	23.31	23.33	23.19			
50	PI2 BPSK	135	0	22.90	23.00	22.90	24.5	0.5	
50	PI2 BPSK	135	68	23.35	23.40	23.35	25.0	0.0	
50	PI2 BPSK	135	135	23.02	23.15	23.13	24.5	0.5	
50	PI2 BPSK	270	0	22.94	23.04	22.96			
50	QPSK	1	1	23.38	23.41	23.35			
50	QPSK	1	135	23.33	23.46	23.34	25.0	0.0	
50	QPSK	1	268	23.49	23.52	23.45			
50	QPSK	135	0	22.44	22.50	22.38	24.0	1.0	
50	QPSK	135	68	23.34	23.42	23.38	25.0	0.0	
50	QPSK	135	135	22.54	22.63	22.57	24.0	1.0	
50	QPSK	270	0	22.50	22.58	22.45			
50	16QAM	1	1	22.12	22.26	22.12	24.0	1.0	
50	64QAM	1	1	20.75	20.85	20.81	22.5	2.5	
50	256QAM	1	1	19.04	19.03	19.00	20.5	4.5	
Channel									
Frequency (MHz)				50300	507000	510000			
40	QPSK	1	1	23.38	23.48	23.37	25.0	0.0	
Channel									
Frequency (MHz)				503000	507000	511000			
30	QPSK	1	1	23.44	23.46	23.39	25.0	0.0	
Channel									
Frequency (MHz)				502500	507000	511500			
25	QPSK	1	1	23.38	23.40	23.38	25.0	0.0	
Channel									
Frequency (MHz)				502000	507000	512000			
20	QPSK	1	1	23.37	23.40	23.35	25.0	0.0	
Channel									
Frequency (MHz)				501500	507000	512500			
15	QPSK	1	1	23.45	23.49	23.32	25.0	0.0	
Channel									
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.40	23.40	23.40	25.0	0.0	
Channel									
Frequency (MHz)				505000	507000	513500			
5	QPSK	1	1	23.46	23.47	23.40	25.0	0.0	

n66 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.64	23.75	23.85		
40	PI2 BPSK	1	108	23.23	23.67	23.85	25.5	0.0
40	PI2 BPSK	1	214	23.54	23.64	23.81		
40	PI2 BPSK	108	0	23.10	23.17	23.03	25.0	0.5
40	PI2 BPSK	108	54	23.55	23.86	23.52	25.5	0.0
40	PI2 BPSK	108	108	23.13	23.22	23.09		
40	PI2 BPSK	216	0	23.19	23.28	23.17	25.0	0.5
40	QPSK	1	1	23.69	23.78	23.74		
40	QPSK	1	108	23.59	23.62	23.56	25.5	0.0
40	QPSK	1	214	23.54	23.59	23.54		
40	QPSK	108	0	22.54	22.60	22.53	24.5	1.0
40	QPSK	108	54	23.58	23.62	23.51	25.5	0.0
40	QPSK	108	108	22.65	22.70	22.66	24.5	1.0
40	QPSK	216	0	22.65	22.67	22.63		
40	16QAM	1	1	22.62	22.64	22.56	24.5	1.0
40	64QAM	1	1	21.03	21.15	21.04	23.0	2.5
40	256QAM	1	1	19.40	19.48	19.37	21.0	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.58	23.74	23.62	25.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1720	1745	1767.5		
25	QPSK	1	1	23.63	23.69	23.61	25.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.65	23.69	23.72	25.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.61	23.73	23.63	25.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.59	23.67	23.66	25.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.65	23.72	23.66	25.5	0.0

n7 Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.62	23.70	23.63		
50	PI/2 BPSK	1	135	23.62	23.68	23.54	24.5	0.0
50	PI/2 BPSK	1	268	23.62	23.71	23.51		
50	PI/2 BPSK	135	0	23.28	23.35	23.24	24.0	0.5
50	PI/2 BPSK	135	68	23.57	23.79	23.58	24.5	0.0
50	PI/2 BPSK	135	135	23.27	23.33	23.25	24.0	0.5
50	PI/2 BPSK	270	0	23.27	23.41	23.32		
50	QPSK	1	1	23.78	23.77	23.66		
50	QPSK	1	135	23.67	23.75	23.67	24.5	0.0
50	QPSK	1	268	23.81	23.86	23.79		
50	QPSK	135	0	22.77	22.82	22.81	23.5	1.0
50	QPSK	135	68	23.67	23.81	23.65	24.5	0.0
50	QPSK	135	135	22.78	22.84	22.75	23.5	1.0
50	QPSK	270	0	22.81	22.85	22.79		
50	16QAM	1	1	22.82	22.82	22.77	23.5	1.0
50	64QAM	1	1	21.32	21.37	21.34	22.0	2.5
50	256QAM	1	1	19.33	19.37	19.28	20.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.64	23.75	23.55	24.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.57	23.74	23.60	24.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.65	23.75	23.54	24.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.53	23.76	23.57	24.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.59	23.69	23.52	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.58	23.72	23.59	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.56	23.77	23.52	24.5	0.0

n2 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37000	37000	38000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	21.92	21.95	21.97			
20	PI2 BPSK	1	53	21.93	22.03	21.88	23.5	0.0	
20	PI2 BPSK	1	104	21.90	21.96	21.94			
20	PI2 BPSK	50	0	21.47	21.57	21.53	23.0	0.5	
20	PI2 BPSK	50	28	21.94	21.93	21.94	23.5	0.0	
20	PI2 BPSK	50	58	21.54	21.56	21.47	23.0	0.5	
20	PI2 BPSK	100	0	21.48	21.51	21.51			
20	QPSK	1	1	22.00	22.06	22.01			
20	QPSK	1	53	21.87	22.03	21.88	23.5	0.0	
20	QPSK	1	104	21.87	21.94	21.98			
20	QPSK	50	0	21.05	21.11	21.04	22.5	1.0	
20	QPSK	50	28	21.95	21.99	21.97	23.5	0.0	
20	QPSK	50	58	21.00	21.05	21.04			
20	QPSK	100	0	21.02	21.05	20.99	22.5	1.0	
20	16QAM	1	1	20.94	21.09	21.02	22.5	1.0	
20	16QAM	1	1	19.56	19.53	19.48	21.0	2.5	
20	256QAM	1	1	17.55	17.57	17.47	19.0	4.5	
Channel				37150	37000	38000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1865.5	1860	1902.5			
15	QPSK	1	1	21.95	22.00	21.91	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1860	1905			
10	QPSK	1	1	21.96	21.95	21.94	23.5	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	21.97	21.96	21.98	23.5	0.0	

n5 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.42	24.50	24.46			
20	PI2 BPSK	1	53	24.41	24.49	24.38	25.7	0.0	
20	PI2 BPSK	1	104	24.43	24.53	24.47			
20	PI2 BPSK	50	0	24.01	24.07	23.95	25.2	0.5	
20	PI2 BPSK	50	28	24.47	24.53	24.43	25.7	0.0	
20	PI2 BPSK	50	58	24.01	24.09	23.96	25.2	0.5	
20	PI2 BPSK	100	0	24.05	24.05	24.06			
20	QPSK	1	1	24.52	24.59	24.50			
20	QPSK	1	53	24.39	24.48	24.39	25.7	0.0	
20	QPSK	1	104	24.46	24.46	24.42			
20	QPSK	50	0	23.46	23.62	23.47	24.7	1.0	
20	QPSK	50	28	24.39	24.56	24.47	25.7	0.0	
20	QPSK	50	58	23.50	23.61	23.47	24.7	1.0	
20	QPSK	100	0	23.63	23.67	23.51			
20	16QAM	1	1	23.47	23.60	23.46	24.7	1.0	
20	16QAM	1	1	22.08	22.14	21.99	23.2	2.5	
20	256QAM	1	1	19.96	20.13	20.02	21.2	4.5	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.47	24.55	24.48	25.7	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.44	24.48	24.42	25.7	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	24.47	24.48	24.45	25.7	0.0	

n7 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50500	50700	50900			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	23.35	23.41	23.38			
50	PI2 BPSK	1	135	23.38	23.39	23.33	25.0	0.0	
50	PI2 BPSK	1	268	23.38	23.40	23.35			
50	PI2 BPSK	135	0	23.01	23.04	23.00	24.5	0.5	
50	PI2 BPSK	135	68	23.38	23.40	23.31	25.0	0.0	
50	PI2 BPSK	135	135	23.02	22.99	22.97	24.5	0.5	
50	PI2 BPSK	270	0	22.98	22.98	22.97			
50	QPSK	1	1	23.44	23.43	23.42			
50	QPSK	1	135	23.38	23.43	23.37	25.0	0.0	
50	QPSK	1	268	23.48	23.52	23.45			
50	QPSK	135	0	22.49	22.53	22.50	24.0	1.0	
50	QPSK	135	68	23.39	23.44	23.39	25.0	0.0	
50	QPSK	135	135	22.47	22.49	22.43	24.0	1.0	
50	QPSK	270	0	22.48	22.48	22.43			
50	16QAM	1	1	22.50	22.57	22.44	24.0	1.0	
50	16QAM	1	1	20.99	21.01	20.96	22.5	2.5	
50	256QAM	1	1	18.93	19.05	18.90	20.5	4.5	
Channel				50400	50700	51000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	23.37	23.41	23.34	25.0	0.0	
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2315	2335	2355			
30	QPSK	1	1	23.39	23.45	23.34	25.0	0.0	
Channel				50250	50700	51150	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.41	23.45	23.33	25.0	0.0	
Channel				50200	50700	51200	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.40	23.45	23.37	25.0	0.0	
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.38	23.41	23.40	25.0	0.0	
Channel				50100	50700	51300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.34	23.47	23.38	25.0	0.0	
Channel				50050	50700	51350	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2572.5			
5	QPSK	1	1	23.40	23.39	23.38	25.0	0.0	

n38 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.29	23.35	23.35		
40	PI/2 BPSK	1	53	23.31	23.36	23.33	25.0	0.0
40	PI/2 BPSK	1	104	23.32	23.40	23.33		
40	PI/2 BPSK	50	0	22.95	22.93	22.89	24.5	0.5
40	PI/2 BPSK	50	28	23.33	23.37	23.38	25.0	0.0
40	PI/2 BPSK	50	56	22.87	22.98	22.84	24.5	0.5
40	PI/2 BPSK	100	0	22.91	22.97	22.95		
40	QPSK	1	1	23.42	23.47	23.40		
40	QPSK	1	53	23.38	23.39	23.31	25.0	0.0
40	QPSK	1	104	23.33	23.40	23.30		
40	QPSK	50	0	22.43	22.43	22.42	24.0	1.0
40	QPSK	50	28	23.38	23.42	23.30	25.0	0.0
40	QPSK	50	56	22.47	22.50	22.39	24.0	1.0
40	QPSK	100	0	22.37	22.53	22.43		
40	16QAM	1	1	22.44	22.48	22.35	24.0	1.0
40	64QAM	1	1	20.92	20.95	20.86	22.5	2.5
40	256QAM	1	1	18.88	18.99	18.91	20.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	23.40	23.43	23.29	25.0	0.0
Channel				516504	519000	521496		
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	23.32	23.42	23.35	25.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.34	23.37	23.33	25.0	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	23.39	23.43	23.33	25.0	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	23.32	23.41	23.27	25.0	0.0

n41 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.35	23.45	23.41		
100	PI/2 BPSK	1	137	23.40	23.35	23.35	25.0	0.0
100	PI/2 BPSK	1	271	23.35	23.47	23.35		
100	PI/2 BPSK	135	0	23.01	22.95	22.98	24.5	0.5
100	PI/2 BPSK	135	69	23.41	23.43	23.45	25.0	0.0
100	PI/2 BPSK	135	138	22.96	23.08	22.91	24.5	0.5
100	PI/2 BPSK	270	0	22.91	23.06	23.00		
100	QPSK	1	1	23.51	23.53	23.48		
100	QPSK	1	137	23.44	23.44	23.37	25.0	0.0
100	QPSK	1	271	23.40	23.46	23.38		
100	QPSK	135	0	22.45	22.53	22.42	24.0	1.0
100	QPSK	135	69	23.43	23.51	23.31	25.0	0.0
100	QPSK	135	138	22.48	22.51	22.43	24.0	1.0
100	QPSK	270	0	22.45	22.56	22.44		
100	16QAM	1	1	22.47	22.47	22.41	24.0	1.0
100	64QAM	1	1	20.95	21.05	20.88	22.5	2.5
100	256QAM	1	1	18.94	19.06	18.96	20.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.48	23.47	23.39	25.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.48	23.51	23.34	25.0	0.0
Channel				506200	518598	531996		
Frequency (MHz)				2536	2592.99	2659.98		
60	QPSK	1	1	23.45	23.47	23.39	25.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.42	23.40	23.46	25.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.40	23.51	23.44	25.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.48	23.49	23.40	25.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.44	23.41	23.46	25.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	23.38	23.45	23.43	25.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	23.48	23.43	23.40	25.0	0.0



n48 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3680			
40	PI2 BPSK	1	1	19.15	19.14	19.07			
40	PI2 BPSK	1	53	19.11	19.10	19.02	20.5	0.0	
40	PI2 BPSK	1	104	19.10	19.11	19.08			
40	PI2 BPSK	50	0	18.86	18.85	18.83	20.0	0.5	
40	PI2 BPSK	50	28	19.07	19.11	19.08	20.5	0.0	
40	PI2 BPSK	50	56	18.70	18.72	18.69	20.0	0.5	
40	PI2 BPSK	100	0	18.71	18.70	18.65			
40	QPSK	1	1	19.18	19.21	19.15			
40	QPSK	1	53	19.05	19.10	19.03			
40	QPSK	1	104	19.07	19.14	19.05	20.5	0.0	
40	QPSK	50	0	18.22	18.23	18.20	19.5	1.0	
40	QPSK	50	28	19.09	19.16	19.13	20.5	0.0	
40	QPSK	50	56	18.24	18.22	18.20	19.5	1.0	
40	QPSK	100	0	18.20	18.27	18.15			
40	16QAM	1	1	18.22	18.16	18.14	19.5	1.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	2.5	
40	256QAM	1	1	14.03	14.73	14.68	15.0	4.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.11	19.14	19.09	20.5	0.0	
Channel									
Frequency (MHz)				637.68	641666	646166	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.07	19.17	19.11	20.5	0.0	
Channel									
Frequency (MHz)				637.68	641666	646166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.15	19.16	19.02	20.5	0.0	
Channel									
Frequency (MHz)				6370.00	641666	646332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.09	19.12	19.04	20.5	0.0	

Par270 n77 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	17.89	17.94	17.92			
100	PI2 BPSK	1	137	17.87	17.95	17.81	19.5	0.0	
100	PI2 BPSK	1	271	17.84	17.96	17.90			
100	PI2 BPSK	135	0	17.48	17.49	17.47	19.0	0.5	
100	PI2 BPSK	135	69	17.91	17.88	17.92	19.5	0.0	
100	PI2 BPSK	135	138	17.49	17.56	17.43	19.0	0.5	
100	PI2 BPSK	270	0	17.49	17.51	17.44			
100	QPSK	1	1	17.99	18.02	17.95			
100	QPSK	1	137	17.90	17.98	17.86			
100	QPSK	1	271	17.91	17.95	17.85	19.5	0.0	
100	QPSK	135	0	16.95	17.05	16.94	18.5	1.0	
100	QPSK	135	69	17.86	17.96	17.90	19.5	0.0	
100	QPSK	135	138	17.00	16.99	16.96	18.5	1.0	
100	QPSK	270	0	16.96	17.00	16.92			
100	16QAM	1	1	16.96	16.98	16.90	18.5	1.0	
100	64QAM	1	1	15.49	15.49	15.44	17.0	2.5	
100	256QAM	1	1	13.54	13.48	13.39	15.0	4.5	
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	17.86	17.88	17.83	19.5	0.0	
Channel									
Frequency (MHz)				646334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	17.90	17.95	17.81	19.5	0.0	
Channel									
Frequency (MHz)				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	17.89	17.88	17.83	19.5	0.0	
Channel									
Frequency (MHz)				646334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	17.92	17.89	17.86	19.5	0.0	
Channel									
Frequency (MHz)				646300	650000	663000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	17.93	17.93	17.86	19.5	0.0	
Channel									
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	17.95	17.95	17.79	19.5	0.0	
Channel									
Frequency (MHz)				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	17.85	17.91	17.86	19.5	0.0	
Channel									
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	17.90	17.92	17.87	19.5	0.0	

Par270 n77 HPUe Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.88	20.93	20.87			
100	PI2 BPSK	1	137	20.85	20.93	20.86	22.5	0.0	
100	PI2 BPSK	1	271	20.88	20.92	20.96			
100	PI2 BPSK	135	0	20.46	20.52	20.50	22.0	0.5	
100	PI2 BPSK	135	69	20.89	20.91	20.88	22.5	0.0	
100	PI2 BPSK	135	138	20.55	20.51	20.43	22.0	0.5	
100	PI2 BPSK	270	0	20.46	20.51	20.49			
100	QPSK	1	1	20.94	21.04	20.96			
100	QPSK	1	137	20.88	21.03	20.89			
100	QPSK	1	271	20.96	20.98	20.87	22.5	0.0	
100	QPSK	135	0	19.94	20.00	19.89	21.5	1.0	
100	QPSK	135	69	20.88	20.95	20.86	22.5	0.0	
100	QPSK	135	138	19.99	20.04	19.93	21.5	1.0	
100	QPSK	270	0	20.02	20.05	19.96			
100	16QAM	1	1	19.91	20.02	19.92	21.5	1.0	
100	64QAM	1	1	18.43	18.47	18.39	20.0	2.5	
100	256QAM	1	1	16.51	16.46	16.37	18.0	4.5	
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	20.89	20.90	20.83	22.5	0.0	
Channel									
Frequency (MHz)				646334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	20.79	20.96	20.86	22.5	0.0	
Channel									
Frequency (MHz)				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	20.88	20.90	20.83	22.5	0.0	
Channel									
Frequency (MHz)				646334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	20.88	20.90	20.92	22.5	0.0	
Channel									
Frequency (MHz)				646300	650000	663000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	20.85	21.00	20.81	22.5	0.0	
Channel									
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	20.92	20.90	20.81	22.5	0.0	
Channel									
Frequency (MHz)				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	20.80	20.96	20.83	22.5	0.0	
Channel									
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	20.81	20.95	20.83	22.5	0.0	



Part27Q n77 Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.02	3500.01					
100	PI2 BPSK	1	137	18.06			19.5	0.0		
100	PI2 BPSK	1	271	18.02						
100	PI2 BPSK	135	0	17.69			19.0	0.5		
100	PI2 BPSK	135	69	18.07			19.5	0.0		
100	PI2 BPSK	135	138	17.65			19.0	0.5		
100	PI2 BPSK	270	0	17.63						
100	QPSK	1	1	18.15						
100	QPSK	1	137	18.06			19.5	0.0		
100	QPSK	1	271	18.06						
100	QPSK	135	0	17.12			18.5	1.0		
100	QPSK	135	69	18.09			19.5	0.0		
100	QPSK	135	138	17.15			18.5	1.0		
100	QPSK	270	0	17.19			18.5	1.0		
100	16QAM	1	1	17.10			17.0	2.5		
100	16QAM	1	1	15.68			15.0	4.5		
100	25QAM	1	1	13.67			13.0	6.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	18.06	18.07	18.03	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	17.97	18.06	17.84	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	18.00	18.05	17.84	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	17.98	18.02	17.86	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	18.00	18.07	17.94	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	18.02	18.09	17.97	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	17.80	17.86	17.80	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	18.02	18.06	17.94	19.5	0.0		

Part27Q n77 HPUE Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.00	3500.01					
100	PI2 BPSK	1	137	21.10			22.5	0.0		
100	PI2 BPSK	1	271	21.00						
100	PI2 BPSK	135	0	20.63			22.0	0.5		
100	PI2 BPSK	135	69	21.66			22.5	0.0		
100	PI2 BPSK	135	138	20.60			22.0	0.5		
100	PI2 BPSK	270	0	20.68						
100	QPSK	1	1	21.19						
100	QPSK	1	137	21.12			22.5	0.0		
100	QPSK	1	271	21.07						
100	QPSK	135	0	20.11			21.5	1.0		
100	QPSK	135	69	21.06			22.5	0.0		
100	QPSK	135	138	20.14			21.5	1.0		
100	QPSK	270	0	20.22			21.5	1.0		
100	16QAM	1	1	20.04			21.5	1.0		
100	16QAM	1	1	18.70			20.0	2.5		
100	25QAM	1	1	16.73			16.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	21.09	21.09	21.04	22.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	21.12	21.11	21.02	22.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	21.05	21.09	20.98	22.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	21.04	21.11	21.01	22.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	21.11	21.07	20.96	22.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	21.04	21.10	21.06	22.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	21.08	21.12	20.99	22.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	21.09	21.11	21.04	22.5	0.0		

Part27O n78 Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.09	3750	3750	3750			
100	PI2 BPSK	1	137	18.08			19.5	0.0		
100	PI2 BPSK	1	271	18.04						
100	PI2 BPSK	135	0	17.63			19.0	0.5		
100	PI2 BPSK	135	69	17.63			19.5	0.0		
100	PI2 BPSK	135	138	17.61			19.0	0.5		
100	PI2 BPSK	270	0	17.65						
100	QPSK	1	1	18.12						
100	QPSK	1	137	18.03			19.5	0.0		
100	QPSK	1	271	18.05						
100	QPSK	135	0	17.16			18.5	1.0		
100	QPSK	135	69	18.00			19.5	0.0		
100	QPSK	135	138	17.08			18.5	1.0		
100	QPSK	270	0	17.05			18.5	1.0		
100	16QAM	1	1	17.13			17.0	2.5		
100	16QAM	1	1	15.58			15.0	4.5		
100	25QAM	1	1	13.00			13.0	6.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	18.03	18.05	18.04	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	17.98	18.06	18.04	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	18.02	18.05	18.02	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	18.05	18.08	18.03	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	18.04	18.04	18.02	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	17.98	17.97	17.93	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	18.00	18.02	17.99	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	18.02	18.01	18.05	19.5	0.0		



Part270 n78 HPUE Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		21.07				
100	PI2 BPSK	1	137		21.04		22.5	0.0	
100	PI2 BPSK	1	271		21.04				
100	PI2 BPSK	135	0		20.68		22.0	0.5	
100	PI2 BPSK	135	69		20.68		22.5	0.0	
100	PI2 BPSK	135	138		20.61		22.0	0.5	
100	PI2 BPSK	270	0		20.65				
100	QPSK	1	1		21.14				
100	QPSK	1	137		21.06		22.5	0.0	
100	QPSK	1	271		21.04				
100	QPSK	135	0		20.21		21.5	1.0	
100	QPSK	135	69		21.06		22.5	0.0	
100	QPSK	135	138		20.15		21.5	1.0	
100	QPSK	270	0		20.05				
100	16QAM	1	1		20.13		21.5	1.0	
100	16QAM	1	1		18.63		20.0	2.5	
100	25QAM	1	1		18.62		18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	96	649334	65000	65068	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3742.91	3750	3759.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.00	21.08	21.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	53	649000	65000	65084	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	39	3749.02	3750	3759.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	26	647668	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	19	3710.01	3750	3750.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	12	647168	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									

Part27Q 78 Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		18.14				
100	PI2 BPSK	1	137		18.14		19.5	0.0	
100	PI2 BPSK	1	271		18.18				
100	PI2 BPSK	135	0		17.74		19.0	0.5	
100	PI2 BPSK	135	69		18.13		19.5	0.0	
100	PI2 BPSK	135	138		17.69		19.0	0.5	
100	PI2 BPSK	270	0		17.69				
100	QPSK	1	1		18.28				
100	QPSK	1	137		18.22		19.5	0.0	
100	QPSK	1	271		18.18				
100	QPSK	135	0		17.21		18.5	1.0	
100	QPSK	135	69		18.22		19.5	0.0	
100	QPSK	135	138		17.27		18.5	1.0	
100	QPSK	270	0		17.27				
100	16QAM	1	1		17.22		18.5	1.0	
100	16QAM	1	1		15.72		17.0	2.5	
100	25QAM	1	1		13.73		15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	96	632668	63334	63400	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3492.92	3500.01	3510.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	67	632000	63334	63468	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3480	3500.01	3505.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	39	631000	63334	63500	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3475.02	3500.01	3525	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	19	630500	63334	63580	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3460.02	3500.01	3540.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									

Part27Q 78 HPUE Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		21.12				
100	PI2 BPSK	1	137		21.09		22.5	0.0	
100	PI2 BPSK	1	271		21.21				
100	PI2 BPSK	135	0		20.73		22.0	0.5	
100	PI2 BPSK	135	69		21.12		22.5	0.0	
100	PI2 BPSK	135	138		20.69		22.0	0.5	
100	PI2 BPSK	270	0		20.73				
100	QPSK	1	1		21.32				
100	QPSK	1	137		21.25		22.5	0.0	
100	QPSK	1	271		21.53				
100	QPSK	135	0		20.26		21.5	1.0	
100	QPSK	135	69		21.18		22.5	0.0	
100	QPSK	135	138		20.28		21.5	1.0	
100	QPSK	270	0		20.31				
100	16QAM	1	1		20.24		21.5	1.0	
100	16QAM	1	1		18.74		20.0	2.5	
100	25QAM	1	1		18.77		18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	96	632668	63334	63400	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3492.92	3500.01	3510.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	67	632000	63334	63468	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3475.02	3500.01	3525	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	39	631000	63334	63500	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3460.02	3500.01	3540	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	19	630334	63334	63634	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3450.01	3500.01	3540.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									



n38 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.05	23.71	23.71			
40	PI2 BPSK	1	53	23.05	23.75	23.72	24.5	0.0	
40	PI2 BPSK	1	104	23.04	23.68	23.62			
40	PI2 BPSK	50	0	23.16	23.28	23.28	24.0	0.5	
40	PI2 BPSK	50	28	23.07	23.72	23.69	24.5	0.0	
40	PI2 BPSK	50	56	23.20	23.27	23.20	24.0	0.5	
40	PI2 BPSK	100	0	23.18	23.32	23.31			
40	QPSK	1	1	23.71	23.79	23.76			
40	QPSK	1	53	23.67	23.75	23.73	24.5	0.0	
40	QPSK	1	104	23.66	23.66	23.66			
40	QPSK	50	0	22.89	22.84	22.71	23.5	1.0	
40	QPSK	50	28	23.62	23.72	23.69	24.5	0.0	
40	QPSK	50	56	22.70	22.74	22.80	23.5	1.0	
40	QPSK	100	0	22.73	22.86	22.75			
40	16QAM	1	1	22.74	22.76	22.76	23.5	1.0	
40	64QAM	1	1	21.28	21.33	21.20	22.0	2.5	
40	256QAM	1	1	19.22	19.30	19.27	22.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.05	23.07	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.64	23.67	23.64	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.68	23.67	23.71	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.58	23.74	23.73	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.05	23.74	23.65	24.5	0.0	

n41 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.73	23.82	23.79			
100	PI2 BPSK	1	137	23.76	23.80	23.82	24.5	0.0	
100	PI2 BPSK	1	271	23.75	23.80	23.67			
100	PI2 BPSK	135	0	23.24	23.39	23.31	24.0	0.5	
100	PI2 BPSK	135	69	23.76	23.82	23.70	24.5	0.0	
100	PI2 BPSK	135	138	23.23	23.34	23.26	24.0	0.5	
100	PI2 BPSK	270	0	23.19	23.36	23.42			
100	QPSK	1	1	23.72	23.86	23.79			
100	QPSK	1	137	23.71	23.83	23.80	24.5	0.0	
100	QPSK	1	271	23.71	23.71	23.70			
100	QPSK	135	0	22.74	22.89	22.71	23.5	1.0	
100	QPSK	135	69	23.68	23.83	23.76	24.5	0.0	
100	QPSK	135	138	22.74	22.82	22.87	23.5	1.0	
100	QPSK	270	0	22.76	22.96	22.82			
100	16QAM	1	1	22.82	22.80	22.87	23.5	1.0	
100	64QAM	1	1	21.32	21.41	21.21	22.0	2.5	
100	256QAM	1	1	19.28	19.34	19.31	22.0	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	123	23.61	23.79	23.65	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	23.59	23.76	23.69	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	23.63	23.73	23.71	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	23.67	23.80	23.67	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	23.58	23.74	23.74	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	23.66	23.75	23.73	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	23.67	23.81	23.75	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	23.61	23.74	23.73	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	23.61	23.73	23.74	24.5	0.0	

n48 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.41	20.42	20.43			
40	PI2 BPSK	1	53	20.44	20.47	20.46	22.0	0.0	
40	PI2 BPSK	1	104	20.35	20.48	20.39			
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5	0.5	
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0	0.0	
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5	0.5	
40	PI2 BPSK	100	0	19.98	20.04	20.07			
40	QPSK	1	1	20.48	20.55	20.52			
40	QPSK	1	53	20.40	20.44	20.48	22.0	0.0	
40	QPSK	1	104	20.45	20.51	20.47			
40	QPSK	50	0	19.97	20.07	19.97	21.0	1.0	
40	QPSK	50	28	20.40	20.50	20.46	22.0	0.0	
40	QPSK	50	56	19.98	20.06	20.05	21.0	1.0	
40	QPSK	100	0	19.93	20.05	19.96			
40	16QAM	1	1	19.95	20.06	20.02	21.0	1.0	
40	64QAM	1	1	17.98	18.10	18.05	19.5	2.5	
40	256QAM	1	1	15.98	16.31	16.00	17.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.36	20.51	20.48	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.41	20.48	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.40	20.47	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.41	20.48	20.39	22.0	0.0	



Par270 n77 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.42	18.47	18.41			
100	PI2 BPSK	1	137	18.44	18.53	18.48	20.0	0.0	
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PI2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.56	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.59	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	64QAM	1	1	18.02	18.10	18.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.43	21.46	21.43			
100	PI2 BPSK	1	137	21.40	21.54	21.49	23.0	0.0	
100	PI2 BPSK	1	271	21.50	21.54	21.45			
100	PI2 BPSK	135	0	21.05	21.10	20.99	22.5	0.5	
100	PI2 BPSK	135	69	21.46	21.54	21.41	23.0	0.0	
100	PI2 BPSK	135	138	21.06	21.16	20.96	22.5	0.5	
100	PI2 BPSK	270	0	21.07	21.07	21.11			
100	QPSK	1	1	21.56	21.62	21.56			
100	QPSK	1	137	21.39	21.48	21.47	23.0	0.0	
100	QPSK	1	271	21.47	21.41	21.45			
100	QPSK	135	0	20.48	20.55	20.46	22.0	1.0	
100	QPSK	135	69	21.38	21.58	21.50	23.0	0.0	
100	QPSK	135	138	20.38	20.59	20.49	22.0	1.0	
100	QPSK	270	0	20.57	20.59	20.52			
100	16QAM	1	1	20.52	20.57	20.49	22.0	1.0	
100	64QAM	1	1	19.06	19.08	19.01	20.5	2.5	
100	256QAM	1	1	17.04	17.02	17.02	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.45	21.52	21.47	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.43	21.56	21.50	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.45	21.48	21.44	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.45	21.49	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.43	21.59	21.48	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.45	21.55	21.47	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.52	21.47	21.43	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.49	21.50	21.48	23.0	0.0	

Part27Q n77 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1			3000.01			
100	PI2 BPSK	1	137			18.82			
100	PI2 BPSK	1	137			18.82	20.0	0.0	
100	PI2 BPSK	1	271			18.80			
100	PI2 BPSK	135	0			18.42			
100	PI2 BPSK	135	69			18.78			
100	PI2 BPSK	135	138			18.44			
100	PI2 BPSK	270	0			18.31			
100	QPSK	1	1			18.89			
100	QPSK	1	137			18.85			
100	QPSK	1	271			18.77			
100	QPSK	135	0			17.80			
100	QPSK	135	69			18.87			
100	QPSK	135	138			17.81			
100	QPSK	270	0			17.87			
100	16QAM	1	1			17.80			
100	64QAM	1	1			18.42			
100	256QAM	1	1			14.40			
Channel									
Frequency (MHz)									
90	QPSK	1	123			3300.01	3300.01	3300.01	MPR
Channel									
Frequency (MHz)									
80	QPSK	1	109			18.71	18.80	18.74	20.0
Channel									
Frequency (MHz)									
60	QPSK	1	81			18.22	18.29	18.09	20.0
Channel									
Frequency (MHz)									
50	QPSK	1	67			18.76	18.81	18.74	20.0
Channel									
Frequency (MHz)									
40	QPSK	1	53			18.77	18.80	18.73	20.0
Channel									
Frequency (MHz)									
20	QPSK	1	26			18.74	18.79	18.69	20.0
Channel									
Frequency (MHz)									
15	QPSK	1	19			18.70	18.82	18.68	20.0
Channel									
Frequency (MHz)									
10	QPSK	1	12			18.70	18.83	18.71	20.0



Part27Q n77 HPUe Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		21.86		23.0	0.0	
100	PI2 BPSK	1	271		21.75				
100	PI2 BPSK	135	0		21.39		22.5	0.5	
100	PI2 BPSK	135	69		21.82		23.0	0.0	
100	PI2 BPSK	135	138		21.47		22.5	0.5	
100	PI2 BPSK	270	0		21.32				
100	QPSK	1	1		21.84		23.0	0.0	
100	QPSK	1	137		21.86				
100	QPSK	1	271		21.77				
100	QPSK	135	0		20.84		22.0	1.0	
100	QPSK	135	69		21.81		23.0	0.0	
100	QPSK	135	138		20.93		22.0	1.0	
100	QPSK	270	0		21.01		22.0	1.0	
100	16QAM	1	1		20.92		20.5	2.5	
100	64QAM	1	1		19.43		18.5	4.5	
100	256QAM	1	1		17.43		15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	Tune-up limit	MPR	
				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	123	21.75	21.79	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	630000	633334	636668	Tune-up limit	MPR	
				3495.02	3500.01	3505.02	(dBm)	(dB)	
80	QPSK	1	109	21.78	21.85	21.86	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	630000	633334	636668	Tune-up limit	MPR	
				3475.02	3500.01	3525	(dBm)	(dB)	
80	QPSK	1	81	21.78	21.86	21.73	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	630000	633334	636668	Tune-up limit	MPR	
				3475.02	3500.01	3525	(dBm)	(dB)	
40	QPSK	1	53	21.75	21.84	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	630000	633334	636668	Tune-up limit	MPR	
				3452.52	3500.01	3546	(dBm)	(dB)	
20	QPSK	1	26	21.82	21.90	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	630000	633334	636668	Tune-up limit	MPR	
				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	19	21.72	21.79	21.63	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	630000	633334	636668	Tune-up limit	MPR	
				3458.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	12	21.76	21.82	21.68	23.0	0.0	

Part27O n78 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750	3750		
100	PI2 BPSK	1	137		18.57		20.0	0.0	
100	PI2 BPSK	1	271		18.55				
100	PI2 BPSK	1	271		18.58				
100	PI2 BPSK	135	0		18.09		19.5	0.5	
100	PI2 BPSK	135	69		18.59		20.0	0.0	
100	PI2 BPSK	135	138		18.22		19.5	0.5	
100	PI2 BPSK	270	0		18.17				
100	QPSK	1	1		18.05		20.0	0.0	
100	QPSK	1	137		18.59				
100	QPSK	1	271		18.56				
100	QPSK	135	0		17.57		18.0	1.0	
100	QPSK	135	69		18.60		20.0	0.0	
100	QPSK	135	138		17.80		19.0	1.0	
100	QPSK	270	0		17.66		19.0	1.0	
100	16QAM	1	1		17.58		17.5	2.5	
100	64QAM	1	1		16.15		15.5	4.5	
100	256QAM	1	1		14.14		13.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650000	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	123	18.53	18.59	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	640000	650000	650000	Tune-up limit	MPR	
				3745.01	3750	3755.02	(dBm)	(dB)	
80	QPSK	1	109	18.47	18.55	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	85	640000	650000	650000	Tune-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	85	18.50	18.59	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	67	640000	650000	650000	Tune-up limit	MPR	
				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	67	18.46	18.52	18.50	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	53	640000	650000	650000	Tune-up limit	MPR	
				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	53	18.46	18.57	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	39	640000	650000	650000	Tune-up limit	MPR	
				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	39	18.50	18.54	18.42	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	26	640000	650000	650000	Tune-up limit	MPR	
				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	26	18.48	18.63	18.42	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	19	640000	650000	650000	Tune-up limit	MPR	
				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	19	18.50	18.58	18.49	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	12	647000	650000	653000	Tune-up limit	MPR	
				3705	3750	3795	(dBm)	(dB)	
15	QPSK	1	12	18.50	18.55	18.46	20.0	0.0	

Part27O n78 HPUe Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750	3750		
100	PI2 BPSK	1	137		21.62		23.0	0.0	
100	PI2 BPSK	1	271		21.53				
100	PI2 BPSK	1	271		21.62				
100	PI2 BPSK	135	0		21.06		22.5	0.5	
100	PI2 BPSK	135	69		21.57		23.0	0.0	
100	PI2 BPSK	135	138		21.27		22.5	0.5	
100	PI2 BPSK	270	0		21.20				
100	QPSK	1	1		21.84		23.0	0.0	
100	QPSK	1	137		21.81				
100	QPSK	1	271		21.82				
100	QPSK	135	0		20.66		22.0	1.0	
100	QPSK	135	69		21.61		23.0	0.0	
100	QPSK	135	138		20.99		22.0	1.0	
100	QPSK	270	0		20.70		20.5	2.5	
100	16QAM	1	1		20.52		20.5	2.5	
100	64QAM	1	1		19.14		18.5	4.5	
100	256QAM	1	1		17.20		16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650000	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	123	21.55	21.55	21.43	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	640000	650000	650000	Tune-up limit	MPR	
				3740.01	3750	3800.02	(dBm)	(dB)	
80	QPSK	1	109	21.55	21.53	21.39	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	85	640000	650000	650000	Tune-up limit	MPR	
				3735.02	3750	3795	(dBm)	(dB)	
70	QPSK	1	85	21.52	21.52	21.44	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	67	640000	650000	650000	Tune-up limit	MPR	
				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	67	21.56	21.60	21.49	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	53	640000	650000	650000	Tune-up limit	MPR	
				3725.01	3				



Part27Q 78 Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.90	18.90	18.90			
100	PI2 BPSK	1	137	18.96	18.96	18.96	20.0	0.0	
100	PI2 BPSK	1	271	18.98	18.98	18.98			
100	PI2 BPSK	135	0	18.60	18.60	18.60	19.5	0.5	
100	PI2 BPSK	135	69	18.89	18.89	18.89	20.0	0.0	
100	PI2 BPSK	135	138	18.55	18.55	18.55	19.5	0.5	
100	PI2 BPSK	270	0	18.37	18.37	18.37			
100	QPSK	1	1	19.06	19.06	19.06			
100	QPSK	1	137	18.85	18.85	18.85	20.0	0.0	
100	QPSK	1	271	18.87	18.87	18.87			
100	QPSK	135	0	17.88	17.88	17.88	19.0	1.0	
100	QPSK	135	69	19.04	19.04	19.04	20.0	0.0	
100	QPSK	135	138	18.54	18.54	18.54	19.0	1.0	
100	QPSK	270	0	18.10	18.10	18.10			
100	16QAM	1	1	18.07	18.07	18.07	19.0	1.0	
100	64QAM	1	1	18.58	18.58	18.58	17.5	2.5	
100	256QAM	1	1	14.37	14.37	14.37	15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.88	18.88	18.84	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.85	18.85	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	18.86	18.86	18.82	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.88	18.88	18.77	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.95	18.95	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.87	18.84	18.83	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	18.95	18.89	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.94	18.90	18.76	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.89	18.89	18.79	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.85	18.85	18.82	20.0	0.0	

Part27Q 78 HPUE Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.61	21.61	21.61			
100	PI2 BPSK	1	137	21.97	21.97	21.97	23.0	0.0	
100	PI2 BPSK	1	271	22.04	22.04	22.04			
100	PI2 BPSK	135	0	21.65	21.65	21.65	22.5	0.5	
100	PI2 BPSK	135	69	21.88	21.88	21.88	23.0	0.0	
100	PI2 BPSK	135	138	21.50	21.50	21.50	22.5	0.5	
100	PI2 BPSK	270	0	21.40	21.40	21.40			
100	QPSK	1	1	22.07	22.07	22.07			
100	QPSK	1	137	21.80	21.80	21.80	23.0	0.0	
100	QPSK	1	271	21.83	21.83	21.83			
100	QPSK	135	0	20.98	20.98	20.98	22.0	1.0	
100	QPSK	135	69	22.05	22.05	22.05	23.0	0.0	
100	QPSK	135	138	20.99	20.99	20.99	22.0	1.0	
100	QPSK	270	0	21.10	21.10	21.10			
100	16QAM	1	1	21.04	21.04	21.04	22.0	1.0	
100	64QAM	1	1	18.61	18.61	18.61	20.5	2.5	
100	256QAM	1	1	17.62	17.62	17.62	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.94	21.99	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.89	21.95	21.90	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	21.91	21.93	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.86	21.96	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.88	21.99	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.92	21.96	21.87	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.89	21.93	21.89	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.86	21.96	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.86	21.93	21.85	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.89	21.92	21.89	23.0	0.0	

n38 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	21.98	22.00	21.97		
40	PI/2 BPSK	1	53	21.89	21.99	21.89	23.5	0.0
40	PI/2 BPSK	1	104	21.91	21.97	21.94		
40	PI/2 BPSK	50	0	21.56	21.53	21.50	23.0	0.5
40	PI/2 BPSK	50	28	21.98	22.01	21.91	23.5	0.0
40	PI/2 BPSK	50	56	21.45	21.55	21.54		
40	PI/2 BPSK	100	0	21.45	21.52	21.56	23.0	0.5
40	QPSK	1	1	22.01	22.07	22.02		
40	QPSK	1	53	21.98	22.04	21.96	23.5	0.0
40	QPSK	1	104	21.92	22.03	21.97		
40	QPSK	50	0	21.02	21.11	21.05	22.5	1.0
40	QPSK	50	28	21.96	21.98	21.89	23.5	0.0
40	QPSK	50	56	20.98	21.10	21.07		
40	QPSK	100	0	20.98	21.09	21.05	22.5	1.0
40	16QAM	1	1	21.05	21.06	20.97	22.5	1.0
40	64QAM	1	1	19.54	19.60	19.46	21.0	2.5
40	256QAM	1	1	17.50	17.57	17.54	19.0	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.95	21.95	21.91	23.5	0.0
Channel				516504	519000	521496		
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	21.90	21.97	21.93	23.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	21.92	21.96	22.00	23.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.92	21.96	21.97	23.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.97	22.05	21.91	23.5	0.0

n41 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.09	23.09	23.04		
100	PI/2 BPSK	1	137	23.01	23.07	23.05	25.0	0.0
100	PI/2 BPSK	1	271	23.06	23.07	23.06		
100	PI/2 BPSK	135	0	22.64	22.58	22.57	24.5	0.5
100	PI/2 BPSK	135	69	23.02	23.07	23.04	25.0	0.0
100	PI/2 BPSK	135	138	22.56	22.64	22.65		
100	PI/2 BPSK	270	0	22.52	22.57	22.66	24.5	0.5
100	QPSK	1	1	23.05	23.19	23.06		
100	QPSK	1	137	23.05	23.12	23.04	25.0	0.0
100	QPSK	1	271	23.01	23.14	23.10		
100	QPSK	135	0	22.09	22.19	22.15	24.0	1.0
100	QPSK	135	69	23.01	23.04	23.02	25.0	0.0
100	QPSK	135	138	22.06	22.17	22.13		
100	QPSK	270	0	22.11	22.18	22.15	24.0	1.0
100	16QAM	1	1	22.13	22.17	22.15	24.0	1.0
100	64QAM	1	1	20.65	20.72	20.59	22.5	2.5
100	256QAM	1	1	18.63	18.63	18.58	20.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.02	23.08	22.97	25.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.94	23.14	22.98	25.0	0.0
Channel				506200	518598	531996		
Frequency (MHz)				2536	2592.99	2659.98		
60	QPSK	1	1	22.92	23.13	22.99	25.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.97	23.08	22.97	25.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.99	23.09	22.95	25.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.02	23.12	22.99	25.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.97	23.13	22.95	25.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.98	23.07	23.00	25.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.98	23.14	23.00	25.0	0.0



n48 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3680			
40	PI2 BPSK	1	1	24.45	24.46	24.46			
40	PI2 BPSK	1	53	24.45	24.49	24.44	26.0	0.0	
40	PI2 BPSK	1	104	24.37	24.53	24.45			
40	PI2 BPSK	50	0	23.99	24.03	24.01	25.5	0.5	
40	PI2 BPSK	50	28	24.40	24.52	24.46	26.0	0.5	
40	PI2 BPSK	50	56	24.03	24.02	24.05	25.5	0.5	
40	PI2 BPSK	100	0	24.05	24.06	24.02			
40	QPSK	1	1	24.50	24.57	24.52			
40	QPSK	1	53	24.41	24.52	24.46	26.0	0.0	
40	QPSK	1	104	24.45	24.46	24.40			
40	QPSK	50	0	23.49	23.63	23.46	26.0	1.0	
40	QPSK	50	28	24.44	24.51	24.44	26.0	0.0	
40	QPSK	50	56	23.54	23.51	23.47	25.0	1.0	
40	QPSK	100	0	23.51	23.57	23.47			
40	16QAM	1	1	23.55	23.52	23.56	25.0	1.0	
40	64QAM	1	1	22.02	22.10	21.98	23.5	2.5	
40	256QAM	1	1	19.98	20.03	20.08	21.5	4.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	24.39	24.54	24.44	26.0	0.0	
Channel									
Frequency (MHz)				637.334	641666	646166			
20	QPSK	1	1	24.43	24.49	24.43	26.0	0.0	
Channel									
Frequency (MHz)				637.168	641666	646166			
15	QPSK	1	1	24.42	24.45	24.41	23.0	0.0	
Channel									
Frequency (MHz)				6370.00	641666	646332			
10	QPSK	1	1	24.44	24.48	24.46	26.0	0.0	

Par270 n77 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.91	23.01	22.96			
100	PI2 BPSK	1	137	23.00	23.02	22.97	24.5	0.0	
100	PI2 BPSK	1	271	22.98	23.01	23.01			
100	PI2 BPSK	135	0	22.59	22.67	22.61	24.0	0.5	
100	PI2 BPSK	135	69	23.01	23.03	22.96	24.5	0.0	
100	PI2 BPSK	135	138	22.50	22.65	22.56	24.0	0.5	
100	PI2 BPSK	270	0	22.58	22.66	22.55			
100	QPSK	1	1	23.05	23.11	23.08			
100	QPSK	1	137	22.95	23.03	23.03	24.5	0.0	
100	QPSK	1	271	22.98	23.08	23.03			
100	QPSK	135	0	22.09	22.11	22.08	23.5	1.0	
100	QPSK	135	69	22.96	23.05	22.98	24.5	0.0	
100	QPSK	135	138	22.09	22.08	22.06	23.5	1.0	
100	QPSK	270	0	22.03	22.06	22.06			
100	16QAM	1	1	22.08	22.07	22.08	23.5	1.0	
100	64QAM	1	1	20.52	20.67	20.80	22.0	2.5	
100	256QAM	1	1	18.54	18.59	18.53	23.0	4.5	
Channel									
Frequency (MHz)				3745.02	3840	3935.01			
80	QPSK	1	123	23.00	23.05	23.04	24.5	0.0	
Channel									
Frequency (MHz)				646334	650000	652666			
80	QPSK	1	109	22.98	22.98	22.95	24.5	0.0	
Channel									
Frequency (MHz)				646666	650000	653334			
80	QPSK	1	81	22.95	22.98	23.01	24.5	0.0	
Channel									
Frequency (MHz)				646334	650000	653666			
50	QPSK	1	67	23.02	23.09	23.00	24.5	0.0	
Channel									
Frequency (MHz)				646300	650000	653000			
40	QPSK	1	53	23.01	23.04	22.94	24.5	0.0	
Channel									
Frequency (MHz)				647334	650000	654666			
20	QPSK	1	26	22.95	23.03	23.00	24.5	0.0	
Channel									
Frequency (MHz)				647168	650000	654834			
15	QPSK	1	19	22.96	22.99	22.96	24.5	0.0	
Channel									
Frequency (MHz)				647000	650000	655000			
10	QPSK	1	12	22.98	23.09	22.96	24.5	0.0	

Par270 n77 HPUe Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.89	26.07	25.84			
100	PI2 BPSK	1	137	26.04	26.07	25.94	27.5	0.0	
100	PI2 BPSK	1	271	25.94	25.98	26.00			
100	PI2 BPSK	135	0	25.55	25.73	25.58	27.0	0.5	
100	PI2 BPSK	135	69	26.06	26.05	25.95	27.5	0.0	
100	PI2 BPSK	135	138	25.50	25.63	25.50	27.0	0.5	
100	PI2 BPSK	270	0	25.52	25.71	25.56			
100	QPSK	1	1	26.10	26.14	26.11			
100	QPSK	1	137	26.00	26.00	26.06	27.5	0.0	
100	QPSK	1	271	26.02	26.03	26.05			
100	QPSK	135	0	25.07	25.12	25.12	26.5	1.0	
100	QPSK	135	69	26.01	26.09	26.02	27.5	0.0	
100	QPSK	135	138	25.06	25.08	25.10	26.5	1.0	
100	QPSK	270	0	25.02	25.12	25.06			
100	16QAM	1	1	25.08	25.11	25.08	25.0	1.0	
100	64QAM	1	1	23.48	23.71	23.66	23.0	2.5	
100	256QAM	1	1	21.60	21.81	21.47	23.0	4.5	
Channel									
Frequency (MHz)				646666	650000	653334			
80	QPSK	1	123	26.05	26.05	25.99	27.5	0.0	
Channel									
Frequency (MHz)				646334	650000	652666			
80	QPSK	1	109	26.03	26.06	25.99	27.5	0.0	
Channel									
Frequency (MHz)				646666	650000	653334			
80	QPSK	1	81	25.98	26.07	26.08	27.5	0.0	
Channel									
Frequency (MHz)				646334	650000	653666			
50	QPSK	1	67	25.97	26.04	26.06	27.5	0.0	
Channel									
Frequency (MHz)				646300	650000	653000			
40	QPSK	1	53	25.99	26.09	26.01	27.5	0.0	
Channel									
Frequency (MHz)				647334	650000	654666			
20	QPSK	1	26	25.99	26.06	26.02	27.5	0.0	
Channel									
Frequency (MHz)				647168	650000	654834			
15	QPSK	1	19	25.97	26.08	26.04	27.5	0.0	
Channel									
Frequency (MHz)				647000	650000	655000			
10	QPSK	1	12	25.95	26.06	26.04	27.5	0.0	



Part27Q n77 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.99	3000.01				
100	PI2 BPSK	1	137	22.95			24.5	0.0	
100	PI2 BPSK	1	271	23.01					
100	PI2 BPSK	135	0	22.86			24.0	0.5	
100	PI2 BPSK	135	69	23.03					24.5
100	PI2 BPSK	135	138	22.60			24.0	0.5	
100	PI2 BPSK	270	0	22.86					
100	QPSK	1	1	23.07					
100	QPSK	1	137	23.06			24.5	0.0	
100	QPSK	1	271	23.03					
100	QPSK	135	0	22.03			23.5	1.0	
100	QPSK	135	69	23.05					24.5
100	QPSK	135	138	22.02			23.5	1.0	
100	QPSK	270	0	22.09					
100	16QAM	1	1	21.99			23.5	1.0	
100	16QAM	1	1	20.70			22.0	2.5	
100	25QAM	1	1	18.61			20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	22.91	23.06	22.97	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	22.99	23.02	23.02	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.97	23.03	23.02	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.93	23.00	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.92	22.99	23.01	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.96	23.04	23.00	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	23.03	23.03	23.00	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.98	23.00	23.03	24.5	0.0	

Part27Q n77 HPUE Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.93	3000.01				
100	PI2 BPSK	1	137	25.96			27.5	0.0	
100	PI2 BPSK	1	271	25.97					
100	PI2 BPSK	135	0	25.62			27.0	0.5	
100	PI2 BPSK	135	69	26.01					27.5
100	PI2 BPSK	135	138	25.60			27.0	0.5	
100	PI2 BPSK	270	0	25.62					
100	QPSK	1	1	26.09					
100	QPSK	1	137	26.05			27.5	0.0	
100	QPSK	1	271	26.08					
100	QPSK	135	0	25.07			26.5	1.0	
100	QPSK	135	69	26.06					27.5
100	QPSK	135	138	24.99			26.5	1.0	
100	QPSK	270	0	25.10					
100	16QAM	1	1	25.00			26.5	1.0	
100	16QAM	1	1	23.68			25.0	2.5	
100	25QAM	1	1	21.62			23.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	25.93	25.96	25.84	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	25.98	25.93	25.87	27.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	25.91	25.93	25.85	27.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	25.92	25.94	25.89	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	25.94	25.96	25.92	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	25.90	25.94	25.95	27.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	25.90	25.90	25.84	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	25.92	25.93	25.92	27.5	0.0	

Part27O n78 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.90	3750	3750			
100	PI2 BPSK	1	137	22.91			24.5	0.0	
100	PI2 BPSK	1	271	22.89					
100	PI2 BPSK	135	0	22.89			24.0	0.5	
100	PI2 BPSK	135	69	22.89					24.5
100	PI2 BPSK	135	138	22.50			24.0	0.5	
100	PI2 BPSK	270	0	22.63					
100	QPSK	1	1	23.00					
100	QPSK	1	137	22.98			24.5	0.0	
100	QPSK	1	271	22.98					
100	QPSK	135	0	21.95			23.5	1.0	
100	QPSK	135	69	22.93					24.5
100	QPSK	135	138	21.89			23.5	1.0	
100	QPSK	270	0	22.02					
100	16QAM	1	1	21.90			23.5	1.0	
100	16QAM	1	1	20.61			22.0	2.5	
100	25QAM	1	1	18.51			20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	22.81	22.98	22.83	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	22.88	22.96	22.91	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.77	22.86	22.85	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.79	22.98	22.91	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.82	22.96	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.86	22.98	22.90	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	22.78	22.98	22.88	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.78	22.94	22.83	24.5	0.0	



Part270 n78 HPUE Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	25.87					
100	PI2 BPSK	1	271	25.96			27.5	0.0	
100	PI2 BPSK	1	271	25.93					
100	PI2 BPSK	135	0	25.64			27.0	0.5	
100	PI2 BPSK	135	69	25.84			27.5	0.0	
100	PI2 BPSK	135	138	25.58			27.0	0.5	
100	PI2 BPSK	270	0	25.55					
100	QPSK	1	1	28.08					
100	QPSK	1	137	28.01			27.5	0.0	
100	QPSK	1	271	28.00					
100	QPSK	135	0	25.07			26.5	1.0	
100	QPSK	135	69	25.99			27.5	0.0	
100	QPSK	135	138	24.52			26.5	1.0	
100	QPSK	270	0	25.03					
100	16QAM	1	1	24.97			26.5	1.0	
100	16QAM	1	1	23.61			25.0	2.5	
100	25QAM	1	1	23.67			23.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	96	649334	65000	65068	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3742.91	3750	3752.92	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	67	25.95	25.99	25.88	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	28.00	25.91	25.89	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	649000	65000	65000	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3742.91	3750	3752.92	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	19	28.00	25.99	25.88	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	647968	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									

Part27Q 78 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.89					
100	PI2 BPSK	1	137	22.91			24.5	0.0	
100	PI2 BPSK	1	271	22.85					
100	PI2 BPSK	135	0	22.52			24.0	0.5	
100	PI2 BPSK	135	69	22.91			24.5	0.0	
100	PI2 BPSK	135	138	22.50			24.0	0.5	
100	PI2 BPSK	270	0	22.60					
100	QPSK	1	1	23.02					
100	QPSK	1	137	22.97			24.5	0.0	
100	QPSK	1	271	22.93					
100	QPSK	135	0	21.92			23.5	1.0	
100	QPSK	135	69	22.96			24.5	0.0	
100	QPSK	135	138	21.87			23.5	1.0	
100	QPSK	270	0	21.90					
100	16QAM	1	1	21.87			23.5	1.0	
100	16QAM	1	1	20.60			22.0	2.5	
100	25QAM	1	1	18.40			20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3485	3500.01	3505.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	96	63268	63334	63400	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3480.02	3500.01	3510.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	67	63200	63334	63468	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3480	3500.01	3500.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	39	22.75	22.96	22.82	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	63100	63334	63500	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	19	22.70	22.84	22.70	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	63068	63334	63500	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									

Part27Q 78 HPUE Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.83					
100	PI2 BPSK	1	137	25.92			27.5	0.0	
100	PI2 BPSK	1	271	25.87					
100	PI2 BPSK	135	0	25.66			27.0	0.5	
100	PI2 BPSK	135	69	26.01			27.5	0.0	
100	PI2 BPSK	135	138	25.52			27.0	0.5	
100	PI2 BPSK	270	0	25.52					
100	QPSK	1	1	26.05					
100	QPSK	1	137	25.98			27.5	0.0	
100	QPSK	1	271	26.00					
100	QPSK	135	0	25.09			26.5	1.0	
100	QPSK	135	69	25.92			27.5	0.0	
100	QPSK	135	138	24.55			26.5	1.0	
100	QPSK	270	0	25.01					
100	16QAM	1	1	24.98			26.5	1.0	
100	16QAM	1	1	23.65			25.0	2.5	
100	25QAM	1	1	21.64			23.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3485	3500.01	3505.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	96	63268	63334	63400	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3480.02	3500.01	3510.01	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	67	63200	63334	63468	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3480	3500.01	3500.02	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	39	25.80	25.98	25.84	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	63100	63334	63500	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	19	25.93	26.01	25.84	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	63034	63334	63534	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									



n38 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	18.24	18.30	18.21			
40	PI2 BPSK	1	53	18.26	18.26	18.23	20.0	0.0	
40	PI2 BPSK	1	104	18.23	18.25	18.21			
40	PI2 BPSK	50	0	17.81	17.91	17.80	19.5	0.5	
40	PI2 BPSK	50	28	18.21	18.26	18.26	20.0	0.0	
40	PI2 BPSK	50	56	17.81	17.90	17.79	19.5	0.5	
40	PI2 BPSK	100	0	17.77	17.84	17.78			
40	QPSK	1	1	18.31	18.38	18.32			
40	QPSK	1	53	18.27	18.30	18.23	20.0	0.0	
40	QPSK	1	104	18.25	18.30	18.20			
40	QPSK	50	0	17.30	17.43	17.27	19.0	1.0	
40	QPSK	50	28	18.27	18.35	18.21	20.0	0.0	
40	QPSK	50	56	17.36	17.39	17.36	19.0	1.0	
40	QPSK	100	0	17.27	17.40	17.37			
40	16QAM	1	1	17.25	17.37	17.31	19.0	1.0	
40	64QAM	1	1	15.86	15.88	15.86	17.5	2.5	
40	256QAM	1	1	13.58	13.66	13.62	13.5	4.5	
Channel									
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.17	18.28	18.29	20.0	0.0	
Channel									
Frequency (MHz)				5160.04	51800	521498			
25	QPSK	1	1	18.25	18.36	18.19	20.0	0.0	
Channel									
Frequency (MHz)				516000	518000	520000			
20	QPSK	1	1	2560	2595	2610	20.0	0.0	
Channel									
Frequency (MHz)				515502	518000	520498			
15	QPSK	1	1	2577.51	2595	2612.49	20.0	0.0	
Channel									
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.20	18.33	18.28	20.0	0.0	

n41 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.24	18.37	18.31			
100	PI2 BPSK	1	137	18.36	18.37	18.25	20.0	0.0	
100	PI2 BPSK	1	271	18.31	18.34	18.30			
100	PI2 BPSK	135	0	17.82	17.92	17.86	19.5	0.5	
100	PI2 BPSK	135	69	18.32	18.36	18.34	20.0	0.0	
100	PI2 BPSK	135	138	17.85	17.98	17.82	19.5	0.5	
100	PI2 BPSK	270	0	17.87	17.93	17.85			
100	QPSK	1	1	18.42	18.48	18.33			
100	QPSK	1	197	18.38	18.39	18.23	20.0	0.0	
100	QPSK	1	271	18.31	18.46	18.31			
100	QPSK	135	0	17.41	17.49	17.34	19.0	1.0	
100	QPSK	135	69	18.36	18.45	18.25	20.0	0.0	
100	QPSK	135	138	17.44	17.50	17.46	19.0	1.0	
100	QPSK	270	0	17.35	17.46	17.44			
100	16QAM	1	1	17.27	17.47	17.35	19.0	1.0	
100	64QAM	1	1	15.97	15.99	15.88	17.5	2.5	
100	256QAM	1	1	13.31	13.92	13.92	13.5	4.5	
Channel									
Frequency (MHz)				5050.01	51898	52998			
80	QPSK	1	123	18.25	18.29	18.33	20.0	0.0	
Channel									
Frequency (MHz)				507204	51898	52998			
80	QPSK	1	109	18.19	18.38	18.36	20.0	0.0	
Channel									
Frequency (MHz)				505200	51898	531998			
80	QPSK	1	81	18.21	18.39	18.35	20.0	0.0	
Channel									
Frequency (MHz)				505004	51898	530998			
50	QPSK	1	67	18.28	18.36	18.34	20.0	0.0	
Channel									
Frequency (MHz)				2571.02	2592.99	2604.99			
40	QPSK	1	53	18.24	18.37	18.39	20.0	0.0	
Channel									
Frequency (MHz)				502200	51898	534998			
30	QPSK	1	39	18.24	18.40	18.38	20.0	0.0	
Channel									
Frequency (MHz)				501204	51898	530998			
20	QPSK	1	26	18.16	18.31	18.34	20.0	0.0	
Channel									
Frequency (MHz)				503202	51898	530000			
15	QPSK	1	19	18.23	18.31	18.30	20.0	0.0	
Channel									
Frequency (MHz)				500202	51898	537000			
10	QPSK	1	12	18.25	18.35	18.32	20.0	0.0	

n48 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3670	3624.99	3690			
40	PI2 BPSK	1	1	22.81	22.83	22.76			
40	PI2 BPSK	1	53	22.74	22.82	22.80	24.5	0.0	
40	PI2 BPSK	1	104	22.77	22.83	22.87			
40	PI2 BPSK	50	0	22.41	22.49	22.38	24.0	0.5	
40	PI2 BPSK	50	28	22.80	22.88	22.78	24.5	0.0	
40	PI2 BPSK	50	56	22.31	22.38	22.37	24.0	0.5	
40	PI2 BPSK	100	0	22.33	22.45	22.37			
40	QPSK	1	1	22.86	22.93	22.90			
40	QPSK	1	53	22.73	22.80	22.77	24.5	0.0	
40	QPSK	1	104	22.73	22.82	22.82			
40	QPSK	50	0	21.90	21.98	21.92	23.5	1.0	
40	QPSK	50	28	22.77	22.90	22.81	24.5	0.0	
40	QPSK	50	56	21.84	21.93	21.91	23.5	1.0	
40	QPSK	100	0	21.91	21.99	21.85			
40	16QAM	1	1	21.85	21.87	21.94	23.5	1.0	
40	64QAM	1	1	20.33	20.41	20.44	22.0	2.5	
40	256QAM	1	1	18.41	18.46	18.46	20.0	4.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	22.75	22.86	22.78	24.5	0.0	
Channel									
Frequency (MHz)				637304	641666	645000			
20	QPSK	1	1	22.80	22.82	22.81	24.5	0.0	
Channel									
Frequency (MHz)				637168	641666	645166			
15	QPSK	1	1	22.74	22.80	22.81	24.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3695			
10	QPSK	1	1	22.80	22.81	22.80	24.5	0.0	



Par270 n77 Ant 7									
BW (MHz)	Modulation	RB 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	20.90	20.98	20.93			
100	PI2 BPSK	1	137	20.91	20.97	21.03	22.5	0.0	
100	PI2 BPSK	1	271	21.00	21.00	21.02			
100	PI2 BPSK	135	0	20.54	20.58	20.60	22.0	0.5	
100	PI2 BPSK	135	69	20.97	20.97	20.94	22.5	0.0	
100	PI2 BPSK	135	138	20.48	20.65	20.57	22.0	0.5	
100	PI2 BPSK	270	0	20.52	20.58	20.62			
100	QPSK	1	1	21.02	21.10	21.06			
100	QPSK	1	137	20.92	21.01	21.01	22.5	0.0	
100	QPSK	1	271	20.98	20.97	20.93			
100	QPSK	135	0	20.05	20.18	20.11	21.5	1.0	
100	QPSK	135	69	20.88	21.07	20.93	22.5	0.0	
100	QPSK	135	138	20.01	20.09	20.05	21.5	1.0	
100	QPSK	270	0	20.07	20.15	20.04			
100	16QAM	1	1	20.01	20.07	20.09	21.5	1.0	
100	16QAM	1	1	18.49	18.64	18.61	20.0	2.5	
100	25QAM	1	1	18.51	18.63	18.64	18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	20.96	21.04	20.93	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	6493.34	6590.00	6626.68	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	20.94	20.97	21.01	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	6486.68	6560.00	6633.34	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	20.96	20.99	21.00	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	6483.34	6560.00	6636.68	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	20.92	21.06	21.03	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	6473.34	6560.00	6646.68	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	20.89	21.00	20.96	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	6470.00	6590.00	6690.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	21.00	20.97	21.01	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	6471.68	6590.00	6648.34	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	20.91	21.04	21.00	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	20.92	21.08	20.96	22.5	0.0	

Par270 n77 HPUE Ant 7									
BW (MHz)	Modulation	RB 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	23.88	23.95	23.89			
100	PI2 BPSK	1	137	23.85	23.96	24.03	25.5	0.0	
100	PI2 BPSK	1	271	24.00	24.02	24.04			
100	PI2 BPSK	135	0	23.59	23.61	23.60	25.0	0.5	
100	PI2 BPSK	135	69	23.98	24.03	23.92	25.5	0.0	
100	PI2 BPSK	135	138	23.48	23.70	23.55	25.0	0.5	
100	PI2 BPSK	270	0	23.49	23.58	23.61			
100	QPSK	1	1	24.03	24.12	24.06			
100	QPSK	1	137	23.95	23.95	24.04	25.5	0.0	
100	QPSK	1	271	23.97	23.93	23.93			
100	QPSK	135	0	23.05	23.10	23.05	24.5	1.0	
100	QPSK	135	69	23.84	24.04	23.94	25.5	0.0	
100	QPSK	135	138	23.01	23.08	23.04	24.5	1.0	
100	QPSK	270	0	23.05	23.10	23.04			
100	16QAM	1	1	22.97	23.13	23.12	24.5	1.0	
100	16QAM	1	1	21.48	21.66	21.61	23.0	2.5	
100	25QAM	1	1	19.51	19.52	19.54	21.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	6495.02	6560.00	6623.34	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	24.00	24.05	23.90	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	6486.68	6560.00	6626.68	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	23.96	24.02	23.93	25.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	6483.34	6560.00	6636.68	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	23.96	23.99	23.92	25.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	6473.34	6560.00	6646.68	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	24.05	24.02	23.97	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	6473.34	6560.00	6646.68	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	24.03	24.09	23.88	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	6470.00	6590.00	6690.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	24.03	24.06	23.96	25.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	6471.68	6590.00	6648.34	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	24.00	24.04	23.82	25.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	24.02	24.01	23.94	25.5	0.0	

Part27Q n77 Ant 7									
BW (MHz)	Modulation	RB 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			3000.01			
100	PI2 BPSK	1	1			21.22			
100	PI2 BPSK	1	137			21.16	22.5	0.0	
100	PI2 BPSK	1	271			21.20			
100	PI2 BPSK	135	0			20.77	22.0	0.5	
100	PI2 BPSK	135	69			21.16	22.5	0.0	
100	PI2 BPSK	135	138			20.87	22.0	0.5	
100	PI2 BPSK	270	0			20.81			
100	QPSK	1	1			21.33			
100	QPSK	1	137			21.25	22.5	0.0	
100	QPSK	1	271			21.13			
100	QPSK	135	0			20.41	21.5	1.0	
100	QPSK	135	69			21.24	22.5	0.0	
100	QPSK	135	138			20.28	21.5	1.0	
100	QPSK	270	0			20.41			
100	16QAM	1	1			20.24	21.5	1.0	
100	16QAM	1	1			18.83	20.0	2.5	
100	25QAM	1	1			18.79	18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	6330.00	6333.34	6336.68	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	21.20	21.20	21.18	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	6326.68	6333.34	6340.00	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	21.13	21.21	21.18	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	6320.00	6333.34	6346.68	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	21.18	21.29	21.09	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	6316.68	6333.34	6350.00	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	21.21	21.30	21.10	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	6310.00	6333.34	6356.68	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	21.15	21.24	21.11	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	6306.68	6333.34	6360.00	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	21.07	21.27	21.11	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	6303.34	6333.34	6363.34	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	21.21	21.27	21.09	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	21.22	21.22	21.12	22.5	0.0	



Part27Q n77 HPUE Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.21	3500.01				
100	PI2 BPSK	1	137	24.19	3500.01	24.19	25.5	0.0	
100	PI2 BPSK	1	271	24.24	3500.01	24.24	25.0	0.5	
100	PI2 BPSK	135	0	23.83	3500.01	23.83	25.5	0.0	
100	PI2 BPSK	135	69	24.20	3500.01	24.20	25.0	0.5	
100	PI2 BPSK	135	138	23.85	3500.01	23.85	25.0	0.5	
100	PI2 BPSK	270	0	23.79	3500.01	23.79	25.0	0.5	
100	QPSK	1	1	24.31	3500.01		25.5	0.0	
100	QPSK	1	137	24.20	3500.01	24.20	24.5	1.0	
100	QPSK	1	271	24.14	3500.01	24.14	25.5	0.0	
100	QPSK	135	0	23.38	3500.01	23.38	24.5	1.0	
100	QPSK	135	69	24.19	3500.01	24.19	24.5	1.0	
100	QPSK	135	138	23.24	3500.01	23.24	24.5	1.0	
100	QPSK	270	0	23.97	3500.01	23.97	24.5	1.0	
100	16QAM	1	1	23.28	3500.01	23.28	23.0	2.5	
100	64QAM	1	1	21.81	3500.01	21.81	23.0	2.5	
100	256QAM	1	1	19.72	3500.01	19.72	23.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	24.16	633000	24.16	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	24.15	633334	24.15	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	24.15	633334	24.15	25.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	24.22	633334	24.22	25.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	24.22	633334	24.22	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	24.17	633334	24.17	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	24.23	633334	24.23	25.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	24.21	633334	24.21	25.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	24.16	633334	24.16	25.5	0.0	

Part27O n78 Ant 7									
BW (MHz)	Modulation	RB 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	20.94	3750	3750			
100	PI2 BPSK	1	137	20.84	3750	3750	22.5	0.0	
100	PI2 BPSK	1	271	20.92	3750	3750	22.0	0.5	
100	PI2 BPSK	135	0	20.82	3750	3750	22.5	0.0	
100	PI2 BPSK	135	69	20.84	3750	3750	22.0	0.5	
100	PI2 BPSK	135	138	20.55	3750	3750	22.0	0.5	
100	PI2 BPSK	270	0	20.57	3750	3750	22.0	0.5	
100	QPSK	1	1	21.03	3750	3750	22.5	0.0	
100	QPSK	1	137	20.96	3750	3750	21.5	1.0	
100	QPSK	1	271	20.80	3750	3750	22.5	0.0	
100	QPSK	135	0	20.16	3750	3750	21.5	1.0	
100	QPSK	135	69	20.94	3750	3750	21.5	1.0	
100	QPSK	135	138	19.92	3750	3750	21.5	1.0	
100	QPSK	270	0	20.16	3750	3750	21.5	1.0	
100	16QAM	1	1	20.00	3750	3750	20.0	2.5	
100	64QAM	1	1	18.49	3750	3750	20.0	2.5	
100	256QAM	1	1	16.46	3750	3750	20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	20.91	650000	20.91	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	20.88	650000	20.88	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	20.88	650000	20.88	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	20.94	650000	20.94	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	20.90	650000	20.90	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	20.92	650000	20.92	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	20.92	650000	20.92	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	20.94	650000	20.94	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	20.94	650000	20.94	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	20.95	650000	20.95	22.5	0.0	

Part27O n78 HPUE Ant 7									
BW (MHz)	Modulation	RB 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	23.91	3750	3750			
100	PI2 BPSK	1	137	23.77	3750	3750	25.5	0.0	
100	PI2 BPSK	1	271	23.84	3750	3750	25.0	0.5	
100	PI2 BPSK	135	0	23.49	3750	3750	25.5	0.0	
100	PI2 BPSK	135	69	23.73	3750	3750	25.0	0.5	
100	PI2 BPSK	135	138	23.46	3750	3750	25.0	0.5	
100	PI2 BPSK	270	0	23.47	3750	3750	25.0	0.5	
100	QPSK	1	1	23.97	3750	3750	25.5	0.0	
100	QPSK	1	137	23.82	3750	3750	24.5	1.0	
100	QPSK	1	271	23.71	3750	3750	25.5	0.0	
100	QPSK	135	0	23.07	3750	3750	24.5	1.0	
100	QPSK	135	69	23.87	3750	3750	24.5	1.0	
100	QPSK	135	138	22.84	3750	3750	24.5	1.0	
100	QPSK	270	0	23.08	3750	3750	24.5	1.0	
100	16QAM	1	1	22.99	3750	3750	23.0	2.5	
100	64QAM	1	1	21.45	3750	3750	23.0	2.5	
100	256QAM	1	1	19.46	3750	3750	23.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	23.83	650000	23.83	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	23.88	650000	23.88	25.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	23.84	650000	23.84	25.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	23.91	650000	23.91	25.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	23.84	650000	23.84	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	23.94	650000	23.94	25.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	23.86	650000	23.86	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	23.84	650000	23.84	25.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	23.83	650000	23.83	25.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	23.84	650000	23.84	25.5	0.0	



Part27Q 78 Ant 7									
BW (MHz)	Modulation	RB 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	21.20					
100	PI2 BPSK	1	137	21.15			22.5	0.0	
100	PI2 BPSK	1	271	21.24					
100	PI2 BPSK	135	0	20.78			22.0	0.5	
100	PI2 BPSK	135	69	21.18			22.5	0.0	
100	PI2 BPSK	135	138	20.84			22.0	0.5	
100	PI2 BPSK	270	0	20.89					
100	QPSK	1	1	21.35					
100	QPSK	1	137	21.30			22.5	0.0	
100	QPSK	1	271	21.14					
100	QPSK	135	0	20.48			21.5	1.0	
100	QPSK	135	69	21.29			22.5	0.0	
100	QPSK	135	138	20.20			21.5	1.0	
100	QPSK	270	0	20.60					
100	16QAM	1	1	20.32			21.5	1.0	
100	64QAM	1	1	18.78			20.0	2.5	
100	256QAM	1	1	18.73			18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.16	21.20	21.09	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.18	21.19	21.14	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	21.21	21.10	21.07	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.18	21.10	21.16	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.17	21.12	21.16	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.24	21.16	21.11	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.24	21.10	21.09	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.26	21.12	21.10	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.15	21.09	21.14	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.26	21.10	21.13	22.5	0.0	

Part27Q 78 HPUE Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.19					
100	PI2 BPSK	1	137	24.16			25.5	0.0	
100	PI2 BPSK	1	271	24.22					
100	PI2 BPSK	135	0	23.79			25.0	0.5	
100	PI2 BPSK	135	69	24.16			25.5	0.0	
100	PI2 BPSK	135	138	23.78			25.0	0.5	
100	PI2 BPSK	270	0	23.89					
100	QPSK	1	1	24.39					
100	QPSK	1	137	24.34			25.5	0.0	
100	QPSK	1	271	24.17					
100	QPSK	135	0	23.46			24.5	1.0	
100	QPSK	135	69	24.25			25.5	0.0	
100	QPSK	135	138	23.15			24.5	1.0	
100	QPSK	270	0	23.69					
100	16QAM	1	1	23.27			24.5	1.0	
100	64QAM	1	1	21.71			23.0	2.5	
100	256QAM	1	1	19.73			21.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	24.15	24.20	24.05	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	24.15	24.17	24.14	25.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	24.10	24.15	24.05	25.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	24.18	24.16	24.15	25.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	24.20	24.26	24.14	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	24.16	24.17	24.08	25.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	24.10	24.20	24.05	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	24.21	24.19	24.10	25.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	24.18	24.15	24.12	25.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	24.12	24.20	24.07	25.5	0.0	

n2 Ant 1 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 375000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000			
Channel									
Frequency (MHz)									
				1860	1880	1900			
20	PI2 BPSK	1	1	22.97	22.94	22.90			
20	PI2 BPSK	1	53	22.99	23.02	22.98	24.5	0.0	
20	PI2 BPSK	1	104	22.79	22.97	22.81			
20	PI2 BPSK	50	0	22.51	22.58	22.45	24.0	0.5	
20	PI2 BPSK	50	28	22.99	23.02	22.94	24.5	0.0	
20	PI2 BPSK	50	56	22.43	22.56	22.43	24.0	0.5	
20	PI2 BPSK	100	0	22.46	22.59	22.51			
20	QPSK	1	1	22.93	23.07	22.86			
20	QPSK	1	53	22.99	23.01	22.94	24.5	0.0	
20	QPSK	1	104	22.79	22.88	22.84			
20	QPSK	50	0	21.96	22.08	22.03	23.5	1.0	
20	QPSK	50	28	22.92	23.05	22.91	24.5	0.0	
20	QPSK	50	56	22.00	22.07	22.05	23.5	1.0	
20	QPSK	100	0	22.06	22.12	22.03			
20	16QAM	1	1	21.76	21.79	21.75	23.5	1.0	
20	64QAM	1	1	20.29	20.40	20.35	22.0	2.5	
20	256QAM	1	1	18.90	19.03	18.97	20.0	4.5	
Channel									
Frequency (MHz)									
				1857.5	1880	1902.5			
15	QPSK	1	1	22.87	22.93	22.93	24.5	0.0	
Channel									
Frequency (MHz)									
				371000	376000	381000			
10	QPSK	1	1	22.84	23.01	22.90	24.5	0.0	
Channel									
Frequency (MHz)									
				375000	376000	381500			
5	QPSK	1	1	22.89	23.02	22.86	24.5	0.0	

Reduced Power Mode for Main PA DSI1									
n5 Ant 1 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 166800	Middle Ch. / Freq. 167300	High Ch. / Freq. 167800			
Channel									
Frequency (MHz)									
				834	836.5	838			
20	PI2 BPSK	1	1	24.20	24.27	24.15			
20	PI2 BPSK	1	53	24.39	24.45	24.36	25.7	0.0	
20	PI2 BPSK	1	104	24.35	24.47	24.34			
20	PI2 BPSK	50	0	23.96	24.09	23.99	25.2	0.5	
20	PI2 BPSK	50	28	24.39	24.45	24.31	25.7	0.0	
20	PI2 BPSK	50	56	24.01	24.09	24.01	25.2	0.5	
20	PI2 BPSK	100	0	24.03	24.08	23.98			
20	QPSK	1	1	24.49	24.58	24.50			
20	QPSK	1	53	24.32	24.43	24.35	25.7	0.0	
20	QPSK	1	104	24.31	24.38	24.29			
20	QPSK	50	0	23.48	23.61	23.54	24.7	1.0	
20	QPSK	50	28	24.39	24.47	24.38	25.7	0.0	
20	QPSK	50	56	23.06	23.11	23.09	24.7	1.0	
20	QPSK	100	0	23.55	23.65	23.52			
20	16QAM	1	1	23.10	23.22	23.18	24.7	1.0	
20	64QAM	1	1	21.70	21.81	21.77	23.2	2.5	
20	256QAM	1	1	20.31	20.42	20.36	21.2	4.5	
Channel									
Frequency (MHz)									
				1653.0	1673.0	1688.0			
15	QPSK	1	1	24.39	24.51	24.38	25.7	0.0	
Channel									
Frequency (MHz)									
				1658.0	1673.0	1688.0			
10	QPSK	1	1	24.39	24.50	24.45	25.7	0.0	
Channel									
Frequency (MHz)									
				1653.0	1673.0	1693.0			
5	QPSK	1	1	24.45	24.48	24.46	25.7	0.0	

n7 Ant 1 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 505000	Middle Ch. / Freq. 507000	High Ch. / Freq. 509000			
Channel									
Frequency (MHz)									
				2525	2535	2545			
50	PI2 BPSK	1	1	23.38	23.45	23.37			
50	PI2 BPSK	1	135	23.38	23.44	23.41	25.0	0.0	
50	PI2 BPSK	1	268	23.31	23.33	23.19			
50	PI2 BPSK	135	0	22.90	23.00	22.90	24.5	0.5	
50	PI2 BPSK	135	68	23.35	23.40	23.35	25.0	0.0	
50	PI2 BPSK	135	135	23.02	23.15	23.13	24.5	0.5	
50	PI2 BPSK	270	0	22.94	23.04	22.96			
50	QPSK	1	1	23.38	23.41	23.35			
50	QPSK	1	135	23.33	23.46	23.34	25.0	0.0	
50	QPSK	1	268	23.49	23.52	23.45			
50	QPSK	135	0	22.44	22.50	22.38	24.0	1.0	
50	QPSK	135	68	23.34	23.42	23.38	25.0	0.0	
50	QPSK	135	135	22.54	22.63	22.57	24.0	1.0	
50	QPSK	270	0	22.50	22.58	22.45			
50	16QAM	1	1	22.12	22.26	22.12	24.0	1.0	
50	64QAM	1	1	20.75	20.85	20.81	22.5	2.5	
50	256QAM	1	1	19.04	19.03	19.00	20.5	4.5	
Channel									
Frequency (MHz)									
				5020.0	5070.0	5100.0			
40	QPSK	1	1	23.38	23.48	23.37	25.0	0.0	
Channel									
Frequency (MHz)									
				5030.0	5070.0	5110.0			
30	QPSK	1	1	23.44	23.46	23.39	25.0	0.0	
Channel									
Frequency (MHz)									
				5025.0	5070.0	5115.0			
25	QPSK	1	1	23.38	23.40	23.38	25.0	0.0	
Channel									
Frequency (MHz)									
				5020.0	5070.0	5120.0			
20	QPSK	1	1	23.37	23.40	23.35	25.0	0.0	
Channel									
Frequency (MHz)									
				5015.0	5070.0	5125.0			
15	QPSK	1	1	23.45	23.49	23.32	25.0	0.0	
Channel									
Frequency (MHz)									
				2505	2535	2565			
10	QPSK	1	1	23.40	23.40	23.40	25.0	0.0	
Channel									
Frequency (MHz)									
				5050.0	5070.0	5135.0			
5	QPSK	1	1	23.46	23.47	23.40	25.0	0.0	

n66 Ant 1 DS11								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.64	23.75	23.85		
40	PI2 BPSK	1	108	23.23	23.67	23.85	25.5	0.0
40	PI2 BPSK	1	214	23.54	23.64	23.81		
40	PI2 BPSK	108	0	23.10	23.17	23.03	25.0	0.5
40	PI2 BPSK	108	54	23.55	23.86	23.52	25.5	0.0
40	PI2 BPSK	108	108	23.13	23.22	23.09		
40	PI2 BPSK	216	0	23.19	23.28	23.17	25.0	0.5
40	QPSK	1	1	23.69	23.78	23.74		
40	QPSK	1	108	23.59	23.62	23.56	25.5	0.0
40	QPSK	1	214	23.54	23.59	23.54		
40	QPSK	108	0	22.54	22.60	22.53	24.5	1.0
40	QPSK	108	54	23.58	23.62	23.51	25.5	0.0
40	QPSK	108	108	22.65	22.70	22.66	24.5	1.0
40	QPSK	216	0	22.65	22.67	22.63		
40	16QAM	1	1	22.62	22.64	22.56	24.5	1.0
40	64QAM	1	1	21.03	21.15	21.04	23.0	2.5
40	256QAM	1	1	19.40	19.48	19.37	21.0	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.58	23.74	23.62	25.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1720	1745	1767.5		
25	QPSK	1	1	23.63	23.69	23.61	25.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.65	23.69	23.72	25.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.61	23.73	23.63	25.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.59	23.67	23.66	25.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.65	23.72	23.66	25.5	0.0

n7 Ant 3 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.84	21.87	21.84		
50	PI/2 BPSK	1	135	21.75	21.83	21.73	22.5	0.0
50	PI/2 BPSK	1	268	21.79	21.87	21.83		
50	PI/2 BPSK	135	0	21.76	21.80	21.76	22.5	0.0
50	PI/2 BPSK	135	68	21.76	21.90	21.76	22.5	0.0
50	PI/2 BPSK	135	135	21.81	21.87	21.85	22.5	0.0
50	PI/2 BPSK	270	0	21.82	21.87	21.77		
50	QPSK	1	1	21.82	21.85	21.79		
50	QPSK	1	135	21.76	21.81	21.79	22.5	0.0
50	QPSK	1	268	21.86	21.91	21.87		
50	QPSK	135	0	21.80	21.83	21.77	22.5	0.0
50	QPSK	135	68	21.84	21.86	21.80	22.5	0.0
50	QPSK	135	135	21.75	21.84	21.77	22.5	0.0
50	QPSK	270	0	21.86	21.89	21.80		
50	16QAM	1	1	21.80	21.82	21.73	22.5	0.0
50	64QAM	1	1	21.32	21.37	21.34	22.0	0.5
50	256QAM	1	1	19.33	19.37	19.28	20.0	2.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	21.74	21.90	21.77	22.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.76	21.90	21.86	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.82	21.89	21.85	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	21.81	21.89	21.83	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.84	21.89	21.80	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.78	21.89	21.76	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.80	21.87	21.77	22.5	0.0



n2 Ant 4 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	14.54	14.55	14.49		
20	PI2 BPSK	1	53	14.54	14.56	14.48	16.0	0.0
20	PI2 BPSK	1	104	14.53	14.51	14.53		
20	PI2 BPSK	50	0	14.51	14.57	14.51	16.0	0.0
20	PI2 BPSK	50	28	14.46	14.56	14.54	16.0	0.0
20	PI2 BPSK	50	58	14.52	14.52	14.48	16.0	0.0
20	PI2 BPSK	100	0	14.50	14.54	14.48		
20	QPSK	1	1	14.53	14.59	14.53		
20	QPSK	1	53	14.46	14.54	14.46	16.0	0.0
20	QPSK	1	104	14.51	14.55	14.46		
20	QPSK	50	0	14.50	14.54	14.52	16.0	0.0
20	QPSK	50	28	14.53	14.55	14.51	16.0	0.0
20	QPSK	50	58	14.53	14.54	14.52	16.0	0.0
20	QPSK	100	0	14.56	14.56	14.54	16.0	0.0
20	16QAM	1	1	14.53	14.53	14.48	16.0	0.0
20	16QAM	1	1	14.48	14.51	14.54	16.0	0.0
20	256QAM	1	1	14.52	14.51	14.56	16.0	0.0
Channel				371500	376000	380500	Tune-up limit (dB)	MPR
Frequency (MHz)				1857.5	1860	1902.5		
15	QPSK	1	1	14.51	14.57	14.48	16.0	0.0
Channel				371000	376000	381000	Tune-up limit (dB)	MPR
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	14.50	14.46	14.46	16.0	0.0
Channel				370500	376000	381500	Tune-up limit (dB)	MPR
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	14.43	14.58	14.47	16.0	0.0

n5 Ant 4 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167200	167600		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.18	23.20	23.13		
20	PI2 BPSK	1	53	23.13	23.21	23.15	24.2	0.0
20	PI2 BPSK	1	104	23.25	23.26	23.11		
20	PI2 BPSK	50	0	23.23	23.23	23.18	24.2	0.0
20	PI2 BPSK	50	28	23.16	23.22	23.20	24.2	0.0
20	PI2 BPSK	50	58	23.19	23.24	23.19	24.2	0.0
20	PI2 BPSK	100	0	23.17	23.25	23.12		
20	QPSK	1	1	23.21	23.27	23.16		
20	QPSK	1	53	23.23	23.26	23.15	24.2	0.0
20	QPSK	1	104	23.20	23.23	23.22		
20	QPSK	50	0	23.24	23.21	23.12	24.2	0.0
20	QPSK	50	28	23.23	23.26	23.20	24.2	0.0
20	QPSK	50	58	23.20	23.21	23.21	24.2	0.0
20	QPSK	100	0	23.21	23.23	23.12		
20	16QAM	1	1	23.16	23.26	23.19	24.2	0.0
20	16QAM	1	1	22.25	22.31	22.16	23.2	1.0
20	256QAM	1	1	20.13	20.30	20.19	21.2	3.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.18	23.26	23.12	24.2	0.0
Channel				165800	167300	168800	Tune-up limit (dB)	MPR
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.20	23.09	24.2	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.15	23.28	23.12	24.2	0.0

n7 Ant 4 DSI1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509200	509300	509400		
Frequency (MHz)				2595	2595	2645		
50	PI2 BPSK	1	1	17.48	17.47	17.46		
50	PI2 BPSK	1	135	17.51	17.51	17.43	19.0	0.0
50	PI2 BPSK	1	268	17.53	17.52	17.49		
50	PI2 BPSK	135	0	17.48	17.52	17.50	19.0	0.0
50	PI2 BPSK	135	68	17.49	17.54	17.47	19.0	0.0
50	PI2 BPSK	135	135	17.46	17.54	17.50	19.0	0.0
50	PI2 BPSK	270	0	17.47	17.53	17.48		
50	QPSK	1	1	17.42	17.52	17.46		
50	QPSK	1	135	17.49	17.53	17.49	19.0	0.0
50	QPSK	1	268	17.51	17.58	17.50		
50	QPSK	135	0	17.49	17.48	17.44	19.0	0.0
50	QPSK	135	68	17.50	17.51	17.48	19.0	0.0
50	QPSK	135	135	17.48	17.50	17.44	19.0	0.0
50	QPSK	270	0	17.47	17.54	17.43		
50	16QAM	1	1	17.43	17.52	17.47	19.0	0.0
50	16QAM	1	1	17.46	17.50	17.43	19.0	0.0
50	256QAM	1	1	17.52	17.47	17.45	19.0	0.0
Channel				509000	509300	510000	Tune-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2650		
40	QPSK	1	1	17.49	17.57	17.47	19.0	0.0
Channel				509000	509300	511000	Tune-up limit (dB)	MPR
Frequency (MHz)				2595	2595	2655		
30	QPSK	1	1	17.49	17.54	17.39	19.0	0.0
Channel				508500	509300	511500	Tune-up limit (dB)	MPR
Frequency (MHz)				2592.5	2595	2657.5		
25	QPSK	1	1	17.40	17.57	17.45	19.0	0.0
Channel				508000	509300	512000	Tune-up limit (dB)	MPR
Frequency (MHz)				2590	2595	2660		
20	QPSK	1	1	17.49	17.51	17.38	19.0	0.0
Channel				501600	509300	512500	Tune-up limit (dB)	MPR
Frequency (MHz)				2597.5	2595	2662.5		
15	QPSK	1	1	17.42	17.55	17.41	19.0	0.0
Channel				501000	509300	513000	Tune-up limit (dB)	MPR
Frequency (MHz)				2595	2595	2665		
10	QPSK	1	1	17.48	17.54	17.44	19.0	0.0
Channel				500500	509300	513500	Tune-up limit (dB)	MPR
Frequency (MHz)				2592.5	2595	2667.5		
5	QPSK	1	1	17.49	17.57	17.39	19.0	0.0

n38 Ant 1 DSI1									
BW [MHz]	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	PI/2 BPSK	1	1	23.29	23.35	23.35			
40	PI/2 BPSK	1	53	23.31	23.36	23.33	25.0	0.0	
40	PI/2 BPSK	1	104	23.32	23.40	23.33			
40	PI/2 BPSK	50	0	22.95	22.93	22.89	24.5	0.5	
40	PI/2 BPSK	50	28	23.33	23.37	23.38	25.0	0.0	
40	PI/2 BPSK	50	56	22.87	22.98	22.84	24.5	0.5	
40	PI/2 BPSK	100	0	22.91	22.97	22.95			
40	QPSK	1	1	23.42	23.47	23.40			
40	QPSK	1	53	23.38	23.39	23.31	25.0	0.0	
40	QPSK	1	104	23.33	23.40	23.30			
40	QPSK	50	0	22.43	22.43	22.42	24.0	1.0	
40	QPSK	50	28	23.38	23.42	23.30	25.0	0.0	
40	QPSK	50	56	22.47	22.50	22.39	24.0	1.0	
40	QPSK	100	0	22.37	22.53	22.43			
40	16QAM	1	1	22.44	22.48	22.35	24.0	1.0	
40	64QAM	1	1	20.92	20.95	20.86	22.5	2.5	
40	256QAM	1	1	18.88	18.99	18.91	20.5	4.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	23.40	23.43	23.29	25.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	23.32	23.42	23.35	25.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.34	23.37	23.33	25.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	23.39	23.43	23.33	25.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.32	23.41	23.27	25.0	0.0	

n41 Ant 1 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.35	23.45	23.41			
100	PI/2 BPSK	1	137	23.40	23.35	23.35	25.0	0.0	
100	PI/2 BPSK	1	271	23.35	23.47	23.35			
100	PI/2 BPSK	135	0	23.01	22.95	22.98	24.5	0.5	
100	PI/2 BPSK	135	69	23.41	23.43	23.45	25.0	0.0	
100	PI/2 BPSK	135	138	22.96	23.08	22.91	24.5	0.5	
100	PI/2 BPSK	270	0	22.91	23.06	23.00			
100	QPSK	1	1	23.51	23.53	23.48			
100	QPSK	1	137	23.44	23.44	23.37	25.0	0.0	
100	QPSK	1	271	23.40	23.46	23.38			
100	QPSK	135	0	22.45	22.53	22.42	24.0	1.0	
100	QPSK	135	69	23.43	23.51	23.31	25.0	0.0	
100	QPSK	135	138	22.48	22.51	22.43	24.0	1.0	
100	QPSK	270	0	22.45	22.56	22.44			
100	16QAM	1	1	22.47	22.47	22.41	24.0	1.0	
100	64QAM	1	1	20.95	21.05	20.88	22.5	2.5	
100	256QAM	1	1	18.94	19.06	18.96	20.5	4.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.48	23.47	23.39	25.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.48	23.51	23.34	25.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.45	23.47	23.39	25.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.42	23.40	23.46	25.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.40	23.51	23.44	25.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.48	23.49	23.40	25.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.44	23.41	23.46	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	23.38	23.45	23.43	25.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.48	23.43	23.40	25.0	0.0	



n48 Ant 2 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.20	17.24	17.21			
40	PI2 BPSK	1	53	17.12	17.23	17.18	18.5	0.0	
40	PI2 BPSK	1	104	17.15	17.22	17.17			
40	PI2 BPSK	50	0	17.15	17.22	17.11	18.5	0.0	
40	PI2 BPSK	50	28	17.21	17.25	17.16	18.5	0.0	
40	PI2 BPSK	50	56	17.16	17.16	17.15	18.5	0.0	
40	PI2 BPSK	100	0	17.14	17.25	17.19			
40	QPSK	1	1	17.21	17.27	17.24			
40	QPSK	1	53	17.16	17.20	17.19	18.5	0.0	
40	QPSK	1	104	17.18	17.24	17.14			
40	QPSK	50	0	17.12	17.18	17.16	17.5	1.0	
40	QPSK	50	28	17.12	17.20	17.18	18.5	0.0	
40	QPSK	50	56	17.17	17.19	17.19	17.5	1.0	
40	QPSK	100	0	17.17	17.24	17.19			
40	16QAM	1	1	17.14	17.23	17.16	18.5	0.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	0.5	
40	256QAM	1	1	14.03	14.73	14.68	15.0	2.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3565.02	3624.99	3684.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.18	17.23	17.17	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	637.68	641666	646166	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.11	17.24	17.22	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	637.00	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.21	17.21	17.13	18.5	0.0	

Par270 n77 Ant 2 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.89	17.94	17.92			
100	PI2 BPSK	1	137	17.87	17.95	17.81	19.5	0.0	
100	PI2 BPSK	1	271	17.84	17.96	17.90			
100	PI2 BPSK	135	0	17.48	17.49	17.47	19.0	0.5	
100	PI2 BPSK	135	69	17.91	17.88	17.92	19.5	0.0	
100	PI2 BPSK	135	138	17.49	17.56	17.43	19.0	0.5	
100	PI2 BPSK	270	0	17.49	17.51	17.44			
100	QPSK	1	1	17.99	18.02	17.95			
100	QPSK	1	137	17.90	17.86	17.86	19.5	0.0	
100	QPSK	1	271	17.91	17.95	17.85			
100	QPSK	135	0	16.95	17.05	16.94	18.5	1.0	
100	QPSK	135	69	17.86	17.86	17.90	19.5	0.0	
100	QPSK	135	138	17.00	16.99	16.96	18.5	1.0	
100	QPSK	270	0	16.96	17.00	16.92			
100	16QAM	1	1	16.96	16.98	16.90	18.5	1.0	
100	64QAM	1	1	15.49	15.49	15.44	17.0	2.5	
100	256QAM	1	1	13.54	13.48	13.39	15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	17.86	17.88	17.83	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.90	17.95	17.81	19.5	0.0	
80	QPSK	1	109	646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	81	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.92	17.89	17.86	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.93	17.93	17.86	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	17.85	17.95	17.79	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	3707.52	3840	3972.51	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	12	17.90	17.92	17.87	19.5	0.0	

Par270 n77 HPUE Ant 2 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.94	19.04	18.91			
100	PI2 BPSK	1	137	18.88	19.07	18.96	20.5	0.0	
100	PI2 BPSK	1	271	18.90	19.09	18.91			
100	PI2 BPSK	135	0	18.94	19.07	19.00	20.5	0.0	
100	PI2 BPSK	135	69	18.96	19.07	19.00	20.5	0.0	
100	PI2 BPSK	135	138	18.94	19.04	18.97	20.5	0.0	
100	PI2 BPSK	270	0	18.97	19.02	18.99			
100	QPSK	1	1	18.94	19.10	18.97			
100	QPSK	1	137	18.89	18.99	18.95	20.5	0.0	
100	QPSK	1	271	18.91	19.00	18.92			
100	QPSK	135	0	18.90	19.02	18.96	19.5	1.0	
100	QPSK	135	69	18.92	19.05	19.01	20.5	0.0	
100	QPSK	135	138	18.92	18.98	18.97	19.5	1.0	
100	QPSK	270	0	18.96	19.03	19.01			
100	16QAM	1	1	18.95	19.05	18.95	20.0	0.5	
100	64QAM	1	1	18.43	18.47	18.39	20.0	0.5	
100	256QAM	1	1	16.51	16.46	16.37	18.0	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	18.88	19.09	18.91	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.85	19.07	18.88	20.5	0.0	
80	QPSK	1	109	646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.93	19.01	18.96	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.87	19.00	18.97	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.91	19.07	18.86	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	3707.52	3840	3972.51	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.94	19.09	18.94	20.5	0.0	



Part27Q n77 Ant 2 DSI1									
BW (MHz)	Modulation	RB 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	18.02	3500.01				
100	PI2 BPSK	1	137	18.06			19.5	0.0	
100	PI2 BPSK	1	271	18.02					
100	PI2 BPSK	135	0	17.69			19.0	0.5	
100	PI2 BPSK	135	69	18.07			19.5	0.0	
100	PI2 BPSK	135	138	17.65			19.0	0.5	
100	PI2 BPSK	270	0	17.63					
100	QPSK	1	1	18.15					
100	QPSK	1	137	18.06			19.5	0.0	
100	QPSK	1	271	18.06					
100	QPSK	135	0	17.12			19.5	0.0	
100	QPSK	135	69	18.09			19.5	0.0	
100	QPSK	135	138	17.15			19.5	0.0	
100	QPSK	270	0	17.10					
100	16QAM	1	1	17.10			18.5	1.0	
100	16QAM	1	1	15.68			17.0	2.5	
100	25QAM	1	1	13.67			15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	62800	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	62600	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	62300	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	62100	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	61900	63334	63668	Tune-up limit (dBm)	MPR (dB)	

Part27Q n77 HPUE Ant 2 DSI1									
BW (MHz)	Modulation	RB 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	19.22	3500.01				
100	PI2 BPSK	1	137	19.21			20.5	0.0	
100	PI2 BPSK	1	271	19.22					
100	PI2 BPSK	135	0	19.21			20.5	0.0	
100	PI2 BPSK	135	69	19.23			20.5	0.0	
100	PI2 BPSK	135	138	19.16			20.5	0.0	
100	PI2 BPSK	270	0	19.21					
100	QPSK	1	1	19.25					
100	QPSK	1	137	19.19			20.5	0.0	
100	QPSK	1	271	19.16					
100	QPSK	135	0	19.23			19.5	1.0	
100	QPSK	135	69	19.24			20.5	0.0	
100	QPSK	135	138	19.21			19.5	1.0	
100	QPSK	270	0	19.23					
100	16QAM	1	1	19.16			20.5	0.5	
100	16QAM	1	1	18.70			18.0	2.5	
100	25QAM	1	1	16.73			16.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	62800	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	62600	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	62300	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	62100	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	61900	63334	63668	Tune-up limit (dBm)	MPR (dB)	

Part27Q n78 Ant 2 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		18.09		19.5	0.0	
100	PI2 BPSK	1	271		18.08				
100	PI2 BPSK	135	0		18.04				
100	PI2 BPSK	135	69		17.63		19.0	0.5	
100	PI2 BPSK	135	138		17.63		19.5	0.0	
100	PI2 BPSK	270	0		17.61		19.0	0.5	
100	QPSK	1	1		18.12				
100	QPSK	1	137		18.03		19.5	0.0	
100	QPSK	1	271		18.05				
100	QPSK	135	0		17.16		18.5	1.0	
100	QPSK	135	69		18.00		19.5	0.0	
100	QPSK	135	138		17.08		18.5	1.0	
100	QPSK	270	0		17.05				
100	16QAM	1	1		17.13		18.5	1.0	
100	16QAM	1	1		15.58		17.0	2.5	
100	25QAM	1	1		13.00		15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	95	64768	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	64668	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	64568	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	64468	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	64368	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	64268	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	64168	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	64068	65000	65034	Tune-up limit (dBm)	MPR (dB)	



Part270 n78 HPUE Ant 2 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	1		18.68		20.0	0.0	
100	PI2 BPSK	1	137		18.82				
100	PI2 BPSK	1	271		18.68				
100	PI2 BPSK	135	0		18.66		20.0	0.0	
100	PI2 BPSK	135	69		18.84		20.0	0.0	
100	PI2 BPSK	135	138		18.66		20.0	0.0	
100	PI2 BPSK	270	0		18.67				
100	QPSK	1	1		18.69				
100	QPSK	1	137		18.80		20.0	0.0	
100	QPSK	1	271		18.82				
100	QPSK	135	0		18.63		20.0	0.0	
100	QPSK	135	69		18.68		20.0	0.0	
100	QPSK	135	138		18.65		20.0	0.0	
100	QPSK	270	0		18.65				
100	16QAM	1	1		18.68		20.0	0.0	
100	64QAM	1	1		18.63		20.0	0.0	
100	256QAM	1	1		18.62		18.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
90	QPSK	1	123	18.47	18.46	18.35	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
				3742.91	3750	3757.92			
80	QPSK	1	109	18.39	18.47	18.38	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
				3740.81	3750	3760.81			
70	QPSK	1	96	18.44	18.55	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
				3738.02	3750	3760.01			
60	QPSK	1	81	18.41	18.56	18.30	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	64834	65000	65100	Tune-up limit (dBm)	MPR (dB)	
				3735.01	3750	3775.02			
50	QPSK	1	67	18.43	18.50	18.38	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
				3732.01	3750	3792.01			
40	QPSK	1	53	18.45	18.47	18.40	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
				3729.01	3750	3803.01			
30	QPSK	1	39	18.40	18.54	18.40	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
				3716.01	3750	3850.02			
20	QPSK	1	26	18.45	18.46	18.41	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
				3713.02	3750	3891.01			
15	QPSK	1	19	18.47	18.47	18.38	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	64668	65000	65334	Tune-up limit (dBm)	MPR (dB)	
				3710.02	3750	3921.01			
10	QPSK	1	12	18.39	18.55	18.37	20.0	0.0	

Part27Q 78 Ant 2 DSI1									
BW (MHz)	Modulation	RB 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		3000.01				
100	PI2 BPSK	1	1		18.14		19.5	0.0	
100	PI2 BPSK	1	137		18.14				
100	PI2 BPSK	1	271		18.18				
100	PI2 BPSK	135	0		17.74		19.0	0.5	
100	PI2 BPSK	135	69		18.13		19.5	0.0	
100	PI2 BPSK	135	138		17.69		19.0	0.5	
100	PI2 BPSK	270	0		17.69				
100	QPSK	1	1		18.28				
100	QPSK	1	137		18.22		19.5	0.0	
100	QPSK	1	271		18.18				
100	QPSK	135	0		17.21		19.5	0.0	
100	QPSK	135	69		18.22		19.5	0.0	
100	QPSK	135	138		17.27		19.5	0.0	
100	QPSK	270	0		17.27				
100	16QAM	1	1		17.22		18.5	1.0	
100	64QAM	1	1		15.72		17.0	2.5	
100	256QAM	1	1		13.73		15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
90	QPSK	1	123	18.13	18.12	18.16	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	63268	63334	63400	Tune-up limit (dBm)	MPR (dB)	
				3492.02	3500.01	3510.01			
80	QPSK	1	109	18.19	18.13	18.13	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
				3489.01	3500.01	3515.01			
70	QPSK	1	96	18.11	18.15	18.12	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
				3486	3500.01	3520.02			
60	QPSK	1	81	18.19	18.14	18.07	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	67	18.14	18.14	18.19	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
				3472.01	3500.01	3528.01			
40	QPSK	1	53	18.10	18.22	18.12	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
				3469	3500.01	3535.02			
30	QPSK	1	39	18.12	18.10	18.09	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
				3466.02	3500.01	3540			
20	QPSK	1	26	18.13	18.16	18.14	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
				3463.01	3500.01	3545.02			
15	QPSK	1	19	18.14	18.18	18.10	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)	
				3460.01	3500.01	3548.01			
10	QPSK	1	12	18.14	18.15	18.07	19.5	0.0	

Part27Q 78 HPUE Ant 2 DSI1									
BW (MHz)	Modulation	RB 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		3000.01				
100	PI2 BPSK	1	1		18.82		20.0	0.0	
100	PI2 BPSK	1	137		18.83				
100	PI2 BPSK	1	271		18.80				
100	PI2 BPSK	135	0		18.82		20.0	0.0	
100	PI2 BPSK	135	69		18.80		20.0	0.0	
100	PI2 BPSK	135	138		18.83		20.0	0.0	
100	PI2 BPSK	270	0		18.77				
100	QPSK	1	1		18.85				
100	QPSK	1	137		18.80		20.0	0.0	
100	QPSK	1	271		18.82				
100	QPSK	135	0		18.82		20.0	0.0	
100	QPSK	135	69		18.84		20.0	0.0	
100	QPSK	135	138		18.83		20.0	0.0	
100	QPSK	270	0		18.81				
100	16QAM	1	1		18.78		20.0	0.0	
100	64QAM	1	1		18.74		20.0	0.0	
100	256QAM	1	1		18.77		18.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
90	QPSK	1	123	18.44	18.61	18.60	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	63268	63334	63400	Tune-up limit (dBm)	MPR (dB)	
				3492.01	3500.01	3510.01			
80	QPSK	1	109	18.53	18.59	18.60	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
				3489.01	3500.01	3515.01			



n38 Ant 3 DS11									
BW (MHz)	Modulation	RB 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	22.28	22.34	22.25			
40	PI2 BPSK	1	53	22.25	22.28	22.30	23.0	0.0	
40	PI2 BPSK	1	104	22.20	22.27	22.24			
40	PI2 BPSK	50	0	22.19	22.26	22.25	23.0	0.0	
40	PI2 BPSK	50	28	22.19	22.28	22.28	23.0	0.0	
40	PI2 BPSK	50	56	22.20	22.33	22.30	23.0	0.0	
40	PI2 BPSK	100	0	22.22	22.29	22.25	23.0	0.0	
40	QPSK	1	1	22.28	22.35	22.28			
40	QPSK	1	53	22.25	22.27	22.25	23.0	0.0	
40	QPSK	1	104	22.23	22.26	22.32			
40	QPSK	50	0	22.22	22.27	22.27	23.0	0.0	
40	QPSK	50	28	22.28	22.33	22.24	23.0	0.0	
40	QPSK	50	56	22.16	22.33	22.22	23.0	0.0	
40	QPSK	100	0	22.22	22.31	22.25	23.0	0.0	
40	16QAM	1	1	22.18	22.23	22.25	23.0	0.0	
40	64QAM	1	1	21.28	21.33	21.20	22.0	1.0	
40	256QAM	1	1	19.22	19.30	19.27	23.0	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.21	22.31	22.23	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.24	22.31	22.20	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.14	22.31	22.18	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.23	22.30	22.24	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.23	22.31	22.18	23.0	0.0	

n41 Ant 3 DS11									
BW (MHz)	Modulation	RB 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	22.22	22.32	22.23			
100	PI2 BPSK	1	137	22.25	22.33	22.25	23.0	0.0	
100	PI2 BPSK	1	271	22.28	22.31	22.30			
100	PI2 BPSK	135	0	22.18	22.30	22.27	23.0	0.0	
100	PI2 BPSK	135	69	22.22	22.30	22.28	23.0	0.0	
100	PI2 BPSK	135	138	22.27	22.33	22.27	23.0	0.0	
100	PI2 BPSK	270	0	22.25	22.32	22.24	23.0	0.0	
100	QPSK	1	1	22.27	22.38	22.28			
100	QPSK	1	197	22.24	22.35	22.24	23.0	0.0	
100	QPSK	1	271	22.19	22.36	22.25			
100	QPSK	135	0	22.25	22.34	22.33	23.0	0.0	
100	QPSK	135	69	22.28	22.35	22.27	23.0	0.0	
100	QPSK	135	138	22.27	22.34	22.27	23.0	0.0	
100	QPSK	270	0	22.24	22.36	22.28	23.0	0.0	
100	16QAM	1	1	22.21	22.31	22.29	23.0	0.0	
100	64QAM	1	1	21.32	21.41	21.21	22.0	1.0	
100	256QAM	1	1	19.28	19.34	19.31	23.0	3.0	
Channel									
Frequency (MHz)									
80	QPSK	1	123	22.20	22.33	22.15	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	22.21	22.32	22.18	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	22.29	22.32	22.20	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.21	22.34	22.15	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.22	22.35	22.19	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	22.18	22.32	22.25	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.20	22.32	22.19	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	22.19	22.37	22.17	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.21	22.37	22.15	23.0	0.0	

n48 Ant 3 DS11									
BW (MHz)	Modulation	RB 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	19.94	19.96	19.95			
40	PI2 BPSK	1	53	19.98	19.91	19.96	21.5	0.0	
40	PI2 BPSK	1	104	19.88	19.99	19.91			
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5	0.0	
40	PI2 BPSK	50	28	19.91	19.97	19.95	21.5	0.0	
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5	0.0	
40	PI2 BPSK	100	0	19.98	20.04	20.07	21.5	0.0	
40	QPSK	1	1	19.97	20.10	20.01			
40	QPSK	1	53	19.95	19.99	20.01	21.5	0.0	
40	QPSK	1	104	19.97	20.03	19.99			
40	QPSK	50	0	19.97	20.07	19.97	21.0	0.5	
40	QPSK	50	28	19.99	20.08	19.98	21.5	0.0	
40	QPSK	50	56	19.98	20.06	20.05	21.0	0.5	
40	QPSK	100	0	19.93	20.05	19.95	21.0	0.5	
40	16QAM	1	1	19.95	20.06	20.02	21.0	2.0	
40	64QAM	1	1	17.98	18.10	18.05	19.5	2.0	
40	256QAM	1	1	15.98	16.11	16.00	17.5	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.94	20.02	19.90	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.91	20.04	20.01	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.95	20.07	19.91	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.89	20.07	20.00	21.5	0.0	



Par270 n77 Ant 3 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.42	18.47	18.41			
100	PI2 BPSK	1	137	18.44	18.53	18.48	20.0	0.0	
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PI2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.56	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.58	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	16QAM	1	1	18.02	18.10	18.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3 DSI1									
BW (MHz)	Modulation	RB 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	20.03	20.06	20.03			
100	PI2 BPSK	1	137	20.04	20.11	20.09	21.5	0.0	
100	PI2 BPSK	1	271	20.11	20.13	20.08			
100	PI2 BPSK	135	0	20.05	20.14	20.09	21.5	0.0	
100	PI2 BPSK	135	69	20.02	20.14	20.05	21.5	0.0	
100	PI2 BPSK	135	138	20.05	20.15	20.03	21.5	0.0	
100	PI2 BPSK	270	0	20.09	20.14	20.04			
100	QPSK	1	1	20.10	20.16	20.10			
100	QPSK	1	137	20.10	20.11	20.09	21.5	0.0	
100	QPSK	1	271	20.08	20.10	20.01			
100	QPSK	135	0	20.09	20.14	20.08	21.5	0.0	
100	QPSK	135	69	20.06	20.07	20.03	21.5	0.0	
100	QPSK	135	138	20.09	20.10	20.06	21.5	0.0	
100	QPSK	270	0	20.06	20.11	20.06			
100	16QAM	1	1	20.10	20.13	20.07	21.5	0.0	
100	16QAM	1	1	19.06	19.08	19.01	20.5	1.0	
100	256QAM	1	1	17.04	17.02	17.02	18.5	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	20.03	20.10	20.05	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	20.09	20.14	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	20.01	20.10	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	20.02	20.13	20.02	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	20.03	20.14	19.98	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	20.03	20.13	20.09	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	20.02	20.11	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	20.03	20.15	20.00	21.5	0.0	

Part27Q n77 Ant 3 DSI1									
BW (MHz)	Modulation	RB 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			3000.01			
100	PI2 BPSK	1	137			18.82			
100	PI2 BPSK	1	137			18.82	20.0	0.0	
100	PI2 BPSK	1	271			18.80			
100	PI2 BPSK	135	0			18.42			
100	PI2 BPSK	135	69			18.78			
100	PI2 BPSK	135	138			18.44			
100	PI2 BPSK	270	0			18.31			
100	QPSK	1	1			18.89			
100	QPSK	1	137			18.85			
100	QPSK	1	271			18.77			
100	QPSK	135	0			17.90			
100	QPSK	135	69			18.87			
100	QPSK	135	138			17.81			
100	QPSK	270	0			17.87			
100	16QAM	1	1			17.80			
100	16QAM	1	1			18.42			
100	256QAM	1	1			14.40			
Channel									
Frequency (MHz)									
90	QPSK	1	123	6330.00	6333.34	6336.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.71	18.80	18.74	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.22	18.29	18.09	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.76	18.81	18.74	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.77	18.80	18.73	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.74	18.79	18.69	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.70	18.82	18.68	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.70	18.83	18.71	20.0	0.0	



Part27Q n77 HPUE Ant 3 DSI1									
BW (MHz)	Modulation	RB 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		3500.01				
100	PI2 BPSK	1	137		20.42				
100	PI2 BPSK	1	271		20.46				
100	PI2 BPSK	1	271		20.46				
100	PI2 BPSK	135	0		20.39		21.5	0.0	
100	PI2 BPSK	135	69		20.41		21.5	0.0	
100	PI2 BPSK	135	138		20.45		21.5	0.0	
100	PI2 BPSK	270	0		20.40		21.5	0.0	
100	QPSK	1	1		20.52				
100	QPSK	1	137		20.50				
100	QPSK	1	271		20.53				
100	QPSK	135	0		20.46		21.5	0.0	
100	QPSK	135	69		20.50		21.5	0.0	
100	QPSK	135	138		20.45		21.5	0.0	
100	QPSK	270	0		20.46		21.5	0.0	
100	16QAM	1	1		20.41		20.5	1.0	
100	64QAM	1	1		19.43		17.5	2.5	
100	256QAM	1	1		17.43		15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	81	631000	632334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	630000	631334	632668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	629000	630334	631668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	628000	629334	630668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	627000	628334	629668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	626000	627334	628668	Tune-up limit (dBm)	MPR (dB)	

Part27O n78 Ant 3 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750			
100	PI2 BPSK	1	137		18.57				
100	PI2 BPSK	1	271		18.55		20.0	0.0	
100	PI2 BPSK	1	271		18.58				
100	PI2 BPSK	135	0		18.09		19.5	0.5	
100	PI2 BPSK	135	69		18.59		20.0	0.0	
100	PI2 BPSK	135	138		18.22		19.5	0.5	
100	PI2 BPSK	270	0		18.17		20.0	0.0	
100	QPSK	1	1		18.05				
100	QPSK	1	137		18.59				
100	QPSK	1	271		18.56				
100	QPSK	135	0		17.57		18.0	1.0	
100	QPSK	135	69		18.00		20.0	0.0	
100	QPSK	135	138		17.80		19.0	1.0	
100	QPSK	270	0		17.66		19.0	1.0	
100	16QAM	1	1		17.58		17.5	2.5	
100	64QAM	1	1		16.15		17.5	2.5	
100	256QAM	1	1		14.14		15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	81	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	67	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	53	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	26	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	19	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	12	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	

Part27O n78 HPUE Ant 3 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750			
100	PI2 BPSK	1	137		18.62				
100	PI2 BPSK	1	271		18.67		21.0	0.0	
100	PI2 BPSK	1	271		18.65				
100	PI2 BPSK	135	0		18.00		21.0	0.0	
100	PI2 BPSK	135	69		18.65		21.0	0.0	
100	PI2 BPSK	135	138		18.66		21.0	0.0	
100	PI2 BPSK	270	0		18.58		21.0	0.0	
100	QPSK	1	1		18.68				
100	QPSK	1	137		18.66				
100	QPSK	1	271		18.60				
100	QPSK	135	0		18.63		21.0	0.0	
100	QPSK	135	69		18.64		21.0	0.0	
100	QPSK	135	138		18.81		21.0	0.0	
100	QPSK	270	0		18.62		21.0	0.0	
100	16QAM	1	1		18.58		20.5	0.5	
100	64QAM	1	1		18.14		20.5	0.5	
100	256QAM	1	1		17.20		18.8	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	81	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	67	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	53	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	26	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	19	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	12	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	



Part27Q 78 Ant 3 DS11								
BW (MHz)	Modulation	RB 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	18.90	18.90	18.90	20.0	0.0
100	PI2 BPSK	1	137	18.96	18.96	18.96	20.0	0.0
100	PI2 BPSK	1	271	18.98	18.98	18.98	20.0	0.0
100	PI2 BPSK	135	0	18.60	18.60	18.5	19.5	0.5
100	PI2 BPSK	135	69	18.68	18.68	18.6	20.0	0.0
100	PI2 BPSK	135	138	18.55	18.55	18.5	19.5	0.5
100	PI2 BPSK	270	0	18.37	18.37	18.3	20.0	0.0
100	QPSK	1	1	19.06	19.06	19.0	20.0	0.0
100	QPSK	1	137	18.95	18.95	18.9	20.0	0.0
100	QPSK	1	271	18.87	18.87	18.8	20.0	0.0
100	QPSK	135	0	17.88	17.88	17.8	19.0	1.0
100	QPSK	135	69	18.04	18.04	18.0	20.0	0.0
100	QPSK	135	138	18.04	18.04	18.0	19.0	1.0
100	QPSK	270	0	18.10	18.10	18.1	20.0	0.0
100	16QAM	1	1	18.07	18.07	18.0	19.0	1.0
100	64QAM	1	1	18.58	18.58	18.5	17.5	2.5
100	256QAM	1	1	18.37	18.37	18.3	18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	18.88	18.88	18.84	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	18.85	18.85	18.85	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	96	18.86	18.86	18.82	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	18.88	18.88	18.77	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	18.95	18.95	18.85	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	18.87	18.84	18.83	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	18.90	18.89	18.85	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	18.94	18.90	18.76	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	18.89	18.89	18.79	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	18.85	18.85	18.82	20.0	0.0

Part27Q 78 HPUE Ant 3 DS11								
BW (MHz)	Modulation	RB 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	20.07	20.07	20.0	21.0	0.0
100	PI2 BPSK	1	137	20.11	20.11	20.1	21.0	0.0
100	PI2 BPSK	1	271	20.07	20.07	20.0	21.0	0.0
100	PI2 BPSK	135	0	20.04	20.04	20.0	21.0	0.0
100	PI2 BPSK	135	69	20.08	20.08	20.0	21.0	0.0
100	PI2 BPSK	135	138	20.08	20.08	20.0	21.0	0.0
100	PI2 BPSK	270	0	20.08	20.08	20.0	21.0	0.0
100	QPSK	1	1	20.12	20.12	20.1	21.0	0.0
100	QPSK	1	137	20.06	20.06	20.0	21.0	0.0
100	QPSK	1	271	20.10	20.10	20.1	21.0	0.0
100	QPSK	135	0	20.06	20.06	20.0	21.0	0.0
100	QPSK	135	69	20.09	20.09	20.0	21.0	0.0
100	QPSK	135	138	20.01	20.01	20.0	21.0	0.0
100	QPSK	270	0	20.08	20.08	20.0	21.0	0.0
100	16QAM	1	1	20.01	20.01	20.0	20.5	0.5
100	64QAM	1	1	19.61	19.61	19.5	20.5	0.5
100	256QAM	1	1	17.62	17.62	17.5	18.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	19.91	19.94	19.87	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	19.91	19.94	19.83	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	96	19.84	19.89	19.85	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	19.90	19.97	19.85	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	19.84	19.93	19.89	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	19.91	19.99	19.85	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	19.89	19.87	19.85	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	19.83	19.98	19.79	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	19.87	19.94	19.86	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	19.88	19.82	19.84	21.0	0.0

n38 Ant 4 DSI1									
BW [MHz]	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	PI/2 BPSK	1	1	16.05	16.08	16.04			
40	PI/2 BPSK	1	53	15.96	16.02	16.04	17.5	0.0	
40	PI/2 BPSK	1	104	16.06	16.07	16.05			
40	PI/2 BPSK	50	0	16.01	16.05	16.03	17.5	0.0	
40	PI/2 BPSK	50	28	15.97	16.07	15.98	17.5	0.0	
40	PI/2 BPSK	50	56	16.04	16.06	16.04	17.5	0.0	
40	PI/2 BPSK	100	0	15.98	16.07	15.97			
40	QPSK	1	1	16.01	16.09	16.04			
40	QPSK	1	53	15.98	16.02	16.02	17.5	0.0	
40	QPSK	1	104	15.96	16.06	16.05			
40	QPSK	50	0	15.98	16.07	16.04	17.5	0.0	
40	QPSK	50	28	16.01	16.04	16.02	17.5	0.0	
40	QPSK	50	56	15.99	16.03	16.01			
40	QPSK	100	0	16.05	16.07	16.05	17.5	0.0	
40	16QAM	1	1	16.02	16.05	15.99	17.5	0.0	
40	64QAM	1	1	16.06	16.06	16.04	17.5	0.0	
40	256QAM	1	1	16.04	16.05	16.00	17.5	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	15.92	16.04	15.98	17.5	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	15.92	16.07	15.99	17.5	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.01	16.04	15.98	17.5	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	15.97	16.04	16.03	17.5	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	15.90	16.06	15.95	17.5	0.0	

n41 Ant 4 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	17.01	17.19	17.01			
100	PI/2 BPSK	1	137	17.01	17.17	17.08	19.0	0.0	
100	PI/2 BPSK	1	271	17.06	17.15	17.06			
100	PI/2 BPSK	135	0	17.06	17.14	17.02	19.0	0.0	
100	PI/2 BPSK	135	69	17.08	17.18	17.02	19.0	0.0	
100	PI/2 BPSK	135	138	17.07	17.16	17.10			
100	PI/2 BPSK	270	0	17.09	17.16	17.02	19.0	0.0	
100	QPSK	1	1	17.10	17.22	17.08			
100	QPSK	1	137	17.03	17.19	17.12	19.0	0.0	
100	QPSK	1	271	17.03	17.15	17.03			
100	QPSK	135	0	17.05	17.18	17.07	19.0	0.0	
100	QPSK	135	69	17.08	17.19	17.11	19.0	0.0	
100	QPSK	135	138	17.01	17.13	17.02			
100	QPSK	270	0	17.10	17.20	17.12	19.0	0.0	
100	16QAM	1	1	17.10	17.20	17.07	19.0	0.0	
100	64QAM	1	1	17.10	17.21	17.07	19.0	0.0	
100	256QAM	1	1	17.04	17.15	17.10	19.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.06	17.18	16.98	19.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.04	17.19	17.02	19.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2536	2592.99	2659.98			
60	QPSK	1	1	17.05	17.20	17.04	19.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.03	17.19	17.07	19.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.99	17.16	17.05	19.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.05	17.21	17.06	19.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.02	17.19	16.96	19.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	17.06	17.17	16.97	19.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	17.01	17.17	17.00	19.0	0.0	

n48 Ant 5 DSI1									
BW (MHz)	Modulation	RB 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	14.99	15.04	15.04			
40	PI2 BPSK	1	53	14.99	15.01	15.06	16.5	0.0	
40	PI2 BPSK	1	104	15.02	15.07	15.00			
40	PI2 BPSK	50	0	15.04	15.03	14.96	16.5	0.0	
40	PI2 BPSK	50	28	15.05	15.02	15.07	16.5	0.0	
40	PI2 BPSK	50	58	15.03	15.05	14.98	16.5	0.0	
40	PI2 BPSK	100	0	14.98	15.10	15.05			
40	QPSK	1	1	15.06	15.12	15.05			
40	QPSK	1	53	14.99	15.11	15.04	16.5	0.0	
40	QPSK	1	104	14.99	15.01	15.08			
40	QPSK	50	0	15.03	15.04	15.00	16.5	0.0	
40	QPSK	50	28	15.04	15.05	15.03	16.5	0.0	
40	QPSK	50	58	15.03	15.04	15.04	16.5	0.0	
40	QPSK	100	0	15.05	15.08	15.07			
40	16QAM	1	1	15.05	15.06	15.02	16.5	0.0	
40	16QAM	1	1	15.02	15.09	15.04	16.5	0.0	
40	256QAM	1	1	15.01	15.06	15.04	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.99	15.08	15.03	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.03	15.00	14.93	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.01	15.10	14.98	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.01	15.11	15.03	16.5	0.0	

Par270 n77 PC2&3 Ant 5 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.14	16.11	16.09			
100	PI2 BPSK	1	137	16.04	16.09	16.06	17.5	0.0	
100	PI2 BPSK	1	271	16.16	16.11	16.08			
100	PI2 BPSK	135	0	16.09	16.11	16.10	17.5	0.0	
100	PI2 BPSK	135	69	16.05	16.14	16.16	17.5	0.0	
100	PI2 BPSK	135	138	16.07	16.16	16.11	17.5	0.0	
100	PI2 BPSK	270	0	16.09	16.16	16.12			
100	QPSK	1	1	16.13	16.19	16.16			
100	QPSK	1	137	16.04	16.15	16.08	17.5	0.0	
100	QPSK	1	271	16.09	16.18	16.09			
100	QPSK	135	0	16.06	16.12	16.10	17.5	0.0	
100	QPSK	135	69	16.08	16.14	16.11	17.5	0.0	
100	QPSK	135	138	16.10	16.13	16.07	17.5	0.0	
100	QPSK	270	0	16.09	16.17	16.13			
100	16QAM	1	1	16.14	16.16	16.11	17.5	0.0	
100	16QAM	1	1	16.09	16.16	16.14	17.5	0.0	
100	256QAM	1	1	16.09	16.10	16.16	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	16.09	16.17	16.13	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	16.06	16.14	16.12	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	16.10	16.10	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	16.07	16.15	16.13	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	16.11	16.11	16.10	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	16.11	16.14	16.09	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	16.04	16.17	16.07	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	16.12	16.11	16.07	17.5	0.0	

Part27Q n77 PC2&3 Ant 5 DSI1									
BW (MHz)	Modulation	RB 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		15.00				
100	PI2 BPSK	1	137		16.09		17.5	0.0	
100	PI2 BPSK	1	271		16.11				
100	PI2 BPSK	135	0		16.08		17.5	0.0	
100	PI2 BPSK	135	69		16.04		17.5	0.0	
100	PI2 BPSK	135	138		16.10		17.5	0.0	
100	PI2 BPSK	270	0		16.11				
100	QPSK	1	1		16.13		17.5	0.0	
100	QPSK	1	137		16.10				
100	QPSK	1	271		16.07				
100	QPSK	135	0		16.08		17.5	0.0	
100	QPSK	135	69		16.11		17.5	0.0	
100	QPSK	135	138		16.06		17.5	0.0	
100	QPSK	270	0		16.10				
100	16QAM	1	1		16.04		17.5	0.0	
100	16QAM	1	1		16.06		17.5	0.0	
100	256QAM	1	1		16.05		17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	15.97	15.95	15.85	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	15.98	16.01	15.70	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	15.94	15.97	15.80	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	15.91	15.96	15.87	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	15.97	15.94	15.83	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	15.90	15.99	15.81	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	15.91	15.96	15.81	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	15.91	15.95	15.79	17.5	0.0	

Part270 n78 PC2&3 Ant 5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.11				
100	PI2 BPSK	1	137		18.07			0.0	
100	PI2 BPSK	1	271		18.08				
100	PI2 BPSK	135	0		18.10		17.5	0.0	
100	PI2 BPSK	135	69		18.04		17.5	0.0	
100	PI2 BPSK	135	138		18.11		17.5	0.0	
100	PI2 BPSK	270	0		18.08				
100	QPSK	1	1		18.14				
100	QPSK	1	137		18.04		17.5	0.0	
100	QPSK	1	271		18.08				
100	QPSK	135	0		18.07		17.5	0.0	
100	QPSK	135	69		18.13		17.5	0.0	
100	QPSK	135	138		18.12		17.5	0.0	
100	QPSK	270	0		18.11				
100	16QAM	1	1		18.02		17.5	0.0	
100	16QAM	1	1		18.03		17.5	0.0	
100	256QAM	1	1		18.07		17.5	0.0	
Channel				648868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123	15.95	15.99	15.87	17.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109	15.97	16.03	15.92	17.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95	15.99	15.95	15.85	17.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81	15.98	15.92	15.87	17.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67	15.98	15.96	15.90	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53	16.02	15.99	15.95	17.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39	15.97	16.04	15.87	17.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26	16.03	15.97	15.88	17.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.03	3750	3792.51			
15	QPSK	1	19	16.00	16.04	15.93	17.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12	16.04	16.03	15.90	17.5	0.0	

Part27Q 78 PC2&3 Ant 5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		18.08				
100	PI2 BPSK	1	137		18.07			0.0	
100	PI2 BPSK	1	271		15.99				
100	PI2 BPSK	135	0		18.08		17.5	0.0	
100	PI2 BPSK	135	69		15.99		17.5	0.0	
100	PI2 BPSK	135	138		18.05		17.5	0.0	
100	PI2 BPSK	270	0		18.08				
100	QPSK	1	1		18.11				
100	QPSK	1	137		18.06		17.5	0.0	
100	QPSK	1	271		18.05				
100	QPSK	135	0		18.02		17.5	0.0	
100	QPSK	135	69		18.06		17.5	0.0	
100	QPSK	135	138		18.04		17.5	0.0	
100	QPSK	270	0		18.02				
100	16QAM	1	1		18.00		17.5	0.0	
100	16QAM	1	1		18.03		17.5	0.0	
100	256QAM	1	1		18.08		17.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	15.93	16.02	15.98	17.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	15.94	16.01	15.90	17.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	15.96	15.98	15.91	17.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	15.90	15.97	15.97	17.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	15.90	15.99	15.87	17.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	15.86	16.02	15.92	17.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	15.91	15.99	15.90	17.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	15.95	15.92	15.90	17.5	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.03	3500.01	3542.52			
15	QPSK	1	19	15.88	16.02	15.88	17.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	15.86	16.03	15.90	17.5	0.0	



n38 Ant 7 DS11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2560.02	2595	2599.98			
40	PI2 BPSK	1	1	18.24	18.30	18.21			
40	PI2 BPSK	1	53	18.26	18.26	18.23	20.0	0.0	
40	PI2 BPSK	1	104	18.23	18.25	18.21			
40	PI2 BPSK	50	0	17.81	17.91	17.80	19.5	0.5	
40	PI2 BPSK	50	28	18.21	18.26	18.26	20.0	0.0	
40	PI2 BPSK	50	56	17.81	17.90	17.79	19.5	0.5	
40	PI2 BPSK	100	0	17.77	17.84	17.78			
40	QPSK	1	1	18.31	18.38	18.32			
40	QPSK	1	53	18.27	18.30	18.23	20.0	0.0	
40	QPSK	1	104	18.25	18.30	18.20			
40	QPSK	50	0	17.30	17.43	17.27	19.0	1.0	
40	QPSK	50	28	18.27	18.35	18.21	20.0	0.0	
40	QPSK	50	56	17.36	17.39	17.36	19.0	1.0	
40	QPSK	100	0	17.27	17.40	17.37			
40	16QAM	1	1	17.25	17.37	17.31	19.0	1.0	
40	64QAM	1	1	15.88	15.88	15.88	17.5	2.5	
40	256QAM	1	1	13.58	13.68	13.62	15.5	4.5	
Channel									
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.17	18.28	18.29	20.0	0.0	
Channel									
Frequency (MHz)				5160.04	518000	521498			
25	QPSK	1	1	18.25	18.36	18.19	20.0	0.0	
Channel									
Frequency (MHz)				516000	518000	520000			
20	QPSK	1	1	18.27	18.39	18.24	20.0	0.0	
Channel									
Frequency (MHz)				515502	518000	520498			
15	QPSK	1	1	18.17	18.25	18.29	20.0	0.0	
Channel									
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.20	18.33	18.28	20.0	0.0	

n41 Ant 7 DS11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.24	18.37	18.31			
100	PI2 BPSK	1	137	18.36	18.37	18.25	20.0	0.0	
100	PI2 BPSK	1	271	18.31	18.34	18.30			
100	PI2 BPSK	135	0	17.82	17.92	17.86	19.5	0.5	
100	PI2 BPSK	135	69	18.32	18.36	18.34	20.0	0.0	
100	PI2 BPSK	135	138	17.85	17.98	17.82	19.5	0.5	
100	PI2 BPSK	270	0	17.87	17.93	17.85			
100	QPSK	1	1	18.42	18.48	18.33			
100	QPSK	1	197	18.38	18.39	18.23	20.0	0.0	
100	QPSK	1	271	18.31	18.46	18.31			
100	QPSK	135	0	17.41	17.49	17.34	19.0	1.0	
100	QPSK	135	69	18.36	18.45	18.25	20.0	0.0	
100	QPSK	135	138	17.44	17.50	17.48	19.0	1.0	
100	QPSK	270	0	17.35	17.46	17.44			
100	16QAM	1	1	17.27	17.47	17.35	19.0	1.0	
100	64QAM	1	1	15.97	15.99	15.88	17.5	2.5	
100	256QAM	1	1	13.31	13.92	13.92	15.5	4.5	
Channel									
Frequency (MHz)				5020.01	518998	529998			
90	QPSK	1	123	18.25	18.29	18.33	20.0	0.0	
Channel									
Frequency (MHz)				502004	518998	529998			
80	QPSK	1	109	18.19	18.38	18.36	20.0	0.0	
Channel									
Frequency (MHz)				502000	518998	531998			
80	QPSK	1	81	18.21	18.39	18.35	20.0	0.0	
Channel									
Frequency (MHz)				502004	518998	532998			
50	QPSK	1	67	18.28	18.36	18.34	20.0	0.0	
Channel									
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	18.24	18.37	18.39	20.0	0.0	
Channel									
Frequency (MHz)				502000	518998	534998			
30	QPSK	1	39	18.24	18.40	18.38	20.0	0.0	
Channel									
Frequency (MHz)				501204	518998	536998			
20	QPSK	1	26	18.18	18.31	18.34	20.0	0.0	
Channel									
Frequency (MHz)				501100	518998	538998			
15	QPSK	1	19	18.23	18.31	18.30	20.0	0.0	
Channel									
Frequency (MHz)				501000	518998	537000			
10	QPSK	1	12	18.25	18.35	18.32	20.0	0.0	

n48 Ant 7 DS11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3690			
40	PI2 BPSK	1	1	19.37	19.38	19.34			
40	PI2 BPSK	1	53	19.33	19.47	19.44	21.0	0.0	
40	PI2 BPSK	1	104	19.39	19.39	19.43			
40	PI2 BPSK	50	0	19.35	19.48	19.45	21.0	0.0	
40	PI2 BPSK	50	28	19.42	19.45	19.36	21.0	0.0	
40	PI2 BPSK	50	56	19.42	19.46	19.36	21.0	0.0	
40	PI2 BPSK	100	0	19.35	19.38	19.44			
40	QPSK	1	1	19.42	19.43	19.41			
40	QPSK	1	53	19.35	19.38	19.35	21.0	0.0	
40	QPSK	1	104	19.31	19.41	19.40			
40	QPSK	50	0	19.34	19.40	19.37	21.0	0.0	
40	QPSK	50	28	19.38	19.46	19.45	21.0	0.0	
40	QPSK	50	56	19.37	19.41	19.39	21.0	0.0	
40	QPSK	100	0	19.37	19.43	19.40			
40	16QAM	1	1	19.39	19.48	19.36	21.0	0.0	
40	64QAM	1	1	19.37	19.48	19.37	21.0	0.0	
40	256QAM	1	1	16.41	16.46	16.46	20.0	1.0	
Channel									
Frequency (MHz)				6376.63	641666	645998			
30	QPSK	1	1	19.30	19.47	19.34	21.0	0.0	
Channel									
Frequency (MHz)				637304	641666	645000			
20	QPSK	1	1	19.34	19.43	19.35	21.0	0.0	
Channel									
Frequency (MHz)				637168	641666	646166			
15	QPSK	1	1	19.32	19.47	19.29	21.0	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3695			
10	QPSK	1	1	19.31	19.43	19.33	21.0	0.0	



Par270 n77 PC2&3 Ant 7 DSI1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.50	17.60	17.53			
100	PI2 BPSK	1	137	17.50	17.56	17.55	19.0	0.0	
100	PI2 BPSK	1	271	17.55	17.60	17.62			
100	PI2 BPSK	135	0	17.56	17.62	17.61	19.0	0.0	
100	PI2 BPSK	135	69	17.57	17.64	17.59	19.0	0.0	
100	PI2 BPSK	135	138	17.55	17.62	17.52	19.0	0.0	
100	PI2 BPSK	270	0	17.51	17.62	17.56			
100	QPSK	1	1	17.58	17.66	17.60			
100	QPSK	1	137	17.54	17.66	17.60	19.0	0.0	
100	QPSK	1	271	17.52	17.59	17.60			
100	QPSK	135	0	17.57	17.60	17.57	19.0	0.0	
100	QPSK	135	69	17.55	17.64	17.59	19.0	0.0	
100	QPSK	135	138	17.57	17.61	17.54	19.0	0.0	
100	QPSK	270	0	17.54	17.59	17.51	19.0	0.0	
100	16QAM	1	1	17.56	17.60	17.51	19.0	0.0	
100	16QAM	1	1	17.51	17.59	17.50	19.0	0.0	
100	256QAM	1	1	17.54	17.57	17.51	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	17.49	17.50	17.38	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.45	17.50	17.41	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	17.40	17.51	17.45	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.47	17.55	17.45	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.50	17.56	17.34	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	17.50	17.57	17.49	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.45	17.52	17.28	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	17.44	17.50	17.35	19.0	0.0	

Part27Q n77 PC2&3 Ant 7 DSI1									
BW (MHz)	Modulation	RB 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	17.83	17.83	17.83			
100	PI2 BPSK	1	137	17.81	17.81	17.81	19.0	0.0	
100	PI2 BPSK	1	271	17.83	17.83	17.83			
100	PI2 BPSK	135	0	17.76	17.76	17.76	19.0	0.0	
100	PI2 BPSK	135	69	17.75	17.75	17.75	19.0	0.0	
100	PI2 BPSK	135	138	17.80	17.80	17.80	19.0	0.0	
100	PI2 BPSK	270	0	17.82	17.82	17.82			
100	QPSK	1	1	17.86	17.86	17.86			
100	QPSK	1	137	17.84	17.84	17.84	19.0	0.0	
100	QPSK	1	271	17.78	17.78	17.78			
100	QPSK	135	0	17.78	17.78	17.78	19.0	0.0	
100	QPSK	135	69	17.85	17.85	17.85	19.0	0.0	
100	QPSK	135	138	17.78	17.78	17.78	19.0	0.0	
100	QPSK	270	0	17.78	17.78	17.78	19.0	0.0	
100	16QAM	1	1	17.83	17.83	17.83	19.0	0.0	
100	16QAM	1	1	17.76	17.76	17.76	19.0	0.0	
100	256QAM	1	1	17.76	17.76	17.76	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	17.72	17.78	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.62	17.75	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	17.71	17.80	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.67	17.73	17.68	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.60	17.73	17.69	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	17.64	17.77	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.63	17.81	17.68	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	17.67	17.73	17.62	19.0	0.0	

Part270 n78 PC2&3 Ant 7 DSI1									
BW (MHz)	Modulation	RB 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	18.01	18.01	18.01			
100	PI2 BPSK	1	137	18.00	18.00	18.00	19.5	0.0	
100	PI2 BPSK	1	271	18.02	18.02	18.02			
100	PI2 BPSK	135	0	17.91	17.91	17.91	19.5	0.0	
100	PI2 BPSK	135	69	17.97	17.97	17.97	19.5	0.0	
100	PI2 BPSK	135	138	18.01	18.01	18.01	19.5	0.0	
100	PI2 BPSK	270	0	17.91	17.91	17.91			
100	QPSK	1	1	18.03	18.03	18.03			
100	QPSK	1	137	17.93	17.93	17.93	19.5	0.0	
100	QPSK	1	271	17.93	17.93	17.93			
100	QPSK	135	0	17.92	17.92	17.92	19.5	0.0	
100	QPSK	135	69	17.98	17.98	17.98	19.5	0.0	
100	QPSK	135	138	18.00	18.00	18.00	19.5	0.0	
100	QPSK	270	0	18.00	18.00	18.00	19.5	0.0	
100	16QAM	1	1	17.99	17.99	17.99	19.5	0.0	
100	16QAM	1	1	17.92	17.92	17.92	19.5	0.0	
100	256QAM	1	1	17.97	17.97	17.97	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	17.86	17.89	17.83	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.79	17.85	17.75	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	17.80	17.89	17.79	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	17.75	17.83	17.84	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.77	17.84	17.78	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.82	17.84	17.80	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	17.81	17.87	17.81	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	17.82	17.91	17.75	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.83	17.89	17.79	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	17.83	17.82	17.83	19.5	0.0	



Part27Q n78 PC2&3 Ant 7 DSI1									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.38	3000.01				
100	PI2 BPSK	1	137	18.39			19.5	0.0	
100	PI2 BPSK	1	271	18.41					
100	PI2 BPSK	135	0	18.40			19.5	0.0	
100	PI2 BPSK	135	69	18.38					
100	PI2 BPSK	135	138	18.35			19.5	0.0	
100	PI2 BPSK	270	0	18.34					
100	QPSK	1	1	18.42					
100	QPSK	1	137	18.41			19.5	0.0	
100	QPSK	1	271	18.37					
100	QPSK	135	0	18.34			19.5	0.0	
100	QPSK	135	69	18.40					
100	QPSK	135	138	18.37			19.5	0.0	
100	QPSK	270	0	18.35					
100	16QAM	1	1	18.38					
100	16QAM	1	1	18.38					
100	25QAM	1	1	18.37			19.5	0.0	
Channel									
Frequency (MHz)									
				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3485	3000.01	3005.02			
90	QPSK	1	123	18.06	18.18	17.96	19.5	0.0	
Channel									
Frequency (MHz)									
				632068	633334	634600	Tune-up limit (dBm)	MPR (dB)	
				3480.02	3000.01	3010			
80	QPSK	1	109	18.04	18.17	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3000.01	3191.01			
70	QPSK	1	96	18.14	18.30	18.07	19.5	0.0	
Channel									
Frequency (MHz)									
				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
				3480	3000.01	3020.02			
60	QPSK	1	81	18.11	18.21	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3000.01	3025			
50	QPSK	1	67	18.13	18.20	18.04	19.5	0.0	
Channel									
Frequency (MHz)									
				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
				3480.01	3000.01	3028.01			
40	QPSK	1	53	18.07	18.13	18.02	19.5	0.0	
Channel									
Frequency (MHz)									
				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
				3485	3000.01	3035.02			
30	QPSK	1	39	18.11	18.17	17.99	19.5	0.0	
Channel									
Frequency (MHz)									
				630668	633334	635900	Tune-up limit (dBm)	MPR (dB)	
				3480.02	3000.01	3040			
20	QPSK	1	26	18.13	18.10	17.96	19.5	0.0	
Channel									
Frequency (MHz)									
				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
				3475.01	3000.01	3042.02			
15	QPSK	1	19	18.07	18.17	17.95	19.5	0.0	
Channel									
Frequency (MHz)									
				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3000.01	3043.01			
10	QPSK	1	12	18.15	18.15	17.95	19.5	0.0	

Reduced Power Mode for Main PA DS11 ENDC

n7 Ant 3 DS11 for ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	19.31	19.42	19.33	20.0	0.0
50	PI/2 BPSK	1	135	19.29	19.31	19.26		
50	PI/2 BPSK	1	268	19.35	19.42	19.32		
50	PI/2 BPSK	135	0	19.30	19.30	19.31	20.0	0.0
50	PI/2 BPSK	135	68	19.26	19.36	19.23	20.0	0.0
50	PI/2 BPSK	135	135	19.33	19.41	19.32	20.0	0.0
50	PI/2 BPSK	270	0	19.32	19.42	19.27		
50	QPSK	1	1	19.36	19.36	19.24	20.0	0.0
50	QPSK	1	135	19.26	19.25	19.26		
50	QPSK	1	268	19.38	19.45	19.39		
50	QPSK	135	0	19.34	19.39	19.22	20.0	0.0
50	QPSK	135	68	19.36	19.42	19.32	20.0	0.0
50	QPSK	135	135	19.31	19.29	19.24	20.0	0.0
50	QPSK	270	0	19.36	19.44	19.34		
50	16QAM	1	1	19.27	19.37	19.21	20.0	0.0
50	64QAM	1	1	19.31	19.37	19.36	20.0	0.0
50	256QAM	1	1	19.33	19.37	19.28	20.0	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	19.26	19.35	19.21	20.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.31	19.32	19.19	20.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	19.32	19.31	19.19	20.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	19.32	19.33	19.16	20.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.26	19.34	19.19	20.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.26	19.30	19.21	20.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.27	19.30	19.15	20.0	0.0

n5 Ant 4 DSI1 for ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	20.22	20.15	20.16		
20	PI/2 BPSK	1	53	20.14	20.15	20.13	21.2	0.0
20	PI/2 BPSK	1	104	20.29	20.29	20.10		
20	PI/2 BPSK	50	0	20.18	20.28	20.15	21.2	0.0
20	PI/2 BPSK	50	28	20.14	20.23	20.16	21.2	0.0
20	PI/2 BPSK	50	56	20.24	20.27	20.16		
20	PI/2 BPSK	100	0	20.19	20.22	20.18	21.2	0.0
20	QPSK	1	1	20.25	20.32	20.29		
20	QPSK	1	53	20.25	20.29	20.19	21.2	0.0
20	QPSK	1	104	20.25	20.24	20.25		
20	QPSK	50	0	20.20	20.20	20.18	21.2	0.0
20	QPSK	50	28	20.21	20.30	20.23	21.2	0.0
20	QPSK	50	56	20.24	20.17	20.20		
20	QPSK	100	0	20.24	20.16	20.16	21.2	0.0
20	16QAM	1	1	20.15	20.28	20.17	21.2	0.0
20	64QAM	1	1	20.27	20.30	20.15	21.2	0.0
20	256QAM	1	1	20.13	20.30	20.19	21.2	0.0
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	20.17	20.26	20.17	21.2	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	20.22	20.29	20.26	21.2	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	20.17	20.28	20.22	21.2	0.0

n38 Ant 3 DSI1 for ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.33	19.34	19.26	20.0	0.0	
40	PI/2 BPSK	1	53	19.26	19.22	19.29			
40	PI/2 BPSK	1	104	19.25	19.31	19.18			
40	PI/2 BPSK	50	0	19.22	19.32	19.20	20.0	0.0	
40	PI/2 BPSK	50	28	19.18	19.25	19.27	20.0	0.0	
40	PI/2 BPSK	50	56	19.24	19.38	19.30	20.0	0.0	
40	PI/2 BPSK	100	0	19.19	19.23	19.19			
40	QPSK	1	1	19.30	19.40	19.30			
40	QPSK	1	53	19.21	19.25	19.25	20.0	0.0	
40	QPSK	1	104	19.20	19.32	19.26	20.0	0.0	
40	QPSK	50	0	19.19	19.26	19.24			
40	QPSK	50	28	19.26	19.35	19.30			
40	QPSK	50	56	19.19	19.30	19.26	20.0	0.0	
40	QPSK	100	0	19.27	19.33	19.24			
40	16QAM	1	1	19.18	19.28	19.23			
40	64QAM	1	1	19.25	19.34	19.21	20.0	0.0	
40	256QAM	1	1	19.22	19.30	19.27	20.0	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.28	19.34	19.24	20.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	19.22	19.38	19.22	20.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.27	19.33	19.22	20.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.25	19.30	19.20	20.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.30	19.33	19.29	20.0	0.0	

n41 Ant 3 DSI1 for ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.20	19.36	19.29	20.0	0.0	
100	PI/2 BPSK	1	137	19.23	19.29	19.28			
100	PI/2 BPSK	1	271	19.30	19.34	19.26			
100	PI/2 BPSK	135	0	19.14	19.35	19.24	20.0	0.0	
100	PI/2 BPSK	135	69	19.21	19.35	19.25	20.0	0.0	
100	PI/2 BPSK	135	138	19.27	19.35	19.29	20.0	0.0	
100	PI/2 BPSK	270	0	19.21	19.34	19.19			
100	QPSK	1	1	19.24	19.38	19.29			
100	QPSK	1	137	19.27	19.35	19.25	20.0	0.0	
100	QPSK	1	271	19.23	19.35	19.23	20.0	0.0	
100	QPSK	135	0	19.19	19.31	19.29			
100	QPSK	135	69	19.29	19.34	19.29			
100	QPSK	135	138	19.31	19.32	19.23	20.0	0.0	
100	QPSK	270	0	19.21	19.32	19.23			
100	16QAM	1	1	19.20	19.25	19.24			
100	64QAM	1	1	19.28	19.37	19.16	20.0	0.0	
100	256QAM	1	1	19.28	19.34	19.31	20.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	123	19.22	19.35	19.26	20.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	109	19.20	19.33	19.23	20.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	81	19.23	19.37	19.26	20.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	67	19.15	19.35	19.18	20.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	19.20	19.31	19.26	20.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	39	19.23	19.30	19.23	20.0	0.0	
Channel				501204.00	518598.00	535998.00			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	26	19.17	19.32	19.27	20.0	0.0	
Channel				500700.00	518598.00	536496.00			
Frequency (MHz)				2503.50	2592.99	2682.48			
15	QPSK	1	19	19.16	19.37	19.18	20.0	0.0	
Channel				500302.00	518598.00	537000.00			
Frequency (MHz)				2501.01	2592.99	2686.00			
10	QPSK	1	12	19.13	19.33	19.18	20.0	0.0	



Par270 n77 PC2&3 Ant 5 DSI1 for ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
100	PI2 BPSK	1	1	13.09	13.10	13.02			
100	PI2 BPSK	1	137	13.05	13.06	12.95		0.0	
100	PI2 BPSK	1	271	13.05	13.12	12.99			
100	PI2 BPSK	135	0	13.09	13.03	13.05	14.5	0.0	
100	PI2 BPSK	135	69	12.98	13.11	13.11	14.5	0.0	
100	PI2 BPSK	135	138	13.05	13.11	13.09	14.5	0.0	
100	PI2 BPSK	270	0	13.04	13.11	13.10			
100	QPSK	1	1	13.06	13.16	13.11			
100	QPSK	1	137	12.97	13.06	13.05	14.5	0.0	
100	QPSK	1	271	13.03	13.12	13.04			
100	QPSK	135	0	12.97	13.10	13.03	14.5	0.0	
100	QPSK	135	69	13.04	13.14	13.08	14.5	0.0	
100	QPSK	135	138	13.01	13.02	13.06	14.5	0.0	
100	QPSK	270	0	13.07	13.11	13.08			
100	16QAM	1	1	13.10	13.11	13.10	14.5	0.0	
100	16QAM	1	137	13.10	13.14	13.08	14.5	0.0	
100	256QAM	1	1	13.10	13.11	13.06	14.5	0.0	
Channel									
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	13.03	13.13	13.08	14.5	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	12.99	13.12	13.03	14.5	0.0	
Channel									
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	13.01	13.12	13.09	14.5	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	12.98	13.08	13.03	14.5	0.0	
Channel									
Frequency (MHz)				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	12.98	13.06	13.03	14.5	0.0	
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	28	12.97	13.12	13.08	14.5	0.0	
Channel									
Frequency (MHz)				647168	650000	650334	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	13.07	13.07	13.13	14.5	0.0	
Channel									
Frequency (MHz)				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	13.00	13.09	13.10	14.5	0.0	

Part27Q n77 PC2&3 Ant 5 DSI1 for ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633000	633334	633668			
100	PI2 BPSK	1	1	13.07	13.07	13.07			
100	PI2 BPSK	1	137	13.08	13.08	13.08	14.5	0.0	
100	PI2 BPSK	1	271	13.10	13.10	13.10			
100	PI2 BPSK	135	0	13.06	13.06	13.06	14.5	0.0	
100	PI2 BPSK	135	69	13.09	13.09	13.09	14.5	0.0	
100	PI2 BPSK	135	138	13.06	13.06	13.06	14.5	0.0	
100	PI2 BPSK	270	0	13.07	13.07	13.07			
100	QPSK	1	1	13.14	13.14	13.14			
100	QPSK	1	137	13.08	13.08	13.08	14.5	0.0	
100	QPSK	1	271	13.10	13.10	13.10			
100	QPSK	135	0	13.11	13.11	13.11	13.5	1.0	
100	QPSK	135	69	13.12	13.12	13.12	14.5	0.0	
100	QPSK	135	138	13.07	13.07	13.07	13.5	1.0	
100	QPSK	270	0	13.08	13.08	13.08			
100	16QAM	1	1	13.08	13.08	13.08	14.5	0.0	
100	16QAM	1	137	13.12	13.12	13.12	14.5	0.0	
100	256QAM	1	1	13.10	13.10	13.10	14.5	0.0	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	13.03	13.10	12.91	14.5	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	13.05	13.01	12.95	14.5	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	13.10	13.02	13.01	14.5	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	13.03	13.09	12.95	14.5	0.0	
Channel									
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	13.03	13.04	12.99	14.5	0.0	
Channel									
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	13.01	13.05	13.00	14.5	0.0	
Channel									
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	13.09	13.10	12.91	14.5	0.0	
Channel									
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	13.04	13.06	12.90	14.5	0.0	

Part270 n78 PC2&3 Ant 5 DSI1 for ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
100	PI2 BPSK	1	1	13.08	13.08	13.08			
100	PI2 BPSK	1	137	13.09	13.09	13.09	14.5	0.0	
100	PI2 BPSK	1	271	13.08	13.08	13.08			
100	PI2 BPSK	135	0	13.09	13.09	13.09	14.5	0.0	
100	PI2 BPSK	135	69	13.01	13.01	13.01	14.5	0.0	
100	PI2 BPSK	135	138	13.10	13.10	13.10	14.5	0.0	
100	PI2 BPSK	270	0	13.04	13.04	13.04			
100	QPSK	1	1	13.11	13.11	13.11			
100	QPSK	1	137	13.04	13.04	13.04	14.5	0.0	
100	QPSK	1	271	13.09	13.09	13.09			
100	QPSK	135	0	13.08	13.08	13.08	13.5	1.0	
100	QPSK	135	69	13.10	13.10	13.10	14.5	0.0	
100	QPSK	135	138	13.09	13.09	13.09	13.5	1.0	
100	QPSK	270	0	13.05	13.05	13.05			
100	16QAM	1	1	12.99	12.99	12.99	14.5	0.0	
100	16QAM	1	137	12.98	12.98	12.98	14.5	0.0	
100	256QAM	1	1	13.04	13.04	13.04	14.5	0.0	
Channel									
Frequency (MHz)				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	12.94	12.94	12.86	14.5	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	12.91	13.00	12.85	14.5	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	95	12.94	12.96	12.89	14.5	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	12.97	12.97	12.97	14.5	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	13.00	12.98	12.91	14.5	0.0	
Channel									
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	12.96	13.02	12.85	14.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39	13.00	13.05	12.87	14.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	12.93	13.01	12.85	14.5	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	13.00	13.05	12.83	14.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	12.91	12.96	12.90	14.5	0.0	



Part27Q 78 PC2&3 Ant 5 DS11 for ENDC								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		13.04			
100	PI/2 BPSK	1	137		12.88		14.5	0.0
100	PI/2 BPSK	1	271		12.91		14.5	0.0
100	PI/2 BPSK	135	0		13.00		14.5	0.0
100	PI/2 BPSK	135	89		12.99		14.5	0.0
100	PI/2 BPSK	135	138		12.94		14.5	0.0
100	PI/2 BPSK	270	0		13.00		14.5	0.0
100	QPSK	1	1		13.05			
100	QPSK	1	137		13.07		14.5	0.0
100	QPSK	1	271		12.95			
100	QPSK	135	0		12.92		13.5	1.0
100	QPSK	135	89		13.03		14.5	0.0
100	QPSK	135	138		13.00		13.5	1.0
100	QPSK	270	0		13.02			
100	16QAM	1	1		13.00		14.5	0.0
100	16QAM	1	1		13.02		14.5	0.0
100	256QAM	1	1		13.02		14.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	123	12.88	13.03	12.92	14.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	12.97	13.04	13.01	14.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	12.94	12.97	12.93	14.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3520.02		
60	QPSK	1	81	12.97	12.97	12.96	14.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	12.91	13.07	12.94	14.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	12.87	13.04	13.01	14.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	12.97	13.09	12.93	14.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	12.90	13.00	12.94	14.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.5	3500.01	3545.5		
15	QPSK	1	19	12.98	13.07	12.98	14.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	12	12.90	12.99	12.93	14.5	0.0



n2 Ant 1 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.97	22.94	22.90			
20	PI2 BPSK	1	53	22.99	23.02	22.98	24.5	0.0	
20	PI2 BPSK	1	104	22.79	22.97	22.81			
20	PI2 BPSK	50	0	22.51	22.58	22.45	24.0	0.5	
20	PI2 BPSK	50	28	22.99	23.02	22.94	24.5	0.0	
20	PI2 BPSK	50	56	22.43	22.56	22.43	24.0	0.5	
20	PI2 BPSK	100	0	22.46	22.59	22.51			
20	QPSK	1	1	22.93	23.07	22.86			
20	QPSK	1	53	22.99	23.01	22.94	24.5	0.0	
20	QPSK	1	104	22.79	22.88	22.84			
20	QPSK	50	0	21.96	22.08	22.03	23.5	1.0	
20	QPSK	50	28	22.92	23.05	22.91	24.5	0.0	
20	QPSK	50	56	22.00	22.07	22.05	23.5	1.0	
20	QPSK	100	0	22.06	22.12	22.03			
20	16QAM	1	1	21.76	21.79	21.75	23.5	1.0	
20	64QAM	1	1	20.29	20.40	20.35	22.0	2.5	
20	256QAM	1	1	18.90	19.03	18.97	20.0	4.5	
Channel									
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.87	22.93	22.93	24.5	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.84	23.01	22.90	24.5	0.0	
Channel									
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.89	23.02	22.86	24.5	0.0	

Reduced Power Mode for Main PA DS12									
n5 Ant 1 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				834	836.5	838			
20	PI2 BPSK	1	1	24.20	24.27	24.15			
20	PI2 BPSK	1	53	24.39	24.45	24.36	25.7	0.0	
20	PI2 BPSK	1	104	24.35	24.47	24.34			
20	PI2 BPSK	50	0	23.96	24.09	23.99	25.2	0.5	
20	PI2 BPSK	50	28	24.39	24.45	24.31	25.7	0.0	
20	PI2 BPSK	50	56	24.01	24.09	24.01	25.2	0.5	
20	PI2 BPSK	100	0	24.03	24.08	23.98			
20	QPSK	1	1	24.49	24.58	24.50			
20	QPSK	1	53	24.32	24.43	24.35	25.7	0.0	
20	QPSK	1	104	24.31	24.38	24.29			
20	QPSK	50	0	23.48	23.61	23.54	24.7	1.0	
20	QPSK	50	28	24.39	24.47	24.38	25.7	0.0	
20	QPSK	50	56	23.06	23.11	23.09	24.7	1.0	
20	QPSK	100	0	23.55	23.65	23.52			
20	16QAM	1	1	23.10	23.22	23.18	24.7	1.0	
20	64QAM	1	1	21.70	21.81	21.77	23.2	2.5	
20	256QAM	1	1	20.31	20.42	20.36	21.2	4.5	
Channel									
Frequency (MHz)				165300	167300	168800	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	24.39	24.51	24.38	25.7	0.0	
Channel									
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.39	24.50	24.45	25.7	0.0	
Channel									
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	24.45	24.48	24.46	25.7	0.0	

n7 Ant 1 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2505	2535	2545			
50	PI2 BPSK	1	1	23.38	23.45	23.37			
50	PI2 BPSK	1	135	23.38	23.44	23.41	25.0	0.0	
50	PI2 BPSK	1	268	23.31	23.33	23.19			
50	PI2 BPSK	135	0	22.90	23.00	22.90	24.5	0.5	
50	PI2 BPSK	135	68	23.35	23.40	23.35	25.0	0.0	
50	PI2 BPSK	135	135	23.02	23.15	23.13	24.5	0.5	
50	PI2 BPSK	270	0	22.94	23.04	22.96			
50	QPSK	1	1	23.38	23.41	23.35			
50	QPSK	1	135	23.33	23.46	23.34	25.0	0.0	
50	QPSK	1	268	23.49	23.52	23.45			
50	QPSK	135	0	22.44	22.50	22.38	24.0	1.0	
50	QPSK	135	68	23.34	23.42	23.38	25.0	0.0	
50	QPSK	135	135	22.54	22.63	22.57	24.0	1.0	
50	QPSK	270	0	22.50	22.58	22.45			
50	16QAM	1	1	22.12	22.26	22.12	24.0	1.0	
50	64QAM	1	1	20.75	20.85	20.81	22.5	2.5	
50	256QAM	1	1	19.04	19.03	19.00	20.5	4.5	
Channel									
Frequency (MHz)				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	23.38	23.48	23.37	25.0	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.44	23.46	23.39	25.0	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.38	23.40	23.38	25.0	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.37	23.40	23.35	25.0	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.45	23.49	23.32	25.0	0.0	
Channel									
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.40	23.40	23.40	25.0	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.48	23.47	23.40	25.0	0.0	

n66 Ant 1 DS12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.60	22.67	22.83		
40	PI2 BPSK	1	108	22.59	22.72	22.80	24.5	0.0
40	PI2 BPSK	1	214	22.62	22.65	22.65		
40	PI2 BPSK	108	0	22.60	22.72	22.86	24.5	0.0
40	PI2 BPSK	108	54	22.64	22.69	22.59	24.5	0.0
40	PI2 BPSK	108	108	22.64	22.62	22.57		
40	PI2 BPSK	216	0	22.66	22.62	22.82	24.5	0.0
40	QPSK	1	1	22.69	22.75	22.70		
40	QPSK	1	108	22.66	22.72	22.57	24.5	0.0
40	QPSK	1	214	22.59	22.73	22.66		
40	QPSK	108	0	22.61	22.72	22.57	24.5	0.0
40	QPSK	108	54	22.58	22.69	22.67	24.5	0.0
40	QPSK	108	108	22.64	22.63	22.58	24.5	0.0
40	QPSK	216	0	22.56	22.62	22.83		
40	16QAM	1	1	22.58	22.59	22.57	24.5	0.0
40	64QAM	1	1	21.19	21.29	21.17	23.0	1.5
40	256QAM	1	1	19.15	19.30	19.15	21.0	3.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.65	22.67	22.57	24.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.65	22.62	22.66	24.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.60	22.64	22.57	24.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.62	22.62	22.65	24.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.62	22.71	22.50	24.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.54	22.64	22.66	24.5	0.0

n7 Ant 3 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.62	23.70	23.63		
50	PI/2 BPSK	1	135	23.62	23.68	23.54	24.5	0.0
50	PI/2 BPSK	1	268	23.62	23.71	23.51		
50	PI/2 BPSK	135	0	23.28	23.35	23.24	24.0	0.5
50	PI/2 BPSK	135	68	23.57	23.79	23.58	24.5	0.0
50	PI/2 BPSK	135	135	23.27	23.33	23.25	24.0	0.5
50	PI/2 BPSK	270	0	23.27	23.41	23.32		
50	QPSK	1	1	23.78	23.77	23.66		
50	QPSK	1	135	23.67	23.75	23.67	24.5	0.0
50	QPSK	1	268	23.81	23.86	23.79		
50	QPSK	135	0	22.77	22.82	22.81	23.5	1.0
50	QPSK	135	68	23.67	23.81	23.65	24.5	0.0
50	QPSK	135	135	22.78	22.84	22.75	23.5	1.0
50	QPSK	270	0	22.81	22.85	22.79		
50	16QAM	1	1	22.82	22.82	22.77	23.5	1.0
50	64QAM	1	1	21.32	21.37	21.34	22.0	2.5
50	256QAM	1	1	19.33	19.37	19.28	20.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.64	23.75	23.55	24.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.57	23.74	23.60	24.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.65	23.75	23.54	24.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.53	23.76	23.57	24.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.59	23.69	23.52	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.58	23.72	23.59	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.56	23.77	23.52	24.5	0.0

n2 Ant 4 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	21.92	21.95	21.97			
20	PI2 BPSK	1	53	21.93	22.03	21.88	23.5	0.0	
20	PI2 BPSK	1	104	21.90	21.96	21.94			
20	PI2 BPSK	50	0	21.47	21.57	21.53	23.0	0.5	
20	PI2 BPSK	50	28	21.94	21.93	21.94	23.5	0.0	
20	PI2 BPSK	50	58	21.54	21.56	21.47	23.0	0.5	
20	PI2 BPSK	100	0	21.48	21.51	21.51			
20	QPSK	1	1	22.00	22.06	22.01			
20	QPSK	1	53	21.87	22.03	21.88	23.5	0.0	
20	QPSK	1	104	21.87	21.94	21.98			
20	QPSK	50	0	21.05	21.11	21.04	22.5	1.0	
20	QPSK	50	28	21.95	21.99	21.97	23.5	0.0	
20	QPSK	50	58	21.00	21.05	21.04			
20	QPSK	100	0	21.02	21.05	20.99	22.5	1.0	
20	16QAM	1	1	20.94	21.09	21.02	22.5	1.0	
20	16QAM	1	1	19.56	19.53	19.48	21.0	2.5	
20	256QAM	1	1	17.55	17.57	17.47	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	21.95	22.00	21.91	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905			
10	QPSK	1	1	21.96	21.95	21.94	23.5	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	21.97	21.96	21.98	23.5	0.0	

n5 Ant 4 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167000	167500			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.42	24.50	24.46			
20	PI2 BPSK	1	53	24.41	24.49	24.38	25.7	0.0	
20	PI2 BPSK	1	104	24.43	24.53	24.47			
20	PI2 BPSK	50	0	24.01	24.07	23.95	25.2	0.5	
20	PI2 BPSK	50	28	24.47	24.53	24.43	25.7	0.0	
20	PI2 BPSK	50	58	24.01	24.09	23.96	25.2	0.5	
20	PI2 BPSK	100	0	24.05	24.05	24.06			
20	QPSK	1	1	24.52	24.59	24.50			
20	QPSK	1	53	24.39	24.48	24.39	25.7	0.0	
20	QPSK	1	104	24.46	24.46	24.42			
20	QPSK	50	0	23.46	23.62	23.47	24.7	1.0	
20	QPSK	50	28	24.39	24.56	24.47	25.7	0.0	
20	QPSK	50	58	23.50	23.61	23.47	24.7	1.0	
20	QPSK	100	0	23.63	23.67	23.51			
20	16QAM	1	1	23.47	23.60	23.46	24.7	1.0	
20	16QAM	1	1	22.08	22.14	21.99	23.2	2.5	
20	256QAM	1	1	19.96	20.13	20.02	21.2	4.5	
Channel				165300	167000	168500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.47	24.55	24.48	25.7	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.44	24.48	24.42	25.7	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	24.47	24.48	24.45	25.7	0.0	

n7 Ant 4 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	23.35	23.41	23.38			
50	PI2 BPSK	1	135	23.38	23.39	23.33	25.0	0.0	
50	PI2 BPSK	1	268	23.38	23.40	23.35			
50	PI2 BPSK	135	0	23.01	23.04	23.00	24.5	0.5	
50	PI2 BPSK	135	68	23.38	23.40	23.31	25.0	0.0	
50	PI2 BPSK	135	135	23.02	22.96	22.97	24.5	0.5	
50	PI2 BPSK	270	0	22.98	22.98	22.97			
50	QPSK	1	1	23.44	23.43	23.42			
50	QPSK	1	135	23.38	23.43	23.37	25.0	0.0	
50	QPSK	1	268	23.48	23.52	23.45			
50	QPSK	135	0	22.49	22.53	22.50	24.0	1.0	
50	QPSK	135	68	23.39	23.44	23.39	25.0	0.0	
50	QPSK	135	135	22.47	22.49	22.43	24.0	1.0	
50	QPSK	270	0	22.48	22.48	22.43			
50	16QAM	1	1	22.50	22.57	22.44	24.0	1.0	
50	16QAM	1	1	20.99	21.01	20.96	22.5	2.5	
50	256QAM	1	1	18.93	19.05	18.90	20.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	23.37	23.41	23.34	25.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2315	2335	2355			
30	QPSK	1	1	23.39	23.45	23.34	25.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.41	23.45	23.33	25.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.40	23.45	23.37	25.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.38	23.41	23.40	25.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.34	23.47	23.38	25.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.40	23.39	23.38	25.0	0.0	

n38 Ant 1 DSI2									
BW [MHz]	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	PI/2 BPSK	1	1	23.29	23.35	23.35			
40	PI/2 BPSK	1	53	23.31	23.36	23.33	25.0	0.0	
40	PI/2 BPSK	1	104	23.32	23.40	23.33			
40	PI/2 BPSK	50	0	22.95	22.93	22.89	24.5	0.5	
40	PI/2 BPSK	50	28	23.33	23.37	23.38	25.0	0.0	
40	PI/2 BPSK	50	56	22.87	22.98	22.84	24.5	0.5	
40	PI/2 BPSK	100	0	22.91	22.97	22.95			
40	QPSK	1	1	23.42	23.47	23.40			
40	QPSK	1	53	23.38	23.39	23.31	25.0	0.0	
40	QPSK	1	104	23.33	23.40	23.30			
40	QPSK	50	0	22.43	22.43	22.42	24.0	1.0	
40	QPSK	50	28	23.38	23.42	23.30	25.0	0.0	
40	QPSK	50	56	22.47	22.50	22.39	24.0	1.0	
40	QPSK	100	0	22.37	22.53	22.43			
40	16QAM	1	1	22.44	22.48	22.35	24.0	1.0	
40	64QAM	1	1	20.92	20.95	20.86	22.5	2.5	
40	256QAM	1	1	18.88	18.99	18.91	20.5	4.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	23.40	23.43	23.29	25.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	23.32	23.42	23.35	25.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	23.34	23.37	23.33	25.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	23.39	23.43	23.33	25.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.32	23.41	23.27	25.0	0.0	

n41 Ant 1 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.35	23.45	23.41			
100	PI/2 BPSK	1	137	23.40	23.35	23.35	25.0	0.0	
100	PI/2 BPSK	1	271	23.35	23.47	23.35			
100	PI/2 BPSK	135	0	23.01	22.95	22.98	24.5	0.5	
100	PI/2 BPSK	135	69	23.41	23.43	23.45	25.0	0.0	
100	PI/2 BPSK	135	138	22.96	23.08	22.91	24.5	0.5	
100	PI/2 BPSK	270	0	22.91	23.06	23.00			
100	QPSK	1	1	23.51	23.53	23.48			
100	QPSK	1	137	23.44	23.44	23.37	25.0	0.0	
100	QPSK	1	271	23.40	23.46	23.38			
100	QPSK	135	0	22.45	22.53	22.42	24.0	1.0	
100	QPSK	135	69	23.43	23.51	23.31	25.0	0.0	
100	QPSK	135	138	22.48	22.51	22.43	24.0	1.0	
100	QPSK	270	0	22.45	22.56	22.44			
100	16QAM	1	1	22.47	22.47	22.41	24.0	1.0	
100	64QAM	1	1	20.95	21.05	20.88	22.5	2.5	
100	256QAM	1	1	18.94	19.06	18.96	20.5	4.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.48	23.47	23.39	25.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.48	23.51	23.34	25.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.45	23.47	23.39	25.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.42	23.40	23.46	25.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.40	23.51	23.44	25.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.48	23.49	23.40	25.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.44	23.41	23.46	25.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	23.38	23.45	23.43	25.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.48	23.43	23.40	25.0	0.0	



n48 Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.15	18.16	18.13			
40	PI2 BPSK	1	53	18.14	18.22	18.13	19.5	0.0	
40	PI2 BPSK	1	104	18.13	18.21	18.18			
40	PI2 BPSK	50	0	18.16	18.20	18.17	19.5	0.0	
40	PI2 BPSK	50	28	18.15	18.18	18.14	19.5	0.0	
40	PI2 BPSK	50	56	18.12	18.22	18.19	19.5	0.0	
40	PI2 BPSK	100	0	18.18	18.18	18.15			
40	QPSK	1	1	18.19	18.23	18.22			
40	QPSK	1	53	18.17	18.19	18.11	19.5	0.0	
40	QPSK	1	104	18.16	18.21	18.15			
40	QPSK	50	0	18.22	18.23	18.20	19.5	0.0	
40	QPSK	50	28	18.16	18.24	18.19	19.5	0.0	
40	QPSK	50	56	18.20	18.22	18.20	19.5	0.0	
40	QPSK	100	0	18.20	18.27	18.15			
40	16QAM	1	1	18.22	18.16	18.14	19.5	0.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	1.5	
40	256QAM	1	1	14.03	14.73	14.68	15.0	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.19	18.20	18.13	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.12	18.17	18.20	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.15	18.19	18.11	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.17	18.16	18.12	19.5	0.0	

Par270 n77 PC2&3 Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.44	17.55	17.49			
100	PI2 BPSK	1	137	17.43	17.49	17.42	19.0	0.0	
100	PI2 BPSK	1	271	17.46	17.50	17.42			
100	PI2 BPSK	135	0	17.43	17.53	17.49	19.0	0.0	
100	PI2 BPSK	135	69	17.46	17.56	17.52	19.0	0.0	
100	PI2 BPSK	135	138	17.42	17.53	17.43	19.0	0.0	
100	PI2 BPSK	270	0	17.39	17.52	17.43			
100	QPSK	1	1	17.48	17.56	17.46			
100	QPSK	1	137	17.42	17.52	17.48	19.0	0.0	
100	QPSK	1	271	17.45	17.51	17.45			
100	QPSK	135	0	17.45	17.52	17.44	19.0	0.0	
100	QPSK	135	69	17.46	17.55	17.45	19.0	0.0	
100	QPSK	135	138	17.45	17.53	17.46	19.0	0.0	
100	QPSK	270	0	17.41	17.53	17.44			
100	16QAM	1	1	17.49	17.52	17.47	19.0	0.0	
100	64QAM	1	1	17.44	17.49	17.47	19.0	0.0	
100	256QAM	1	1	16.51	16.45	16.37	18.0	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	123	17.42	17.54	17.38	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.40	17.52	17.37	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	17.39	17.50	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.37	17.52	17.43	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.44	17.54	17.35	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	17.43	17.55	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.37	17.54	17.42	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	17.47	17.53	17.36	19.0	0.0	

Par270Q n77 PC2&3 Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		17.71		19.0	0.0	
100	PI2 BPSK	1	271		17.65				
100	PI2 BPSK	135	0		17.87		19.0	0.0	
100	PI2 BPSK	135	69		17.87		19.0	0.0	
100	PI2 BPSK	135	138		17.88		19.0	0.0	
100	PI2 BPSK	270	0		17.68				
100	QPSK	1	1		17.74				
100	QPSK	1	137		17.71		19.0	0.0	
100	QPSK	1	271		17.63				
100	QPSK	135	0		17.68		19.0	0.0	
100	QPSK	135	69		17.73		19.0	0.0	
100	QPSK	135	138		17.83		19.0	0.0	
100	QPSK	270	0		17.72				
100	16QAM	1	1		17.71		19.0	0.0	
100	64QAM	1	1		17.72		18.0	0.0	
100	256QAM	1	1		16.73		18.0	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	81	630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3475.02	3500.01	3525.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	



Part270 n78 Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		18.00		19.5	0.0	
100	PI2 BPSK	1	271		18.04				
100	PI2 BPSK	135	0		17.83		19.0	0.5	
100	PI2 BPSK	135	69		17.89		19.5	0.0	
100	PI2 BPSK	135	138		17.81		19.0	0.5	
100	PI2 BPSK	270	0		17.65				
100	QPSK	1	1		18.12				
100	QPSK	1	137		18.08		19.5	0.0	
100	QPSK	1	271		18.05				
100	QPSK	135	0		17.18		18.5	1.0	
100	QPSK	135	69		18.00		19.5	0.0	
100	QPSK	135	138		17.68		18.5	1.0	
100	QPSK	270	0		17.69				
100	16QAM	1	1		17.13		18.5	1.0	
100	64QAM	1	1		15.58		17.0	2.5	
100	256QAM	1	1		13.60		15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	96	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3742.91	3750	3759.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	648968	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3750.02	3750	3750.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3715.02	3750	3795.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647168	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	

Part270 n78 HPUE Ant 2 DSI2									
BW (MHz)	Modulation	RB 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		18.68				
100	PI2 BPSK	1	137		18.62		20.0	0.0	
100	PI2 BPSK	1	271		18.68				
100	PI2 BPSK	135	0		18.66		20.0	0.0	
100	PI2 BPSK	135	69		18.64		20.0	0.0	
100	PI2 BPSK	135	138		18.69		20.0	0.0	
100	PI2 BPSK	270	0		18.67				
100	QPSK	1	1		18.69				
100	QPSK	1	137		18.69		20.0	0.0	
100	QPSK	1	271		18.62				
100	QPSK	135	0		18.63		20.0	0.0	
100	QPSK	135	69		18.68		20.0	0.0	
100	QPSK	135	138		18.65		20.0	0.0	
100	QPSK	270	0		18.65				
100	16QAM	1	1		18.68		20.0	0.0	
100	64QAM	1	1		18.63		20.0	0.0	
100	256QAM	1	1		18.62		18.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	96	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3742.91	3750	3759.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	648968	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3750.02	3750	3750.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3715.02	3750	3795.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647168	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	

Part27Q 78 Ant 2 DSI2									
BW (MHz)	Modulation	RB 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		18.14				
100	PI2 BPSK	1	137		18.14		19.5	0.0	
100	PI2 BPSK	1	271		18.18				
100	PI2 BPSK	135	0		17.74		19.0	0.5	
100	PI2 BPSK	135	69		18.13		19.5	0.0	
100	PI2 BPSK	135	138		17.69		19.0	0.5	
100	PI2 BPSK	270	0		17.69				
100	QPSK	1	1		18.28				
100	QPSK	1	137		18.22		19.5	0.0	
100	QPSK	1	271		18.18				
100	QPSK	135	0		17.21		18.5	1.0	
100	QPSK	135	69		18.22		19.5	0.0	
100	QPSK	135	138		17.27		18.5	1.0	
100	QPSK	270	0		17.27				
100	16QAM	1	1		17.22		18.5	1.0	
100	64QAM	1	1		15.72		17.0	2.5	
100	256QAM	1	1		13.70		15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3465	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	96	632968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3462.91	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3460	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	631968	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	631813	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3463.01	3500.01	3540.01	Tune-up limit (dBm)	MPR (dB)	



Part27Q 78 HPUE Ant 2 DS12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					630001			
Frequency (MHz)					3000.01			
100	PI2 BPSK	1	1	18.82				
100	PI2 BPSK	1	137	18.83			20.0	0.0
100	PI2 BPSK	1	271	18.80				
100	PI2 BPSK	135	0	18.82			20.0	0.0
100	PI2 BPSK	135	69	18.80			20.0	0.0
100	PI2 BPSK	135	138	18.83			20.0	0.0
100	PI2 BPSK	270	0	18.77			20.0	0.0
100	QPSK	1	1	18.85				
100	QPSK	1	137	18.80			20.0	0.0
100	QPSK	1	271	18.82				
100	QPSK	135	0	18.82			20.0	0.0
100	QPSK	135	69	18.84			20.0	0.0
100	QPSK	135	138	18.83			20.0	0.0
100	QPSK	270	0	18.81			20.0	0.0
100	16QAM	1	1	18.76			20.0	0.0
100	64QAM	1	1	18.74			20.0	0.0
100	256QAM	1	1	18.7			18.0	2.0
Channel				631000	633334	635668		
Frequency (MHz)				3485	3000.01	3005.02		
90	QPSK	1	123	18.44	18.61	18.60	20.0	0.0
Channel				632068	633334	634000		
Frequency (MHz)				3480.02	3000.01	3010		
80	QPSK	1	109	18.53	18.59	18.60	20.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3000.01	3515.01		
70	QPSK	1	96	18.50	18.61	18.60	20.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3000.01	3020.02		
60	QPSK	1	81	18.46	18.56	18.53	20.0	0.0
Channel				631068	633334	635000		
Frequency (MHz)				3475.02	3000.01	3025		
50	QPSK	1	67	18.49	18.57	18.63	20.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3480.01	3000.01	3028.01		
40	QPSK	1	53	18.46	18.63	18.62	20.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3485	3000.01	3035.02		
30	QPSK	1	39	18.43	18.55	18.63	20.0	0.0
Channel				630668	633334	635000		
Frequency (MHz)				3480.02	3000.01	3040		
20	QPSK	1	26	18.46	18.61	18.59	20.0	0.0
Channel				630500	633334	635150		
Frequency (MHz)				3475	3000.01	3042.02		
15	QPSK	1	19	18.47	18.60	18.54	20.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3480.01	3000.01	3040.01		
10	QPSK	1	12	18.54	18.63	18.57	20.0	0.0



n38 Ant 3 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2560.02	2565	2569.98			
40	PI2 BPSK	1	1	23.65	23.71	23.77			
40	PI2 BPSK	1	53	23.65	23.75	23.72	24.5	0.0	
40	PI2 BPSK	1	104	23.64	23.68	23.62			
40	PI2 BPSK	50	0	23.16	23.28	23.28	24.0	0.5	
40	PI2 BPSK	50	28	23.67	23.72	23.69	24.5	0.0	
40	PI2 BPSK	50	56	23.20	23.27	23.20	24.0	0.5	
40	PI2 BPSK	100	0	23.18	23.32	23.31			
40	QPSK	1	1	23.71	23.79	23.76			
40	QPSK	1	53	23.67	23.75	23.73	24.5	0.0	
40	QPSK	1	104	23.66	23.66	23.66			
40	QPSK	50	0	22.89	22.84	22.71	23.5	1.0	
40	QPSK	50	28	23.62	23.72	23.69	24.5	0.0	
40	QPSK	50	56	22.70	22.74	22.80	23.5	1.0	
40	QPSK	100	0	22.73	22.85	22.75			
40	16QAM	1	1	22.74	22.76	22.76	23.5	1.0	
40	64QAM	1	1	21.28	21.33	21.20	22.0	2.5	
40	256QAM	1	1	19.22	19.30	19.27	22.0	4.5	
Channel									
Frequency (MHz)				2565.01	2565	2564.99			
30	QPSK	1	1	23.65	23.67	23.65	24.5	0.0	
Channel									
Frequency (MHz)				5160.04	516000	521496			
25	QPSK	1	1	23.64	23.67	23.64	24.5	0.0	
Channel									
Frequency (MHz)				516000	516000	520000			
20	QPSK	1	1	23.60	23.65	23.70	24.5	0.0	
Channel									
Frequency (MHz)				515502	516000	523488			
15	QPSK	1	1	23.77	23.71	23.71	24.5	0.0	
Channel									
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	23.65	23.74	23.65	24.5	0.0	

n41 Ant 3 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2552.99	2540			
100	PI2 BPSK	1	1	23.73	23.82	23.79			
100	PI2 BPSK	1	137	23.76	23.76	23.80	23.82	24.5	0.0
100	PI2 BPSK	1	271	23.75	23.80	23.67			
100	PI2 BPSK	135	0	23.24	23.39	23.31	24.0	0.5	
100	PI2 BPSK	135	69	23.76	23.82	23.70	24.5	0.0	
100	PI2 BPSK	135	138	23.23	23.34	23.26	24.0	0.5	
100	PI2 BPSK	270	0	23.19	23.36	23.42			
100	QPSK	1	1	23.72	23.86	23.79			
100	QPSK	1	197	23.71	23.83	23.80	24.5	0.0	
100	QPSK	1	271	23.71	23.71	23.70			
100	QPSK	135	0	22.74	22.89	22.71	23.5	1.0	
100	QPSK	135	69	23.68	23.83	23.76	24.5	0.0	
100	QPSK	135	138	22.74	22.82	22.87	23.5	1.0	
100	QPSK	270	0	22.76	22.96	22.82			
100	16QAM	1	1	22.82	22.80	22.87	23.5	1.0	
100	64QAM	1	1	21.32	21.41	21.21	22.0	2.5	
100	256QAM	1	1	19.28	19.34	19.31	22.0	4.5	
Channel									
Frequency (MHz)				5020.01	516598	526600			
80	QPSK	1	123	23.61	23.79	23.65	24.5	0.0	
Channel									
Frequency (MHz)				507204	516598	525998			
80	QPSK	1	81	23.63	23.73	23.71	24.5	0.0	
Channel									
Frequency (MHz)				505204	516598	532998			
80	QPSK	1	109	23.59	23.76	23.69	24.5	0.0	
Channel									
Frequency (MHz)				505200	516598	531998			
80	QPSK	1	81	23.63	23.73	23.71	24.5	0.0	
Channel									
Frequency (MHz)				2521.02	2592.99	2654.98			
50	QPSK	1	67	23.67	23.80	23.67	24.5	0.0	
Channel									
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	23.58	23.74	23.74	24.5	0.0	
Channel									
Frequency (MHz)				502200	516598	534998			
30	QPSK	1	39	23.68	23.75	23.73	24.5	0.0	
Channel									
Frequency (MHz)				601204.00	616998.00	635998.00			
20	QPSK	1	26	23.67	23.81	23.75	24.5	0.0	
Channel									
Frequency (MHz)				600700.00	616998.00	635998.00			
15	QPSK	1	19	23.61	23.74	23.73	24.5	0.0	
Channel									
Frequency (MHz)				2501.01	2592.99	2655.00			
10	QPSK	1	12	23.61	23.73	23.74	24.5	0.0	

n48 Ant 3 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3690			
40	PI2 BPSK	1	1	20.41	20.42	20.43			
40	PI2 BPSK	1	53	20.44	20.47	20.46	22.0	0.0	
40	PI2 BPSK	1	104	20.35	20.48	20.39			
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5	0.5	
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0	0.0	
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5	0.5	
40	PI2 BPSK	100	0	19.98	20.04	20.07			
40	QPSK	1	1	20.48	20.55	20.52			
40	QPSK	1	53	20.40	20.44	20.48	22.0	0.0	
40	QPSK	1	104	20.45	20.51	20.47			
40	QPSK	50	0	19.97	20.07	19.97	21.0	1.0	
40	QPSK	50	28	20.40	20.50	20.46	22.0	0.0	
40	QPSK	50	56	19.98	20.06	20.05	21.0	1.0	
40	QPSK	100	0	19.93	20.05	19.96			
40	16QAM	1	1	19.95	20.06	20.02	21.0	1.0	
40	64QAM	1	1	17.98	18.10	18.05	19.5	2.5	
40	256QAM	1	1	15.98	16.31	16.00	17.5	4.5	
Channel									
Frequency (MHz)				6376.02	641666	645666			
30	QPSK	1	1	20.36	20.51	20.48	22.0	0.0	
Channel									
Frequency (MHz)				637304	641666	645000			
20	QPSK	1	1	20.41	20.48	20.43	22.0	0.0	
Channel									
Frequency (MHz)				637168	641666	646166			
15	QPSK	1	1	20.40	20.47	20.41	22.0	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3695			
10	QPSK	1	1	20.41	20.48	20.39	22.0	0.0	



Par270 n77 Ant 3 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.42	18.47	18.41			
100	PI2 BPSK	1	137	18.44	18.53	18.48	20.0	0.0	
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PI2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.56	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.58	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	64QAM	1	1	18.02	18.10	18.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3 DSI2									
BW (MHz)	Modulation	RB 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	21.43	21.46	21.43			
100	PI2 BPSK	1	137	21.40	21.54	21.49	23.0	0.0	
100	PI2 BPSK	1	271	21.50	21.54	21.45			
100	PI2 BPSK	135	0	21.05	21.10	20.99	22.5	0.5	
100	PI2 BPSK	135	69	21.46	21.54	21.41	23.0	0.0	
100	PI2 BPSK	135	138	21.06	21.16	20.96	22.5	0.5	
100	PI2 BPSK	270	0	21.07	21.07	21.11			
100	QPSK	1	1	21.56	21.62	21.56			
100	QPSK	1	137	21.39	21.48	21.47	23.0	0.0	
100	QPSK	1	271	21.47	21.41	21.45			
100	QPSK	135	0	20.48	20.55	20.46	22.0	1.0	
100	QPSK	135	69	21.38	21.58	21.50	23.0	0.0	
100	QPSK	135	138	20.38	20.59	20.49	22.0	1.0	
100	QPSK	270	0	20.57	20.59	20.52			
100	16QAM	1	1	20.52	20.57	20.49	22.0	1.0	
100	64QAM	1	1	19.06	19.08	19.01	20.5	2.5	
100	256QAM	1	1	17.04	17.02	17.02	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.45	21.52	21.47	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.43	21.56	21.50	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.45	21.48	21.44	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.45	21.49	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.43	21.59	21.48	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.45	21.55	21.47	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.52	21.57	21.53	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.49	21.50	21.48	23.0	0.0	

Part27Q n77 Ant 3 DSI2									
BW (MHz)	Modulation	RB 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		18.82				
100	PI2 BPSK	1	137		18.82		20.0	0.0	
100	PI2 BPSK	1	271		18.80				
100	PI2 BPSK	135	0		18.42		19.5	0.5	
100	PI2 BPSK	135	69		18.78		20.0	0.0	
100	PI2 BPSK	135	138		18.44		19.5	0.5	
100	PI2 BPSK	270	0		18.31				
100	QPSK	1	1		18.89				
100	QPSK	1	137		18.85		20.0	0.0	
100	QPSK	1	271		18.77				
100	QPSK	135	0		17.90		19.0	1.0	
100	QPSK	135	69		18.87		20.0	0.0	
100	QPSK	135	138		17.91		19.0	1.0	
100	QPSK	270	0		17.97				
100	16QAM	1	1		17.90		19.0	1.0	
100	64QAM	1	1		18.42		17.5	2.5	
100	256QAM	1	1		14.40		15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.78	18.82	18.68	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.71	18.80	18.74	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.72	18.79	18.69	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.76	18.81	18.74	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.77	18.80	18.73	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.74	18.79	18.69	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.70	18.82	18.68	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.70	18.83	18.71	20.0	0.0	



Part27Q n77 HPUE Ant 3 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1	21.65						
100	PI2 BPSK	1	137	21.86			23.0	0.0		
100	PI2 BPSK	1	271	21.75						
100	PI2 BPSK	135	0	21.39			22.5	0.5		
100	PI2 BPSK	135	69	21.82			23.0	0.0		
100	PI2 BPSK	135	138	21.47			22.5	0.5		
100	PI2 BPSK	270	0	21.32						
100	QPSK	1	1	21.84						
100	QPSK	1	137	21.86			23.0	0.0		
100	QPSK	1	271	21.77						
100	QPSK	135	0	20.84			22.0	1.0		
100	QPSK	135	69	21.81			23.0	0.0		
100	QPSK	135	138	20.93			22.0	1.0		
100	QPSK	270	0	21.01			22.0	1.0		
100	16QAM	1	1	20.92			20.5	2.5		
100	64QAM	1	1	19.43			18.5	4.5		
100	256QAM	1	1	17.43			15.5	4.5		
Channel										
Frequency (MHz)				633000			633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	3495	3500.01	3505.02	23.0	0.0		
Channel										
Frequency (MHz)				633668			633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	3498.02	3500.01	3501.99	23.0	0.0		
Channel										
Frequency (MHz)				633334			634668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	21.78	21.85	21.66	23.0	0.0		
Channel										
Frequency (MHz)				630000			633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	21.80	21.79	21.67	23.0	0.0		
Channel										
Frequency (MHz)				6376.02			3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	21.78	21.86	21.73	23.0	0.0		
Channel										
Frequency (MHz)				3470.01			3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	21.75	21.84	21.68	23.0	0.0		
Channel										
Frequency (MHz)				630668			633334	635000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	21.82	21.90	21.83	23.0	0.0		
Channel										
Frequency (MHz)				630000			633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	3457.5	3500.01	3542.52	23.0	0.0		
Channel										
Frequency (MHz)				631334			633334	635334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	3458.01	3500.01	3545.01	23.0	0.0		

Part27O n78 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750			3750	3750		
100	PI2 BPSK	1	1	18.7						
100	PI2 BPSK	1	137	18.55			20.0	0.0		
100	PI2 BPSK	1	271	18.58						
100	PI2 BPSK	135	0	18.09			19.5	0.5		
100	PI2 BPSK	135	69	18.59			20.0	0.0		
100	PI2 BPSK	135	138	18.22			19.5	0.5		
100	PI2 BPSK	270	0	18.17						
100	QPSK	1	1	18.05						
100	QPSK	1	137	18.59			20.0	0.0		
100	QPSK	1	271	18.56						
100	QPSK	135	0	17.57			19.0	1.0		
100	QPSK	135	69	18.60			20.0	0.0		
100	QPSK	135	138	17.80			19.0	1.0		
100	QPSK	270	0	17.66			19.0	1.0		
100	16QAM	1	1	17.58			17.5	2.5		
100	64QAM	1	1	16.15			15.5	4.5		
100	256QAM	1	1	14.14			13.5	4.5		
Channel										
Frequency (MHz)				640968			650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	123	3745.02	3750	3755.01	20.0	0.0		
Channel										
Frequency (MHz)				640334			650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	3748.01	3750	3750.02	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	95	3735	3750	3765	20.0	0.0		
Channel										
Frequency (MHz)				640668			650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	3730.02	3750	3770.01	20.0	0.0		
Channel										
Frequency (MHz)				640334			650000	652000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	3725.01	3750	3775.02	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	653000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	3716.02	3750	3765.01	20.0	0.0		
Channel										
Frequency (MHz)				640668			650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	3715.02	3750	3765.01	20.0	0.0		
Channel										
Frequency (MHz)				640334			650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	3710.01	3750	3760.02	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	652834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	3707.52	3750	3762.51	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	3705	3750	3755	20.0	0.0		

Part27O n78 HPUE Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750			3750	3750		
100	PI2 BPSK	1	1	21.62						
100	PI2 BPSK	1	137	21.53			23.0	0.0		
100	PI2 BPSK	1	271	21.62						
100	PI2 BPSK	135	0	21.06			22.5	0.5		
100	PI2 BPSK	135	69	21.57			23.0	0.0		
100	PI2 BPSK	135	138	21.27			22.5	0.5		
100	PI2 BPSK	270	0	21.20						
100	QPSK	1	1	21.84						
100	QPSK	1	137	21.81			23.0	0.0		
100	QPSK	1	271	21.82						
100	QPSK	135	0	20.66			22.0	1.0		
100	QPSK	135	69	21.61			23.0	0.0		
100	QPSK	135	138	20.98			22.0	1.0		
100	QPSK	270	0	20.70			20.5	2.5		
100	16QAM	1	1	20.52			20.5	2.5		
100	64QAM	1	1	19.14			18.5	4.5		
100	256QAM	1	1	17.20			16.5	4.5		
Channel										
Frequency (MHz)				640968			650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	123	3745.02	3750	3755.01	20.0	0.0		
Channel										
Frequency (MHz)				640334			650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	3748.01	3750	3750.02	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	95	3735	3750	3765	20.0	0.0		
Channel										
Frequency (MHz)				640668			650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	3730.02	3750	3770.01	20.0	0.0		
Channel										
Frequency (MHz)				640334			650000	652000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	3725.01	3750	3775.02	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	653000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	3716.02	3750	3765.01	20.0	0.0		
Channel										
Frequency (MHz)				640668			650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	3715.02	3750	3765.01	20.0	0.0		
Channel										
Frequency (MHz)				640334			650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	3710.01	3750	3760.02	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	652834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	19	3707.52	3750	3762.51	20.0	0.0		
Channel										
Frequency (MHz)				640000			650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	12	3705	3750	3755	20.0	0.0		



Part27Q 78 Ant 3 DS12									
BW (MHz)	Modulation	RB 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	18.90	18.90	18.90	20.0	0.0	
100	PI2 BPSK	1	137	18.96	18.96	18.96	20.0	0.0	
100	PI2 BPSK	1	271	18.98	18.98	18.98	20.0	0.0	
100	PI2 BPSK	135	0	18.60	18.60	18.60	19.5	0.5	
100	PI2 BPSK	135	69	18.89	18.89	18.89	20.0	0.0	
100	PI2 BPSK	135	138	18.55	18.55	18.55	19.5	0.5	
100	PI2 BPSK	270	0	18.37	18.37	18.37	20.0	0.0	
100	QPSK	1	1	19.06	19.06	19.06	20.0	0.0	
100	QPSK	1	137	18.85	18.85	18.85	20.0	0.0	
100	QPSK	1	271	18.87	18.87	18.87	20.0	0.0	
100	QPSK	135	0	17.88	17.88	17.88	19.0	1.0	
100	QPSK	135	69	19.04	19.04	19.04	20.0	0.0	
100	QPSK	135	138	18.54	18.54	18.54	19.0	1.0	
100	QPSK	270	0	18.10	18.10	18.10	20.0	0.0	
100	16QAM	1	1	18.07	18.07	18.07	19.0	1.0	
100	64QAM	1	1	18.58	18.58	18.58	17.5	2.5	
100	256QAM	1	1	14.37	14.37	14.37	16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.88	18.96	18.84	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.85	18.93	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	18.86	18.84	18.82	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.88	18.86	18.77	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.95	18.95	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.87	18.84	18.83	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	18.95	18.89	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.94	18.90	18.76	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.89	18.89	18.79	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.85	18.85	18.82	20.0	0.0	

Part27Q 78 HPUE Ant 3 DS12									
BW (MHz)	Modulation	RB 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	21.61	21.61	21.61	23.0	0.0	
100	PI2 BPSK	1	137	21.97	21.97	21.97	23.0	0.0	
100	PI2 BPSK	1	271	22.04	22.04	22.04	23.0	0.0	
100	PI2 BPSK	135	0	21.65	21.65	21.65	22.5	0.5	
100	PI2 BPSK	135	69	21.88	21.88	21.88	23.0	0.0	
100	PI2 BPSK	135	138	21.50	21.50	21.50	22.5	0.5	
100	PI2 BPSK	270	0	21.40	21.40	21.40	23.0	0.0	
100	QPSK	1	1	22.07	22.07	22.07	23.0	0.0	
100	QPSK	1	137	21.80	21.80	21.80	23.0	0.0	
100	QPSK	1	271	21.83	21.83	21.83	23.0	0.0	
100	QPSK	135	0	20.98	20.98	20.98	22.0	1.0	
100	QPSK	135	69	22.05	22.05	22.05	23.0	0.0	
100	QPSK	135	138	20.99	20.99	20.99	22.0	1.0	
100	QPSK	270	0	21.10	21.10	21.10	23.0	0.0	
100	16QAM	1	1	21.04	21.04	21.04	20.5	2.5	
100	64QAM	1	1	18.61	18.61	18.61	18.5	4.5	
100	256QAM	1	1	17.62	17.62	17.62	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.94	21.99	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.89	21.95	21.90	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	21.91	21.93	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.86	21.96	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.88	21.99	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.92	21.96	21.87	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.89	21.93	21.89	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.86	21.96	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.86	21.93	21.85	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.89	21.92	21.89	23.0	0.0	

n38 Ant 4 DSI2									
BW [MHz]	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	PI/2 BPSK	1	1	21.51	21.51	21.49			
40	PI/2 BPSK	1	53	21.45	21.48	21.42	23.0	0.0	
40	PI/2 BPSK	1	104	21.43	21.48	21.44			
40	PI/2 BPSK	50	0	21.51	21.53	21.50	23.0	0.0	
40	PI/2 BPSK	50	28	21.48	21.49	21.44	23.0	0.0	
40	PI/2 BPSK	50	56	21.45	21.55	21.54			
40	PI/2 BPSK	100	0	21.45	21.52	21.50	23.0	0.0	
40	QPSK	1	1	21.52	21.56	21.54			
40	QPSK	1	53	21.52	21.53	21.48	23.0	0.0	
40	QPSK	1	104	21.47	21.50	21.49			
40	QPSK	50	0	21.03	21.11	21.05	22.5	0.5	
40	QPSK	50	28	21.45	21.50	21.46	23.0	0.0	
40	QPSK	50	56	20.98	21.10	21.07			
40	QPSK	100	0	20.98	21.09	21.05	22.5	0.5	
40	16QAM	1	1	21.05	21.06	20.97	22.5	0.5	
40	64QAM	1	1	19.54	19.60	19.46	21.0	2.0	
40	256QAM	1	1	17.50	17.57	17.54	19.0	4.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.46	21.55	21.46	23.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	21.42	21.52	21.42	23.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.42	21.52	21.43	23.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.47	21.54	21.41	23.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	21.41	21.53	21.48	23.0	0.0	

n41 Ant 4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.08	22.19	22.07			
100	PI/2 BPSK	1	137	22.05	22.19	22.12	24.0	0.0	
100	PI/2 BPSK	1	271	22.07	22.14	22.03			
100	PI/2 BPSK	135	0	22.07	22.16	22.05	24.0	0.0	
100	PI/2 BPSK	135	69	22.02	22.18	22.04	24.0	0.0	
100	PI/2 BPSK	135	138	22.10	22.18	22.07			
100	PI/2 BPSK	270	0	22.06	22.15	22.06	24.0	0.0	
100	QPSK	1	1	22.08	22.21	22.11			
100	QPSK	1	137	22.07	22.20	22.12	24.0	0.0	
100	QPSK	1	271	22.10	22.15	22.07			
100	QPSK	135	0	22.09	22.19	22.15	24.0	0.0	
100	QPSK	135	69	22.08	22.20	22.15	24.0	0.0	
100	QPSK	135	138	22.06	22.17	22.13			
100	QPSK	270	0	22.11	22.18	22.15	24.0	0.0	
100	16QAM	1	1	22.13	22.17	22.15	24.0	0.0	
100	64QAM	1	1	21.85	21.72	21.59	23.5	0.5	
100	256QAM	1	1	19.63	19.63	19.58	21.5	2.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.04	22.19	22.05	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.07	22.20	22.10	24.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2536	2592.99	2639.98			
60	QPSK	1	1	22.05	22.16	22.01	24.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.07	22.20	21.99	24.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.06	22.17	22.03	24.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.04	22.17	22.00	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.98	22.14	22.09	24.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	21.99	22.19	22.04	24.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.06	22.15	22.07	24.0	0.0	



n48 Ant 5 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	24.45	24.46	24.46			
40	PI2 BPSK	1	53	24.45	24.49	24.44	26.0	0.0	
40	PI2 BPSK	1	104	24.37	24.53	24.45			
40	PI2 BPSK	50	0	23.99	24.03	24.01	25.5	0.5	
40	PI2 BPSK	50	28	24.40	24.52	24.46	26.0	0.5	
40	PI2 BPSK	50	56	24.03	24.02	24.05	25.5	0.5	
40	PI2 BPSK	100	0	24.05	24.06	24.02			
40	QPSK	1	1	24.50	24.57	24.52			
40	QPSK	1	53	24.41	24.52	24.46	26.0	0.0	
40	QPSK	1	104	24.45	24.46	24.40			
40	QPSK	50	0	23.49	23.63	23.46	26.0	1.0	
40	QPSK	50	28	24.44	24.51	24.44	26.0	0.0	
40	QPSK	50	56	23.54	23.51	23.47	25.0	1.0	
40	QPSK	100	0	23.51	23.57	23.47			
40	16QAM	1	1	23.55	23.52	23.56	25.0	1.0	
40	64QAM	1	1	22.02	22.10	21.98	23.5	2.5	
40	256QAM	1	1	19.98	20.03	20.08	21.5	4.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	24.39	24.54	24.44	26.0	0.0	
Channel									
Frequency (MHz)				637.334	641666	646166			
20	QPSK	1	1	24.43	24.49	24.43	26.0	0.0	
Channel									
Frequency (MHz)				637.168	641666	646166			
15	QPSK	1	1	24.42	24.45	24.41	23.0	0.0	
Channel									
Frequency (MHz)				637000	641666	646332			
10	QPSK	1	1	24.44	24.48	24.46	26.0	0.0	

Par270 n77 Ant 5 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.91	23.01	22.96			
100	PI2 BPSK	1	137	23.00	23.02	22.97	24.5	0.0	
100	PI2 BPSK	1	271	22.98	23.01	23.01			
100	PI2 BPSK	135	0	22.59	22.67	22.61	24.0	0.5	
100	PI2 BPSK	135	69	23.01	23.03	22.96	24.5	0.0	
100	PI2 BPSK	135	138	22.50	22.65	22.56	24.0	0.5	
100	PI2 BPSK	270	0	22.58	22.66	22.55			
100	QPSK	1	1	23.05	23.11	23.08			
100	QPSK	1	137	22.95	23.03	23.03	24.5	0.0	
100	QPSK	1	271	22.98	23.08	23.03			
100	QPSK	135	0	22.09	22.11	22.08	23.5	1.0	
100	QPSK	135	69	22.96	23.05	22.98	24.5	0.0	
100	QPSK	135	138	22.09	22.08	22.06	23.5	1.0	
100	QPSK	270	0	22.03	22.06	22.06			
100	16QAM	1	1	22.08	22.07	22.08	23.5	1.0	
100	64QAM	1	1	20.52	20.67	20.80	22.0	2.5	
100	256QAM	1	1	18.54	18.59	18.53	23.0	4.5	
Channel									
Frequency (MHz)				3745.02	3840	3935.01			
80	QPSK	1	123	23.00	23.05	23.04	24.5	0.0	
Channel									
Frequency (MHz)				646334	650000	653666			
80	QPSK	1	109	22.98	22.98	22.95	24.5	0.0	
Channel									
Frequency (MHz)				646668	650000	653334			
80	QPSK	1	81	22.95	22.98	23.01	24.5	0.0	
Channel									
Frequency (MHz)				646334	650000	653668			
50	QPSK	1	67	23.02	23.09	23.00	24.5	0.0	
Channel									
Frequency (MHz)				646300	650000	653000			
40	QPSK	1	53	23.01	23.04	22.94	24.5	0.0	
Channel									
Frequency (MHz)				647334	650000	654668			
20	QPSK	1	26	22.95	23.03	23.00	24.5	0.0	
Channel									
Frequency (MHz)				647168	650000	654834			
15	QPSK	1	19	23.02	23.09	22.96	24.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000			
10	QPSK	1	12	22.98	23.09	22.96	24.5	0.0	

Par270 n77 HPUE Ant 5 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	24.45	24.55	24.46			
100	PI2 BPSK	1	137	24.48	24.51	24.54	26.0	0.0	
100	PI2 BPSK	1	271	24.48	24.56	24.47			
100	PI2 BPSK	135	0	24.46	24.49	24.58	26.0	0.0	
100	PI2 BPSK	135	69	24.52	24.51	24.43	26.0	0.0	
100	PI2 BPSK	135	138	24.42	24.56	24.42	26.0	0.0	
100	PI2 BPSK	270	0	24.53	24.52	24.42			
100	QPSK	1	1	24.60	24.67	24.62			
100	QPSK	1	137	24.53	24.56	24.56	26.0	0.0	
100	QPSK	1	271	24.45	24.55	24.42			
100	QPSK	135	0	24.47	24.60	24.41	26.0	0.0	
100	QPSK	135	69	24.52	24.65	24.53	26.0	0.0	
100	QPSK	135	138	24.52	24.50	24.47	26.0	0.0	
100	QPSK	270	0	24.47	24.61	24.53			
100	16QAM	1	1	24.55	24.52	24.47	25.0	1.0	
100	64QAM	1	1	23.60	23.65	23.51	23.0	1.0	
100	256QAM	1	1	21.58	21.68	21.50	23.0	3.0	
Channel									
Frequency (MHz)				646334	650000	653334			
80	QPSK	1	123	24.50	24.60	24.50	26.0	0.0	
Channel									
Frequency (MHz)				646334	650000	652668			
80	QPSK	1	109	24.44	24.59	24.53	26.0	0.0	
Channel									
Frequency (MHz)				646668	650000	653334			
80	QPSK	1	81	24.49	24.57	24.51	23.0	0.0	
Channel									
Frequency (MHz)				646334	650000	653668			
50	QPSK	1	67	24.48	24.62	24.47	26.0	0.0	
Channel									
Frequency (MHz)				646300	650000	653000			
40	QPSK	1	53	24.48	24.57	24.50	26.0	0.0	
Channel									
Frequency (MHz)				647334	650000	654668			
20	QPSK	1	26	24.46	24.57	24.48	26.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834			
15	QPSK	1	19	24.45	24.56	24.50	26.0	0.0	
Channel									
Frequency (MHz)				647000	650000	653000			
10	QPSK	1	12	24.49	24.57	24.46	26.0	0.0	



Part27Q n77 Ant 5 DSI2									
BW (MHz)	Modulation	RB 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	22.99	22.99	3500.01			
100	PI2 BPSK	1	137	22.95	22.95		24.5	0.0	
100	PI2 BPSK	1	271	23.01	23.01				
100	PI2 BPSK	135	0	22.86	22.86		24.0	0.5	
100	PI2 BPSK	135	69	23.03	23.03		24.5	0.0	
100	PI2 BPSK	135	138	22.80	22.80		24.0	0.5	
100	PI2 BPSK	270	0	22.68	22.68				
100	QPSK	1	1	23.07	23.07				
100	QPSK	1	137	23.06	23.06		24.5	0.0	
100	QPSK	1	271	23.03	23.03				
100	QPSK	135	0	22.03	22.03		23.5	1.0	
100	QPSK	135	69	23.05	23.05		24.5	0.0	
100	QPSK	135	138	22.02	22.02		23.5	1.0	
100	QPSK	270	0	22.09	22.09				
100	16QAM	1	1	21.99	21.99		23.5	1.0	
100	16QAM	1	1	20.70	20.70		22.0	2.5	
100	25QAM	1	1	18.61	18.61		20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.93	23.00	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.97	22.99	23.01	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.98	23.04	23.00	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	23.03	23.03	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.98	23.00	23.03	24.5	0.0	

Part27Q n77 HPUE Ant 5 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.42	24.42	3500.01			
100	PI2 BPSK	1	137	24.44	24.44		26.0	0.0	
100	PI2 BPSK	1	271	24.42	24.42				
100	PI2 BPSK	135	0	24.48	24.48		26.0	0.0	
100	PI2 BPSK	135	69	24.38	24.38		26.0	0.0	
100	PI2 BPSK	135	138	24.41	24.41		26.0	0.0	
100	PI2 BPSK	270	0	24.52	24.52				
100	QPSK	1	1	24.63	24.63				
100	QPSK	1	137	24.54	24.54		26.0	0.0	
100	QPSK	1	271	24.50	24.50				
100	QPSK	135	0	24.41	24.41		26.0	0.0	
100	QPSK	135	69	24.48	24.48		26.0	0.0	
100	QPSK	135	138	24.46	24.46		26.0	0.0	
100	QPSK	270	0	24.67	24.67				
100	16QAM	1	1	24.44	24.44		26.0	0.0	
100	16QAM	1	1	23.50	23.50		25.0	1.0	
100	25QAM	1	1	21.62	21.62		23.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	24.32	24.47	24.47	26.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	24.30	24.50	24.52	26.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	24.35	24.47	24.53	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	24.40	24.52	24.62	26.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	24.37	24.53	24.54	26.0	0.0	

Part27Q n78 Ant 5 DSI2									
BW (MHz)	Modulation	RB 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	22.90	22.90	3750			
100	PI2 BPSK	1	137	22.91	22.91		24.5	0.0	
100	PI2 BPSK	1	271	22.89	22.89				
100	PI2 BPSK	135	0	22.59	22.59		24.0	0.5	
100	PI2 BPSK	135	69	22.89	22.89		24.5	0.0	
100	PI2 BPSK	135	138	22.50	22.50		24.0	0.5	
100	PI2 BPSK	270	0	22.63	22.63				
100	QPSK	1	1	23.00	23.00				
100	QPSK	1	137	22.98	22.98		24.5	0.0	
100	QPSK	1	271	22.98	22.98				
100	QPSK	135	0	21.95	21.95		23.5	1.0	
100	QPSK	135	69	22.93	22.93		24.5	0.0	
100	QPSK	135	138	21.89	21.89		23.5	1.0	
100	QPSK	270	0	22.02	22.02				
100	16QAM	1	1	21.90	21.90		23.5	1.0	
100	16QAM	1	1	20.61	20.61		22.0	2.5	
100	25QAM	1	1	18.51	18.51		20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.79	22.98	22.91	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.82	22.96	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.86	22.98	22.90	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	22.78	22.98	22.88	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.78	22.94	22.83	24.5	0.0	



Part270 n78 HPUE Ant 5 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3750	3750	3750				
100	PI2 BPSK	1	137		24.31					
100	PI2 BPSK	1	271		24.48		26.0	0.0		
100	PI2 BPSK	1	271		24.44					
100	PI2 BPSK	135	0		24.33		26.0	0.0		
100	PI2 BPSK	135	69		24.39		26.0	0.0		
100	PI2 BPSK	135	138		24.32		26.0	0.0		
100	PI2 BPSK	270	0		24.48		26.0	0.0		
100	QPSK	1	1		24.50					
100	QPSK	1	137		24.46		26.0	0.0		
100	QPSK	1	271		24.49					
100	QPSK	135	0		23.49		26.0	0.0		
100	QPSK	135	69		24.56		26.0	0.0		
100	QPSK	135	138		24.50		26.0	0.0		
100	QPSK	270	0		24.51		26.0	0.0		
100	16QAM	1	1		24.35		25.0	1.0		
100	16QAM	1	1		23.61		25.0	1.0		
100	25QAM	1	1		23.67		23.0	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR		
				3745.02	3750	3755.01				
90	QPSK	1	123	24.47	24.43	24.37	26.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	64934	65000	65068	Tune-up limit (dBm)	MPR		
				3742.91	3750	3759.02				
80	QPSK	1	109	24.43	24.48	24.46	26.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	96	64800	65000	65100	Tune-up limit (dBm)	MPR		
				3735	3750	3765				
70	QPSK	1	96	24.47	24.47	24.39	26.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	64868	65000	65134	Tune-up limit (dBm)	MPR		
				3730.02	3750	3770.01				
60	QPSK	1	81	24.38	24.49	24.46	26.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	64800	65000	65000	Tune-up limit (dBm)	MPR		
				3725.01	3750	3775.02				
50	QPSK	1	67	24.44	24.43	24.41	26.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	64768	65000	65234	Tune-up limit (dBm)	MPR		
				3715.02	3750	3785.01				
40	QPSK	1	53	24.46	24.41	24.41	26.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	39	64734	65000	65200	Tune-up limit (dBm)	MPR		
				3710.01	3750	3790.02				
30	QPSK	1	39	24.40	24.52	24.45	26.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	64700	65000	65300	Tune-up limit (dBm)	MPR		
				3705	3750	3795				
20	QPSK	1	26	24.37	24.44	24.48	26.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	64700	65000	65300	Tune-up limit (dBm)	MPR		
				3705	3750	3795				
15	QPSK	1	19	24.48	24.51	24.44	26.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	64700	65000	65300	Tune-up limit (dBm)	MPR		
				3705	3750	3795				
10	QPSK	1	12	24.45	24.44	24.47	26.0	0.0		

Part27Q 78 Ant 5 DSI2										
BW (MHz)	Modulation	RB 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		3000.01					
100	PI2 BPSK	1	137		22.89					
100	PI2 BPSK	1	271		22.91		24.5	0.0		
100	PI2 BPSK	1	271		22.85					
100	PI2 BPSK	135	0		22.82		24.0	0.5		
100	PI2 BPSK	135	69		22.91		24.5	0.0		
100	PI2 BPSK	135	138		22.80		24.0	0.5		
100	PI2 BPSK	270	0		22.60		27.0	0.0		
100	QPSK	1	1		23.02					
100	QPSK	1	137		22.97		24.5	0.0		
100	QPSK	1	271		22.93					
100	QPSK	135	0		21.92		23.5	1.0		
100	QPSK	135	69		22.96		24.5	0.0		
100	QPSK	135	138		21.87		23.5	1.0		
100	QPSK	270	0		21.90		23.5	1.0		
100	16QAM	1	1		21.87		23.5	1.0		
100	16QAM	1	1		20.60		22.0	2.5		
100	25QAM	1	1		18.40		20.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR		
				3495	3500.01	3505.02				
90	QPSK	1	123	22.76	23.01	22.78	24.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	63268	63334	63400	Tune-up limit (dBm)	MPR		
				3490.02	3500.01	3510				
80	QPSK	1	109	22.78	22.95	22.83	24.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	96	63234	63334	63434	Tune-up limit (dBm)	MPR		
				3485.01	3500.01	3515.01				
70	QPSK	1	96	22.70	23.01	22.81	24.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	63200	63334	63468	Tune-up limit (dBm)	MPR		
				3480	3500.01	3505.02				
60	QPSK	1	81	22.75	22.96	22.82	24.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	63168	63334	63500	Tune-up limit (dBm)	MPR		
				3475.02	3500.01	3525				
50	QPSK	1	67	22.80	22.96	22.76	24.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	63134	63334	63534	Tune-up limit (dBm)	MPR		
				3470.01	3500.01	3534.01				
40	QPSK	1	53	22.77	22.93	22.77	24.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	39	63100	63334	63568	Tune-up limit (dBm)	MPR		
				3465	3500.01	3535.02				
30	QPSK	1	39	22.70	22.84	22.70	24.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	63068	63334	63600	Tune-up limit (dBm)	MPR		
				3460.02	3500.01	3540				
20	QPSK	1	26	22.80	22.96	22.80	24.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	63034	63334	63634	Tune-up limit (dBm)	MPR		
				3455	3500.01	3542.02				
15	QPSK	1	19	22.81	23.01	22.75	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	63034	63334	63634	Tune-up limit (dBm)	MPR		
				3450.01	3500.01	3542.01				
10	QPSK	1	12	22.70	22.93	22.85	24.5	0.0		

Part27Q 78 HPUE Ant 5 DSI2										
BW (MHz)	Modulation	RB 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		3000.01					
100	PI2 BPSK	1	137		24.30					
100	PI2 BPSK	1	271		24.32		26.0	0.0		
100	PI2 BPSK	1	271		24.49					
100	PI2 BPSK	135	0		24.38		26.0	0.0		
100	PI2 BPSK	135	69		24.29		26.0	0.0		
100	PI2 BPSK	135	138		24.32		26.0	0.0		
100	PI2 BPSK	270	0		24.33		26.0	0.0		
100	QPSK	1	1		24.51					
100	QPSK	1	137		24.49		26.0	0.0		
100	QPSK	1	271		24.47					
100	QPSK	135	0		24.32		26.0	0.0		
100	QPSK	135	69		24.34		26.0	0.0		
100	QPSK	135	138		24.28		26.0	0.0		
100	QPSK	270	0		24.54		26.0	0.0		
100	16QAM	1	1		24.28		26.0	0.0		
100	16QAM	1	1		23.65		25.0	1.0		
100	25QAM	1	1		21.64		22.0	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR		
				3495	3500.01	3505.02				
90	QPSK	1	123	24						



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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)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	15.32	15.38	15.31			
40	PI2 BPSK	1	53	15.27	15.36	15.27	17.0	0.0	
40	PI2 BPSK	1	104	15.30	15.33	15.33			
40	PI2 BPSK	50	0	15.33	15.36	15.34	17.0	0.0	
40	PI2 BPSK	50	28	15.30	15.33	15.27	17.0	0.0	
40	PI2 BPSK	50	56	15.27	15.34	15.37	17.0	0.0	
40	PI2 BPSK	100	0	15.27	15.32	15.33			
40	QPSK	1	1	15.35	15.40	15.38			
40	QPSK	1	53	15.35	15.37	15.28	17.0	0.0	
40	QPSK	1	104	15.29	15.30	15.32			
40	QPSK	50	0	15.32	15.35	15.31	17.0	0.0	
40	QPSK	50	28	15.33	15.39	15.34	17.0	0.0	
40	QPSK	50	56	15.33	15.36	15.26	17.0	0.0	
40	QPSK	100	0	15.32	15.38	15.33			
40	16QAM	1	1	15.35	15.37	15.29	17.0	0.0	
40	64QAM	1	1	15.34	15.37	15.35	17.0	0.0	
40	256QAM	1	1	15.36	15.38	15.32	15.5	1.5	
Channel									
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	15.28	15.35	15.28	17.0	0.0	
Channel									
Frequency (MHz)				516004	516000	521496			
25	QPSK	1	1	15.30	15.36	15.29	17.0	0.0	
Channel									
Frequency (MHz)				516000	516000	522000			
20	QPSK	1	1	15.34	15.38	15.27	17.0	0.0	
Channel									
Frequency (MHz)				515502	516000	523488			
15	QPSK	1	1	15.23	15.38	15.36	17.0	0.0	
Channel									
Frequency (MHz)				515005	516000	523995			
10	QPSK	1	1	15.24	15.35	15.35	17.0	0.0	

n41 Ant 7 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2552.99	2640			
100	PI2 BPSK	1	1	15.46	15.51	15.31			
100	PI2 BPSK	1	137	15.43	15.47	15.36	17.0	0.0	
100	PI2 BPSK	1	271	15.41	15.50	15.36			
100	PI2 BPSK	135	0	15.45	15.43	15.29	17.0	0.0	
100	PI2 BPSK	135	69	15.41	15.45	15.37	17.0	0.0	
100	PI2 BPSK	135	138	15.46	15.42	15.30	17.0	0.0	
100	PI2 BPSK	270	0	15.46	15.51	15.30			
100	QPSK	1	1	15.48	15.53	15.39			
100	QPSK	1	197	15.45	15.50	15.38	17.0	0.0	
100	QPSK	1	271	15.48	15.51	15.35			
100	QPSK	135	0	15.46	15.46	15.37	17.0	0.0	
100	QPSK	135	69	15.48	15.51	15.38	17.0	0.0	
100	QPSK	135	138	15.44	15.46	15.37	17.0	0.0	
100	QPSK	270	0	15.47	15.50	15.35			
100	16QAM	1	1	15.40	15.48	15.35	17.0	0.0	
100	64QAM	1	1	15.48	15.51	15.38	17.0	0.0	
100	256QAM	1	1	15.51	15.52	15.32	15.5	1.5	
Channel									
Frequency (MHz)				2641	2592.99	2644.98			
80	QPSK	1	123	15.43	15.52	15.39	17.0	0.0	
Channel									
Frequency (MHz)				507204	516598	525998			
80	QPSK	1	109	15.43	15.50	15.37	17.0	0.0	
Channel									
Frequency (MHz)				505200	516598	531998			
80	QPSK	1	81	15.42	15.51	15.37	17.0	0.0	
Channel									
Frequency (MHz)				504204	516598	532998			
50	QPSK	1	67	15.45	15.52	15.32	17.0	0.0	
Channel									
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	15.40	15.51	15.27	17.0	0.0	
Channel									
Frequency (MHz)				502200	516598	534998			
30	QPSK	1	39	15.38	15.47	15.31	17.0	0.0	
Channel									
Frequency (MHz)				501204	516598	535998			
20	QPSK	1	26	15.43	15.48	15.35	17.0	0.0	
Channel									
Frequency (MHz)				500100	516598	536998			
15	QPSK	1	19	15.43	15.50	15.32	17.0	0.0	
Channel									
Frequency (MHz)				500200	516598	537000			
10	QPSK	1	12	15.38	15.51	15.32	17.0	0.0	

n48 Ant 7 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	20.86	20.93	20.87			
40	PI2 BPSK	1	53	20.88	20.94	20.91	22.5	0.0	
40	PI2 BPSK	1	104	20.82	20.88	20.90			
40	PI2 BPSK	50	0	20.80	20.91	20.89	22.5	0.0	
40	PI2 BPSK	50	28	20.85	20.89	20.88	22.5	0.0	
40	PI2 BPSK	50	56	20.82	20.94	20.85	22.5	0.0	
40	PI2 BPSK	100	0	20.91	20.93	20.91			
40	QPSK	1	1	20.92	20.95	20.88			
40	QPSK	1	53	20.86	20.92	20.88	22.5	0.0	
40	QPSK	1	104	20.92	20.93	20.91			
40	QPSK	50	0	20.87	20.93	20.88	22.5	0.0	
40	QPSK	50	28	20.91	20.94	20.90	22.5	0.0	
40	QPSK	50	56	20.91	20.88	20.85	22.5	0.0	
40	QPSK	100	0	20.94	20.93	20.93			
40	16QAM	1	1	20.80	20.92	20.89	22.0	0.5	
40	64QAM	1	1	20.33	20.41	20.44	22.0	0.5	
40	256QAM	1	1	18.41	18.46	18.46	20.0	2.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.98			
30	QPSK	1	1	20.82	20.91	20.78	22.5	0.0	
Channel									
Frequency (MHz)				637334	641666	645000			
20	QPSK	1	1	20.83	20.93	20.79	22.5	0.0	
Channel									
Frequency (MHz)				637168	641666	646166			
15	QPSK	1	1	20.90	20.99	20.85	22.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3695			
10	QPSK	1	1	20.80	20.92	20.78	22.5	0.0	



Par270 n77 PC2&3 Ant 7 DSI2										
BW (MHz)	Modulation	RB 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	17.06	17.10	17.02				
100	PI2 BPSK	1	137	17.00	17.13	17.09	18.5	0.0		
100	PI2 BPSK	1	271	17.05	17.18	17.05				
100	PI2 BPSK	135	0	17.01	17.16	17.05	18.5	0.0		
100	PI2 BPSK	135	69	16.99	17.13	17.03	18.5	0.0		
100	PI2 BPSK	135	138	17.07	17.14	17.02				
100	PI2 BPSK	270	0	17.00	17.07	17.10	18.5	0.0		
100	QPSK	1	1	17.08	17.18	17.10				
100	QPSK	1	137	16.96	17.14	17.05	18.5	0.0		
100	QPSK	1	271	16.99	17.07	17.11				
100	QPSK	135	0	17.06	17.10	17.01	18.5	0.0		
100	QPSK	135	69	17.08	17.12	17.06	18.5	0.0		
100	QPSK	135	138	17.06	17.08	17.04	18.5	0.0		
100	QPSK	270	0	17.05	17.15	17.07				
100	16QAM	1	1	16.99	17.08	17.07	18.5	0.0		
100	16QAM	1	1	17.03	17.07	17.02	18.5	0.0		
100	256QAM	1	1	17.02	17.13	17.03	18.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	17.01	17.11	17.01	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	17.06	17.18	17.00	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	17.00	17.13	17.10	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	17.06	17.10	17.06	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	17.06	17.18	17.03	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	16.99	17.14	17.09	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	17.02	17.00	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	16.97	17.17	17.09	18.5	0.0		

Part27Q n77 PC2&3 Ant 7 DSI2										
BW (MHz)	Modulation	RB 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	17.32						
100	PI2 BPSK	1	137	17.31			18.5	0.0		
100	PI2 BPSK	1	271	17.33						
100	PI2 BPSK	135	0	17.29			18.5	0.0		
100	PI2 BPSK	135	69	17.30			18.5	0.0		
100	PI2 BPSK	135	138	17.32						
100	PI2 BPSK	270	0	17.34			18.5	0.0		
100	QPSK	1	1	17.36						
100	QPSK	1	137	17.35			18.5	0.0		
100	QPSK	1	271	17.34						
100	QPSK	135	0	17.26			17.5	1.0		
100	QPSK	135	69	17.30			18.5	0.0		
100	QPSK	135	138	17.28			17.5	1.0		
100	QPSK	270	0	17.32						
100	16QAM	1	1	17.34			18.5	0.0		
100	16QAM	1	1	17.38			18.5	0.0		
100	256QAM	1	1	17.32			18.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	17.08	17.26	16.97	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	17.02	17.28	16.95	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	17.05	17.22	16.98	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	17.06	17.24	17.00	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	17.00	17.23	17.00	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	17.09	17.23	17.03	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	17.07	17.22	16.98	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	17.10	17.25	16.98	18.5	0.0		

Part270 n78 PC2&3 Ant 7 DSI2										
BW (MHz)	Modulation	RB 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	18.01						
100	PI2 BPSK	1	137	18.00			19.5	0.0		
100	PI2 BPSK	1	271	18.02						
100	PI2 BPSK	135	0	17.91			19.5	0.0		
100	PI2 BPSK	135	69	17.97			19.5	0.0		
100	PI2 BPSK	135	138	18.01						
100	PI2 BPSK	270	0	17.91			19.5	0.0		
100	QPSK	1	1	18.03						
100	QPSK	1	137	17.93			19.5	0.0		
100	QPSK	1	271	17.93						
100	QPSK	135	0	17.92			19.5	0.0		
100	QPSK	135	69	17.98			19.5	0.0		
100	QPSK	135	138	17.97			19.5	0.0		
100	QPSK	270	0	18.00						
100	16QAM	1	1	17.99			19.5	0.0		
100	16QAM	1	1	17.92			19.5	0.0		
100	256QAM	1	1	17.97			19.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	17.66	17.89	17.83	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	17.79	17.85	17.75	19.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	95	17.80	17.89	17.79	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	17.75	17.83	17.84	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	17.77	17.84	17.78	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	17.82	17.84	17.80	19.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	39	17.81	17.87	17.81	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	17.82	17.91	17.75	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	17.83	17.89	17.79	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	17.83	17.92	17.83	19.5	0.0		



Part27Q 78 PC2&3 Ant 7 DSI2									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					3000.01				
Frequency (MHz)									
100	PI2 BPSK	1	1	18.38					
100	PI2 BPSK	1	137	18.39			19.5	0.0	
100	PI2 BPSK	1	271	18.41					
100	PI2 BPSK	135	0	18.40			19.5	0.0	
100	PI2 BPSK	135	69	18.38					
100	PI2 BPSK	135	138	18.35			19.5	0.0	
100	PI2 BPSK	270	0	18.34					
100	QPSK	1	1	18.42					
100	QPSK	1	137	18.41			19.5	0.0	
100	QPSK	1	271	18.37					
100	QPSK	135	0	18.34			19.5	0.0	
100	QPSK	135	69	18.40					
100	QPSK	135	138	18.37			19.5	0.0	
100	QPSK	270	0	18.35					
100	16QAM	1	1	18.38					
100	16QAM	1	1	18.38			19.5	0.0	
100	25QAM	1	1	18.37			19.5	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3485	3000.01	3005.02			
90	QPSK	1	123	18.06	18.18	17.96	19.5	0.0	
Channel				632068	633334	634000			
Frequency (MHz)				3480.02	3000.01	3010			
80	QPSK	1	109	18.04	18.17	18.01	19.5	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3000.01	3191.01			
70	QPSK	1	96	18.14	18.30	18.07	19.5	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3000.01	3020.02			
60	QPSK	1	81	18.11	18.21	18.01	19.5	0.0	
Channel				631000	633334	635000			
Frequency (MHz)				3475.02	3000.01	3025			
50	QPSK	1	67	18.13	18.20	18.04	19.5	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3480.01	3000.01	3028.01			
40	QPSK	1	53	18.07	18.13	18.02	19.5	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3485	3000.01	3035.02			
30	QPSK	1	39	18.11	18.17	17.99	19.5	0.0	
Channel				630668	633334	635900			
Frequency (MHz)				3480.02	3000.01	3040			
20	QPSK	1	26	18.13	18.10	17.96	19.5	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3475.01	3000.01	3042.02			
15	QPSK	1	19	18.07	18.17	17.95	19.5	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3480.01	3000.01	3043.01			
10	QPSK	1	12	18.15	18.15	17.95	19.5	0.0	



n2 Ant 1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				1880	1880	1900			
20	PI2 BPSK	1	1	18.89	19.05	18.97			
20	PI2 BPSK	1	53	18.96	19.05	18.98	20.5	0.0	
20	PI2 BPSK	1	104	18.96	19.01	18.97			
20	PI2 BPSK	50	0	18.94	19.07	19.01	20.5	0.0	
20	PI2 BPSK	50	28	18.92	19.01	18.94	20.5	0.0	
20	PI2 BPSK	50	56	18.97	19.06	18.93	20.5	0.0	
20	PI2 BPSK	100	0	18.98	19.02	18.91			
20	QPSK	1	1	18.98	19.09	18.89			
20	QPSK	1	53	18.87	19.06	18.84	20.5	0.0	
20	QPSK	1	104	18.88	19.02	18.97			
20	QPSK	50	0	18.91	19.06	18.97	20.5	0.0	
20	QPSK	50	28	18.90	19.06	18.95	20.5	0.0	
20	QPSK	50	56	18.97	19.04	18.95	20.5	0.0	
20	QPSK	100	0	18.94	19.01	18.90			
20	16QAM	1	1	18.93	19.07	18.90	20.5	0.0	
20	64QAM	1	1	18.97	19.02	19.01	20.5	0.0	
20	256QAM	1	1	18.90	19.03	18.97	20.0	0.5	
Channel									
Frequency (MHz)									
				1857.5	1880	1902.5			
15	QPSK	1	1	18.91	19.07	18.88	20.5	0.0	
Channel									
Frequency (MHz)									
				371000	376000	381000			
10	QPSK	1	1	18.96	19.01	18.94	20.5	0.0	
Channel									
Frequency (MHz)									
				375500	376000	381500			
5	QPSK	1	1	18.91	18.97	18.92	20.5	0.0	

n5 Ant 1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				834	836.5	838			
20	PI2 BPSK	1	1	23.19	23.27	23.16			
20	PI2 BPSK	1	53	23.34	23.50	23.36	24.7	0.0	
20	PI2 BPSK	1	104	23.34	23.44	23.28			
20	PI2 BPSK	50	0	23.48	23.55	23.48	24.7	0.0	
20	PI2 BPSK	50	28	23.36	23.42	23.29	24.7	0.0	
20	PI2 BPSK	50	56	23.50	23.53	23.48	24.7	0.0	
20	PI2 BPSK	100	0	23.53	23.56	23.48			
20	QPSK	1	1	23.52	23.59	23.50			
20	QPSK	1	53	23.38	23.38	23.35	24.7	0.0	
20	QPSK	1	104	23.36	23.33	23.33			
20	QPSK	50	0	23.48	23.55	23.54	24.7	0.0	
20	QPSK	50	28	23.44	23.52	23.54	24.7	0.0	
20	QPSK	50	56	23.06	23.11	23.09	24.7	0.0	
20	QPSK	100	0	23.55	23.58	23.52			
20	16QAM	1	1	23.10	23.22	23.18	24.7	0.0	
20	64QAM	1	1	21.70	21.81	21.77	23.2	1.5	
20	256QAM	1	1	20.31	20.42	20.36	21.2	3.5	
Channel									
Frequency (MHz)									
				165800	167300	168800			
15	QPSK	1	1	23.51	23.54	23.40	24.7	0.0	
Channel									
Frequency (MHz)									
				165800	167300	168800			
10	QPSK	1	1	23.47	23.53	23.45	24.7	0.0	
Channel									
Frequency (MHz)									
				165300	167300	169300			
5	QPSK	1	1	23.44	23.53	23.42	24.7	0.0	

n7 Ant 1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				2525	2535	2545			
50	PI2 BPSK	1	1	19.02	18.98	18.98			
50	PI2 BPSK	1	135	18.98	19.01	19.00	20.5	0.0	
50	PI2 BPSK	1	268	19.00	19.03	19.02			
50	PI2 BPSK	135	0	19.04	19.04	19.00	20.5	0.0	
50	PI2 BPSK	135	68	19.01	18.98	18.98	20.5	0.0	
50	PI2 BPSK	135	135	18.98	19.05	18.98	20.5	0.0	
50	PI2 BPSK	270	0	18.99	19.02	18.99			
50	QPSK	1	1	18.94	19.02	18.91			
50	QPSK	1	135	18.98	19.04	18.90	20.5	0.0	
50	QPSK	1	268	19.05	19.06	18.99			
50	QPSK	135	0	19.01	19.00	18.92	20.5	0.0	
50	QPSK	135	68	19.01	18.99	18.95	20.5	0.0	
50	QPSK	135	135	19.02	19.03	18.97	20.5	0.0	
50	QPSK	270	0	18.95	19.00	18.90			
50	16QAM	1	1	18.95	18.98	18.98	20.5	0.0	
50	64QAM	1	1	18.97	18.99	18.98	20.5	0.0	
50	256QAM	1	1	18.04	18.03	18.00	20.5	0.0	
Channel									
Frequency (MHz)									
				2520	2535	2550			
40	QPSK	1	1	19.04	19.05	18.79	20.5	0.0	
Channel									
Frequency (MHz)									
				503000	507000	511000			
30	QPSK	1	1	19.04	19.04	18.87	20.5	0.0	
Channel									
Frequency (MHz)									
				502500	507000	511500			
25	QPSK	1	1	18.94	19.03	18.87	20.5	0.0	
Channel									
Frequency (MHz)									
				502000	507000	512000			
20	QPSK	1	1	18.93	18.96	18.78	20.5	0.0	
Channel									
Frequency (MHz)									
				2597.5	2535	2592.5			
15	QPSK	1	1	18.98	18.94	18.80	20.5	0.0	
Channel									
Frequency (MHz)									
				501000	507000	513000			
10	QPSK	1	1	19.04	18.95	18.88	20.5	0.0	
Channel									
Frequency (MHz)									
				500500	507000	513500			
5	QPSK	1	1	18.98	19.01	18.87	20.5	0.0	

n66 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.11	19.12	19.09	21.0	0.0
40	PI2 BPSK	1	108	19.19	19.11	19.04		
40	PI2 BPSK	1	214	19.10	19.19	19.03		
40	PI2 BPSK	108	0	19.11	19.18	19.04	21.0	0.0
40	PI2 BPSK	108	54	19.18	19.20	19.08	21.0	0.0
40	PI2 BPSK	108	108	19.11	19.12	19.11		
40	PI2 BPSK	216	0	19.13	19.11	19.10	21.0	0.0
40	QPSK	1	1	19.20	19.24	19.29		
40	QPSK	1	108	19.21	19.22	19.23	21.0	0.0
40	QPSK	1	214	19.25	19.29	19.23		
40	QPSK	108	0	19.28	19.23	19.20	21.0	0.0
40	QPSK	108	54	19.21	19.27	19.15	21.0	0.0
40	QPSK	108	108	19.16	19.26	19.26	21.0	0.0
40	QPSK	216	0	19.21	19.23	19.15		
40	16QAM	1	1	19.11	19.10	19.11	21.0	0.0
40	64QAM	1	1	19.17	19.13	19.13	21.0	0.0
40	256QAM	1	1	19.16	19.18	19.07	21.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.17	19.23	19.20	21.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720.5	1745	1767.5		
25	QPSK	1	1	19.25	19.24	19.23	21.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.28	19.28	19.15	21.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.19	19.24	19.21	21.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.24	19.21	19.18	21.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.23	19.22	19.26	21.0	0.0

n7 Ant 3 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.62	23.70	23.63		
50	PI/2 BPSK	1	135	23.62	23.68	23.54	24.5	0.0
50	PI/2 BPSK	1	268	23.62	23.71	23.51		
50	PI/2 BPSK	135	0	23.28	23.35	23.24	24.0	0.5
50	PI/2 BPSK	135	68	23.57	23.79	23.58	24.5	0.0
50	PI/2 BPSK	135	135	23.27	23.33	23.25	24.0	0.5
50	PI/2 BPSK	270	0	23.27	23.41	23.32		
50	QPSK	1	1	23.78	23.77	23.66		
50	QPSK	1	135	23.67	23.75	23.67	24.5	0.0
50	QPSK	1	268	23.81	23.86	23.79		
50	QPSK	135	0	22.77	22.82	22.81	23.5	1.0
50	QPSK	135	68	23.67	23.81	23.65	24.5	0.0
50	QPSK	135	135	22.78	22.84	22.75	23.5	1.0
50	QPSK	270	0	22.81	22.85	22.79		
50	16QAM	1	1	22.82	22.82	22.77	23.5	1.0
50	64QAM	1	1	21.32	21.37	21.34	22.0	2.5
50	256QAM	1	1	19.33	19.37	19.28	20.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	23.64	23.75	23.55	24.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.57	23.74	23.60	24.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.65	23.75	23.54	24.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.53	23.76	23.57	24.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.59	23.69	23.52	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.58	23.72	23.59	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.56	23.77	23.52	24.5	0.0

n2 Ant 4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	21.92	21.95	21.97			
20	PI2 BPSK	1	53	21.93	22.03	21.88	23.5	0.0	
20	PI2 BPSK	1	104	21.90	21.96	21.94			
20	PI2 BPSK	50	0	21.47	21.57	21.53	23.0	0.5	
20	PI2 BPSK	50	28	21.94	21.93	21.94	23.5	0.0	
20	PI2 BPSK	50	58	21.54	21.56	21.47	23.0	0.5	
20	PI2 BPSK	100	0	21.48	21.51	21.51			
20	QPSK	1	1	22.00	22.06	22.01			
20	QPSK	1	53	21.87	22.03	21.88	23.5	0.0	
20	QPSK	1	104	21.87	21.94	21.98			
20	QPSK	50	0	21.05	21.11	21.04	22.5	1.0	
20	QPSK	50	28	21.95	21.99	21.97	23.5	0.0	
20	QPSK	50	58	21.00	21.05	21.04			
20	QPSK	100	0	21.02	21.05	20.99	22.5	1.0	
20	16QAM	1	1	20.94	21.09	21.02	22.5	1.0	
20	16QAM	1	1	19.56	19.53	19.48	21.0	2.5	
20	256QAM	1	1	17.55	17.57	17.47	19.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	21.95	22.00	21.91	23.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905			
10	QPSK	1	1	21.96	21.95	21.94	23.5	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	21.97	21.96	21.98	23.5	0.0	

n5 Ant 4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167000	167500			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.42	24.50	24.46			
20	PI2 BPSK	1	53	24.41	24.49	24.38	25.7	0.0	
20	PI2 BPSK	1	104	24.43	24.53	24.47			
20	PI2 BPSK	50	0	24.01	24.07	23.95	25.2	0.5	
20	PI2 BPSK	50	28	24.47	24.53	24.43	25.7	0.0	
20	PI2 BPSK	50	58	24.01	24.09	23.96	25.2	0.5	
20	PI2 BPSK	100	0	24.05	24.05	24.06			
20	QPSK	1	1	24.52	24.59	24.50			
20	QPSK	1	53	24.39	24.48	24.39	25.7	0.0	
20	QPSK	1	104	24.46	24.46	24.42			
20	QPSK	50	0	23.46	23.62	23.47	24.7	1.0	
20	QPSK	50	28	24.39	24.56	24.47	25.7	0.0	
20	QPSK	50	58	23.50	23.61	23.47	24.7	1.0	
20	QPSK	100	0	23.63	23.67	23.51			
20	16QAM	1	1	23.47	23.60	23.46	24.7	1.0	
20	64QAM	1	1	22.08	22.14	21.99	23.2	2.5	
20	256QAM	1	1	19.96	20.13	20.02	21.2	4.5	
Channel				165300	167000	168500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	24.47	24.55	24.48	25.7	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.44	24.48	24.42	25.7	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	24.47	24.48	24.45	25.7	0.0	

n7 Ant 4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	23.35	23.41	23.38			
50	PI2 BPSK	1	135	23.38	23.39	23.33	25.0	0.0	
50	PI2 BPSK	1	268	23.38	23.40	23.35			
50	PI2 BPSK	135	0	23.01	23.04	23.00	24.5	0.5	
50	PI2 BPSK	135	68	23.38	23.40	23.31	25.0	0.0	
50	PI2 BPSK	135	135	23.02	22.96	22.97	24.5	0.5	
50	PI2 BPSK	270	0	22.98	22.98	22.97			
50	QPSK	1	1	23.44	23.43	23.42			
50	QPSK	1	135	23.38	23.43	23.37	25.0	0.0	
50	QPSK	1	268	23.48	23.52	23.45			
50	QPSK	135	0	22.49	22.53	22.50	24.0	1.0	
50	QPSK	135	68	23.39	23.44	23.39	25.0	0.0	
50	QPSK	135	135	22.47	22.49	22.43	24.0	1.0	
50	QPSK	270	0	22.48	22.48	22.43			
50	16QAM	1	1	22.50	22.57	22.44	24.0	1.0	
50	64QAM	1	1	20.99	21.01	20.96	22.5	2.5	
50	256QAM	1	1	18.93	19.05	18.90	20.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	23.37	23.41	23.34	25.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2315	2335	2355			
30	QPSK	1	1	23.39	23.45	23.34	25.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.41	23.45	23.33	25.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.40	23.45	23.37	25.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.38	23.41	23.40	25.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.34	23.47	23.38	25.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.40	23.39	23.38	25.0	0.0	

n38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.38	19.39	19.29			
40	PI/2 BPSK	1	53	19.38	19.34	19.30	21.0	0.0	
40	PI/2 BPSK	1	104	19.31	19.38	19.31			
40	PI/2 BPSK	50	0	19.36	19.34	19.23	21.0	0.0	
40	PI/2 BPSK	50	28	19.39	19.38	19.28	21.0	0.0	
40	PI/2 BPSK	50	56	19.28	19.28	19.24			
40	PI/2 BPSK	100	0	19.29	19.38	19.28	21.0	0.0	
40	QPSK	1	1	19.44	19.49	19.40			
40	QPSK	1	53	19.31	19.46	19.36	21.0	0.0	
40	QPSK	1	104	19.41	19.41	19.29			
40	QPSK	50	0	19.36	19.29	19.23	21.0	0.0	
40	QPSK	50	28	19.37	19.45	19.37	21.0	0.0	
40	QPSK	50	56	19.34	19.30	19.30			
40	QPSK	100	0	19.41	19.42	19.35	21.0	0.0	
40	16QAM	1	1	19.28	19.28	19.31	21.0	0.0	
40	64QAM	1	1	19.29	19.32	19.31	21.0	0.0	
40	256QAM	1	1	18.95	18.92	18.88	20.5	0.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.37	19.45	19.32	21.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	19.30	19.41	19.32	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.34	19.44	19.30	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.41	19.47	19.35	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.41	19.39	19.27	21.0	0.0	

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.43	19.49	19.32			
100	PI/2 BPSK	1	137	19.47	19.44	19.37	21.0	0.0	
100	PI/2 BPSK	1	271	19.36	19.46	19.33			
100	PI/2 BPSK	135	0	19.38	19.43	19.26	21.0	0.0	
100	PI/2 BPSK	135	69	19.44	19.38	19.35	21.0	0.0	
100	PI/2 BPSK	135	138	19.38	19.34	19.33			
100	PI/2 BPSK	270	0	19.31	19.46	19.28			
100	QPSK	1	1	19.50	19.55	19.48			
100	QPSK	1	137	19.31	19.50	19.42	21.0	0.0	
100	QPSK	1	271	19.47	19.47	19.33			
100	QPSK	135	0	19.36	19.30	19.32	21.0	0.0	
100	QPSK	135	69	19.47	19.54	19.47	21.0	0.0	
100	QPSK	135	138	19.41	19.36	19.37			
100	QPSK	270	0	19.51	19.52	19.37	21.0	0.0	
100	16QAM	1	1	19.33	19.38	19.33	21.0	0.0	
100	64QAM	1	1	19.33	19.41	19.37	21.0	0.0	
100	256QAM	1	1	18.95	18.97	18.90	20.5	0.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.37	19.49	19.39	21.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.43	19.42	19.37	21.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2536	2592.99	2639.98			
60	QPSK	1	1	19.38	19.48	19.45	21.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.38	19.46	19.43	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.40	19.42	19.34	21.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.41	19.44	19.37	21.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.47	19.43	19.42	21.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	19.46	19.53	19.40	21.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.48	19.51	19.40	21.0	0.0	



n48 Ant 2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3680			
40	PI2 BPSK	1	1	18.15	18.16	18.13			
40	PI2 BPSK	1	53	18.14	18.22	18.13	19.5	0.0	
40	PI2 BPSK	1	104	18.13	18.21	18.18			
40	PI2 BPSK	50	0	18.16	18.20	18.17	19.5	0.0	
40	PI2 BPSK	50	28	18.15	18.18	18.14	19.5	0.0	
40	PI2 BPSK	50	56	18.12	18.22	18.19	19.5	0.0	
40	PI2 BPSK	100	0	18.18	18.18	18.15			
40	QPSK	1	1	18.19	18.23	18.22			
40	QPSK	1	53	18.17	18.19	18.11	19.5	0.0	
40	QPSK	1	104	18.16	18.21	18.15			
40	QPSK	50	0	18.22	18.23	18.20	18.5	1.0	
40	QPSK	50	28	18.16	18.24	18.19	19.5	0.0	
40	QPSK	50	56	18.20	18.22	18.20	18.5	1.0	
40	QPSK	100	0	18.20	18.27	18.15			
40	16QAM	1	1	18.22	18.16	18.14	19.5	0.0	
40	64QAM	1	1	16.73	16.73	16.69	18.0	1.5	
40	256QAM	1	1	14.03	14.73	14.68	15.0	3.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.19	18.20	18.13	19.5	0.0	
Channel									
Frequency (MHz)				637.68	641666	646166	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.12	18.17	18.20	19.5	0.0	
Channel									
Frequency (MHz)				637.68	641666	646166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.15	18.19	18.11	19.5	0.0	
Channel									
Frequency (MHz)				6370.00	641666	646332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.17	18.16	18.12	19.5	0.0	

Par270 n77 PC2&3 Ant 2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	17.44	17.55	17.49			
100	PI2 BPSK	1	137	17.43	17.49	17.42	19.0	0.0	
100	PI2 BPSK	1	271	17.46	17.50	17.42			
100	PI2 BPSK	135	0	17.43	17.53	17.49	19.0	0.0	
100	PI2 BPSK	135	69	17.46	17.56	17.52	19.0	0.0	
100	PI2 BPSK	135	138	17.42	17.53	17.43	19.0	0.0	
100	PI2 BPSK	270	0	17.39	17.52	17.43			
100	QPSK	1	1	17.48	17.56	17.46			
100	QPSK	1	137	17.42	17.52	17.48	19.0	0.0	
100	QPSK	1	271	17.45	17.51	17.45			
100	QPSK	135	0	17.45	17.52	17.44	18.0	1.0	
100	QPSK	135	69	17.46	17.55	17.45	19.0	0.0	
100	QPSK	135	138	17.45	17.53	17.46	18.0	1.0	
100	QPSK	270	0	17.41	17.53	17.44			
100	16QAM	1	1	17.49	17.52	17.47	19.0	0.0	
100	64QAM	1	1	17.44	17.49	17.47	19.0	0.0	
100	256QAM	1	1	16.51	16.45	16.37	18.0	1.0	
Channel									
Frequency (MHz)				646668	650000	653332	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	123	17.42	17.54	17.38	19.0	0.0	
Channel									
Frequency (MHz)				646334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	17.40	17.52	17.37	19.0	0.0	
Channel									
Frequency (MHz)				646668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	17.29	17.50	17.44	19.0	0.0	
Channel									
Frequency (MHz)				646334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	17.37	17.52	17.43	19.0	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	17.44	17.54	17.35	19.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	17.43	17.55	17.44	19.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	17.57	17.54	17.42	19.0	0.0	
Channel									
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	17.47	17.53	17.36	19.0	0.0	

Par270Q n77 PC2&3 Ant 2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		17.69				
100	PI2 BPSK	1	137		17.71		19.0	0.0	
100	PI2 BPSK	1	271		17.73				
100	PI2 BPSK	135	0		17.67		19.0	0.0	
100	PI2 BPSK	135	69		17.67		19.0	0.0	
100	PI2 BPSK	135	138		17.68		19.0	0.0	
100	PI2 BPSK	270	0		17.65				
100	QPSK	1	1		17.74				
100	QPSK	1	137		17.71		19.0	0.0	
100	QPSK	1	271		17.63				
100	QPSK	135	0		17.65		18.0	1.0	
100	QPSK	135	69		17.73		19.0	0.0	
100	QPSK	135	138		17.63		18.0	1.0	
100	QPSK	270	0		17.72				
100	16QAM	1	1		17.71		19.0	0.0	
100	64QAM	1	1		17.72		18.0	1.0	
100	256QAM	1	1		16.73		18.0	1.0	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	123	17.51	17.54	17.39	19.0	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	17.56	17.58	17.41	19.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	17.49	17.53	17.43	19.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	17.52	17.55	17.42	19.0	0.0	
Channel									
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	17.54	17.54	17.46	19.0	0.0	
Channel									
Frequency (MHz)				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	17.54	17.51	17.44	19.0	0.0	
Channel									
Frequency (MHz)				630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	17.53	17.57	17.47	19.0	0.0	
Channel									
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	17.56	17.52	17.47	19.0	0.0	



Part270 n78 Ant 2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	18.00			19.5	0.0	
100	PI2 BPSK	1	271	18.04					
100	PI2 BPSK	135	0	17.83			19.0	0.5	
100	PI2 BPSK	135	69	17.89			19.5	0.0	
100	PI2 BPSK	135	138	17.81			19.0	0.5	
100	PI2 BPSK	270	0	17.65			19.5	0.0	
100	QPSK	1	1	18.12					
100	QPSK	1	137	18.08			19.5	0.0	
100	QPSK	1	271	18.05					
100	QPSK	135	0	17.18			18.5	1.0	
100	QPSK	135	69	18.00			19.5	0.0	
100	QPSK	135	138	17.68			18.5	1.0	
100	QPSK	270	0	17.69			18.5	1.0	
100	16QAM	1	1	17.13			18.5	1.0	
100	64QAM	1	1	15.58			17.0	2.5	
100	256QAM	1	1	13.60			15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	96	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3742.91	3750	3759.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3750.02	3750	3750.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3715.02	3750	3750.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647168	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3710.01	3750	3750.02	Tune-up limit (dBm)	MPR (dB)	

Part270 n78 HPUE Ant 2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	18.68			20.0	0.0	
100	PI2 BPSK	1	271	18.68					
100	PI2 BPSK	135	0	18.66			20.0	0.0	
100	PI2 BPSK	135	69	18.44			20.0	0.0	
100	PI2 BPSK	135	138	18.69			20.0	0.0	
100	PI2 BPSK	270	0	18.67			20.0	0.0	
100	QPSK	1	1	18.69					
100	QPSK	1	137	18.69			20.0	0.0	
100	QPSK	1	271	18.62					
100	QPSK	135	0	18.63			19.0	1.0	
100	QPSK	135	69	18.68			20.0	0.0	
100	QPSK	135	138	18.65			19.0	1.0	
100	QPSK	270	0	18.65			20.0	0.0	
100	16QAM	1	1	18.68			20.0	0.0	
100	64QAM	1	1	18.63			20.0	0.0	
100	256QAM	1	1	18.62			18.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64960	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	96	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3742.91	3750	3759.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3750.02	3750	3750.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3715.02	3750	3750.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647168	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3710.01	3750	3750.02	Tune-up limit (dBm)	MPR (dB)	

Part27Q 78 Ant 2 DSI3									
BW (MHz)	Modulation	RB 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	3000.01					
100	PI2 BPSK	1	137	18.14			19.5	0.0	
100	PI2 BPSK	1	271	18.18					
100	PI2 BPSK	135	0	17.74			19.0	0.5	
100	PI2 BPSK	135	69	18.13			19.5	0.0	
100	PI2 BPSK	135	138	17.69			19.0	0.5	
100	PI2 BPSK	270	0	17.69			19.5	0.0	
100	QPSK	1	1	18.28					
100	QPSK	1	137	18.22			19.5	0.0	
100	QPSK	1	271	18.18					
100	QPSK	135	0	17.21			18.5	1.0	
100	QPSK	135	69	18.22			19.5	0.0	
100	QPSK	135	138	17.27			18.5	1.0	
100	QPSK	270	0	17.27			18.5	1.0	
100	16QAM	1	1	17.22			18.5	1.0	
100	64QAM	1	1	15.72			17.0	2.5	
100	256QAM	1	1	13.70			15.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3465	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	96	632068	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3462.91	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3465	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	631968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3460.02	3500.01	3540.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	631813	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3463.01	3500.01	3540.01	Tune-up limit (dBm)	MPR (dB)	



Part27Q 78 HPUE Ant 2 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					3000.01				
Frequency (MHz)					18.82				
100	PI2 BPSK	1	1		18.82				
100	PI2 BPSK	1	137		18.83		20.0	0.0	
100	PI2 BPSK	1	271		18.80				
100	PI2 BPSK	135	0		18.82		20.0	0.0	
100	PI2 BPSK	135	69		18.80		20.0	0.0	
100	PI2 BPSK	135	138		18.83				
100	PI2 BPSK	270	0		18.77		20.0	0.0	
100	QPSK	1	1		18.85				
100	QPSK	1	137		18.80		20.0	0.0	
100	QPSK	1	271		18.82				
100	QPSK	135	0		18.82		19.0	1.0	
100	QPSK	135	69		18.84		20.0	0.0	
100	QPSK	135	138		18.83		19.0	1.0	
100	QPSK	270	0		18.81				
100	16QAM	1	1		18.76		20.0	0.0	
100	64QAM	1	1		18.74		20.0	0.0	
100	256QAM	1	1		18.7		18.0	2.0	
Channel				633000	633334	633668			
Frequency (MHz)				3485	3000.01	3005.02			
90	QPSK	1	123		18.44	18.61	18.60	20.0	0.0
Channel				632068	633334	634000			
Frequency (MHz)				3480.02	3000.01	3010			
80	QPSK	1	109		18.53	18.59	18.60	20.0	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3000.01	3515.01			
70	QPSK	1	96		18.50	18.61	18.60	20.0	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3000.01	3020.02			
60	QPSK	1	81		18.46	18.56	18.53	20.0	0.0
Channel				631068	633334	635000			
Frequency (MHz)				3475.02	3000.01	3025			
50	QPSK	1	67		18.49	18.57	18.63	20.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3480.01	3000.01	3028.01			
40	QPSK	1	53		18.46	18.63	18.62	20.0	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3485	3000.01	3035.02			
30	QPSK	1	39		18.43	18.55	18.63	20.0	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3480.02	3000.01	3040			
20	QPSK	1	26		18.46	18.61	18.59	20.0	0.0
Channel				630500	633334	636334			
Frequency (MHz)				3475	3000.01	3042.02			
15	QPSK	1	19		18.47	18.60	18.54	20.0	0.0
Channel				630334	633334	636334			
Frequency (MHz)				3480.01	3000.01	3042.01			
10	QPSK	1	12		18.54	18.63	18.57	20.0	0.0



n38 Ant 3 DS13									
BW (MHz)	Modulation	RB 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	23.05	23.71	23.71			
40	PI2 BPSK	1	53	23.05	23.75	23.72	24.5	0.0	
40	PI2 BPSK	1	104	23.84	23.88	23.82			
40	PI2 BPSK	50	0	23.16	23.28	23.28	24.0	0.5	
40	PI2 BPSK	50	28	23.87	23.72	23.89	24.5	0.0	
40	PI2 BPSK	50	56	23.20	23.27	23.20	24.0	0.5	
40	PI2 BPSK	100	0	23.18	23.32	23.31			
40	QPSK	1	1	23.71	23.79	23.76			
40	QPSK	1	53	23.87	23.75	23.73	24.5	0.0	
40	QPSK	1	104	23.88	23.88	23.88			
40	QPSK	50	0	22.89	22.84	22.71	23.5	1.0	
40	QPSK	50	28	23.82	23.72	23.89	24.5	0.0	
40	QPSK	50	56	22.70	22.74	22.80	23.5	1.0	
40	QPSK	100	0	22.73	22.88	22.75			
40	16QAM	1	1	22.74	22.76	22.76	23.5	1.0	
40	64QAM	1	1	21.28	21.33	21.20	22.0	2.5	
40	256QAM	1	1	19.22	19.30	19.27	22.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.05	25.05	25.05	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.84	23.87	23.84	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.68	23.67	23.70	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.58	23.74	23.73	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.85	23.74	23.65	24.5	0.0	

n41 Ant 3 DS13									
BW (MHz)	Modulation	RB 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	23.82	23.79			
100	PI2 BPSK	1	137	23.76	23.76	23.80	24.5	0.0	
100	PI2 BPSK	1	271	23.75	23.80	23.87			
100	PI2 BPSK	135	0	23.24	23.39	23.31	24.0	0.5	
100	PI2 BPSK	135	69	23.76	23.82	23.70	24.5	0.0	
100	PI2 BPSK	135	138	23.23	23.34	23.26	24.0	0.5	
100	PI2 BPSK	270	0	23.19	23.36	23.42			
100	QPSK	1	1	23.72	23.86	23.79			
100	QPSK	1	137	23.71	23.83	23.80	24.5	0.0	
100	QPSK	1	271	23.71	23.71	23.70			
100	QPSK	135	0	22.74	22.89	22.71	23.5	1.0	
100	QPSK	135	69	23.88	23.83	23.76	24.5	0.0	
100	QPSK	135	138	22.74	22.82	22.87	23.5	1.0	
100	QPSK	270	0	22.78	22.98	22.82			
100	16QAM	1	1	22.82	22.80	22.87	23.5	1.0	
100	64QAM	1	1	21.32	21.41	21.21	22.0	2.5	
100	256QAM	1	1	19.28	19.34	19.31	22.0	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	123	23.81	23.79	23.85	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	23.59	23.76	23.89	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	23.83	23.73	23.71	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	23.67	23.80	23.87	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	23.58	23.74	23.74	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	23.68	23.75	23.73	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	23.67	23.81	23.75	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	23.61	23.74	23.73	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	23.61	23.73	23.74	24.5	0.0	

n48 Ant 3 DS13									
BW (MHz)	Modulation	RB 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	20.41	20.42	20.43			
40	PI2 BPSK	1	53	20.44	20.47	20.46	22.0	0.0	
40	PI2 BPSK	1	104	20.35	20.48	20.39			
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5	0.5	
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0	0.0	
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5	0.5	
40	PI2 BPSK	100	0	19.98	20.04	20.07			
40	QPSK	1	1	20.48	20.55	20.52			
40	QPSK	1	53	20.40	20.44	20.48	22.0	0.0	
40	QPSK	1	104	20.45	20.51	20.47			
40	QPSK	50	0	19.97	20.07	19.97	21.0	1.0	
40	QPSK	50	28	20.40	20.50	20.46	22.0	0.0	
40	QPSK	50	56	19.98	20.08	20.05	21.0	1.0	
40	QPSK	100	0	19.93	20.03	19.96			
40	16QAM	1	1	19.95	20.06	20.02	21.0	1.0	
40	64QAM	1	1	17.98	18.10	18.05	19.5	2.5	
40	256QAM	1	1	15.98	16.31	16.00	17.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.36	20.51	20.48	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.41	20.48	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.40	20.47	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.41	20.48	20.39	22.0	0.0	



Par270 n77 Ant 3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.42	18.47	18.41			
100	PI2 BPSK	1	137	18.44	18.53	18.48	20.0	0.0	
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PI2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.56	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.58	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	64QAM	1	1	18.02	18.10	18.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUE Ant 3 DSI3									
BW (MHz)	Modulation	RB 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	21.43	21.46	21.43			
100	PI2 BPSK	1	137	21.40	21.54	21.49	23.0	0.0	
100	PI2 BPSK	1	271	21.50	21.54	21.45			
100	PI2 BPSK	135	0	21.05	21.10	20.99	22.5	0.5	
100	PI2 BPSK	135	69	21.46	21.54	21.41	23.0	0.0	
100	PI2 BPSK	135	138	21.06	21.16	20.96	22.5	0.5	
100	PI2 BPSK	270	0	21.07	21.07	21.11			
100	QPSK	1	1	21.56	21.62	21.56			
100	QPSK	1	137	21.39	21.48	21.47	23.0	0.0	
100	QPSK	1	271	21.47	21.41	21.45			
100	QPSK	135	0	20.48	20.55	20.46	22.0	1.0	
100	QPSK	135	69	21.38	21.58	21.50	23.0	0.0	
100	QPSK	135	138	20.38	20.59	20.49	22.0	1.0	
100	QPSK	270	0	20.57	20.59	20.52			
100	16QAM	1	1	20.52	20.57	20.49	22.0	1.0	
100	64QAM	1	1	19.06	19.08	19.01	20.5	2.5	
100	256QAM	1	1	17.04	17.02	17.02	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.45	21.52	21.47	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.43	21.56	21.50	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.45	21.48	21.44	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.45	21.49	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.43	21.59	21.48	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.48	21.55	21.47	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.52	21.47	21.43	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.49	21.50	21.48	23.0	0.0	

Part27Q n77 Ant 3 DSI3									
BW (MHz)	Modulation	RB 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			3000.01			
100	PI2 BPSK	1	137			18.82			
100	PI2 BPSK	1	137			18.82	20.0	0.0	
100	PI2 BPSK	1	271			18.80			
100	PI2 BPSK	135	0			18.42			
100	PI2 BPSK	135	69			18.78			
100	PI2 BPSK	135	138			18.44			
100	PI2 BPSK	270	0			18.31			
100	QPSK	1	1			18.89			
100	QPSK	1	137			18.85			
100	QPSK	1	271			18.77			
100	QPSK	135	0			17.80			
100	QPSK	135	69			18.87			
100	QPSK	135	138			17.81			
100	QPSK	270	0			17.87			
100	16QAM	1	1			17.80			
100	64QAM	1	1			18.42			
100	256QAM	1	1			14.40			
Channel									
Frequency (MHz)									
90	QPSK	1	123			3000.01	3000.02		
Channel									
Frequency (MHz)									
80	QPSK	1	109			18.71	18.80	18.74	
Channel									
Frequency (MHz)									
60	QPSK	1	81			18.22	18.29	18.09	
Channel									
Frequency (MHz)									
50	QPSK	1	67			18.76	18.81	18.74	
Channel									
Frequency (MHz)									
40	QPSK	1	53			18.77	18.80	18.73	
Channel									
Frequency (MHz)									
20	QPSK	1	26			18.74	18.79	18.69	
Channel									
Frequency (MHz)									
15	QPSK	1	19			18.70	18.82	18.68	
Channel									
Frequency (MHz)									
10	QPSK	1	12			18.70	18.83	18.71	



Part27Q n77 HPUE Ant 3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		21.86				
100	PI2 BPSK	1	271		21.86				
100	PI2 BPSK	136	0		21.39		23.0	0.0	
100	PI2 BPSK	136	69		21.82				
100	PI2 BPSK	136	138		21.47				
100	PI2 BPSK	270	0		21.32		22.5	0.5	
100	QPSK	1	1		21.84				
100	QPSK	1	137		21.86				
100	QPSK	1	271		21.77				
100	QPSK	136	0		20.84		22.0	1.0	
100	QPSK	136	69		21.81		23.0	0.0	
100	QPSK	136	138		20.93		22.0	1.0	
100	QPSK	270	0		21.01		22.0	1.0	
100	16QAM	1	1		20.92		20.5	2.5	
100	64QAM	1	1		19.43		18.5	4.5	
100	256QAM	1	1		17.43		15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	Tune-up limit	MPR	
				3495	3500.01	3505.02	(dBm)	(dB)	
				21.75	21.79	21.83	23.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	109	630668	633334	634668	Tune-up limit	MPR	
				3495.02	3500.01	3510	(dBm)	(dB)	
				21.78	21.85	21.86	23.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	81	632000	633334	634668	Tune-up limit	MPR	
				3476.62	3500.01	3525	(dBm)	(dB)	
				21.78	21.86	21.73	23.0	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	53	630000	633334	634668	Tune-up limit	MPR	
				3457.5	3500.01	3525.52	(dBm)	(dB)	
				21.78	21.79	21.83	23.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	26	630000	633334	634668	Tune-up limit	MPR	
				3457.52	3500.01	3545.01	(dBm)	(dB)	
				21.72	21.79	21.83	23.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	19	630334	633334	635334	Tune-up limit	MPR	
				3458.01	3500.01	3545.01	(dBm)	(dB)	
				21.76	21.82	21.88	23.0	0.0	0.0

Part27O n78 Ant 3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750	3750		
100	PI2 BPSK	1	137		18.57				
100	PI2 BPSK	1	271		18.55				
100	PI2 BPSK	136	0		18.58				
100	PI2 BPSK	136	69		18.09		19.5	0.5	
100	PI2 BPSK	136	138		18.59		20.0	0.0	
100	PI2 BPSK	270	0		18.22		18.5	0.5	
100	QPSK	1	1		18.17				
100	QPSK	1	137		18.05				
100	QPSK	1	271		18.59				
100	QPSK	136	0		17.57		18.0	1.0	
100	QPSK	136	69		18.60		20.0	0.0	
100	QPSK	136	138		17.80		19.0	1.0	
100	QPSK	270	0		17.66		17.5	2.5	
100	16QAM	1	1		17.58		17.5	2.5	
100	64QAM	1	1		16.15		14.4		
100	256QAM	1	1		14.14		13.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650334	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dBm)	(dB)	
				18.53	18.59	18.43	20.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	109	640334	650000	650668	Tune-up limit	MPR	
				3749.01	3750	3760.02	(dBm)	(dB)	
				18.47	18.55	18.43	20.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	81	640000	650000	651000	Tune-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
				18.50	18.59	18.43	20.0	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	95	640668	650000	651334	Tune-up limit	MPR	
				3730.62	3750	3770.01	(dBm)	(dB)	
				18.46	18.52	18.50	20.0	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	67	640334	650000	651668	Tune-up limit	MPR	
				3725.01	3750	3775.02	(dBm)	(dB)	
				18.46	18.57	18.39	20.0	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	67	640000	650000	652000	Tune-up limit	MPR	
				3720	3750	3760	(dBm)	(dB)	
				18.48	18.63	18.47	20.0	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	53	640668	650000	652334	Tune-up limit	MPR	
				3716.02	3750	3765.01	(dBm)	(dB)	
				18.35	18.54	18.42	20.0	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	39	640334	650000	652668	Tune-up limit	MPR	
				3710.01	3750	3760.02	(dBm)	(dB)	
				18.48	18.63	18.42	20.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	26	640000	650000	652834	Tune-up limit	MPR	
				3707.52	3750	3762.51	(dBm)	(dB)	
				18.50	18.58	18.49	20.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	19	640334	650000	653000	Tune-up limit	MPR	
				3705	3750	3760	(dBm)	(dB)	
				18.50	18.55	18.46	20.0	0.0	0.0

Part27O n78 HPUE Ant 3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750	3750	3750		
100	PI2 BPSK	1	137		21.62				
100	PI2 BPSK	1	271		21.53				
100	PI2 BPSK	136	0		21.62				
100	PI2 BPSK	136	69		21.06		22.5	0.5	
100	PI2 BPSK	136	138		21.57		23.0	0.0	
100	PI2 BPSK	270	0		21.27		22.5	0.5	
100	QPSK	1	1		21.84				
100	QPSK	1	137		21.81				
100	QPSK	1	271		21.82				
100	QPSK	136	0		20.66		22.0	1.0	
100	QPSK	136	69		21.61		23.0	0.0	
100	QPSK	136	138		20.98		22.0	1.0	
100	QPSK	270	0		20.70		20.5	2.5	
100	16QAM	1	1		20.52		20.5	2.5	
100	64QAM	1	1		19.14		18.5	4.5	
100	256QAM	1	1		17.20		16.8	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650334	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dBm)	(dB)	
				21.55	21.55	21.43	23.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	109	640334	650000	650668	Tune-up limit	MPR	
				3749.01	3750	3760.02	(dBm)	(dB)	
				21.55	21.53	21.39	23.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	81	640000	650000	651000	Tune-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
				21.52	21.52	21.44	23.0	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	95	640668	650000	651334	Tune-up limit	MPR	
				3730.62	3750	3770.01	(dBm)	(dB)	
				21.56	21.60	21.49	23.0	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	67	640334	650000	651668	Tune-up limit	MPR	
				3725.01	3750	3775.02	(dBm)	(dB)	
				21.50	21.57	21.38	23.0	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	67	640000	650000	652000	Tune-up limit	MPR	
				3720	3750	3760	(dBm)	(dB)	
				21.52	21.54	21.46	23.0	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	53	640668	650000	652334	Tune-up limit	MPR	
				3716.02	3750	3765.01	(dBm)	(dB)	
				21.57	21.57	21.40	23.0	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	39	640334	650000	652668	Tune-up limit	MPR	
				3710.01	3750	3760.02	(dBm)	(dB)	
				21.47	21.54	21.42	23.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	26	640000	650000	652834	Tune-up limit	MPR	
				3707.52	3750	3762.51	(dBm)	(dB)	
				21.47	21.59	21.44	23.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	19	640334	650000	653000	Tune-up limit	MPR	
				3705	3750	3760	(dBm)	(dB)	
				21.47	21.63	21.45	23.0	0.0	0.0



Part27Q 78 Ant 3 DSI3									
BW (MHz)	Modulation	RB 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	18.90	18.90	18.90	20.0	0.0	
100	PI2 BPSK	1	137	18.96	18.96	18.96	20.0	0.0	
100	PI2 BPSK	1	271	18.98	18.98	18.98	20.0	0.0	
100	PI2 BPSK	135	0	18.60	18.60	18.60	19.5	0.5	
100	PI2 BPSK	135	69	18.69	18.69	18.69	20.0	0.0	
100	PI2 BPSK	135	138	18.55	18.55	18.55	19.5	0.5	
100	PI2 BPSK	270	0	18.37	18.37	18.37	20.0	0.0	
100	QPSK	1	1	19.06	19.06	19.06	20.0	0.0	
100	QPSK	1	137	18.95	18.95	18.95	20.0	0.0	
100	QPSK	1	271	18.87	18.87	18.87	20.0	0.0	
100	QPSK	135	0	17.88	17.88	17.88	19.0	1.0	
100	QPSK	135	69	18.04	18.04	18.04	20.0	0.0	
100	QPSK	135	138	18.04	18.04	18.04	19.0	1.0	
100	QPSK	270	0	18.10	18.10	18.10	20.0	0.0	
100	16QAM	1	1	18.07	18.07	18.07	19.0	1.0	
100	64QAM	1	1	18.58	18.58	18.58	17.5	2.5	
100	256QAM	1	1	14.37	14.37	14.37	16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.88	18.96	18.84	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.85	18.93	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	18.86	18.84	18.82	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.88	18.86	18.77	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.95	18.95	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.87	18.84	18.83	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	18.95	18.89	18.85	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.94	18.90	18.76	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.89	18.89	18.79	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.85	18.85	18.82	20.0	0.0	

Part27Q 78 HPUE Ant 3 DSI3									
BW (MHz)	Modulation	RB 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	21.61	21.61	21.61	23.0	0.0	
100	PI2 BPSK	1	137	21.97	21.97	21.97	23.0	0.0	
100	PI2 BPSK	1	271	22.04	22.04	22.04	23.0	0.0	
100	PI2 BPSK	135	0	21.65	21.65	21.65	22.5	0.5	
100	PI2 BPSK	135	69	21.88	21.88	21.88	23.0	0.0	
100	PI2 BPSK	135	138	21.50	21.50	21.50	22.5	0.5	
100	PI2 BPSK	270	0	21.40	21.40	21.40	23.0	0.0	
100	QPSK	1	1	22.07	22.07	22.07	23.0	0.0	
100	QPSK	1	137	21.90	21.90	21.90	23.0	0.0	
100	QPSK	1	271	21.83	21.83	21.83	23.0	0.0	
100	QPSK	135	0	20.98	20.98	20.98	22.0	1.0	
100	QPSK	135	69	22.05	22.05	22.05	23.0	0.0	
100	QPSK	135	138	20.98	20.98	20.98	22.0	1.0	
100	QPSK	270	0	21.10	21.10	21.10	23.0	0.0	
100	16QAM	1	1	21.04	21.04	21.04	20.5	2.5	
100	64QAM	1	1	18.61	18.61	18.61	16.5	4.5	
100	256QAM	1	1	17.62	17.62	17.62	16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.94	21.99	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.89	21.95	21.90	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	21.91	21.93	21.80	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.86	21.96	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.88	21.99	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.92	21.96	21.87	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.89	21.93	21.89	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.86	21.96	21.82	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.86	21.93	21.85	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.89	21.92	21.89	23.0	0.0	

n38 Ant 4 DSI3								
BW [MHz]	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	PI/2 BPSK	1	1	21.98	22.00	21.97		
40	PI/2 BPSK	1	53	21.89	21.99	21.89	23.5	0.0
40	PI/2 BPSK	1	104	21.91	21.97	21.94		
40	PI/2 BPSK	50	0	21.56	21.53	21.50	23.0	0.5
40	PI/2 BPSK	50	28	21.98	22.01	21.91	23.5	0.0
40	PI/2 BPSK	50	56	21.45	21.55	21.54		
40	PI/2 BPSK	100	0	21.45	21.52	21.56	23.0	0.5
40	QPSK	1	1	22.01	22.07	22.02		
40	QPSK	1	53	21.98	22.04	21.96	23.5	0.0
40	QPSK	1	104	21.92	22.03	21.97		
40	QPSK	50	0	21.03	21.11	21.05	22.5	1.0
40	QPSK	50	28	21.96	21.98	21.89	23.5	0.0
40	QPSK	50	56	20.98	21.10	21.07		
40	QPSK	100	0	20.98	21.09	21.05	22.5	1.0
40	16QAM	1	1	21.05	21.06	20.97	22.5	1.0
40	64QAM	1	1	19.54	19.60	19.46	21.0	2.5
40	256QAM	1	1	17.50	17.57	17.54	19.0	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.95	21.95	21.91	23.5	0.0
Channel				516504	519000	521496		
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	21.90	21.97	21.93	23.5	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	21.92	21.96	22.00	23.5	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.92	21.96	21.97	23.5	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.97	22.05	21.91	23.5	0.0

n41 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.09	23.09	23.04		
100	PI/2 BPSK	1	137	23.01	23.07	23.05	25.0	0.0
100	PI/2 BPSK	1	271	23.06	23.07	23.06		
100	PI/2 BPSK	135	0	22.64	22.58	22.57	24.5	0.5
100	PI/2 BPSK	135	69	23.02	23.07	23.04	25.0	0.0
100	PI/2 BPSK	135	138	22.56	22.64	22.65		
100	PI/2 BPSK	270	0	22.52	22.57	22.66	24.5	0.5
100	QPSK	1	1	23.05	23.18	23.06		
100	QPSK	1	137	23.05	23.12	23.04	25.0	0.0
100	QPSK	1	271	23.01	23.14	23.10		
100	QPSK	135	0	22.09	22.19	22.15	24.0	1.0
100	QPSK	135	69	23.01	23.04	23.02	25.0	0.0
100	QPSK	135	138	22.06	22.17	22.13		
100	QPSK	270	0	22.11	22.18	22.15	24.0	1.0
100	16QAM	1	1	22.13	22.17	22.15	24.0	1.0
100	64QAM	1	1	20.65	20.72	20.59	22.5	2.5
100	256QAM	1	1	18.63	18.63	18.58	20.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.02	23.08	22.97	25.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.94	23.14	22.98	25.0	0.0
Channel				506200	518598	531996		
Frequency (MHz)				2536	2592.99	2659.98		
60	QPSK	1	1	22.92	23.13	22.99	25.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.97	23.08	22.97	25.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.99	23.09	22.95	25.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.02	23.12	22.99	25.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.97	23.13	22.95	25.0	0.0
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.98	23.07	23.00	25.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.98	23.14	23.00	25.0	0.0



n48 Ant 5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3680			
40	PI2 BPSK	1	1	24.45	24.46	24.46			
40	PI2 BPSK	1	53	24.45	24.49	24.44	26.0	0.0	
40	PI2 BPSK	1	104	24.37	24.53	24.45			
40	PI2 BPSK	50	0	23.99	24.03	24.01	25.5	0.5	
40	PI2 BPSK	50	28	24.40	24.52	24.46	26.0	0.0	
40	PI2 BPSK	50	56	24.03	24.02	24.05	25.5	0.5	
40	PI2 BPSK	100	0	24.05	24.06	24.02			
40	QPSK	1	1	24.50	24.57	24.52			
40	QPSK	1	53	24.41	24.52	24.46	26.0	0.0	
40	QPSK	1	104	24.45	24.46	24.40			
40	QPSK	50	0	23.49	23.63	23.46	26.0	1.0	
40	QPSK	50	28	24.44	24.51	24.44	26.0	0.0	
40	QPSK	50	56	23.54	23.51	23.47	25.0	1.0	
40	QPSK	100	0	23.51	23.57	23.47			
40	16QAM	1	1	23.55	23.52	23.56	25.0	1.0	
40	64QAM	1	1	22.02	22.10	21.98	23.5	2.5	
40	256QAM	1	1	19.98	20.03	20.08	21.5	4.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	24.39	24.54	24.44	26.0	0.0	
Channel									
Frequency (MHz)				637.334	641666	646166			
20	QPSK	1	1	24.43	24.49	24.43	26.0	0.0	
Channel									
Frequency (MHz)				637.168	641666	646166			
15	QPSK	1	1	24.42	24.45	24.41	23.0	0.0	
Channel									
Frequency (MHz)				6370.00	641666	646332			
10	QPSK	1	1	24.44	24.48	24.46	26.0	0.0	

Par270 n77 Ant 5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	22.91	23.01	22.96			
100	PI2 BPSK	1	137	23.00	23.02	22.97	24.5	0.0	
100	PI2 BPSK	1	271	22.98	23.01	23.01			
100	PI2 BPSK	135	0	22.59	22.67	22.61	24.0	0.5	
100	PI2 BPSK	135	69	23.01	23.03	22.96	24.5	0.0	
100	PI2 BPSK	135	138	22.50	22.65	22.56	24.0	0.5	
100	PI2 BPSK	270	0	22.58	22.66	22.55			
100	QPSK	1	1	23.05	23.11	23.08			
100	QPSK	1	137	22.95	23.03	23.03	24.5	0.0	
100	QPSK	1	271	22.98	23.08	23.03			
100	QPSK	135	0	22.09	22.11	22.08	23.5	1.0	
100	QPSK	135	69	22.96	23.05	22.98	24.5	0.0	
100	QPSK	135	138	22.09	22.08	22.06	23.5	1.0	
100	QPSK	270	0	22.03	22.06	22.06			
100	16QAM	1	1	22.08	22.07	22.08	23.5	1.0	
100	64QAM	1	1	20.52	20.67	20.80	22.0	2.5	
100	256QAM	1	1	18.54	18.59	18.53	23.0	4.5	
Channel									
Frequency (MHz)				3745.02	3840	3935.01			
80	QPSK	1	123	23.00	23.05	23.04	24.5	0.0	
Channel									
Frequency (MHz)				646334	650000	652666			
80	QPSK	1	109	22.98	22.98	22.95	24.5	0.0	
Channel									
Frequency (MHz)				646666	650000	653334			
80	QPSK	1	81	22.95	22.98	23.01	24.5	0.0	
Channel									
Frequency (MHz)				646334	650000	653666			
50	QPSK	1	67	23.02	23.09	23.00	24.5	0.0	
Channel									
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	23.01	23.04	22.94	24.5	0.0	
Channel									
Frequency (MHz)				647334	650000	654666			
20	QPSK	1	26	22.95	23.03	23.00	24.5	0.0	
Channel									
Frequency (MHz)				647168	650000	654834			
15	QPSK	1	19	23.02	23.06	22.96	24.5	0.0	
Channel									
Frequency (MHz)				647000	650000	655000			
10	QPSK	1	12	22.98	23.09	22.96	24.5	0.0	

Par270 n77 HPUE Ant 5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	25.89	26.07	25.84			
100	PI2 BPSK	1	137	26.04	26.07	25.94	27.5	0.0	
100	PI2 BPSK	1	271	25.94	25.98	26.00			
100	PI2 BPSK	135	0	25.55	25.73	25.58	27.0	0.5	
100	PI2 BPSK	135	69	26.06	26.05	25.95	27.5	0.0	
100	PI2 BPSK	135	138	25.50	25.63	25.50	27.0	0.5	
100	PI2 BPSK	270	0	25.52	25.71	25.56			
100	QPSK	1	1	26.10	26.14	26.11			
100	QPSK	1	137	26.00	26.00	26.06	27.5	0.0	
100	QPSK	1	271	26.02	26.03	26.05			
100	QPSK	135	0	25.07	25.12	25.12	26.5	1.0	
100	QPSK	135	69	26.01	26.09	26.02	27.5	0.0	
100	QPSK	135	138	25.06	25.08	25.10	26.5	1.0	
100	QPSK	270	0	25.02	25.12	25.06			
100	16QAM	1	1	25.08	25.11	25.08	25.0	1.0	
100	64QAM	1	1	23.48	23.71	23.66	23.0	2.5	
100	256QAM	1	1	21.60	21.81	21.47	23.0	4.5	
Channel									
Frequency (MHz)				646666	650000	653334			
80	QPSK	1	123	26.05	26.05	25.99	27.5	0.0	
Channel									
Frequency (MHz)				646334	650000	652666			
80	QPSK	1	109	26.03	26.06	25.99	27.5	0.0	
Channel									
Frequency (MHz)				646666	650000	653334			
80	QPSK	1	81	25.98	26.07	26.08	27.5	0.0	
Channel									
Frequency (MHz)				646334	650000	653666			
50	QPSK	1	67	25.97	26.04	26.06	27.5	0.0	
Channel									
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	53	25.99	26.09	26.01	27.5	0.0	
Channel									
Frequency (MHz)				647334	650000	654666			
20	QPSK	1	26	25.99	26.06	26.02	27.5	0.0	
Channel									
Frequency (MHz)				647168	650000	654834			
15	QPSK	1	19	25.97	26.08	26.04	27.5	0.0	
Channel									
Frequency (MHz)				647000	650000	655000			
10	QPSK	1	12	25.95	26.06	26.04	27.5	0.0	



Part27Q n77 Ant 5 DSI3									
BW (MHz)	Modulation	RB 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	22.99	3500.01				
100	PI2 BPSK	1	137	22.95			24.5	0.0	
100	PI2 BPSK	1	271	23.01					
100	PI2 BPSK	135	0	22.86			24.0	0.5	
100	PI2 BPSK	135	69	23.03					24.5
100	PI2 BPSK	135	138	22.60			24.0	0.5	
100	PI2 BPSK	270	0	22.86					
100	QPSK	1	1	23.07					
100	QPSK	1	137	23.06			24.5	0.0	
100	QPSK	1	271	23.03					
100	QPSK	135	0	22.03			23.5	1.0	
100	QPSK	135	69	23.05			24.5	0.0	
100	QPSK	135	138	22.02			23.5	1.0	
100	QPSK	270	0	22.09					
100	16QAM	1	1	21.99			23.5	1.0	
100	16QAM	1	1	20.70			22.0	2.5	
100	25QAM	1	1	18.61			20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	22.91	3333.34	633668	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
Channel									
Frequency (MHz)									
80	QPSK	1	109	22.99	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.97	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.93	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.92	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.95	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
15	QPSK	1	19	23.03	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.98	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			

Part27Q n77 HPUE Ant 5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.93	3500.01				
100	PI2 BPSK	1	137	25.96			27.5	0.0	
100	PI2 BPSK	1	271	25.97					
100	PI2 BPSK	135	0	25.82			27.0	0.5	
100	PI2 BPSK	135	69	26.01			27.5	0.0	
100	PI2 BPSK	135	138	25.60			27.0	0.5	
100	PI2 BPSK	270	0	25.62					
100	QPSK	1	1	26.09					
100	QPSK	1	137	26.05			27.5	0.0	
100	QPSK	1	271	26.08					
100	QPSK	135	0	25.07			26.5	1.0	
100	QPSK	135	69	26.06			27.5	0.0	
100	QPSK	135	138	24.99			26.5	1.0	
100	QPSK	270	0	25.10					
100	16QAM	1	1	25.00			26.5	1.0	
100	16QAM	1	1	23.68			25.0	2.5	
100	25QAM	1	1	21.62			23.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	25.93	3333.34	633668	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
Channel									
Frequency (MHz)									
80	QPSK	1	109	25.98	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
60	QPSK	1	81	25.91	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
50	QPSK	1	67	25.92	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
40	QPSK	1	53	25.94	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
20	QPSK	1	26	25.90	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
15	QPSK	1	19	25.90	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			
Channel									
Frequency (MHz)									
10	QPSK	1	12	25.92	3333.34	634068	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3500.01	3525			

Part27Q n78 Ant 5 DSI3									
BW (MHz)	Modulation	RB 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	22.90	3750	3750			
100	PI2 BPSK	1	137	22.91			24.5	0.0	
100	PI2 BPSK	1	271	22.89					
100	PI2 BPSK	135	0	22.89			24.0	0.5	
100	PI2 BPSK	135	69	22.89					24.5
100	PI2 BPSK	135	138	22.50			24.0	0.5	
100	PI2 BPSK	270	0	22.63					
100	QPSK	1	1	23.00					
100	QPSK	1	137	22.98			24.5	0.0	
100	QPSK	1	271	22.98					
100	QPSK	135	0	21.95			23.5	1.0	
100	QPSK	135	69	22.93			24.5	0.0	
100	QPSK	135	138	21.89			23.5	1.0	
100	QPSK	270	0	22.02					
100	16QAM	1	1	21.90			23.5	1.0	
100	16QAM	1	1	20.61			22.0	2.5	
100	25QAM	1	1	18.51			20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	22.81	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
80	QPSK	1	109	22.88	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
70	QPSK	1	95	22.83	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
60	QPSK	1	81	22.77	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
50	QPSK	1	67	22.79	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
40	QPSK	1	53	22.82	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
30	QPSK	1	39	22.84	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
20	QPSK	1	26	22.86	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
15	QPSK	1	19	22.78	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
10	QPSK	1	12	22.78	350000	650000	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			



Part270 n78 HPUE Ant 5 DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3750	3750	3750				
100	PI2 BPSK	1	137	25.87						
100	PI2 BPSK	1	271	25.96			27.5	0.0		
100	PI2 BPSK	1	271	25.93						
100	PI2 BPSK	135	0	25.64			27.0	0.5		
100	PI2 BPSK	135	69	25.84			27.5	0.0		
100	PI2 BPSK	135	138	25.58			27.0	0.5		
100	PI2 BPSK	270	0	25.55						
100	QPSK	1	1	28.08						
100	QPSK	1	137	28.01			27.5	0.0		
100	QPSK	1	271	28.00						
100	QPSK	135	0	25.07			26.5	1.0		
100	QPSK	135	69	25.99			27.5	0.0		
100	QPSK	135	138	24.52			26.5	1.0		
100	QPSK	270	0	25.03						
100	16QAM	1	1	24.97			26.5	1.0		
100	16QAM	1	1	23.61			25.0	2.5		
100	25QAM	1	1	23.67			23.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	64960	65000	65034	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
80	QPSK	1	109	64934	65000	65068	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
70	QPSK	1	96	64968	65000	65134	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
60	QPSK	1	81	64902	65000	65100	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
50	QPSK	1	67	64800	65000	65200	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
40	QPSK	1	53	64768	65000	65234	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
30	QPSK	1	39	64734	65000	65300	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
20	QPSK	1	26	64700	65000	65366	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
15	QPSK	1	19	64670	65000	65400	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
10	QPSK	1	12	64634	65000	65434	Tune-up limit (dBm)	MPR		

Part27Q 78 Ant 5 DSI3										
BW (MHz)	Modulation	RB 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	3000.01						
100	PI2 BPSK	1	137	22.89						
100	PI2 BPSK	1	271	22.91			24.5	0.0		
100	PI2 BPSK	1	271	22.85						
100	PI2 BPSK	135	0	22.52			24.0	0.5		
100	PI2 BPSK	135	69	22.91			24.5	0.0		
100	PI2 BPSK	135	138	22.50			24.0	0.5		
100	PI2 BPSK	270	0	22.60						
100	QPSK	1	1	23.02						
100	QPSK	1	137	22.97			24.5	0.0		
100	QPSK	1	271	22.93						
100	QPSK	135	0	21.92			23.5	1.0		
100	QPSK	135	69	22.96			24.5	0.0		
100	QPSK	135	138	21.87			23.5	1.0		
100	QPSK	270	0	21.90						
100	16QAM	1	1	21.87			23.5	1.0		
100	16QAM	1	1	20.60			22.0	2.5		
100	25QAM	1	1	18.40			20.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
80	QPSK	1	109	63276	63334	63400	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
70	QPSK	1	96	63250	63334	63466	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
60	QPSK	1	81	63225	63334	63500	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
50	QPSK	1	67	63200	63334	63566	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
40	QPSK	1	53	63176	63334	63600	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
30	QPSK	1	39	63150	63334	63634	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
20	QPSK	1	26	63126	63334	63668	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
15	QPSK	1	19	63100	63334	63700	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
10	QPSK	1	12	63076	63334	63734	Tune-up limit (dBm)	MPR		

Part27Q 78 HPUE Ant 5 DSI3										
BW (MHz)	Modulation	RB 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	3000.01						
100	PI2 BPSK	1	137	25.83						
100	PI2 BPSK	1	271	25.92			27.5	0.0		
100	PI2 BPSK	1	271	25.87						
100	PI2 BPSK	135	0	25.66			27.0	0.5		
100	PI2 BPSK	135	69	25.81			27.5	0.0		
100	PI2 BPSK	135	138	25.52			27.0	0.5		
100	PI2 BPSK	270	0	25.52						
100	QPSK	1	1	26.05						
100	QPSK	1	137	25.98			27.5	0.0		
100	QPSK	1	271	26.00						
100	QPSK	135	0	25.09			26.5	1.0		
100	QPSK	135	69	25.92			27.5	0.0		
100	QPSK	135	138	24.55			26.5	1.0		
100	QPSK	270	0	25.01						
100	16QAM	1	1	24.98			26.5	1.0		
100	16QAM	1	1	23.65			25.0	2.5		
100	25QAM	1	1	21.64			23.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	63300	63334	63368	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
80	QPSK	1	109	63276	63334	63400	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
70	QPSK	1	96	63250	63334	63466	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
60	QPSK	1	81	63225	63334	63500	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
50	QPSK	1	67	63200	63334	63566	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
40	QPSK	1	53	63176	63334	63600	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
30	QPSK	1	39	63150	63334	63634	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
20	QPSK	1	26	63126	63334	63668	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
15	QPSK	1	19	63100	63334	63700	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
10	QPSK	1	12	63076	63334	63734	Tune-up limit (dBm)	MPR		



n38 Ant 7 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	15.32	15.38	15.31			
40	PI2 BPSK	1	53	15.27	15.36	15.27	17.0	0.0	
40	PI2 BPSK	1	104	15.30	15.33	15.33			
40	PI2 BPSK	50	0	15.33	15.36	15.34	17.0	0.0	
40	PI2 BPSK	50	28	15.30	15.33	15.27	17.0	0.0	
40	PI2 BPSK	50	56	15.27	15.34	15.37	17.0	0.0	
40	PI2 BPSK	100	0	15.27	15.32	15.33			
40	QPSK	1	1	15.35	15.40	15.38			
40	QPSK	1	53	15.35	15.37	15.28	17.0	0.0	
40	QPSK	1	104	15.29	15.30	15.32			
40	QPSK	50	0	15.32	15.35	15.31	17.0	0.0	
40	QPSK	50	28	15.33	15.39	15.34	17.0	0.0	
40	QPSK	50	56	15.33	15.36	15.26	17.0	0.0	
40	QPSK	100	0	15.32	15.38	15.33			
40	16QAM	1	1	15.35	15.37	15.29	17.0	0.0	
40	64QAM	1	1	15.34	15.37	15.35	17.0	0.0	
40	256QAM	1	1	15.36	15.38	15.32	15.5	1.5	
Channel									
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	15.28	15.35	15.28	17.0	0.0	
Channel									
Frequency (MHz)				516004	516000	521496			
25	QPSK	1	1	15.30	15.36	15.29	17.0	0.0	
Channel									
Frequency (MHz)				516000	516000	522000			
20	QPSK	1	1	15.34	15.38	15.27	17.0	0.0	
Channel									
Frequency (MHz)				515502	516000	523488			
15	QPSK	1	1	15.23	15.38	15.36	17.0	0.0	
Channel									
Frequency (MHz)				515005	516000	523995			
10	QPSK	1	1	15.24	15.35	15.35	17.0	0.0	

n41 Ant 7 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2552.99	2640			
100	PI2 BPSK	1	1	15.46	15.51	15.51			
100	PI2 BPSK	1	137	15.43	15.47	15.36	17.0	0.0	
100	PI2 BPSK	1	271	15.41	15.50	15.36			
100	PI2 BPSK	135	0	15.45	15.43	15.29	17.0	0.0	
100	PI2 BPSK	135	69	15.41	15.45	15.37	17.0	0.0	
100	PI2 BPSK	135	138	15.46	15.42	15.30	17.0	0.0	
100	PI2 BPSK	270	0	15.46	15.51	15.30			
100	QPSK	1	1	15.48	15.53	15.39			
100	QPSK	1	197	15.45	15.50	15.38	17.0	0.0	
100	QPSK	1	271	15.48	15.51	15.35			
100	QPSK	135	0	15.46	15.46	15.37	17.0	0.0	
100	QPSK	135	69	15.48	15.51	15.38	17.0	0.0	
100	QPSK	135	138	15.44	15.46	15.37	17.0	0.0	
100	QPSK	270	0	15.47	15.50	15.35			
100	16QAM	1	1	15.40	15.48	15.35	17.0	0.0	
100	64QAM	1	1	15.48	15.51	15.38	17.0	0.0	
100	256QAM	1	1	15.51	15.52	15.32	15.5	1.5	
Channel									
Frequency (MHz)				2641	2592.99	2644.98			
80	QPSK	1	123	15.43	15.52	15.39	17.0	0.0	
Channel									
Frequency (MHz)				507204	516598	525998			
80	QPSK	1	109	15.43	15.50	15.37	17.0	0.0	
Channel									
Frequency (MHz)				505200	516598	531998			
80	QPSK	1	81	15.42	15.51	15.37	17.0	0.0	
Channel									
Frequency (MHz)				504204	516598	532998			
50	QPSK	1	67	15.45	15.52	15.32	17.0	0.0	
Channel									
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	15.40	15.51	15.27	17.0	0.0	
Channel									
Frequency (MHz)				502200	516598	534998			
30	QPSK	1	39	15.38	15.47	15.31	17.0	0.0	
Channel									
Frequency (MHz)				501204	516598	535998			
20	QPSK	1	26	15.43	15.48	15.35	17.0	0.0	
Channel									
Frequency (MHz)				500100	516598	536998			
15	QPSK	1	19	15.43	15.50	15.32	17.0	0.0	
Channel									
Frequency (MHz)				500000	516598	537000			
10	QPSK	1	12	15.38	15.51	15.32	17.0	0.0	

n48 Ant 7 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3670	3624.99	3690			
40	PI2 BPSK	1	1	20.86	20.93	20.87			
40	PI2 BPSK	1	53	20.88	20.94	20.91	22.5	0.0	
40	PI2 BPSK	1	104	20.82	20.88	20.90			
40	PI2 BPSK	50	0	20.80	20.91	20.89	22.5	0.0	
40	PI2 BPSK	50	28	20.85	20.89	20.88	22.5	0.0	
40	PI2 BPSK	50	56	20.82	20.94	20.85	22.5	0.0	
40	PI2 BPSK	100	0	20.91	20.93	20.91			
40	QPSK	1	1	20.92	20.95	20.88			
40	QPSK	1	53	20.86	20.92	20.88	22.5	0.0	
40	QPSK	1	104	20.92	20.93	20.91			
40	QPSK	50	0	20.87	20.93	20.88	22.5	0.0	
40	QPSK	50	28	20.91	20.94	20.90	22.5	0.0	
40	QPSK	50	56	20.91	20.88	20.85	22.5	0.0	
40	QPSK	100	0	20.94	20.93	20.93			
40	16QAM	1	1	20.80	20.92	20.89	22.0	0.5	
40	64QAM	1	1	20.33	20.41	20.44	22.0	0.5	
40	256QAM	1	1	18.41	18.46	18.46	20.0	2.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.98			
30	QPSK	1	1	20.82	20.91	20.78	22.5	0.0	
Channel									
Frequency (MHz)				637334	641666	645000			
20	QPSK	1	1	20.83	20.93	20.79	22.5	0.0	
Channel									
Frequency (MHz)				637168	641666	646166			
15	QPSK	1	1	20.90	20.99	20.85	22.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3695			
10	QPSK	1	1	20.80	20.92	20.78	22.5	0.0	



Par270 n77 Ant 7 DSI3										
BW (MHz)	Modulation	RB 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	20.90	20.98	20.93				
100	PI2 BPSK	1	137	20.91	20.97	21.03	22.5	0.0		
100	PI2 BPSK	1	271	21.00	21.00	21.02				
100	PI2 BPSK	135	0	20.54	20.58	20.60	22.0	0.5		
100	PI2 BPSK	135	69	20.97	20.97	20.94	22.5	0.0		
100	PI2 BPSK	135	138	20.48	20.65	20.57	22.0	0.5		
100	PI2 BPSK	270	0	20.52	20.58	20.62				
100	QPSK	1	1	21.02	21.10	21.06				
100	QPSK	1	137	20.92	21.01	21.01	22.5	0.0		
100	QPSK	1	271	20.98	20.97	20.93				
100	QPSK	135	0	20.05	20.18	20.11	21.5	1.0		
100	QPSK	135	69	20.88	21.07	20.93	22.5	0.0		
100	QPSK	135	138	20.01	20.09	20.05	21.5	1.0		
100	QPSK	270	0	20.07	20.15	20.04				
100	16QAM	1	1	20.01	20.07	20.09	21.5	1.0		
100	16QAM	1	1	18.49	18.64	18.61	20.0	2.5		
100	25QAM	1	1	18.51	18.63	18.64	18.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	109	20.94	20.97	21.01	22.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	20.96	20.99	21.00	22.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	20.82	21.06	21.03	22.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	20.89	21.00	20.96	22.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	21.00	20.97	21.01	22.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	20.91	21.04	21.00	22.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	20.92	21.08	20.96	22.5	0.0		

Par270 n77 HPUE Ant 7 DSI3										
BW (MHz)	Modulation	RB 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	23.88	23.96	23.89				
100	PI2 BPSK	1	137	23.85	23.96	24.03	25.5	0.0		
100	PI2 BPSK	1	271	24.00	24.02	24.04				
100	PI2 BPSK	135	0	23.59	23.61	23.60	25.0	0.5		
100	PI2 BPSK	135	69	23.98	24.03	23.92	25.5	0.0		
100	PI2 BPSK	135	138	23.48	23.70	23.55	25.0	0.5		
100	PI2 BPSK	270	0	23.49	23.58	23.61				
100	QPSK	1	1	24.03	24.12	24.06				
100	QPSK	1	137	23.95	23.95	24.04	25.5	0.0		
100	QPSK	1	271	23.97	23.93	23.93				
100	QPSK	135	0	23.05	23.10	23.05	24.5	1.0		
100	QPSK	135	69	23.84	24.04	23.94	25.5	0.0		
100	QPSK	135	138	23.01	23.08	23.04	24.5	1.0		
100	QPSK	270	0	23.05	23.10	23.04				
100	16QAM	1	1	22.97	23.13	23.12	24.5	1.0		
100	16QAM	1	1	21.46	21.66	21.61	23.0	2.5		
100	25QAM	1	1	19.51	19.52	19.54	21.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	123	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	109	23.96	24.02	23.93	25.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	23.96	23.99	23.92	25.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	24.05	24.02	23.97	25.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	24.03	24.09	23.88	25.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	24.03	24.06	23.96	25.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	24.00	24.04	23.82	25.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	24.02	24.01	23.94	25.5	0.0		

Part27Q n77 Ant 7 DSI3										
BW (MHz)	Modulation	RB 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			3000.01				
100	PI2 BPSK	1	137			2122			22.5	0.0
100	PI2 BPSK	1	271			2116				
100	PI2 BPSK	1	271			2120				
100	PI2 BPSK	135	0			2077			22.0	0.5
100	PI2 BPSK	135	69			2116			22.5	0.0
100	PI2 BPSK	135	138			2087			22.0	0.5
100	PI2 BPSK	270	0			2081				
100	QPSK	1	1			2133				
100	QPSK	1	137			2125			22.5	0.0
100	QPSK	1	271			2113				
100	QPSK	135	0			2041			21.5	1.0
100	QPSK	135	69			2124			22.5	0.0
100	QPSK	135	138			2028			21.5	1.0
100	QPSK	270	0			2041			21.5	1.0
100	16QAM	1	1			2024			20.0	2.5
100	16QAM	1	1			1883			18.0	4.5
100	25QAM	1	1			1879				
Channel										
Frequency (MHz)										
90	QPSK	1	123	3556	3600.01	3605.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	109	21.13	21.21	21.18	22.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	21.18	21.29	21.09	22.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	21.21	21.30	21.10	22.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	21.15	21.24	21.11	22.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	21.17	21.27	21.11	22.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	21.21	21.27	21.09	22.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	21.22	21.22	21.12	22.5	0.0		



Part27Q n77 HPUE Ant 7 DSI3									
BW (MHz)	Modulation	RB 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	3500.01	24.21				
100	PI2 BPSK	1	137	24.19	24.19		25.5	0.0	
100	PI2 BPSK	1	271	24.24					
100	PI2 BPSK	135	0	23.83			25.0	0.5	
100	PI2 BPSK	135	69	24.20			25.5	0.0	
100	PI2 BPSK	135	138	23.85			25.0	0.5	
100	PI2 BPSK	270	0	23.79					
100	QPSK	1	1	24.31					
100	QPSK	1	137	24.20			25.5	0.0	
100	QPSK	1	271	24.14					
100	QPSK	135	0	23.38			24.5	1.0	
100	QPSK	135	69	24.19			25.5	0.0	
100	QPSK	135	138	23.24			24.5	1.0	
100	QPSK	270	0	23.97					
100	16QAM	1	1	23.28			24.5	1.0	
100	64QAM	1	1	21.81			23.0	2.5	
100	256QAM	1	1	19.72			21.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	24.16	24.26	24.13	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	63068	63334	63400	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	24.15	24.19	24.24	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	63000	63334	63468	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	24.22	24.17	24.19	25.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	63768	63334	63500	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	3476.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	24.22	24.20	24.22	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	24.17	24.21	24.19	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	3452.02	3500.01	3546	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	24.23	24.26	24.18	25.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	63000	63334	63688	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	24.21	24.25	24.24	25.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	63534	63334	63534	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	3458.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	24.16	24.20	24.13	25.5	0.0	

Part27O n78 Ant 7 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	20.84			22.5	0.0	
100	PI2 BPSK	1	271	20.92					
100	PI2 BPSK	135	0	20.82			22.0	0.5	
100	PI2 BPSK	135	69	20.84			22.5	0.0	
100	PI2 BPSK	135	138	20.85			22.0	0.5	
100	PI2 BPSK	270	0	20.57					
100	QPSK	1	1	21.03					
100	QPSK	1	137	20.86			22.5	0.0	
100	QPSK	1	271	20.80					
100	QPSK	135	0	20.16			21.5	1.0	
100	QPSK	135	69	20.94			22.5	0.0	
100	QPSK	135	138	19.92			21.5	1.0	
100	QPSK	270	0	20.16					
100	16QAM	1	1	20.00			21.5	1.0	
100	64QAM	1	1	18.49			20.0	2.5	
100	256QAM	1	1	16.46			18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64068	65000	65034	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	20.91	20.85	20.82	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	64034	65000	65068	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	20.88	20.88	20.84	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	64000	65000	65100	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	20.88	20.85	20.89	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	65	64068	65000	65134	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	65	3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	65	20.94	20.93	20.91	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	53	64034	65000	65168	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	53	3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	53	20.90	20.84	20.85	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	41	64000	65000	65200	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	41	3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	41	20.92	20.94	20.90	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	26	64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	26	3715.02	3750	3765.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	26	20.82	20.89	20.89	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	19	64534	65000	65268	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	19	3710.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	19	20.84	20.87	20.89	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	12	64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	12	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	12	20.95	20.93	20.93	22.5	0.0	

Part27O n78 HPUE Ant 7 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	23.91			25.5	0.0	
100	PI2 BPSK	1	271	23.77					
100	PI2 BPSK	1	271	23.84					
100	PI2 BPSK	135	0	23.49			25.0	0.5	
100	PI2 BPSK	135	69	23.73			25.5	0.0	
100	PI2 BPSK	135	138	23.46			25.0	0.5	
100	PI2 BPSK	270	0	23.47					
100	QPSK	1	1	23.97					
100	QPSK	1	137	23.92			25.5	0.0	
100	QPSK	1	271	23.71					
100	QPSK	135	0	23.07			24.5	1.0	
100	QPSK	135	69	23.87			25.5	0.0	
100	QPSK	135	138	22.84			24.5	1.0	
100	QPSK	270	0	23.08					
100	16QAM	1	1	22.99			24.5	1.0	
100	64QAM	1	1	21.45			23.0	2.5	
100	256QAM	1	1	19.46			21.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	64068	65000	65034	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	23.83	23.91	23.85	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	64034	65000	65068	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	23.88	23.91	23.89	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	64000	65000	65100	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	81	23.91	23.93	23.91	25.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	65	64068	65000	65134	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	65	3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	65	23.84	23.93	23.77	25.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	53	64034	65000	65168	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	53	3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	53	23.91	23.93	23.91	25.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	41	64000	65000	65200	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	41	3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
50	QPSK								



Part27Q 78 Ant 7 DSI3									
BW (MHz)	Modulation	RB 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	21.20	21.20	21.20			
100	PI2 BPSK	1	137	21.15	21.15	21.15	22.5	0.0	
100	PI2 BPSK	1	271	21.24	21.24	21.24			
100	PI2 BPSK	135	0	20.78	20.78	20.78	22.0	0.5	
100	PI2 BPSK	135	69	21.18	21.18	21.18	22.5	0.0	
100	PI2 BPSK	135	138	20.84	20.84	20.84	22.0	0.5	
100	PI2 BPSK	270	0	20.89	20.89	20.89			
100	QPSK	1	1	21.35	21.35	21.35			
100	QPSK	1	137	21.30	21.30	21.30	22.5	0.0	
100	QPSK	1	271	21.14	21.14	21.14			
100	QPSK	135	0	20.48	20.48	20.48	21.5	1.0	
100	QPSK	135	69	21.29	21.29	21.29	22.5	0.0	
100	QPSK	135	138	20.20	20.20	20.20	21.5	1.0	
100	QPSK	270	0	20.60	20.60	20.60			
100	16QAM	1	1	20.32	20.32	20.32	21.5	1.0	
100	64QAM	1	1	18.78	18.78	18.78	20.0	2.5	
100	256QAM	1	1	18.70	18.70	18.70	18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	21.16	21.20	21.09	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	21.18	21.19	21.14	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	21.21	21.10	21.07	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	21.18	21.10	21.16	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	21.17	21.12	21.16	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	21.24	21.16	21.11	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	21.24	21.10	21.09	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	21.26	21.12	21.10	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	21.15	21.09	21.14	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	21.26	21.10	21.13	22.5	0.0	

Part27Q 78 HPUE Ant 7 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.19	24.19	24.19			
100	PI2 BPSK	1	137	24.16	24.16	24.16	25.5	0.0	
100	PI2 BPSK	1	271	24.22	24.22	24.22			
100	PI2 BPSK	135	0	23.79	23.79	23.79	25.0	0.5	
100	PI2 BPSK	135	69	24.16	24.16	24.16	25.5	0.0	
100	PI2 BPSK	135	138	23.78	23.78	23.78	25.0	0.5	
100	PI2 BPSK	270	0	23.89	23.89	23.89			
100	QPSK	1	1	24.39	24.39	24.39			
100	QPSK	1	137	24.34	24.34	24.34	25.5	0.0	
100	QPSK	1	271	24.17	24.17	24.17			
100	QPSK	135	0	23.46	23.46	23.46	24.5	1.0	
100	QPSK	135	69	24.25	24.25	24.25	25.5	0.0	
100	QPSK	135	138	23.15	23.15	23.15	24.5	1.0	
100	QPSK	270	0	23.69	23.69	23.69			
100	16QAM	1	1	23.27	23.27	23.27	24.5	1.0	
100	64QAM	1	1	21.71	21.71	21.71	23.0	2.5	
100	256QAM	1	1	19.70	19.70	19.70	21.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	24.15	24.20	24.05	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	24.15	24.17	24.14	25.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	96	24.10	24.15	24.05	25.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	24.18	24.16	24.15	25.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	24.20	24.26	24.14	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	24.16	24.17	24.08	25.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	24.10	24.20	24.05	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	24.21	24.19	24.10	25.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	24.18	24.15	24.12	25.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	24.12	24.20	24.07	25.5	0.0	



n2 Ant 1 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	18.89	19.05	18.97	20.5	0.0	
20	PI2 BPSK	1	53	18.96	19.05	18.98			
20	PI2 BPSK	1	104	18.96	19.01	18.97			
20	PI2 BPSK	50	0	18.94	19.07	19.01	20.5	0.0	
20	PI2 BPSK	50	28	18.92	19.01	18.94	20.5	0.0	
20	PI2 BPSK	50	56	18.97	19.06	18.93			
20	PI2 BPSK	100	0	18.98	19.02	18.91	20.5	0.0	
20	QPSK	1	1	18.98	19.09	18.89			
20	QPSK	1	53	18.87	19.06	18.84	20.5	0.0	
20	QPSK	1	104	18.88	19.02	18.97			
20	QPSK	50	0	18.91	19.06	18.97	20.5	0.0	
20	QPSK	50	28	18.90	19.06	18.95	20.5	0.0	
20	QPSK	50	56	18.97	19.04	18.95			
20	QPSK	100	0	18.94	19.01	18.90	20.5	0.0	
20	16QAM	1	1	18.93	19.07	18.90	20.5	0.0	
20	64QAM	1	1	18.97	19.02	19.01	20.5	0.0	
20	256QAM	1	1	18.90	19.03	18.97	20.0	0.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.91	19.07	18.86	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.96	19.01	18.94	20.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.91	18.97	18.92	20.5	0.0	

Reduced Power Mode for Main PA DSI4									
n5 Ant 1 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.19	23.27	23.16	24.7	0.0	
20	PI2 BPSK	1	53	23.34	23.50	23.36			
20	PI2 BPSK	1	104	23.34	23.44	23.28			
20	PI2 BPSK	50	0	23.48	23.55	23.48	24.7	0.0	
20	PI2 BPSK	50	28	23.36	23.42	23.29	24.7	0.0	
20	PI2 BPSK	50	56	23.50	23.53	23.48			
20	PI2 BPSK	100	0	23.53	23.56	23.48	24.7	0.0	
20	QPSK	1	1	23.52	23.59	23.50			
20	QPSK	1	53	23.38	23.38	23.35	24.7	0.0	
20	QPSK	1	104	23.36	23.33	23.33			
20	QPSK	50	0	23.48	23.55	23.54	24.7	0.0	
20	QPSK	50	28	23.44	23.52	23.54	24.7	0.0	
20	QPSK	50	56	23.06	23.11	23.09			
20	QPSK	100	0	23.55	23.58	23.52	24.7	0.0	
20	16QAM	1	1	23.10	23.22	23.18	24.7	0.0	
20	64QAM	1	1	21.70	21.81	21.77	23.2	1.5	
20	256QAM	1	1	20.31	20.42	20.36	21.2	3.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.51	23.54	23.40	24.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.47	23.53	23.45	24.7	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.44	23.53	23.42	24.7	0.0	

n7 Ant 1 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	19.02	18.98	18.98	20.5	0.0	
50	PI2 BPSK	1	135	18.98	19.01	19.00			
50	PI2 BPSK	1	268	19.00	19.03	19.02			
50	PI2 BPSK	135	0	19.04	19.04	19.00	20.5	0.0	
50	PI2 BPSK	135	68	19.01	18.98	18.98	20.5	0.0	
50	PI2 BPSK	135	135	18.98	19.05	18.98			
50	PI2 BPSK	270	0	18.99	19.02	18.99	20.5	0.0	
50	QPSK	1	1	18.94	19.02	18.91			
50	QPSK	1	135	18.98	19.04	18.90	20.5	0.0	
50	QPSK	1	268	19.05	19.06	18.99			
50	QPSK	135	0	19.01	19.00	18.92	20.5	0.0	
50	QPSK	135	68	19.01	18.99	18.95	20.5	0.0	
50	QPSK	135	135	19.02	19.03	18.97			
50	QPSK	270	0	18.95	19.00	18.90	20.5	0.0	
50	16QAM	1	1	18.95	18.98	18.98	20.5	0.0	
50	64QAM	1	1	18.97	18.99	18.98	20.5	0.0	
50	256QAM	1	1	18.04	18.03	18.00	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.04	19.05	18.79	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.04	19.04	18.87	20.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.94	19.03	18.87	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.93	18.96	18.78	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.98	18.94	18.80	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.04	18.95	18.88	20.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.98	19.01	18.87	20.5	0.0	

n66 Ant 1 DSI 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.11	19.12	19.09	21.0	0.0
40	PI2 BPSK	1	108	19.19	19.11	19.04		
40	PI2 BPSK	1	214	19.10	19.19	19.03		
40	PI2 BPSK	108	0	19.11	19.18	19.04	21.0	0.0
40	PI2 BPSK	108	54	19.18	19.20	19.08	21.0	0.0
40	PI2 BPSK	108	108	19.11	19.12	19.11		
40	PI2 BPSK	216	0	19.13	19.11	19.10	21.0	0.0
40	QPSK	1	1	19.20	19.24	19.29		
40	QPSK	1	108	19.21	19.22	19.23	21.0	0.0
40	QPSK	1	214	19.25	19.29	19.23		
40	QPSK	108	0	19.28	19.23	19.20	21.0	0.0
40	QPSK	108	54	19.21	19.27	19.15	21.0	0.0
40	QPSK	108	108	19.16	19.26	19.26	21.0	0.0
40	QPSK	216	0	19.21	19.23	19.15		
40	16QAM	1	1	19.11	19.10	19.11	21.0	0.0
40	64QAM	1	1	19.17	19.13	19.13	21.0	0.0
40	256QAM	1	1	19.16	19.18	19.07	21.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.17	19.23	19.20	21.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720.5	1745	1767.5		
25	QPSK	1	1	19.25	19.24	19.23	21.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.28	19.28	19.15	21.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.19	19.24	19.21	21.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.24	19.21	19.18	21.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.23	19.22	19.26	21.0	0.0

n7 Ant 3 DSI 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	20.69	20.74	20.68		
50	PI/2 BPSK	1	135	20.75	20.75	20.70	21.5	0.0
50	PI/2 BPSK	1	268	20.72	20.82	20.67		
50	PI/2 BPSK	135	0	20.70	20.74	20.68	21.5	0.0
50	PI/2 BPSK	135	68	20.71	20.82	20.67	21.5	0.0
50	PI/2 BPSK	135	135	20.78	20.72	20.67	21.5	0.0
50	PI/2 BPSK	270	0	20.76	20.79	20.65		
50	QPSK	1	1	20.68	20.80	20.71		
50	QPSK	1	135	20.76	20.78	20.60	21.5	0.0
50	QPSK	1	268	20.80	20.85	20.74		
50	QPSK	135	0	20.71	20.78	20.68	21.5	0.0
50	QPSK	135	68	20.70	20.82	20.71	21.5	0.0
50	QPSK	135	135	20.77	20.80	20.68	21.5	0.0
50	QPSK	270	0	20.75	20.79	20.64		
50	16QAM	1	1	20.72	20.72	20.70	21.5	0.0
50	64QAM	1	1	20.71	20.75	20.69	21.5	0.0
50	256QAM	1	1	19.24	19.31	19.22	20.0	1.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	20.75	20.76	20.60	21.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.75	20.76	20.66	21.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.73	20.83	20.69	21.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	20.77	20.79	20.68	21.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.77	20.79	20.63	21.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.69	20.82	20.72	21.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.77	20.80	20.71	21.5	0.0

n2 Ant 4 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	16.99	17.05	18.91			
20	PI2 BPSK	1	53	16.91	17.05	18.84	18.5	0.0	
20	PI2 BPSK	1	104	16.93	16.99	18.92			
20	PI2 BPSK	50	0	16.94	17.05	18.85	18.5	0.0	
20	PI2 BPSK	50	28	16.95	17.08	18.87	18.5	0.0	
20	PI2 BPSK	50	58	16.87	17.05	18.89	18.5	0.0	
20	PI2 BPSK	100	0	16.90	17.00	18.95			
20	QPSK	1	1	16.99	17.10	18.86			
20	QPSK	1	53	16.93	17.09	18.87	18.5	0.0	
20	QPSK	1	104	16.90	17.01	18.89			
20	QPSK	50	0	16.91	17.03	18.90	18.5	0.0	
20	QPSK	50	28	16.88	17.06	18.87	18.5	0.0	
20	QPSK	50	58	16.97	16.99	18.85			
20	QPSK	100	0	16.92	17.04	18.85	18.5	0.0	
20	16QAM	1	1	16.91	17.00	16.91	18.5	0.0	
20	16QAM	1	1	16.99	17.01	18.86	18.5	0.0	
20	256QAM	1	1	16.97	16.99	18.85	18.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	16.91	16.99	16.91	18.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905			
10	QPSK	1	1	16.89	17.03	18.85	18.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	16.91	17.00	16.92	18.5	0.0	

n5 Ant 4 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167200	167600			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.46	23.53	23.48			
20	PI2 BPSK	1	53	23.44	23.58	23.44	24.7	0.0	
20	PI2 BPSK	1	104	23.51	23.57	23.42			
20	PI2 BPSK	50	0	23.46	23.55	23.43	24.7	0.0	
20	PI2 BPSK	50	28	23.46	23.49	23.44	24.7	0.0	
20	PI2 BPSK	50	58	23.48	23.51	23.40	24.7	0.0	
20	PI2 BPSK	100	0	23.48	23.52	23.38			
20	QPSK	1	1	23.57	23.61	23.51			
20	QPSK	1	53	23.48	23.51	23.39	24.7	0.0	
20	QPSK	1	104	23.43	23.54	23.41			
20	QPSK	50	0	23.51	23.53	23.39	24.7	0.0	
20	QPSK	50	28	23.44	23.58	23.46	24.7	0.0	
20	QPSK	50	58	23.55	23.56	23.48	24.7	0.0	
20	QPSK	100	0	23.54	23.54	23.46			
20	16QAM	1	1	23.50	23.51	23.39	24.7	0.0	
20	16QAM	1	1	22.04	22.06	21.97	23.2	1.5	
20	256QAM	1	1	20.06	20.13	20.05	21.2	3.5	
Channel				166300	167000	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.46	23.55	23.41	24.7	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.52	23.57	23.42	24.7	0.0	
Channel				166300	167000	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.47	23.56	23.40	24.7	0.0	

n7 Ant 4 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509200	509500	509800			
Frequency (MHz)				2595	2595	2645			
50	PI2 BPSK	1	1	17.48	17.47	17.46			
50	PI2 BPSK	1	135	17.51	17.51	17.43	19.0	0.0	
50	PI2 BPSK	1	268	17.53	17.52	17.49			
50	PI2 BPSK	135	0	17.48	17.52	17.50	19.0	0.0	
50	PI2 BPSK	135	68	17.49	17.54	17.47	19.0	0.0	
50	PI2 BPSK	135	135	17.46	17.54	17.50	19.0	0.0	
50	PI2 BPSK	270	0	17.47	17.53	17.48			
50	QPSK	1	1	17.42	17.52	17.46			
50	QPSK	1	135	17.49	17.53	17.48	19.0	0.0	
50	QPSK	1	268	17.51	17.58	17.50			
50	QPSK	135	0	17.49	17.48	17.44	19.0	0.0	
50	QPSK	135	68	17.50	17.51	17.48	19.0	0.0	
50	QPSK	135	135	17.48	17.50	17.44	19.0	0.0	
50	QPSK	270	0	17.47	17.54	17.43			
50	16QAM	1	1	17.43	17.52	17.47	19.0	0.0	
50	16QAM	1	1	17.46	17.50	17.43	19.0	0.0	
50	256QAM	1	1	17.52	17.47	17.45	19.0	0.0	
Channel				509000	509000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2650			
40	QPSK	1	1	17.49	17.57	17.47	19.0	0.0	
Channel				509000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595	2595	2655			
30	QPSK	1	1	17.49	17.54	17.39	19.0	0.0	
Channel				509200	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.5	2595	2657.5			
25	QPSK	1	1	17.40	17.57	17.45	19.0	0.0	
Channel				509200	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2660			
20	QPSK	1	1	17.49	17.51	17.38	19.0	0.0	
Channel				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2597.5	2595	2662.5			
15	QPSK	1	1	17.42	17.55	17.41	19.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595	2595	2665			
10	QPSK	1	1	17.48	17.54	17.44	19.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.5	2595	2667.5			
5	QPSK	1	1	17.49	17.57	17.39	19.0	0.0	

n38 Ant 1 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.38	19.39	19.29			
40	PI/2 BPSK	1	53	19.38	19.34	19.30	21.0	0.0	
40	PI/2 BPSK	1	104	19.31	19.38	19.31			
40	PI/2 BPSK	50	0	19.36	19.34	19.23	21.0	0.0	
40	PI/2 BPSK	50	28	19.39	19.38	19.28	21.0	0.0	
40	PI/2 BPSK	50	56	19.28	19.28	19.24			
40	PI/2 BPSK	100	0	19.29	19.38	19.28	21.0	0.0	
40	QPSK	1	1	19.44	19.49	19.40			
40	QPSK	1	53	19.31	19.46	19.36	21.0	0.0	
40	QPSK	1	104	19.41	19.41	19.29			
40	QPSK	50	0	19.36	19.29	19.23	21.0	0.0	
40	QPSK	50	28	19.37	19.45	19.37	21.0	0.0	
40	QPSK	50	56	19.34	19.30	19.30			
40	QPSK	100	0	19.41	19.42	19.35	21.0	0.0	
40	16QAM	1	1	19.28	19.28	19.31	21.0	0.0	
40	64QAM	1	1	19.29	19.32	19.31	21.0	0.0	
40	256QAM	1	1	18.95	18.92	18.88	20.5	0.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.37	19.45	19.32	21.0	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	19.30	19.41	19.32	21.0	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.34	19.44	19.30	21.0	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.41	19.47	19.35	21.0	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.41	19.39	19.27	21.0	0.0	

n41 Ant 1 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.43	19.49	19.32			
100	PI/2 BPSK	1	137	19.47	19.44	19.37	21.0	0.0	
100	PI/2 BPSK	1	271	19.36	19.46	19.33			
100	PI/2 BPSK	135	0	19.38	19.43	19.26	21.0	0.0	
100	PI/2 BPSK	135	69	19.44	19.38	19.35	21.0	0.0	
100	PI/2 BPSK	135	138	19.38	19.34	19.33			
100	PI/2 BPSK	270	0	19.31	19.46	19.28			
100	QPSK	1	1	19.50	19.55	19.48			
100	QPSK	1	137	19.31	19.50	19.42	21.0	0.0	
100	QPSK	1	271	19.47	19.47	19.33			
100	QPSK	135	0	19.36	19.30	19.32	21.0	0.0	
100	QPSK	135	69	19.47	19.54	19.47	21.0	0.0	
100	QPSK	135	138	19.41	19.36	19.37			
100	QPSK	270	0	19.51	19.52	19.37	21.0	0.0	
100	16QAM	1	1	19.33	19.38	19.33	21.0	0.0	
100	64QAM	1	1	19.33	19.41	19.37	21.0	0.0	
100	256QAM	1	1	18.95	18.97	18.90	20.5	0.5	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.37	19.49	19.39	21.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.43	19.42	19.37	21.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2536	2592.99	2639.98			
60	QPSK	1	1	19.38	19.48	19.45	21.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.38	19.46	19.43	21.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.40	19.42	19.34	21.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.41	19.44	19.37	21.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.47	19.43	19.42	21.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	19.48	19.53	19.40	21.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.48	19.51	19.40	21.0	0.0	

n48 Ant 2 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.15	18.16	18.13			
40	PI2 BPSK	1	53	18.14	18.22	18.13	19.5	0.0	
40	PI2 BPSK	1	104	18.13	18.21	18.18			
40	PI2 BPSK	50	0	18.16	18.20	18.17	19.5	0.0	
40	PI2 BPSK	50	28	18.15	18.18	18.14	19.5	0.0	
40	PI2 BPSK	50	58	18.12	18.22	18.19	19.5	0.0	
40	PI2 BPSK	100	0	18.18	18.18	18.15			
40	QPSK	1	1	18.19	18.28	18.22			
40	QPSK	1	53	18.17	18.19	18.11	19.5	0.0	
40	QPSK	1	104	18.19	18.21	18.15			
40	QPSK	50	0	18.22	18.23	18.20	18.5	1.0	
40	QPSK	50	28	18.16	18.24	18.19	19.5	0.0	
40	QPSK	50	58	18.20	18.22	18.20	18.5	1.0	
40	QPSK	100	0	18.20	18.27	18.15			
40	16QAM	1	1	18.22	18.16	18.14	19.5	0.0	
40	16QAM	1	1	16.73	16.73	16.69	18.0	1.5	
40	256QAM	1	1	14.63	14.73	14.68	16.0	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.19	18.20	18.13	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.12	18.17	18.20	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.16	18.19	18.11	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.17	18.16	18.12	19.5	0.0	

Par270 n77 PC2&3 Ant 2 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.44	17.55	17.49			
100	PI2 BPSK	1	137	17.43	17.49	17.42	19.0	0.0	
100	PI2 BPSK	1	271	17.46	17.50	17.42			
100	PI2 BPSK	135	0	17.43	17.53	17.49	19.0	0.0	
100	PI2 BPSK	135	69	17.48	17.55	17.52	19.0	0.0	
100	PI2 BPSK	135	138	17.42	17.53	17.43	19.0	0.0	
100	PI2 BPSK	270	0	17.39	17.52	17.43			
100	QPSK	1	1	17.46	17.56	17.46			
100	QPSK	1	137	17.42	17.52	17.48	19.0	0.0	
100	QPSK	1	271	17.45	17.51	17.45			
100	QPSK	135	0	17.45	17.52	17.44	18.0	1.0	
100	QPSK	135	69	17.46	17.55	17.45	19.0	0.0	
100	QPSK	135	138	17.45	17.53	17.48	18.0	1.0	
100	QPSK	270	0	17.41	17.53	17.44			
100	16QAM	1	1	17.49	17.52	17.47	19.0	0.0	
100	16QAM	1	1	17.44	17.49	17.47	19.0	0.0	
100	256QAM	1	1	16.51	16.45	16.37	18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	17.42	17.54	17.38	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.40	17.52	17.27	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	17.38	17.50	17.43	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.37	17.52	17.43	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.44	17.54	17.35	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	17.43	17.55	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.37	17.54	17.42	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	17.47	17.53	17.36	19.0	0.0	

Par270 n77 PC2&3 Ant 2 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		17.71		19.0	0.0	
100	PI2 BPSK	1	271		17.85				
100	PI2 BPSK	135	0		17.87		19.0	0.0	
100	PI2 BPSK	135	69		17.87		19.0	0.0	
100	PI2 BPSK	135	138		17.88		19.0	0.0	
100	PI2 BPSK	270	0		17.85				
100	QPSK	1	1		17.74				
100	QPSK	1	137		17.71		19.0	0.0	
100	QPSK	1	271		17.83				
100	QPSK	135	0		17.65		18.0	1.0	
100	QPSK	135	69		17.73		19.0	0.0	
100	QPSK	135	138		17.83		18.0	1.0	
100	QPSK	270	0		17.72				
100	16QAM	1	1		17.71		19.0	0.0	
100	16QAM	1	1		17.72		19.0	0.0	
100	256QAM	1	1		16.73		18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633900	633834	633868	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3480	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	631834	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	

Par27O n78 PC2&3 Ant 2 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.03				
100	PI2 BPSK	1	137		18.15			0.0	
100	PI2 BPSK	1	271		18.02				
100	PI2 BPSK	135	0		18.08		19.5	0.0	
100	PI2 BPSK	135	69		18.03		19.5	0.0	
100	PI2 BPSK	135	138		18.04		19.5	0.0	
100	PI2 BPSK	270	0		18.07		19.5	0.0	
100	QPSK	1	1		18.18		19.5	0.0	
100	QPSK	1	137		18.10		19.5	0.0	
100	QPSK	1	271		18.03		19.5	0.0	
100	QPSK	135	0		18.02		18.5	1.0	
100	QPSK	135	69		18.17		19.5	0.0	
100	QPSK	135	138		18.01		18.5	1.0	
100	QPSK	270	0		18.03		19.5	0.0	
100	16QAM	1	1		18.09		19.5	0.0	
100	16QAM	1	1		18.06		19.5	0.0	
100	256QAM	1	1		17.15		18.0	1.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123		17.94	17.91	17.82	19.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109		17.92	17.97	17.73	19.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95		17.94	17.92	17.81	19.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81		17.95	17.90	17.81	19.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67		17.88	17.90	17.73	19.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		17.92	17.94	17.85	19.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39		17.87	17.97	17.75	19.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		17.85	17.91	17.73	19.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3792.51			
15	QPSK	1	19		17.88	17.93	17.84	19.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		17.96	17.89	17.81	19.5	0.0

Par27Q n78 PC2&3 Ant 2 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633334	633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		18.07				
100	PI2 BPSK	1	137		18.22			0.0	
100	PI2 BPSK	1	271		18.16				
100	PI2 BPSK	135	0		18.20		19.5	0.0	
100	PI2 BPSK	135	69		18.12		19.5	0.0	
100	PI2 BPSK	135	138		18.13		19.5	0.0	
100	PI2 BPSK	270	0		18.16		19.5	0.0	
100	QPSK	1	1		18.26		19.5	0.0	
100	QPSK	1	137		18.23		19.5	0.0	
100	QPSK	1	271		18.14		19.5	0.0	
100	QPSK	135	0		18.13		18.5	1.0	
100	QPSK	135	69		18.20		19.5	0.0	
100	QPSK	135	138		18.08		18.5	1.0	
100	QPSK	270	0		18.13		19.5	0.0	
100	16QAM	1	1		18.19		19.5	0.0	
100	16QAM	1	1		18.17		19.5	0.0	
100	256QAM	1	1		17.27		18.0	1.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123		18.04	17.97	17.90	19.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109		17.98	17.98	17.91	19.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95		18.01	17.94	17.84	19.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81		18.01	17.96	17.86	19.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67		17.97	17.96	17.92	19.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		17.98	18.01	17.86	19.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39		18.02	17.97	17.93	19.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		18.00	17.95	17.93	19.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.53	3500.01	3542.52			
15	QPSK	1	19		18.02	17.94	17.85	19.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		17.99	18.03	17.91	19.5	0.0



n38 Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.68	20.74	20.84			
40	PI2 BPSK	1	53	20.69	20.68	20.68	21.5	0.0	
40	PI2 BPSK	1	104	20.67	20.68	20.63			
40	PI2 BPSK	50	0	20.62	20.73	20.62	21.5	0.0	
40	PI2 BPSK	50	28	20.66	20.76	20.63	21.5	0.0	
40	PI2 BPSK	50	56	20.70	20.74	20.72	21.5	0.0	
40	PI2 BPSK	100	0	20.59	20.73	20.63			
40	QPSK	1	1	20.72	20.80	20.74			
40	QPSK	1	53	20.65	20.72	20.70	21.5	0.0	
40	QPSK	1	104	20.64	20.69	20.70			
40	QPSK	50	0	20.58	20.70	20.65	21.5	0.0	
40	QPSK	50	28	20.69	20.76	20.61	21.5	0.0	
40	QPSK	50	56	20.65	20.70	20.68	21.5	0.0	
40	QPSK	100	0	20.61	20.73	20.71			
40	16QAM	1	1	20.62	20.66	20.67	21.5	0.0	
40	64QAM	1	1	20.70	20.71	20.69	21.5	0.0	
40	256QAM	1	1	19.17	19.33	19.21	23.0	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.68	20.70	20.71	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.59	20.72	20.68	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.68	20.74	20.81	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.65	20.70	20.65	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.68	20.69	20.70	21.5	0.0	

n41 Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.76	20.74	20.59			
100	PI2 BPSK	1	137	20.81	20.73	20.88	21.5	0.0	
100	PI2 BPSK	1	271	20.77	20.75	20.67			
100	PI2 BPSK	135	0	20.71	20.79	20.84	21.5	0.0	
100	PI2 BPSK	135	69	20.68	20.87	20.65	21.5	0.0	
100	PI2 BPSK	135	138	20.71	20.77	20.74	21.5	0.0	
100	PI2 BPSK	270	0	20.63	20.83	20.69			
100	QPSK	1	1	20.74	20.89	20.81			
100	QPSK	1	197	20.78	20.82	20.75	21.5	0.0	
100	QPSK	1	271	20.66	20.75	20.74			
100	QPSK	135	0	20.58	20.75	20.73	21.5	0.0	
100	QPSK	135	69	20.81	20.82	20.71	21.5	0.0	
100	QPSK	135	138	20.73	20.72	20.71	21.5	0.0	
100	QPSK	270	0	20.64	20.75	20.74			
100	16QAM	1	1	20.68	20.74	20.71	21.5	0.0	
100	64QAM	1	1	20.71	20.79	20.77	21.5	0.0	
100	256QAM	1	1	19.28	19.40	19.28	23.0	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	123	20.78	20.71	20.80	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	20.74	20.77	20.83	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	81	20.68	20.74	20.73	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	20.75	20.78	20.76	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	20.69	20.81	20.71	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	20.75	20.79	20.79	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	20.74	20.76	20.80	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	20.78	20.75	20.77	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	20.74	20.76	20.71	21.5	0.0	

n48 Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.41	20.42	20.43			
40	PI2 BPSK	1	53	20.44	20.47	20.46	22.0	0.0	
40	PI2 BPSK	1	104	20.35	20.48	20.39			
40	PI2 BPSK	50	0	19.93	20.07	20.00	21.5	0.5	
40	PI2 BPSK	50	28	20.46	20.44	20.47	22.0	0.0	
40	PI2 BPSK	50	56	19.97	20.09	20.06	21.5	0.5	
40	PI2 BPSK	100	0	19.98	20.04	20.07			
40	QPSK	1	1	20.48	20.55	20.52			
40	QPSK	1	53	20.40	20.44	20.48	22.0	0.0	
40	QPSK	1	104	20.45	20.51	20.47			
40	QPSK	50	0	19.97	20.07	19.97	22.0	0.0	
40	QPSK	50	28	20.40	20.50	20.46	22.0	0.0	
40	QPSK	50	56	19.98	20.06	20.05	22.0	0.0	
40	QPSK	100	0	19.93	20.05	19.96			
40	16QAM	1	1	19.95	20.06	20.02	21.0	1.0	
40	64QAM	1	1	17.88	18.10	18.05	19.5	2.5	
40	256QAM	1	1	15.98	16.31	16.00	17.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.36	20.51	20.48	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.41	20.48	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.40	20.47	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.41	20.48	20.39	22.0	0.0	



Par270 n77 Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.42	18.47	18.41			
100	PI2 BPSK	1	137	18.44	18.53	18.48	20.0	0.0	
100	PI2 BPSK	1	271	18.47	18.51	18.44			
100	PI2 BPSK	135	0	18.10	18.08	18.00	19.5	0.5	
100	PI2 BPSK	135	69	18.47	18.50	18.42	20.0	0.0	
100	PI2 BPSK	135	138	18.03	18.13	17.97	19.5	0.5	
100	PI2 BPSK	270	0	18.09	18.07	18.06			
100	QPSK	1	1	18.56	18.59	18.52			
100	QPSK	1	137	18.44	18.50	18.47	20.0	0.0	
100	QPSK	1	271	18.42	18.47	18.40			
100	QPSK	135	0	17.54	17.54	17.51	19.0	1.0	
100	QPSK	135	69	18.44	18.57	18.44	20.0	0.0	
100	QPSK	135	138	17.52	17.58	17.54	19.0	1.0	
100	QPSK	270	0	17.57	17.63	17.54			
100	16QAM	1	1	17.57	17.55	17.54	19.0	1.0	
100	16QAM	1	1	18.02	18.10	18.03	17.5	2.5	
100	256QAM	1	1	14.02	14.00	14.00	15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	18.45	18.52	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.47	18.53	18.50	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	18.42	18.44	18.45	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	18.48	18.48	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	18.50	18.51	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	18.45	18.50	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	18.46	18.49	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	18.49	18.47	18.48	20.0	0.0	

Par270 n77 HPUe Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.00	20.06	20.03			
100	PI2 BPSK	1	137	20.04	20.11	20.09	21.5	0.0	
100	PI2 BPSK	1	271	20.11	20.13	20.06			
100	PI2 BPSK	135	0	20.05	20.14	20.09	21.5	0.0	
100	PI2 BPSK	135	69	20.02	20.14	20.05	21.5	0.0	
100	PI2 BPSK	135	138	20.05	20.15	20.03	21.5	0.0	
100	PI2 BPSK	270	0	20.09	20.14	20.04			
100	QPSK	1	1	20.10	20.16	20.10			
100	QPSK	1	137	20.10	20.11	20.09	21.5	0.0	
100	QPSK	1	271	20.06	20.10	20.01			
100	QPSK	135	0	20.09	20.14	20.08	20.5	1.0	
100	QPSK	135	69	20.06	20.07	20.03	21.5	0.0	
100	QPSK	135	138	20.09	20.10	20.06	20.5	1.0	
100	QPSK	270	0	20.06	20.11	20.06			
100	16QAM	1	1	20.10	20.13	20.07	21.5	0.0	
100	16QAM	1	1	19.06	19.08	19.01	20.5	1.0	
100	256QAM	1	1	17.04	17.02	17.02	18.5	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	20.03	20.10	20.05	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	20.09	20.14	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	20.01	20.10	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	20.02	20.13	20.02	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	20.03	20.14	19.98	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	20.03	20.13	20.09	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	20.02	20.11	20.03	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	20.03	20.15	20.00	21.5	0.0	

Part270Q n77 Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1			3000.01			
100	PI2 BPSK	1	137			18.82			
100	PI2 BPSK	1	137			18.82	20.0	0.0	
100	PI2 BPSK	1	271			18.80			
100	PI2 BPSK	135	0			18.42			
100	PI2 BPSK	135	69			18.78			
100	PI2 BPSK	135	138			18.44			
100	PI2 BPSK	270	0			18.31			
100	QPSK	1	1			18.89			
100	QPSK	1	137			18.85			
100	QPSK	1	271			18.77			
100	QPSK	135	0			17.90			
100	QPSK	135	69			18.87			
100	QPSK	135	138			17.81			
100	QPSK	270	0			17.87			
100	16QAM	1	1			17.80			
100	16QAM	1	1			18.42			
100	256QAM	1	1			14.40			
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	3505.02	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	630000	633334	634668	3500.01	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	632000	633334	634668	3500.01	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	631668	633334	635000	3500.01	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	631777	633334	634668	3500.01	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	630900	633334	634668	3500.01	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	634575	635001	634252	3500.01	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	634551	635001	634501	3500.01	0.0	



Part27Q n77 HPUE Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01					
100	PI2 BPSK	1	137	20.42			21.5	0.0	
100	PI2 BPSK	1	271	20.46					
100	PI2 BPSK	1	271	20.46					
100	PI2 BPSK	135	0	20.39			21.5	0.0	
100	PI2 BPSK	135	69	20.41			21.5	0.0	
100	PI2 BPSK	135	138	20.45					
100	PI2 BPSK	270	0	20.40			21.5	0.0	
100	QPSK	1	1	20.52			21.5	0.0	
100	QPSK	1	137	20.50					
100	QPSK	1	271	20.53					
100	QPSK	135	0	20.46			20.5	1.0	
100	QPSK	135	69	20.50			21.5	0.0	
100	QPSK	135	138	20.45			20.5	1.0	
100	QPSK	270	0	20.46			20.5	1.0	
100	16QAM	1	1	20.41			21.5	0.0	
100	64QAM	1	1	19.43			20.5	1.0	
100	256QAM	1	1	17.43			18.5	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	20.25	20.26	20.12	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3460	3500.01	3500.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	20.15	20.22	20.07	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	20.14	20.23	20.10	21.5	0.0	

Part27O n78 Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	18.57			20.0	0.0	
100	PI2 BPSK	1	271	18.55					
100	PI2 BPSK	1	271	18.58					
100	PI2 BPSK	135	0	18.09			19.5	0.5	
100	PI2 BPSK	135	69	18.59			20.0	0.0	
100	PI2 BPSK	135	138	18.22			18.5	0.5	
100	PI2 BPSK	270	0	18.17					
100	QPSK	1	1	18.05			20.0	0.0	
100	QPSK	1	137	18.59					
100	QPSK	1	271	18.56					
100	QPSK	135	0	17.57			18.0	1.0	
100	QPSK	135	69	18.00			20.0	0.0	
100	QPSK	135	138	17.80			19.0	1.0	
100	QPSK	270	0	17.66			18.0	1.0	
100	16QAM	1	1	17.58			19.0	1.0	
100	64QAM	1	1	16.15			17.5	2.5	
100	256QAM	1	1	14.14			15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	18.47	18.55	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	640000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	95	3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	640000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	640000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	640000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	

Part27O n78 HPUE Ant 3 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	20.12			21.5	0.0	
100	PI2 BPSK	1	271	20.13					
100	PI2 BPSK	1	271	20.16					
100	PI2 BPSK	135	0	20.20			21.5	0.0	
100	PI2 BPSK	135	69	20.10			21.5	0.0	
100	PI2 BPSK	135	138	20.23					
100	PI2 BPSK	270	0	20.08			21.5	0.0	
100	QPSK	1	1	20.26					
100	QPSK	1	137	20.16			21.5	0.0	
100	QPSK	1	271	20.20					
100	QPSK	135	0	20.15			21.5	0.0	
100	QPSK	135	69	20.23			21.5	0.0	
100	QPSK	135	138	20.17			21.5	0.0	
100	QPSK	270	0	20.12			20.5	1.0	
100	16QAM	1	1	20.04			20.5	1.0	
100	64QAM	1	1	19.07			20.5	1.0	
100	256QAM	1	1	17.06			18.8	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	640000	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	109	20.13	20.16	20.11	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	640000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	95	3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	640000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	81	3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	640000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	67	3740.01	3750	3750.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	640000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	53	3740.01	3750	3750.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	39	3720.01	3750	3780.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	26	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	19	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	12	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	



Part27Q 78 Ant 3 DSI 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.90	18.90	18.90	20.0	0.0
100	PI2 BPSK	1	137	18.96	18.96	18.96	20.0	0.0
100	PI2 BPSK	1	271	18.98	18.98	18.98	20.0	0.0
100	PI2 BPSK	135	0	18.60	18.60	18.60	19.5	0.5
100	PI2 BPSK	135	69	18.69	18.69	18.69	20.0	0.0
100	PI2 BPSK	135	138	18.55	18.55	18.55	19.5	0.5
100	PI2 BPSK	270	0	18.37	18.37	18.37	20.0	0.0
100	QPSK	1	1	19.06	19.06	19.06	20.0	0.0
100	QPSK	1	137	18.95	18.95	18.95	20.0	0.0
100	QPSK	1	271	18.87	18.87	18.87	20.0	0.0
100	QPSK	135	0	17.88	17.88	17.88	19.0	1.0
100	QPSK	135	69	18.04	18.04	18.04	20.0	0.0
100	QPSK	135	138	18.04	18.04	18.04	19.0	1.0
100	QPSK	270	0	18.10	18.10	18.10	20.0	0.0
100	16QAM	1	1	18.07	18.07	18.07	19.0	1.0
100	64QAM	1	1	18.58	18.58	18.58	17.5	2.5
100	256QAM	1	1	14.37	14.37	14.37	15.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	123	18.88	18.88	18.88	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	18.85	18.85	18.85	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	96	18.86	18.86	18.86	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	18.88	18.88	18.77	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	18.95	18.95	18.85	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	18.87	18.84	18.83	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	18.95	18.89	18.85	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	18.94	18.90	18.76	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	18.89	18.89	18.79	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	18.85	18.85	18.82	20.0	0.0

Part27Q 78 HPUE Ant 3 DSI 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.38	20.38	20.38	21.5	0.0
100	PI2 BPSK	1	137	20.50	20.50	20.50	21.5	0.0
100	PI2 BPSK	1	271	20.34	20.34	20.34	21.5	0.0
100	PI2 BPSK	135	0	20.37	20.37	20.37	21.5	0.0
100	PI2 BPSK	135	69	20.42	20.42	20.42	21.5	0.0
100	PI2 BPSK	135	138	20.43	20.43	20.43	21.5	0.0
100	PI2 BPSK	270	0	20.48	20.48	20.48	21.5	0.0
100	QPSK	1	1	20.56	20.56	20.56	21.5	0.0
100	QPSK	1	137	20.47	20.47	20.47	21.5	0.0
100	QPSK	1	271	20.41	20.41	20.41	21.5	0.0
100	QPSK	135	0	20.44	20.44	20.44	20.5	1.0
100	QPSK	135	69	20.46	20.46	20.46	21.5	0.0
100	QPSK	135	138	20.34	20.34	20.34	20.5	1.0
100	QPSK	270	0	20.35	20.35	20.35	21.5	0.0
100	16QAM	1	1	20.51	20.51	20.51	20.5	1.0
100	64QAM	1	1	18.47	18.47	18.47	20.5	1.0
100	256QAM	1	1	17.42	17.42	17.42	18.5	3.0
Channel								
Frequency (MHz)								
90	QPSK	1	123	20.45	20.43	20.44	21.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	109	20.41	20.45	20.51	21.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	96	20.45	20.39	20.47	21.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	81	20.43	20.45	20.47	21.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	67	20.49	20.44	20.50	21.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	53	20.49	20.44	20.45	21.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	39	20.48	20.46	20.45	21.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	20.48	20.39	20.40	21.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	19	20.48	20.46	20.44	21.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	12	20.45	20.39	20.45	21.5	0.0

n38 Ant 4 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	16.05	16.08	16.04			
40	PI/2 BPSK	1	53	15.96	16.02	16.04	17.5	0.0	
40	PI/2 BPSK	1	104	16.06	16.07	16.05			
40	PI/2 BPSK	50	0	16.01	16.05	16.03	17.5	0.0	
40	PI/2 BPSK	50	28	15.97	16.07	15.98	17.5	0.0	
40	PI/2 BPSK	50	56	16.04	16.06	16.04	17.5	0.0	
40	PI/2 BPSK	100	0	15.98	16.07	15.97			
40	QPSK	1	1	16.01	16.09	16.04			
40	QPSK	1	53	15.98	16.02	16.02	17.5	0.0	
40	QPSK	1	104	15.96	16.06	16.05			
40	QPSK	50	0	15.98	16.07	16.04	17.5	0.0	
40	QPSK	50	28	16.01	16.04	16.02	17.5	0.0	
40	QPSK	50	56	15.99	16.03	16.01			
40	QPSK	100	0	16.05	16.07	16.05	17.5	0.0	
40	16QAM	1	1	16.02	16.05	15.99	17.5	0.0	
40	64QAM	1	1	16.06	16.06	16.04	17.5	0.0	
40	256QAM	1	1	16.04	16.05	16.00	17.5	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	15.92	16.04	15.98	17.5	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	15.92	16.07	15.99	17.5	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.01	16.04	15.98	17.5	0.0	
Channel				515502	519000	522498			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	15.97	16.04	16.03	17.5	0.0	
Channel				515004	519000	522996			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	15.90	16.06	15.95	17.5	0.0	

n41 Ant 4 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI/2 BPSK	1	1	17.01	17.19	17.01			
100	PI/2 BPSK	1	137	17.01	17.17	17.08	19.0	0.0	
100	PI/2 BPSK	1	271	17.06	17.15	17.06			
100	PI/2 BPSK	135	0	17.06	17.14	17.02	19.0	0.0	
100	PI/2 BPSK	135	69	17.08	17.18	17.02	19.0	0.0	
100	PI/2 BPSK	135	138	17.07	17.16	17.10			
100	PI/2 BPSK	270	0	17.02	17.16	17.02	19.0	0.0	
100	QPSK	1	1	17.10	17.22	17.08			
100	QPSK	1	137	17.03	17.19	17.12	19.0	0.0	
100	QPSK	1	271	17.03	17.15	17.03			
100	QPSK	135	0	17.05	17.18	17.07	19.0	0.0	
100	QPSK	135	69	17.08	17.19	17.11	19.0	0.0	
100	QPSK	135	138	17.01	17.13	17.02			
100	QPSK	270	0	17.10	17.20	17.12	19.0	0.0	
100	16QAM	1	1	17.10	17.20	17.07	19.0	0.0	
100	64QAM	1	1	17.10	17.21	17.07	19.0	0.0	
100	256QAM	1	1	17.04	17.15	17.10	19.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.06	17.18	16.98	19.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.04	17.19	17.02	19.0	0.0	
Channel				506200	518598	531996			
Frequency (MHz)				2536	2592.99	2639.98			
60	QPSK	1	1	17.05	17.20	17.04	19.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.03	17.19	17.07	19.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.99	17.16	17.05	19.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.05	17.21	17.06	19.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.02	17.19	16.96	19.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	17.06	17.17	16.97	19.0	0.0	
Channel				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	17.01	17.17	17.00	19.0	0.0	

n48 Ant 5 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3680			
40	PI2 BPSK	1	1	20.90	20.95	21.00			
40	PI2 BPSK	1	53	20.92	21.04	20.98			0.0
40	PI2 BPSK	1	104	20.97	20.94	20.98			
40	PI2 BPSK	50	0	20.96	20.94	20.98	22.5	0.0	
40	PI2 BPSK	50	28	20.90	20.95	21.00	22.5	0.0	
40	PI2 BPSK	50	58	20.88	20.96	20.94	22.5	0.0	
40	PI2 BPSK	100	0	20.88	21.04	20.97			
40	QPSK	1	1	21.02	21.07	21.06			
40	QPSK	1	53	20.97	21.03	21.01	22.5	0.0	
40	QPSK	1	104	20.95	21.04	20.95			
40	QPSK	50	0	20.85	20.91	20.85	22.5	0.0	
40	QPSK	50	28	20.95	21.02	20.98	22.5	0.0	
40	QPSK	50	58	20.93	20.94	20.88	22.5	0.0	
40	QPSK	100	0	20.92	20.95	20.87			
40	16QAM	1	1	20.91	20.95	21.01	22.5	0.0	
40	16QAM	1	1	20.85	20.89	20.84	22.5	0.0	
40	256QAM	1	1	19.92	20.01	19.95	21.5	1.0	
Channel									
Frequency (MHz)				3585.02	3624.99	3684.99	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	20.91	20.99	20.97	22.5	0.0	
Channel									
Frequency (MHz)				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.90	20.95	20.85	22.5	0.0	
Channel									
Frequency (MHz)				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	3557.52	3624.99	3692.49			
Channel									
Frequency (MHz)				20.97	20.95	20.93	22.5	0.0	
Channel									
Frequency (MHz)				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3555	3624.99	3695			

Par270 n77 PC2&3 Ant 5 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
100	PI2 BPSK	1	1	20.59	20.62	20.50			
100	PI2 BPSK	1	137	20.52	20.61	20.53	22.0	0.0	
100	PI2 BPSK	1	271	20.60	20.66	20.53			
100	PI2 BPSK	135	0	20.62	20.64	20.50	22.0	0.0	
100	PI2 BPSK	135	69	20.60	20.65	20.53	22.0	0.0	
100	PI2 BPSK	135	138	20.52	20.63	20.57	22.0	0.0	
100	PI2 BPSK	270	0	20.57	20.64	20.59			
100	QPSK	1	1	20.65	20.69	20.63			
100	QPSK	1	137	20.59	20.61	20.51	22.0	0.0	
100	QPSK	1	271	20.63	20.61	20.51			
100	QPSK	135	0	20.52	20.58	20.57	22.0	0.0	
100	QPSK	135	69	20.54	20.64	20.61	22.0	0.0	
100	QPSK	135	138	20.61	20.60	20.52	22.0	0.0	
100	QPSK	270	0	20.56	20.60	20.52			
100	16QAM	1	1	20.61	20.56	20.50	22.0	0.0	
100	16QAM	1	1	20.57	20.58	20.58	22.0	0.0	
100	256QAM	1	1	20.54	20.55	20.53	22.0	0.0	
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	20.56	20.64	20.49	22.0	0.0	
Channel									
Frequency (MHz)				646934	650000	662668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	20.61	20.62	20.50	22.0	0.0	
Channel									
Frequency (MHz)				646968	650000	663334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	20.53	20.65	20.51	22.0	0.0	
Channel									
Frequency (MHz)				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	20.59	20.64	20.54	22.0	0.0	
Channel									
Frequency (MHz)				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	20.56	20.56	20.56	22.0	0.0	
Channel									
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	20.60	20.59	20.59	22.0	0.0	
Channel									
Frequency (MHz)				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	3702.52	3840	3972.51			
Channel									
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	3705	3840	3975			
Channel									
Frequency (MHz)				20.53	20.58	20.57	22.0	0.0	

Part270Q n77 PC2&3 Ant 5 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	20.58					
100	PI2 BPSK	1	137	20.60			22.0	0.0	
100	PI2 BPSK	1	271	20.61					
100	PI2 BPSK	135	0	20.62			22.0	0.0	
100	PI2 BPSK	135	69	20.64			22.0	0.0	
100	PI2 BPSK	135	138	20.55			22.0	0.0	
100	PI2 BPSK	270	0	20.58					
100	QPSK	1	1	20.66					
100	QPSK	1	137	20.54			22.0	0.0	
100	QPSK	1	271	20.53					
100	QPSK	135	0	20.54			21.0	1.0	
100	QPSK	135	69	20.57			22.0	0.0	
100	QPSK	135	138	20.52			21.0	1.0	
100	QPSK	270	0	20.55					
100	16QAM	1	1	20.53			22.0	0.0	
100	16QAM	1	1	20.53			22.0	0.0	
100	256QAM	1	1	20.53			22.0	0.0	
Channel									
Frequency (MHz)				633900	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	123	20.47	20.54	20.47	22.0	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	20.53	20.54	20.39	22.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	20.58	20.56	20.48	22.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	20.53	20.57	20.40	22.0	0.0	
Channel									
Frequency (MHz)				631334	633334	633334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	20.52	20.58	20.49	22.0	0.0	
Channel									
Frequency (MHz)				630900	633334	633900	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	20.52	20.57	20.44	22.0	0.0	
Channel									
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	19	3452.5	3500.01	3542.52			
Channel									
Frequency (MHz)				630334	633334	633900	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	12	3455.01	3500.01	3545.01			
Channel									
Frequency (MHz)				20.51	20.57	20.49	22.0	0.0	

Part270 n78 PC2&3 Ant 5 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				19.63	19.64	19.65			
100	PI2 BPSK	1	1		19.64		21.0	0.0	
100	PI2 BPSK	1	137		19.58		21.0	0.0	
100	PI2 BPSK	1	271		19.80		21.0	0.0	
100	PI2 BPSK	135	0		19.81		21.0	0.0	
100	PI2 BPSK	135	69		19.81		21.0	0.0	
100	PI2 BPSK	135	138		19.54		21.0	0.0	
100	PI2 BPSK	270	0		19.53		21.0	0.0	
100	QPSK	1	1		19.73		21.0	0.0	
100	QPSK	1	137		19.58		21.0	0.0	
100	QPSK	1	271		19.57		21.0	0.0	
100	QPSK	135	0		19.57		20.0	1.0	
100	QPSK	135	69		19.59		21.0	0.0	
100	QPSK	135	138		19.57		20.0	1.0	
100	QPSK	270	0		19.53		21.0	0.0	
100	16QAM	1	1		19.49		21.0	0.0	
100	64QAM	1	1		19.51		21.0	0.0	
100	256QAM	1	1		19.56		21.0	0.0	
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	123		19.46	19.56	19.42	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	109		19.42	19.50	19.51	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	95		19.44	19.54	19.52	21.0	0.0
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	81		19.45	19.57	19.47	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	67		19.42	19.51	19.47	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	53		19.47	19.59	19.49	21.0	0.0
Channel				647688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	39		19.43	19.55	19.45	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	26		19.52	19.50	19.52	21.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3792.51			
15	QPSK	1	19		19.41	19.59	19.53	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	12		19.46	19.56	19.52	21.0	0.0

Part27Q n78 PC2&3 Ant 5 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				19.61					
100	PI2 BPSK	1	1		19.53		21.0	0.0	
100	PI2 BPSK	1	137		19.51		21.0	0.0	
100	PI2 BPSK	1	271		19.44		21.0	0.0	
100	PI2 BPSK	135	0		19.50		21.0	0.0	
100	PI2 BPSK	135	69		19.58		21.0	0.0	
100	PI2 BPSK	135	138		19.51		21.0	0.0	
100	PI2 BPSK	270	0		19.39		21.0	0.0	
100	QPSK	1	1		19.61		21.0	0.0	
100	QPSK	1	137		19.54		21.0	0.0	
100	QPSK	1	271		19.45		21.0	0.0	
100	QPSK	135	0		19.46		20.0	1.0	
100	QPSK	135	69		19.51		21.0	0.0	
100	QPSK	135	138		19.44		20.0	1.0	
100	QPSK	270	0		19.40		21.0	0.0	
100	16QAM	1	1		19.41		21.0	0.0	
100	64QAM	1	1		19.45		21.0	0.0	
100	256QAM	1	1		19.47		21.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123		19.37	19.53	19.37	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109		19.39	19.49	19.35	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95		19.39	19.45	19.31	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81		19.38	19.48	19.34	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67		19.38	19.50	19.28	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53		19.37	19.43	19.39	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39		19.34	19.52	19.27	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		19.39	19.53	19.38	21.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	19		19.43	19.54	19.32	21.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12		19.33	19.52	19.33	21.0	0.0



n38 Ant 7 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	15.32	15.38	15.31			
40	PI2 BPSK	1	53	15.27	15.36	15.27	17.0	0.0	
40	PI2 BPSK	1	104	15.30	15.33	15.33			
40	PI2 BPSK	50	0	15.33	15.36	15.34	17.0	0.0	
40	PI2 BPSK	50	28	15.30	15.33	15.27	17.0	0.0	
40	PI2 BPSK	50	56	15.27	15.34	15.37	17.0	0.0	
40	PI2 BPSK	100	0	15.27	15.32	15.33			
40	QPSK	1	1	15.35	15.40	15.38			
40	QPSK	1	53	15.35	15.37	15.28	17.0	0.0	
40	QPSK	1	104	15.29	15.30	15.32			
40	QPSK	50	0	15.32	15.35	15.31	17.0	0.0	
40	QPSK	50	28	15.33	15.39	15.34	17.0	0.0	
40	QPSK	50	56	15.33	15.36	15.26	17.0	0.0	
40	QPSK	100	0	15.32	15.38	15.33			
40	16QAM	1	1	15.35	15.37	15.29	17.0	0.0	
40	64QAM	1	1	15.34	15.37	15.35	17.0	0.0	
40	256QAM	1	1	15.36	15.38	15.32	15.5	1.5	
Channel									
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	15.28	15.35	15.28	17.0	0.0	
Channel									
Frequency (MHz)				516004	516000	521496			
25	QPSK	1	1	15.30	15.36	15.29	17.0	0.0	
Channel									
Frequency (MHz)				516000	516000	522000			
20	QPSK	1	1	15.34	15.38	15.27	17.0	0.0	
Channel									
Frequency (MHz)				515502	516000	523488			
15	QPSK	1	1	15.23	15.38	15.36	17.0	0.0	
Channel									
Frequency (MHz)				515005	516000	523995			
10	QPSK	1	1	15.24	15.35	15.35	17.0	0.0	

n41 Ant 7 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2552.99	2640			
100	PI2 BPSK	1	1	15.46	15.51	15.51			
100	PI2 BPSK	1	137	15.43	15.47	15.36	17.0	0.0	
100	PI2 BPSK	1	271	15.41	15.50	15.36			
100	PI2 BPSK	135	0	15.45	15.43	15.29	17.0	0.0	
100	PI2 BPSK	135	69	15.41	15.45	15.37	17.0	0.0	
100	PI2 BPSK	135	138	15.46	15.42	15.30	17.0	0.0	
100	PI2 BPSK	270	0	15.46	15.51	15.30			
100	QPSK	1	1	15.48	15.53	15.39			
100	QPSK	1	197	15.45	15.50	15.38	17.0	0.0	
100	QPSK	1	271	15.48	15.51	15.35			
100	QPSK	135	0	15.46	15.46	15.37	17.0	0.0	
100	QPSK	135	69	15.48	15.51	15.38	17.0	0.0	
100	QPSK	135	138	15.44	15.46	15.37	17.0	0.0	
100	QPSK	270	0	15.47	15.50	15.35			
100	16QAM	1	1	15.40	15.48	15.35	17.0	0.0	
100	64QAM	1	1	15.48	15.51	15.38	17.0	0.0	
100	256QAM	1	1	15.51	15.52	15.32	15.5	1.5	
Channel									
Frequency (MHz)				2641	2592.99	2644.98			
80	QPSK	1	123	15.43	15.52	15.39	17.0	0.0	
Channel									
Frequency (MHz)				507204	516598	525998			
80	QPSK	1	109	15.43	15.50	15.37	17.0	0.0	
Channel									
Frequency (MHz)				505200	516598	531996			
80	QPSK	1	81	15.42	15.51	15.37	17.0	0.0	
Channel									
Frequency (MHz)				504204	516598	532998			
50	QPSK	1	67	15.45	15.52	15.32	17.0	0.0	
Channel									
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	53	15.40	15.51	15.27	17.0	0.0	
Channel									
Frequency (MHz)				502200	516598	534996			
30	QPSK	1	39	15.38	15.47	15.31	17.0	0.0	
Channel									
Frequency (MHz)				501204	516598	535998			
20	QPSK	1	26	15.43	15.48	15.35	17.0	0.0	
Channel									
Frequency (MHz)				500100	516598	536996			
15	QPSK	1	19	15.43	15.50	15.32	17.0	0.0	
Channel									
Frequency (MHz)				500200	516598	537000			
10	QPSK	1	12	15.38	15.51	15.32	17.0	0.0	

n48 Ant 7 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3570	3624.99	3690			
40	PI2 BPSK	1	1	20.86	20.93	20.87			
40	PI2 BPSK	1	53	20.88	20.94	20.91	22.5	0.0	
40	PI2 BPSK	1	104	20.82	20.88	20.90			
40	PI2 BPSK	50	0	20.80	20.91	20.89	22.5	0.0	
40	PI2 BPSK	50	28	20.85	20.89	20.88	22.5	0.0	
40	PI2 BPSK	50	56	20.82	20.94	20.85	22.5	0.0	
40	PI2 BPSK	100	0	20.91	20.93	20.91			
40	QPSK	1	1	20.92	20.95	20.88			
40	QPSK	1	53	20.86	20.92	20.88	22.5	0.0	
40	QPSK	1	104	20.92	20.93	20.91			
40	QPSK	50	0	20.87	20.93	20.88	22.5	0.0	
40	QPSK	50	28	20.91	20.94	20.90	22.5	0.0	
40	QPSK	50	56	20.91	20.88	20.85	22.5	0.0	
40	QPSK	100	0	20.94	20.93	20.93			
40	16QAM	1	1	20.80	20.92	20.89	22.0	0.5	
40	64QAM	1	1	20.33	20.41	20.44	22.0	0.5	
40	256QAM	1	1	18.41	18.46	18.46	20.0	2.5	
Channel									
Frequency (MHz)				3565.02	3624.99	3684.98			
30	QPSK	1	1	20.82	20.91	20.78	22.5	0.0	
Channel									
Frequency (MHz)				637334	641666	645000			
20	QPSK	1	1	20.83	20.93	20.79	22.5	0.0	
Channel									
Frequency (MHz)				637168	641666	646166			
15	QPSK	1	1	20.90	20.99	20.85	22.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3695			
10	QPSK	1	1	20.80	20.92	20.78	22.5	0.0	



Par270 n77 PC2&3 Ant 7 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.06	17.10	17.02			
100	PI2 BPSK	1	137	17.00	17.13	17.09	18.5	0.0	
100	PI2 BPSK	1	271	17.05	17.18	17.05			
100	PI2 BPSK	135	0	17.01	17.16	17.05	18.5	0.0	
100	PI2 BPSK	135	69	16.99	17.13	17.03	18.5	0.0	
100	PI2 BPSK	135	138	17.07	17.14	17.02	18.5	0.0	
100	PI2 BPSK	270	0	17.00	17.07	17.10			
100	QPSK	1	1	17.08	17.18	17.10			
100	QPSK	1	137	16.96	17.14	17.05	18.5	0.0	
100	QPSK	1	271	16.99	17.07	17.11			
100	QPSK	135	0	17.06	17.10	17.01	18.5	0.0	
100	QPSK	135	69	17.08	17.12	17.06	18.5	0.0	
100	QPSK	135	138	17.06	17.08	17.04	18.5	0.0	
100	QPSK	270	0	17.05	17.15	17.07			
100	16QAM	1	1	16.99	17.08	17.07	18.5	0.0	
100	16QAM	1	1	17.03	17.07	17.02	18.5	0.0	
100	256QAM	1	1	17.02	17.10	17.03	18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	17.01	17.11	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.06	17.18	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	17.00	17.13	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.06	17.10	17.06	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.05	17.16	17.03	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	16.99	17.14	17.09	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.02	17.00	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	16.97	17.17	17.09	18.5	0.0	

Part27Q n77 PC2&3 Ant 7 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.32					
100	PI2 BPSK	1	137	17.31			18.5	0.0	
100	PI2 BPSK	1	271	17.33					
100	PI2 BPSK	135	0	17.29			18.5	0.0	
100	PI2 BPSK	135	69	17.30			18.5	0.0	
100	PI2 BPSK	135	138	17.32			18.5	0.0	
100	PI2 BPSK	270	0	17.34					
100	QPSK	1	1	17.36					
100	QPSK	1	137	17.35			18.5	0.0	
100	QPSK	1	271	17.34					
100	QPSK	135	0	17.30			18.5	0.0	
100	QPSK	135	69	17.30			18.5	0.0	
100	QPSK	135	138	17.28			18.5	0.0	
100	QPSK	270	0	17.32					
100	16QAM	1	1	17.34			18.5	0.0	
100	16QAM	1	1	17.35			18.5	0.0	
100	256QAM	1	1	17.32			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	17.08	17.26	16.97	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.02	17.28	16.95	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	17.05	17.22	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.06	17.24	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.00	17.23	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	16.99	17.23	17.03	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.01	17.22	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	17.10	17.25	16.98	18.5	0.0	

Part270 n78 PC2&3 Ant 7 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.01					
100	PI2 BPSK	1	137	18.00			19.5	0.0	
100	PI2 BPSK	1	271	18.02					
100	PI2 BPSK	135	0	17.91			19.5	0.0	
100	PI2 BPSK	135	69	17.97			19.5	0.0	
100	PI2 BPSK	135	138	18.01			19.5	0.0	
100	PI2 BPSK	270	0	17.91					
100	QPSK	1	1	18.03					
100	QPSK	1	137	17.93			19.5	0.0	
100	QPSK	1	271	17.93					
100	QPSK	135	0	17.92			19.5	0.0	
100	QPSK	135	69	17.98			19.5	0.0	
100	QPSK	135	138	17.97			19.5	0.0	
100	QPSK	270	0	18.00					
100	16QAM	1	1	17.99			19.5	0.0	
100	16QAM	1	1	17.92			19.5	0.0	
100	256QAM	1	1	17.97			19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	123	17.66	17.89	17.83	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	109	17.79	17.85	17.75	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	95	17.80	17.89	17.79	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	81	17.75	17.83	17.84	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	67	17.77	17.84	17.78	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	53	17.82	17.84	17.80	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	39	17.81	17.87	17.81	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	26	17.82	17.91	17.75	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	19	17.83	17.89	17.79	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	12	17.83	17.92	17.83	19.5	0.0	



Part27Q 78 PC2&3 Ant 7 DSI 4									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.38	3000.01				
100	PI2 BPSK	1	137	18.39			19.5	0.0	
100	PI2 BPSK	1	271	18.41					
100	PI2 BPSK	135	0	18.40			19.5	0.0	
100	PI2 BPSK	135	69	18.38					
100	PI2 BPSK	135	138	18.35			19.5	0.0	
100	PI2 BPSK	270	0	18.34					
100	QPSK	1	1	18.42					
100	QPSK	1	137	18.41			19.5	0.0	
100	QPSK	1	271	18.37					
100	QPSK	135	0	18.34			19.5	0.0	
100	QPSK	135	69	18.40					
100	QPSK	135	138	18.37			19.5	0.0	
100	QPSK	270	0	18.35					
100	16QAM	1	1	18.38					
100	16QAM	1	1	18.38			19.5	0.0	
100	25QAM	1	1	18.37			19.5	0.0	
Channel									
Frequency (MHz)									
				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3485	3000.01	3005.02			
90	QPSK	1	123	18.06	18.18	17.96	19.5	0.0	
Channel									
Frequency (MHz)									
				632068	633334	634600	Tune-up limit (dBm)	MPR (dB)	
				3480.02	3000.01	3010			
80	QPSK	1	109	18.04	18.17	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3000.01	3191.01			
70	QPSK	1	96	18.14	18.30	18.07	19.5	0.0	
Channel									
Frequency (MHz)									
				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
				3480	3000.01	3005.02			
60	QPSK	1	81	18.11	18.21	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3000.01	3025			
50	QPSK	1	67	18.13	18.20	18.04	19.5	0.0	
Channel									
Frequency (MHz)									
				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
				3480.01	3000.01	3030.01			
40	QPSK	1	53	18.07	18.13	18.02	19.5	0.0	
Channel									
Frequency (MHz)									
				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
				3485	3000.01	3035.02			
30	QPSK	1	39	18.11	18.17	17.99	19.5	0.0	
Channel									
Frequency (MHz)									
				630668	633334	635900	Tune-up limit (dBm)	MPR (dB)	
				3480.02	3000.01	3040			
20	QPSK	1	26	18.13	18.10	17.96	19.5	0.0	
Channel									
Frequency (MHz)									
				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
				3475.01	3000.01	3042.02			
15	QPSK	1	19	18.07	18.17	17.95	19.5	0.0	
Channel									
Frequency (MHz)									
				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3000.01	3043.01			
10	QPSK	1	12	18.15	18.15	17.96	19.5	0.0	



Par270 n77 PC2&3 Ant 5 DSI 4 for ENDC										
BW (MHz)	Modulation	RB 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	19.44	19.46	19.31				
100	PI2 BPSK	1	137	19.32	19.42	19.32	21.0	0.0		
100	PI2 BPSK	1	271	19.37	19.45	19.31				
100	PI2 BPSK	135	0	19.40	19.46	19.35	21.0	0.0		
100	PI2 BPSK	135	69	19.40	19.46	19.30	21.0	0.0		
100	PI2 BPSK	135	138	19.28	19.37	19.38				
100	PI2 BPSK	270	0	19.37	19.43	19.38	21.0	0.0		
100	QPSK	1	1	19.44	19.47	19.45				
100	QPSK	1	137	19.40	19.44	19.31	21.0	0.0		
100	QPSK	1	271	19.41	19.43	19.29				
100	QPSK	135	0	19.34	19.33	19.40	21.0	0.0		
100	QPSK	135	69	19.40	19.43	19.41	21.0	0.0		
100	QPSK	135	138	19.36	19.36	19.37				
100	QPSK	270	0	19.40	19.42	19.36	21.0	0.0		
100	16QAM	1	1	19.35	19.38	19.34	21.0	0.0		
100	64QAM	1	1	19.38	19.43	19.40	21.0	0.0		
100	256QAM	1	1	19.28	19.35	19.27	21.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	19.37	19.42	19.38	21.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	109	19.46	19.42	19.40	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	19.36	19.46	19.43	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	19.40	19.43	19.46	21.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	19.36	19.44	19.43	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	19.35	19.45	19.36	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	19.42	19.42	19.46	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	12	19.46	19.44	19.40	21.0	0.0		

Reduced Power Mode for Main PA DSI4 ENDC										
Part27Q n77 PC2&3 Ant 5 DSI 4 for ENDC										
BW (MHz)	Modulation	RB 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		19.44					
100	PI2 BPSK	1	137		19.40		21.0	0.0		
100	PI2 BPSK	1	271		19.43					
100	PI2 BPSK	135	0		19.45		21.0	0.0		
100	PI2 BPSK	135	69		19.45		21.0	0.0		
100	PI2 BPSK	135	138		19.34					
100	PI2 BPSK	270	0		19.44		21.0	0.0		
100	QPSK	1	1		19.46					
100	QPSK	1	137		19.40		21.0	0.0		
100	QPSK	1	271		19.43					
100	QPSK	135	0		19.40		21.0	0.0		
100	QPSK	135	69		19.41		21.0	0.0		
100	QPSK	135	138		19.38		21.0	0.0		
100	QPSK	270	0		19.38		21.0	0.0		
100	16QAM	1	1		19.29		21.0	0.0		
100	64QAM	1	1		19.34		21.0	0.0		
100	256QAM	1	1		19.27		21.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	633000	633333	633666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	109	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	81	19.38	19.40	19.24	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	19.38	19.41	19.16	21.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	19.33	19.38	19.14	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	26	19.31	19.44	19.17	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	19	630500	633333	636166	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	12	3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)		

Part270 n78 PC2&3 Ant 5 DSI 4 for ENDC										
BW (MHz)	Modulation	RB 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		19.41					
100	PI2 BPSK	1	137		19.47		20.0	0.0		
100	PI2 BPSK	1	271		19.41					
100	PI2 BPSK	135	0		19.42		20.0	0.0		
100	PI2 BPSK	135	69		19.42		20.0	0.0		
100	PI2 BPSK	135	138		19.33					
100	PI2 BPSK	270	0		19.35		20.0	0.0		
100	QPSK	1	1		19.53					
100	QPSK	1	137		19.40		20.0	0.0		
100	QPSK	1	271		19.32					
100	QPSK	135	0		19.36		20.0	0.0		
100	QPSK	135	69		19.42		20.0	0.0		
100	QPSK	135	138		19.31					
100	QPSK	270	0		19.36		20.0	0.0		
100	16QAM	1	1		19.37		20.0	0.0		
100	64QAM	1	1		19.38		20.0	0.0		
100	256QAM	1	1		19.38		20.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	123	648668	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	109	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	95	19.35	19.49	19.29	20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	81	19.41	19.47	19.32	20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	67	19.40	19.50	19.33	20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	53	19.34	19.42	19.30	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	39	647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	26	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	19	3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	12	19.33	19.52	19.26	20.0	0.0		

Part27Q n78 PC2&3 Ant 5 DSI 4 for ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		19.43				
100	PI2 BPSK	1	137		19.49		20.0	0.0	
100	PI2 BPSK	1	271		19.37				
100	PI2 BPSK	135	0		19.45		20.0	0.0	
100	PI2 BPSK	135	69		19.49		20.0	0.0	
100	PI2 BPSK	135	138		19.47				
100	PI2 BPSK	270	0		19.31		20.0	0.0	
100	QPSK	1	1		19.52				
100	QPSK	1	137		19.43		20.0	0.0	
100	QPSK	1	271		19.40				
100	QPSK	135	0		19.39		20.0	0.0	
100	QPSK	135	69		19.44		20.0	0.0	
100	QPSK	135	138		19.27				
100	QPSK	270	0		19.38		20.0	0.0	
100	16QAM	1	1		19.32		20.0	0.0	
100	64QAM	1	1		19.38		20.0	0.0	
100	256QAM	1	1		19.38		20.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	123	19.25	19.43	19.27	20.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	19.30	19.42	19.33	20.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	95	19.33	19.42	19.29	20.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3500.02			
60	QPSK	1	81	19.23	19.44	19.28	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	19.32	19.46	19.26	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	19.28	19.47	19.32	20.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	19.26	19.47	19.27	20.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	19.33	19.48	19.32	20.0	0.0	
Channel				630500	633334	636368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.5	3500.01	3545.23			
15	QPSK	1	19	19.29	19.46	19.26	20.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	12	19.21	19.47	19.28	20.0	0.0	



n2 other PA Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.98	22.99	22.94			
20	PI2 BPSK	1	53	22.96	22.96	23.03	24.5	0.0	
20	PI2 BPSK	1	104	23.03	23.00	23.00			
20	PI2 BPSK	50	0	22.97	22.83	22.51	24.0	0.5	
20	PI2 BPSK	50	28	22.96	23.02	22.92	24.5	0.0	
20	PI2 BPSK	50	56	22.80	22.56	22.52	24.0	0.5	
20	PI2 BPSK	100	0	22.54	22.58	22.58			
20	QPSK	1	1	23.08	23.11	23.05			
20	QPSK	1	53	23.01	23.05	22.97	24.5	0.0	
20	QPSK	1	104	23.01	23.04	23.02			
20	QPSK	50	0	22.08	22.09	22.01	23.5	1.0	
20	QPSK	50	28	23.02	23.07	22.99	24.5	0.0	
20	QPSK	50	56	22.11	22.06	22.06	23.5	1.0	
20	QPSK	100	0	22.07	22.13	22.06			
20	16QAM	1	1	22.08	22.06	22.03	23.5	1.0	
20	64QAM	1	1	20.58	20.64	20.61	22.0	2.5	
20	256QAM	1	1	18.54	18.61	18.53	20.0	4.5	
Channel									
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	23.02	22.98	22.92	24.5	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	1903	1903	1903	24.5	0.0	
Channel									
Frequency (MHz)				376500	376000	381500			
5	QPSK	1	1	1852.5	1860	1867.5	24.5	0.0	

Full & Default Power_Other PA									
n7 other PA Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2625	2635	2545			
50	PI2 BPSK	1	1	22.97	22.90	22.92			
50	PI2 BPSK	1	135	22.88	22.96	22.93	24.5	0.0	
50	PI2 BPSK	1	269	23.01	22.98	22.89			
50	PI2 BPSK	135	0	22.49	22.55	22.44	24.0	0.5	
50	PI2 BPSK	135	68	22.93	22.92	22.80	24.5	0.0	
50	PI2 BPSK	135	135	22.59	22.46	22.48	24.0	0.5	
50	PI2 BPSK	270	0	22.51	22.46	22.46			
50	QPSK	1	1	22.96	22.98	22.96			
50	QPSK	1	135	22.99	22.94	22.93	24.5	0.0	
50	QPSK	1	268	22.99	23.08	22.97			
50	QPSK	135	0	22.07	22.00	21.90	23.5	1.0	
50	QPSK	135	68	23.01	23.05	22.88	24.5	0.0	
50	QPSK	135	135	22.11	21.96	21.96	23.5	1.0	
50	QPSK	270	0	22.02	22.06	21.99			
50	16QAM	1	1	22.00	22.01	22.02	23.5	1.0	
50	64QAM	1	1	20.49	20.54	20.51	22.0	2.5	
50	256QAM	1	1	18.44	18.61	18.42	20.0	4.5	
Channel									
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	22.96	22.92	22.87	24.5	0.0	
Channel									
Frequency (MHz)				503000	507000	511000			
30	QPSK	1	1	2215	2233	2252	24.5	0.0	
Channel									
Frequency (MHz)				502500	507000	511500			
25	QPSK	1	1	23.00	22.88	22.84	24.5	0.0	
Channel									
Frequency (MHz)				504000	507000	510000			
20	QPSK	1	1	22.91	22.89	22.91	24.5	0.0	
Channel									
Frequency (MHz)				501600	507000	512500			
15	QPSK	1	1	2297.2	2333	2292.5	24.5	0.0	
Channel									
Frequency (MHz)				501000	507000	513000			
10	QPSK	1	1	22.92	22.94	22.81	24.5	0.0	
Channel									
Frequency (MHz)				506500	507000	513500			
5	QPSK	1	1	22.94	22.90	22.81	24.5	0.0	

n66 other PA Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.05	22.88	22.93			
40	PI2 BPSK	1	108	22.91	23.04	22.90	24.5	0.0	
40	PI2 BPSK	1	214	23.10	23.00	22.87			
40	PI2 BPSK	108	0	22.47	22.98	22.53	24.0	0.5	
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0	
40	PI2 BPSK	108	108	22.57	22.44	22.51	24.0	0.5	
40	PI2 BPSK	216	0	22.59	22.54	22.43			
40	QPSK	1	1	23.01	23.15	23.04			
40	QPSK	1	108	22.97	22.94	22.91	24.5	0.0	
40	QPSK	1	214	22.98	22.97	22.94			
40	QPSK	108	0	22.06	22.08	21.92	23.5	1.0	
40	QPSK	108	54	23.08	23.12	22.90	24.5	0.0	
40	QPSK	108	108	22.01	22.04	22.02	23.5	1.0	
40	QPSK	216	0	22.02	22.19	22.00			
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0	
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5	
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0	
Channel									
Frequency (MHz)				344500	349000	353500			
25	QPSK	1	1	1723	1743	1747.2	24.5	0.0	
Channel									
Frequency (MHz)				344000	349000	349000			
20	QPSK	1	1	1720	1745	1770	24.5	0.0	
Channel									
Frequency (MHz)				343000	349000	355000			
15	QPSK	1	1	23.04	23.04	22.90	24.5	0.0	
Channel									
Frequency (MHz)				1745	1745	1775			
10	QPSK	1	1	23.01	23.01	22.93	24.5	0.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.09	22.96	22.90	24.5	0.0	

n2 other PA Ant 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	17.58	17.61	17.54			
20	PI2 BPSK	1	53	17.59	17.58	17.57	19.0	0.0	
20	PI2 BPSK	1	104	17.63	17.59	17.50			
20	PI2 BPSK	50	0	17.59	17.61	17.55	19.0	0.0	
20	PI2 BPSK	50	28	17.55	17.61	17.50	19.0	0.0	
20	PI2 BPSK	50	56	17.56	17.62	17.56	19.0	0.0	
20	PI2 BPSK	100	0	17.58	17.59	17.49			
20	QPSK	1	1	17.62	17.64	17.64	19.0	0.0	
20	QPSK	1	53	17.56	17.62	17.56	19.0	0.0	
20	QPSK	1	104	17.63	17.60	17.53			
20	QPSK	50	0	17.57	17.60	17.52	19.0	0.0	
20	QPSK	50	28	17.55	17.61	17.57	19.0	0.0	
20	QPSK	50	56	17.54	17.63	17.54	19.0	0.0	
20	QPSK	100	0	17.60	17.63	17.51			
20	16QAM	1	1	17.57	17.62	17.55	19.0	0.0	
20	64QAM	1	1	17.57	17.60	17.60	19.0	0.0	
20	256QAM	1	1	17.58	17.61	17.50	19.0	0.0	
Channel									
Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	17.51	17.62	17.54	19.0	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	17.61	17.60	17.49	19.0	0.0	
Channel									
Frequency (MHz)				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	17.51	17.63	17.45	19.0	0.0	

Reduced Power Mode for Other PA DSI1									
n7 other PA Ant 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2625	2635	2545			
50	PI2 BPSK	1	1	22.46	22.52	22.37			
50	PI2 BPSK	1	135	22.37	22.41	22.47	24.0	0.0	
50	PI2 BPSK	1	269	22.48	22.50	22.39			
50	PI2 BPSK	135	0	22.48	22.55	22.44	24.0	0.0	
50	PI2 BPSK	135	68	22.45	22.46	22.32	24.0	0.0	
50	PI2 BPSK	135	135	22.59	22.46	22.48	24.0	0.0	
50	PI2 BPSK	270	0	22.51	22.46	22.46			
50	QPSK	1	1	22.51	22.41	22.42			
50	QPSK	1	135	22.46	22.47	22.43	24.0	0.0	
50	QPSK	1	268	22.44	22.60	22.48			
50	QPSK	135	0	22.07	22.00	21.90	23.5	0.5	
50	QPSK	135	68	22.52	22.54	22.37	24.0	0.0	
50	QPSK	135	135	22.11	21.96	21.86	23.5	0.5	
50	QPSK	270	0	22.02	22.05	21.99			
50	16QAM	1	1	22.00	22.01	22.02	23.5	0.5	
50	64QAM	1	1	20.49	20.54	20.51	22.0	2.0	
50	256QAM	1	1	18.44	18.81	18.42	20.0	4.0	
Channel									
Frequency (MHz)				503000	503000	509000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.38	22.52	22.46	24.0	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.38	22.52	22.39	24.0	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.39	22.54	22.37	24.0	0.0	
Channel									
Frequency (MHz)				506000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.38	22.52	22.39	24.0	0.0	
Channel									
Frequency (MHz)				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.42	22.57	22.47	24.0	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.34	22.59	22.39	24.0	0.0	
Channel									
Frequency (MHz)				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.43	22.53	22.44	24.0	0.0	

n66 other PA Ant 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.05	22.88	22.93			
40	PI2 BPSK	1	108	22.91	23.04	22.90	24.5	0.0	
40	PI2 BPSK	1	214	23.10	23.00	22.87			
40	PI2 BPSK	108	0	22.47	22.98	22.53	24.0	0.5	
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0	
40	PI2 BPSK	108	108	22.57	22.44	22.51	24.0	0.5	
40	PI2 BPSK	216	0	22.59	22.54	22.43			
40	QPSK	1	1	23.01	23.15	23.04			
40	QPSK	1	108	22.97	22.94	22.91	24.5	0.0	
40	QPSK	1	214	22.98	22.97	22.94			
40	QPSK	108	0	22.06	22.08	21.92	23.5	1.0	
40	QPSK	108	54	23.08	23.12	22.90	24.5	0.0	
40	QPSK	108	108	22.01	22.04	22.00	23.5	1.0	
40	QPSK	216	0	22.02	22.19	22.00			
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0	
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5	
40	256QAM	1	1	18.49	18.88	18.44	20.0	4.5	
Channel									
Frequency (MHz)				345000	345000	350000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0	
Channel									
Frequency (MHz)				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0	
Channel									
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.02	23.06	22.90	24.5	0.0	
Channel									
Frequency (MHz)				343500	349000	350500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.04	23.04	22.90	24.5	0.0	
Channel									
Frequency (MHz)				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.01	23.01	22.93	24.5	0.0	
Channel									
Frequency (MHz)				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.09	22.96	22.90	24.5	0.0	

Reduced Power Mode for Other PA DSI1 ENDC

n66 other PA Ant 2 DSI1 for ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	Pi/2 BPSK	1	1	20.53	20.68	20.49	22.0	0.0
40	Pi/2 BPSK	1	108	20.53	20.68	20.57		
40	Pi/2 BPSK	1	214	20.55	20.66	20.55		
40	Pi/2 BPSK	108	0	20.48	20.59	20.56	22.0	0.0
40	Pi/2 BPSK	108	54	20.49	20.60	20.56	22.0	0.0
40	Pi/2 BPSK	108	108	20.51	20.60	20.60	22.0	0.0
40	Pi/2 BPSK	216	0	20.46	20.66	20.53		
40	QPSK	1	1	20.58	20.69	20.59	22.0	0.0
40	QPSK	1	108	20.55	20.66	20.52		
40	QPSK	1	214	20.49	20.64	20.51		
40	QPSK	108	0	20.50	20.64	20.54	22.0	0.0
40	QPSK	108	54	20.54	20.65	20.59	22.0	0.0
40	QPSK	108	108	20.50	20.61	20.52	22.0	0.0
40	QPSK	216	0	20.53	20.62	20.56		
40	16QAM	1	1	20.45	20.65	20.57	22.0	0.0
40	64QAM	1	1	20.51	20.60	20.59	22.0	0.0
40	256QAM	1	1	18.49	18.68	18.44	20.0	2.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	20.51	20.60	20.58	22.0	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	20.55	20.64	20.52	22.0	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	20.51	20.66	20.49	22.0	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	20.57	20.61	20.58	22.0	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	20.50	20.60	20.49	22.0	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	20.48	20.66	20.48	22.0	0.0



n2 other PA Ant 2 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	18.54	18.60	18.58			
20	PI2 BPSK	1	53	18.55	18.60	18.52	20.0	0.0	
20	PI2 BPSK	1	104	18.57	18.62	18.56			
20	PI2 BPSK	50	0	18.52	18.56	18.49	20.0	0.0	
20	PI2 BPSK	50	28	18.62	18.62	18.50	20.0	0.0	
20	PI2 BPSK	50	56	18.58	18.59	18.57			
20	PI2 BPSK	100	0	18.59	18.60	18.58	20.0	0.0	
20	QPSK	1	1	18.59	18.64	18.59			
20	QPSK	1	53	18.57	18.62	18.53	20.0	0.0	
20	QPSK	1	104	18.61	18.61	18.58			
20	QPSK	50	0	18.58	18.56	18.54	20.0	0.0	
20	QPSK	50	28	18.58	18.62	18.58	20.0	0.0	
20	QPSK	50	56	18.57	18.57	18.50	20.0	0.0	
20	QPSK	100	0	18.58	18.61	18.55			
20	16QAM	1	1	18.54	18.55	18.54	20.0	0.0	
20	64QAM	1	1	18.60	18.58	18.55	20.0	0.0	
20	256QAM	1	1	18.54	18.61	18.53	20.0	0.0	
Channel									
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	18.51	18.61	18.48	20.0	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	18.50	18.60	18.55	20.0	0.0	
Channel									
Frequency (MHz)				376500	376000	381500			
5	QPSK	1	1	18.59	18.60	18.46	20.0	0.0	

Reduced Power Mode for Other PA DSI2									
n7 other PA Ant 2 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2625	2635	2545			
50	PI2 BPSK	1	1	22.97	22.90	22.92			
50	PI2 BPSK	1	135	22.88	22.96	22.93	24.5	0.0	
50	PI2 BPSK	1	269	23.01	22.98	22.89			
50	PI2 BPSK	135	0	22.49	22.55	22.44	24.0	0.5	
50	PI2 BPSK	135	68	22.93	22.92	22.80	24.5	0.0	
50	PI2 BPSK	135	135	22.59	22.46	22.48	24.0	0.5	
50	PI2 BPSK	270	0	22.51	22.46	22.46			
50	QPSK	1	1	22.96	22.98	22.96			
50	QPSK	1	135	22.99	22.94	22.93	24.5	0.0	
50	QPSK	1	268	22.99	23.08	22.97			
50	QPSK	135	0	22.07	22.00	21.90	23.5	1.0	
50	QPSK	135	68	23.01	23.05	22.88	24.5	0.0	
50	QPSK	135	135	22.11	21.96	21.96	23.5	1.0	
50	QPSK	270	0	22.02	22.06	21.99			
50	16QAM	1	1	22.00	22.01	22.02	23.5	1.0	
50	64QAM	1	1	20.49	20.54	20.51	22.0	2.5	
50	256QAM	1	1	18.44	18.61	18.42	20.0	4.5	
Channel									
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	22.96	22.92	22.87	24.5	0.0	
Channel									
Frequency (MHz)				503000	507000	511000			
30	QPSK	1	1	22.91	22.98	22.92	24.5	0.0	
Channel									
Frequency (MHz)				502500	507000	511500			
25	QPSK	1	1	23.00	22.88	22.84	24.5	0.0	
Channel									
Frequency (MHz)				506000	507000	512000			
20	QPSK	1	1	22.91	22.89	22.91	24.5	0.0	
Channel									
Frequency (MHz)				501600	507000	512500			
15	QPSK	1	1	22.92	22.88	22.91	24.5	0.0	
Channel									
Frequency (MHz)				501000	507000	513000			
10	QPSK	1	1	22.92	22.94	22.81	24.5	0.0	
Channel									
Frequency (MHz)				506500	507000	513500			
5	QPSK	1	1	22.94	22.90	22.81	24.5	0.0	

n66 other PA Ant 2 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.05	22.88	22.93			
40	PI2 BPSK	1	108	22.91	23.04	22.90	24.5	0.0	
40	PI2 BPSK	1	214	23.10	23.00	22.87			
40	PI2 BPSK	108	0	22.47	22.98	22.53	24.0	0.5	
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0	
40	PI2 BPSK	108	108	22.57	22.44	22.51	24.0	0.5	
40	PI2 BPSK	216	0	22.59	22.54	22.43			
40	QPSK	1	1	23.01	23.15	23.04			
40	QPSK	1	108	22.97	22.94	22.91	24.5	0.0	
40	QPSK	1	214	22.98	22.97	22.94			
40	QPSK	108	0	22.06	22.08	21.92	23.5	1.0	
40	QPSK	108	54	23.08	23.12	22.90	24.5	0.0	
40	QPSK	108	108	22.01	22.04	22.00	23.5	1.0	
40	QPSK	216	0	22.02	22.19	22.00			
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0	
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5	
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0	
Channel									
Frequency (MHz)				344500	349000	353500			
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0	
Channel									
Frequency (MHz)				344000	349000	349000			
20	QPSK	1	1	23.02	23.06	22.90	24.5	0.0	
Channel									
Frequency (MHz)				343500	349000	350500			
15	QPSK	1	1	23.04	23.04	22.90	24.5	0.0	
Channel									
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.01	23.01	22.93	24.5	0.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.09	22.96	22.90	24.5	0.0	

n2 other PA Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	18.54	18.60	18.58			
20	PI2 BPSK	1	53	18.55	18.60	18.52	20.0	0.0	
20	PI2 BPSK	1	104	18.57	18.62	18.56			
20	PI2 BPSK	50	0	18.52	18.56	18.49	20.0	0.0	
20	PI2 BPSK	50	28	18.62	18.62	18.50	20.0	0.0	
20	PI2 BPSK	50	56	18.58	18.59	18.57			
20	PI2 BPSK	100	0	18.59	18.60	18.58	20.0	0.0	
20	QPSK	1	1	18.59	18.64	18.59			
20	QPSK	1	53	18.57	18.62	18.53	20.0	0.0	
20	QPSK	1	104	18.61	18.61	18.58			
20	QPSK	50	0	18.58	18.56	18.54	20.0	0.0	
20	QPSK	50	28	18.58	18.62	18.58	20.0	0.0	
20	QPSK	50	56	18.57	18.57	18.50	20.0	0.0	
20	QPSK	100	0	18.58	18.61	18.55			
20	16QAM	1	1	18.54	18.55	18.54	20.0	0.0	
20	64QAM	1	1	18.60	18.58	18.55	20.0	0.0	
20	256QAM	1	1	18.54	18.61	18.53	20.0	0.0	
Channel									
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	18.51	18.61	18.48	20.0	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	18.50	18.60	18.55	20.0	0.0	
Channel									
Frequency (MHz)				376500	376000	381500			
5	QPSK	1	1	18.59	18.60	18.46	20.0	0.0	

Reduced Power Mode for Other PA DSI3									
n7 other PA Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2625	2635	2545			
50	PI2 BPSK	1	1	22.97	22.90	22.92			
50	PI2 BPSK	1	135	22.88	22.96	22.93	24.5	0.0	
50	PI2 BPSK	1	269	23.01	22.98	22.89			
50	PI2 BPSK	135	0	22.49	22.55	22.44	24.0	0.5	
50	PI2 BPSK	135	68	22.93	22.92	22.80	24.5	0.0	
50	PI2 BPSK	135	135	22.59	22.46	22.48	24.0	0.5	
50	PI2 BPSK	270	0	22.51	22.46	22.46			
50	QPSK	1	1	22.96	22.98	22.96			
50	QPSK	1	135	22.99	22.94	22.93	24.5	0.0	
50	QPSK	1	268	22.99	23.08	22.97			
50	QPSK	135	0	22.07	22.00	21.90	23.5	1.0	
50	QPSK	135	68	23.01	23.05	22.88	24.5	0.0	
50	QPSK	135	135	22.11	21.96	21.86	23.5	1.0	
50	QPSK	270	0	22.02	22.06	21.99			
50	16QAM	1	1	22.00	22.01	22.02	23.5	1.0	
50	64QAM	1	1	20.49	20.54	20.51	22.0	2.5	
50	256QAM	1	1	18.44	18.61	18.42	20.0	4.5	
Channel									
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	22.96	22.92	22.87	24.5	0.0	
Channel									
Frequency (MHz)				503000	507000	511000			
30	QPSK	1	1	22.91	22.98	22.92	24.5	0.0	
Channel									
Frequency (MHz)				502500	507000	511500			
25	QPSK	1	1	23.00	22.88	22.84	24.5	0.0	
Channel									
Frequency (MHz)				2512.5	2535	2557.5			
20	QPSK	1	1	22.91	22.89	22.91	24.5	0.0	
Channel									
Frequency (MHz)				501600	507000	512500			
15	QPSK	1	1	22.92	22.88	22.91	24.5	0.0	
Channel									
Frequency (MHz)				501000	507000	513000			
10	QPSK	1	1	22.92	22.94	22.81	24.5	0.0	
Channel									
Frequency (MHz)				500500	507000	513500			
5	QPSK	1	1	22.94	22.90	22.81	24.5	0.0	

n66 other PA Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.05	22.88	22.93			
40	PI2 BPSK	1	108	22.91	23.04	22.90	24.5	0.0	
40	PI2 BPSK	1	214	23.10	23.00	22.87			
40	PI2 BPSK	108	0	22.47	22.98	22.53	24.0	0.5	
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0	
40	PI2 BPSK	108	108	22.57	22.44	22.51	24.0	0.5	
40	PI2 BPSK	216	0	22.59	22.54	22.43			
40	QPSK	1	1	23.01	23.15	23.04			
40	QPSK	1	108	22.97	22.94	22.91	24.5	0.0	
40	QPSK	1	214	22.98	22.97	22.94			
40	QPSK	108	0	22.06	22.08	21.92	23.5	1.0	
40	QPSK	108	54	23.08	23.12	22.90	24.5	0.0	
40	QPSK	108	108	22.01	22.04	22.00	23.5	1.0	
40	QPSK	216	0	22.02	22.19	22.00			
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0	
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5	
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0	
Channel									
Frequency (MHz)				344500	349000	353500			
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0	
Channel									
Frequency (MHz)				344000	349000	349000			
20	QPSK	1	1	23.02	23.06	22.90	24.5	0.0	
Channel									
Frequency (MHz)				343500	349000	350500			
15	QPSK	1	1	23.04	23.04	22.90	24.5	0.0	
Channel									
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.01	23.01	22.93	24.5	0.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.09	22.96	22.90	24.5	0.0	



n2 other PA Ant 2 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	18.54	18.60	18.58			
20	PI2 BPSK	1	53	18.55	18.60	18.52	20.0	0.0	
20	PI2 BPSK	1	104	18.57	18.62	18.56			
20	PI2 BPSK	50	0	18.52	18.56	18.49	20.0	0.0	
20	PI2 BPSK	50	28	18.62	18.62	18.50	20.0	0.0	
20	PI2 BPSK	50	56	18.58	18.59	18.57			
20	PI2 BPSK	100	0	18.59	18.60	18.58	20.0	0.0	
20	QPSK	1	1	18.59	18.64	18.59			
20	QPSK	1	53	18.57	18.62	18.53	20.0	0.0	
20	QPSK	1	104	18.61	18.61	18.58			
20	QPSK	50	0	18.58	18.56	18.54	20.0	0.0	
20	QPSK	50	28	18.58	18.62	18.58	20.0	0.0	
20	QPSK	50	56	18.57	18.57	18.50			
20	QPSK	100	0	18.58	18.61	18.55	20.0	0.0	
20	16QAM	1	1	18.54	18.55	18.54	20.0	0.0	
20	64QAM	1	1	18.60	18.58	18.55	20.0	0.0	
20	256QAM	1	1	18.54	18.61	18.53	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.51	18.61	18.48	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.50	18.62	18.55	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.59	18.60	18.46	20.0	0.0	

Reduced Power Mode for Other PA DSI 4									
n7 other PA Ant 2 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	19.83	19.92	19.78			
50	PI2 BPSK	1	135	19.85	19.87	19.80	21.5	0.0	
50	PI2 BPSK	1	269	19.88	19.84	19.76			
50	PI2 BPSK	135	0	19.76	19.86	19.79	21.5	0.0	
50	PI2 BPSK	135	68	19.79	19.86	19.79	21.5	0.0	
50	PI2 BPSK	135	135	19.87	19.92	19.75			
50	PI2 BPSK	270	0	19.84	19.84	19.75	21.5	0.0	
50	QPSK	1	1	19.90	20.01	19.84			
50	QPSK	1	135	19.99	20.02	19.83	21.5	0.0	
50	QPSK	1	268	20.01	20.06	19.98			
50	QPSK	135	0	19.97	20.04	19.84	21.5	0.0	
50	QPSK	135	68	19.96	19.98	19.84	21.5	0.0	
50	QPSK	135	135	19.92	19.95	19.85			
50	QPSK	270	0	19.89	19.97	19.88	21.5	0.0	
50	16QAM	1	1	19.77	19.92	19.84	21.5	0.0	
50	64QAM	1	1	19.81	19.85	19.76	21.5	0.0	
50	256QAM	1	1	19.88	19.87	19.75	20.0	1.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.83	19.90	19.83	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.84	19.92	19.76	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.77	19.86	19.80	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.87	19.88	19.83	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.87	19.87	19.83	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.80	19.84	19.79	21.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.77	19.86	19.76	21.5	0.0	

n66 other PA Ant 2 DSI 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.05	22.88	22.93			
40	PI2 BPSK	1	108	22.91	23.04	22.90	24.5	0.0	
40	PI2 BPSK	1	214	23.10	23.00	22.87			
40	PI2 BPSK	108	0	22.47	22.98	22.53	24.0	0.5	
40	PI2 BPSK	108	54	22.93	22.94	22.87	24.5	0.0	
40	PI2 BPSK	108	108	22.57	22.44	22.51			
40	PI2 BPSK	216	0	22.59	22.54	22.43	24.0	0.5	
40	QPSK	1	1	23.01	23.15	23.04			
40	QPSK	1	108	22.97	22.94	22.91	24.5	0.0	
40	QPSK	1	214	22.98	22.97	22.94			
40	QPSK	108	0	22.06	22.08	21.92	23.5	1.0	
40	QPSK	108	54	23.08	23.12	22.90	24.5	0.0	
40	QPSK	108	108	22.01	22.04	22.00			
40	QPSK	216	0	22.02	22.19	22.00	23.5	1.0	
40	16QAM	1	1	22.01	22.09	22.02	23.5	1.0	
40	64QAM	1	1	20.51	20.60	20.59	22.0	2.5	
40	256QAM	1	1	18.49	18.68	18.44	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.07	23.03	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.02	23.07	23.01	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.02	23.06	22.90	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.04	23.04	22.90	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.01	23.01	22.93	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.09	22.96	22.90	24.5	0.0	



Appendix E

2.4GHz WLAN				Ant 6 Full power		Ant 6 Head Standalone		Ant 6 Head Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11b Mbps	1	2412	14.92	15.90	14.92	15.50	13.51	14.50	100.00	
	6	2437	15.06	19.00	16.62	17.50	13.57	14.50		
	11	2462	14.96	15.50	14.99	15.50	13.52	14.50		
	2	2417	15.72	16.50	17.72	18.50	13.71	14.50		
	7	2442	15.06	19.00	16.07	15.50	13.59	14.50		
	9	2452	15.53	16.50	14.90	15.50	13.56	14.50		
	10	2457	14.88	15.50	14.88	15.50	13.54	14.50		
	1	2412	16.26	17.00						
	6	2437	17.82	18.50						
	11	2462	17.59	18.00						
802.11g Mbps	1	2412	17.82	18.50					96.95	
	6	2437	17.82	18.50						
802.11n-HT20 MCS0	1	2412	17.82	18.50					96.77	
	6	2437	17.63	18.50	Not Required		Not Required			
802.11ac-HE20 MCS0	1	2412	15.07	16.00					95.89	
	6	2437	16.71	17.50						

5.2GHz WLAN				Ant 6 Full power		Ant 6 Head Standalone		Ant 6 Head Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a Mbps	36	5180	16.98	17.50			15.00	11.00	96.97	
	40	5200	17.02	18.00			15.00	11.00		
	44	5220	16.91	17.50			15.00	11.00		
	48	5240	16.89	17.50			15.00	11.00		
802.11n-HT40 MCS0	36	5180	16.02	17.00	Not Required		15.00	11.00	96.77	
	40	5200	15.91	16.50			15.00	11.00		
	44	5220	16.00	17.00			15.00	11.00		
	48	5240	15.79	16.50			15.00	11.00		
802.11n-HT40 MCS0	36	5190	14.11	15.00	14.11		15.00	11.00	93.67	
	48	5230	15.08	16.00	14.17		15.00	11.00		
802.11ac-WHT20 MCS0	36	5180	16.92	17.50			15.00	11.00	96.76	
	40	5200	15.96	16.50			15.00	11.00		
	44	5220	16.06	17.00			15.00	11.00		
	48	5240	15.85	16.50			15.00	11.00		
802.11ac-WHT40 MCS0	36	5190	15.90	16.50			15.00	11.00	93.75	
	48	5230	15.90	16.50			15.00	11.00		
802.11ac-WTBS MCS0	42	5210	13.40	14.00	Not Required		10.30	11.00	88.19	
	36	5180	16.18	17.00			15.00	11.00		
	40	5200	16.07	17.00			15.00	11.00		
	44	5220	16.14	17.00			15.00	11.00		
802.11ac-HE20 MCS0	48	5240	15.94	16.50			15.00	11.00	95.89	
	36	5190	14.24	15.00			15.00	11.00		
802.11ac-HE40 MCS0	48	5230	15.17	16.00			15.00	11.00	92.46	
	42	5210	13.57	14.50			14.50	11.00		

5.3GHz WLAN				Ant 6 Full power		Ant 6 Head Standalone		Ant 6 Head Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a Mbps	52	5280	16.88	17.50			15.00	11.00	96.97	
	56	5280	16.90	17.50			15.00	11.00		
	60	5300	16.96	17.50			15.00	11.00		
	64	5320	16.82	17.50			15.00	11.00		
802.11n-HT20 MCS0	52	5280	15.72	16.50	Not Required		15.00	11.00	96.77	
	56	5280	15.93	16.50			15.00	11.00		
	60	5300	15.87	16.50			15.00	11.00		
	64	5320	15.84	16.50			15.00	11.00		
802.11n-HT40 MCS0	52	5270	15.01	16.00	14.15		15.00	11.00	93.67	
	62	5310	14.52	15.50	14.13		15.00	11.00		
802.11ac-WHT20 MCS0	56	5280	15.95	16.50			15.00	11.00	96.76	
	60	5300	15.90	16.50			15.00	11.00		
	64	5320	15.87	16.50			15.00	11.00		
	52	5270	15.98	16.50			15.00	11.00		
802.11ac-WHT40 MCS0	52	5310	15.84	16.50			15.00	11.00	93.75	
	58	5290	12.70	13.50	Not Required		13.50	10.47		
802.11ac-HE20 MCS0	52	5280	15.86	16.50			15.00	11.00	95.89	
	56	5280	16.04	17.00			15.00	11.00		
	60	5300	16.00	17.00			15.00	11.00		
	64	5320	15.97	17.00			15.00	11.00		
802.11ac-HE40 MCS0	54	5270	15.12	16.00			15.00	11.00	92.46	
	58	5290	12.84	13.50			13.50	11.00		

5.5GHz WLAN				Ant 6 Full power		Ant 6 Head Standalone		Ant 6 Head Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a Mbps	100	5500	16.85	17.50			14.00	10.00	96.97	
	116	5680	17.06	18.00			14.00	10.00		
	124	5620	17.16	18.00			14.00	10.00		
	132	5660	17.09	18.00			14.00	10.00		
	140	5700	12.49	13.00			13.00	10.00		
	144	5720	17.22	18.00			14.00	10.00		
	100	5500	16.89	16.50			14.00	10.00		
	116	5680	16.13	17.00			14.00	10.00		
	124	5620	16.18	17.00			14.00	10.00		
	140	5700	11.50	12.50			12.50	10.00		
802.11n-HT20 MCS0	144	5720	16.19	17.00			14.00	10.00	96.77	
	100	5500	13.80	14.50			14.00	10.00		
	110	5550	14.77	15.50			14.00	10.00		
	128	5630	15.20	16.00	Not Required		Not Required	10.00		
802.11n-HT40 MCS0	134	5670	15.23	16.00			14.00	10.00	93.67	
	142	5710	15.30	16.00			14.00	10.00		
802.11ac-WHT20 MCS0	100	5500	15.94	16.50			14.00	10.00	96.76	
	116	5680	16.17	17.00			14.00	10.00		
	124	5620	16.20	17.00			14.00	10.00		
	132	5660	16.06	17.00			14.00	10.00		
802.11ac-WHT40 MCS0	140	5700	11.58	12.50			12.50	10.00	93.75	
	144	5720	16.22	17.00			14.00	10.00		
	100	5500	15.71	16.50			14.00	10.00		
	110	5550	15.76	16.50			14.00	10.00		
802.11ac-HE20 MCS0	128	5630	16.03	17.00			14.00	10.00	88.19	
	134	5670	15.94	16.50			14.00	10.00		
802.11ac-HE40 MCS0	142	5710	16.14	17.00			14.00	10.00	95.89	
	106	5530	13.30	14.00	13.03		9.31	10.00		
	122	5610	14.15	15.00	13.26		9.46	10.00		
	138	5690	14.01	15.00	13.14		9.38	10.00		
802.11ac-HE20 MCS0	100	5500	16.06	17.00			14.00	10.00	95.89	
	116	5680	16.24	17.00			14.00	10.00		
	124	5620	16.29	17.00			14.00	10.00		
	140	5700	11.54	12.50			12.50	10.00		
802.11ac-HE40 MCS0	144	5720	16.29	17.00			14.00	10.00	92.46	
	102	5510	13.94	14.50	Not Required		Not Required	10.00		
	110	5550	14.88	15.00			14.00	10.00		
	128	5630	15.30	16.00			14.00	10.00		
802.11ac-HE20 MCS0	134	5670	15.25	16.00			14.00	10.00	88.84	
	142	5710	15.40	16.00			14.00	10.00		
	106	5530	13.43	14.00			14.00	10.00		
	122	5610	14.24	15.00			14.00	10.00		
138	5690	14.13	15.00			14.00	10.00			

5.8GHz WLAN				Ant 6 Full power		Ant 6 Head Standalone		Ant 6 Head Simultaneous		Body-worn&lapel Simultaneous	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a Mbps	149	5745	17.17	18.00			14.00	10.00	17.50	17.50	96.97
	167	5765	16.26	16.50			14.00	10.00	17.50	17.50	
802.11n-HT20 MCS0	165	5825	17.21	18.00			14.00	10.00	Not Required	17.00	96.77
	149	5745	16.06	17.00			14.00	10.00	Not Required	17.00	
802.11n-HT40 MCS0	157	5785	16.26	17.00			14.00	10.00	Not Required	17.00	93.67
	165	5825	16.20	16.00			14.00	10.00	Not Required	17.00	
802.11ac-WHT20 MCS0	151	5735	15.52	16.00	Not Required		14.00	10.00	15.52	15.52	96.76
	159	5765	15.98	16.00			14.00	10.00	15.98	15.98	
802.11ac-WHT40 MCS0	149	5745	16.12	17.00			14.00	10.00	Not Required	17.00	93.75
	157	5785	16.33	17.00			14.00	10.00	Not Required	17.00	
	165	5825	16.24	17.00			14.00	10.00	Not Required	17.00	
	151	5735	16.10	17.00			14.00	10.00	Not Required	17.00	
802.11ac-HE20 MCS0	159	5765	16.24	17.00			14.00	10.00	16.24	16.24	88.19
	155	5775	14.21	15.00	13.25		9.47	10.00	15.00	15.00	
802.11ac-HE40 MCS0	149	5745	16.24	17.00			14.00	10.00			

BT BR/EDR **ANT 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	9.59	7.22	7.36	11.00
	CH 39	2441	7.72	5.06	5.33	9.00
	CH 78	2480	10.82	8.83	8.54	12.00

BLE_1M **ANT 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.25
	CH 19	2440	6.91
	CH 39	2480	6.06
Tune-up Limit			8.00

BLE_2M **ANT 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	6.09
	CH 19	2440	7.06
	CH 39	2480	6.04
Tune-up Limit			8.50