



ANT2				DSI 1/5					
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251	128		189	251		
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8			
GSM 1 Tx slot	31.06	31.30	31.07	31.50	22.06	22.30	22.07	22.50	
GPRS 1 Tx slot	31.05	31.29	31.05	31.50	22.05	22.29	22.05	22.50	
GPRS 2 Tx slots	28.06	28.37	28.04	28.50	22.06	22.37	22.04	22.50	
GPRS 3 Tx slots	26.02	26.64	26.50	26.70	21.76	22.38	22.24	22.44	
GPRS 4 Tx slots	24.76	25.17	25.02	25.30	21.76	22.17	22.02	22.50	
EDGE 1 Tx slot	25.05	25.37	25.01	26.00	16.05	16.37	16.01	17.00	
EDGE 2 Tx slots	21.97	22.01	21.88	23.00	15.97	16.01	15.89	17.00	
EDGE 3 Tx slots	19.91	20.31	20.49	21.20	15.65	16.05	16.23	16.94	
EDGE 4 Tx slots	18.72	19.10	19.14	20.00	15.72	16.10	16.14	17.00	

ANT2		DSI 1/5		
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	835.4	835.4	848.8	
3GPP Rel 99 AMR 12.2Kbps	22.67	22.68	22.62	23.00
3GPP Rel 99 RMC 12.2Kbps	22.69	22.68	22.63	23.00
3GPP Rel 6 HSDPA Subtest-1	21.44	21.35	21.36	22.00
3GPP Rel 6 HSDPA Subtest-2	21.40	21.42	21.41	22.00
3GPP Rel 6 HSDPA Subtest-3	20.89	20.96	20.86	21.50
3GPP Rel 6 HSDPA Subtest-4	20.94	20.95	20.83	21.50
3GPP Rel 8 DC-HSDPA Subtest-1	21.37	21.36	21.26	22.00
3GPP Rel 8 DC-HSDPA Subtest-2	21.38	21.38	21.32	22.00
3GPP Rel 8 DC-HSDPA Subtest-3	20.87	20.89	20.82	21.50
3GPP Rel 8 DC-HSDPA Subtest-4	20.85	20.84	20.84	21.50
3GPP Rel 6 HSUPA Subtest-1	21.36	21.43	21.41	22.00
3GPP Rel 6 HSUPA Subtest-2	19.36	19.42	19.36	20.00
3GPP Rel 6 HSUPA Subtest-3	20.43	20.38	20.37	21.00
3GPP Rel 6 HSUPA Subtest-4	19.47	19.42	19.30	20.00
3GPP Rel 6 HSUPA Subtest-5	21.41	21.43	21.39	22.00



ANT2_Band 5 DSI 1/5										
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				20450	20525	20600				
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	20.52	20.77	20.47	21.5	0		
10	QPSK	1	25	20.65	20.67	20.73				
10	QPSK	1	49	20.66	20.66	20.68				
10	QPSK	25	0	20.57	20.70	20.63	21.5	0		
10	QPSK	25	12	20.61	20.60	20.62				
10	QPSK	25	25	20.62	20.66	20.68				
10	QPSK	50	0	20.59	20.69	20.62	21.5	0		
10	16QAM	1	0	20.62	20.65	20.66				
10	16QAM	1	25	20.67	20.65	20.67				
10	16QAM	1	49	20.69	20.63	20.64	21.5	0		
10	16QAM	25	0	20.54	20.60	20.60				
10	16QAM	25	12	20.58	20.69	20.64				
10	16QAM	25	25	20.61	20.70	20.63	21.5	0		
10	16QAM	50	0	20.58	20.70	20.62				
10	64QAM	1	0	20.66	20.67	20.69				
10	64QAM	1	25	20.65	20.69	20.66	21.5	0		
10	64QAM	1	49	20.67	20.64	20.67				
10	64QAM	25	0	20.58	20.62	20.64				
10	64QAM	25	12	20.59	20.61	20.66	21.5	0		
10	64QAM	25	25	20.61	20.68	20.65				
10	64QAM	50	0	20.45	20.69	20.64				
Channel				20425	20525	20625				
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	0	20.43	20.61	20.64	21.5	0		
5	QPSK	1	12	20.52	20.57	20.56				
5	QPSK	1	24	20.54	20.53	20.45				
5	QPSK	12	0	20.62	20.64	20.64	21.5	0		
5	QPSK	12	7	20.61	20.65	20.60				
5	QPSK	12	13	20.60	20.60	20.53				
5	QPSK	25	0	20.60	20.64	20.58	21.5	0		
5	16QAM	1	0	20.69	20.68	20.67				
5	16QAM	1	12	20.54	20.63	20.61				
5	16QAM	1	24	20.67	20.64	20.50	21.5	0		
5	16QAM	12	0	20.62	20.64	20.62				
5	16QAM	12	7	20.66	20.70	20.62				
5	16QAM	12	13	20.63	20.59	20.54	21.5	0		
5	16QAM	25	0	20.63	20.64	20.62				
5	64QAM	1	0	20.56	20.56	20.60				
5	64QAM	1	12	20.55	20.49	20.51	21.5	0		
5	64QAM	1	24	20.54	20.55	20.40				
5	64QAM	12	0	20.58	20.62	20.64				
5	64QAM	12	7	20.62	20.65	20.60	21.5	0		
5	64QAM	12	13	20.58	20.58	20.54				
5	64QAM	25	0	20.63	20.65	20.58				
Channel				20415	20525	20635				
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	20.54	20.57	20.64	21.5	0		
3	QPSK	1	8	20.59	20.63	20.61				
3	QPSK	1	14	20.52	20.53	20.53				
3	QPSK	8	0	20.68	20.71	20.68	21.5	0		
3	QPSK	8	4	20.67	20.71	20.68				
3	QPSK	8	7	20.62	20.69	20.63				
3	QPSK	15	0	20.63	20.66	20.67	21.5	0		
3	16QAM	1	0	20.62	20.63	20.65				
3	16QAM	1	8	20.65	20.64	20.66				
3	16QAM	1	14	20.56	20.56	20.59	21.5	0		
3	16QAM	8	0	20.70	20.73	20.74				
3	16QAM	8	4	20.71	20.73	20.72				
3	16QAM	8	7	20.62	20.72	20.66	21.5	0		
3	16QAM	15	0	20.66	20.69	20.70				
3	64QAM	1	0	20.51	20.62	20.68				
3	64QAM	1	8	20.51	20.61	20.58	21.5	0		
3	64QAM	1	14	20.56	20.54	20.53				
3	64QAM	8	0	20.67	20.70	20.71				
3	64QAM	8	4	20.69	20.73	20.70	21.5	0		
3	64QAM	8	7	20.62	20.65	20.61				
3	64QAM	15	0	20.63	20.65	20.65				
Channel				20407	20525	20643				
Frequency (MHz)				824.7	836.5	848.3				
1.4	QPSK	1	0	20.49	20.15	20.49	21.5	0		
1.4	QPSK	1	3	20.51	20.34	20.53				
1.4	QPSK	1	5	20.43	20.31	20.48				
1.4	QPSK	3	0	20.48	20.40	20.54	21.5	0		
1.4	QPSK	3	1	20.51	20.48	20.55				
1.4	QPSK	3	3	20.48	20.52	20.52				
1.4	QPSK	6	0	20.57	20.58	20.59	21.5	0		
1.4	16QAM	1	0	20.59	20.59	20.61				
1.4	16QAM	1	3	20.60	20.64	20.61				
1.4	16QAM	1	5	20.50	20.55	20.58	21.5	0		
1.4	16QAM	3	0	20.56	20.59	20.62				
1.4	16QAM	3	1	20.61	20.63	20.63				
1.4	16QAM	3	3	20.52	20.55	20.57	21.5	0		
1.4	16QAM	6	0	20.65	20.67	20.68				
1.4	64QAM	1	0	20.51	20.56	20.58				
1.4	64QAM	1	3	20.49	20.55	20.53	21.5	0		
1.4	64QAM	1	5	20.43	20.44	20.53				
1.4	64QAM	3	0	20.66	20.62	20.64				
1.4	64QAM	3	1	20.67	20.72	20.66	21.5	0		
1.4	64QAM	3	3	20.61	20.61	20.35				
1.4	64QAM	6	0	20.60	20.61	20.42				

ANT2_Band 12 DSI 1/5										
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				23600	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	21.58	21.71	21.51	22.5	0		
10	QPSK	1	25	21.54	21.51	21.47				
10	QPSK	1	49	21.64	21.58	21.47				
10	QPSK	25	0	21.67	21.69	21.55	22.5	0		
10	QPSK	25	12	21.62	21.64	21.64				
10	QPSK	25	25	21.67	21.68	21.61				
10	QPSK	50	0	21.61	21.69	21.67	22.5	0		
10	16QAM	1	0	21.65	21.67	21.56				
10	16QAM	1	25	21.64	21.65	21.66				
10	16QAM	1	49	21.62	21.69	21.53	22.5	0		
10	16QAM	25	0	21.61	21.66	21.57				
10	16QAM	25	12	21.67	21.65	21.67				
10	16QAM	25	25	21.66	21.66	21.59	22.5	0		
10	16QAM	50	0	21.69	21.66	21.65				
10	64QAM	1	0	21.63	21.70	21.63				
10	64QAM	1	25	21.64	21.59	21.66	22.5	0		
10	64QAM	1	49	21.61	21.66	21.65				
10	64QAM	25	0	21.62	21.65	21.57				
10	64QAM	25	12	21.57	21.67	21.69	22.5	0		
10	64QAM	25	25	21.63	21.69	21.58				
10	64QAM	50	0	21.66	21.69	21.38				
Channel				23035	23095	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	21.68	21.54	21.61	22.5	0		
5	QPSK	1	12	21.61	21.58	21.62				
5	QPSK	1	24	21.56	21.59	21.67				
5	QPSK	12	0	21.64	21.61	21.68	22.5	0		
5	QPSK	12	7	21.65	21.67	21.66				
5	QPSK	12	13	21.63	21.66	21.55				
5	QPSK	25	0	21.63	21.62	21.56	22.5	0		
5	16QAM	1	0	21.64	21.61	21.48				
5	16QAM	1	12	21.62	21.68	21.43				
5	16QAM	1	24	21.63	21.66	21.57	22.5	0		
5	16QAM	12	0	21.68	21.65	21.57				
5	16QAM	12	7	21.64	21.68	21.61				
5	16QAM	12	13	21.64	21.69	21.56	22.5	0		
5	16QAM	25	0	21.64	21.64	21.59				
5	64QAM	1	0	21.55	21.50	21.68				
5	64QAM	1	12	21.52	21.63	21.60	22.5	0		
5	64QAM	1	24	21.54	21.63	21.64				
5	64QAM	12	0	21.64	21.65	21.57				
5	64QAM	12	7	21.63	21.70	21.54	22.5	0		
5	64QAM	12	13	21.62	21.66	21.49				
5	64QAM	25	0	21.66	21.64	21.45				
Channel				23055	23095	23165				
Frequency (MHz)				700.5	707.5					

ANT4

ANT4 Full power/DSI 1/3/4/5								
GSM1900 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	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.70	29.66	29.29	30.00	20.70	20.66	20.29	21.00
GPRS 1 Tx slot	29.69	29.64	29.28	30.00	20.69	20.64	20.28	21.00
GPRS2 Tx slots	26.77	26.93	26.61	27.00	20.77	20.93	20.61	21.00
GPRS3 Tx slots	24.90	25.12	24.73	25.20	20.64	20.86	20.47	20.94
GPRS4 Tx slots	23.70	23.98	23.61	24.00	20.70	20.98	20.61	21.00
EDGE 1 Tx slot	25.47	25.60	25.52	27.00	16.47	16.60	16.52	18.00
EDGE 2 Tx slots	22.95	22.76	22.59	24.00	16.95	16.76	16.59	18.00
EDGE 3 Tx slots	20.54	20.30	20.32	22.20	16.28	16.04	16.06	17.94
EDGE 4 Tx slots	19.64	19.70	19.41	21.00	16.64	16.70	16.41	18.00

ANT4 Full power/DSI4									
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		
TX Channel	9662	9800	9938		1537	1638	1738		
Rx Channel	1852.4	1880	1907.6		1712.4	1732.6	1752.6		
Frequency (MHz)									
3GPP Rel 99	AMR 12.2Kbps	23.99	23.82	23.73	25.00	24.22	24.27	24.31	25.00
3GPP Rel 99	RMC 12.2Kbps	23.84	24.21	23.74	25.00	24.24	24.28	24.33	25.00
3GPP Rel 6	HSDPA Subtest-1	23.05	23.07	22.90	24.00	23.20	23.13	23.06	24.00
3GPP Rel 6	HSDPA Subtest-2	22.55	22.60	22.31	24.00	22.68	22.66	22.55	24.00
3GPP Rel 6	HSDPA Subtest-3	23.02	22.74	22.90	23.50	23.20	23.10	23.11	23.50
3GPP Rel 6	HSDPA Subtest-4	23.07	23.09	22.90	23.50	23.19	23.13	23.06	23.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.99	22.98	22.80	24.00	23.11	23.07	23.00	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.49	22.51	22.23	24.00	22.62	22.60	22.47	24.00
3GPP Rel 6	DC-HSDPA Subtest-3	22.93	22.65	22.82	23.50	23.12	23.01	23.02	23.50
3GPP Rel 6	DC-HSDPA Subtest-4	22.98	23.01	22.81	23.50	23.11	23.08	22.97	23.50
3GPP Rel 6	HSUPA Subtest-1	22.95	23.03	22.84	24.00	23.08	23.06	23.00	24.00
3GPP Rel 6	HSUPA Subtest-2	20.99	21.02	20.87	22.00	21.16	21.05	21.02	22.00
3GPP Rel 6	HSUPA Subtest-3	21.97	22.00	21.88	23.00	22.10	22.06	22.04	23.00
3GPP Rel 6	HSUPA Subtest-4	20.98	21.05	20.83	22.00	21.14	21.08	20.98	22.00
3GPP Rel 6	HSUPA Subtest-6	23.00	23.00	22.90	24.00	23.10	23.00	23.00	24.00



ANT4_Band 2 Full Power / DSI 4										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch./F.Freq.	Power Hg./Ch./F.Freq.	Power Hg./F.Freq.	Tune-up Int. (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.10	24.25	24.44				
20	QPSK	1	60	23.81	23.96	23.84	25.5	0		
20	QPSK	1	99	23.20	23.33	23.13				
20	QPSK	50	0	23.32	23.51	23.45	24.5	1		
20	QPSK	50	50	23.24	23.07	23.18				
20	QPSK	100	0	23.26	23.27	23.34				
20	QPSK	100	24	23.20	23.51	23.45				
20	HQAM	1	49	23.42	23.47	23.38	24.5	1		
20	HQAM	1	99	23.50	23.27	23.34				
20	HQAM	50	0	23.22	23.24	23.16				
20	HQAM	50	24	23.21	23.21	23.15	23.5	2		
20	HQAM	100	0	23.26	23.22	23.21				
20	HQAM	100	24	23.20	23.28	23.21				
20	HQAM	1	0	22.51	22.46	22.45				
20	HQAM	1	60	22.30	22.36	22.28	23.5	2		
20	HQAM	1	99	22.32	22.32	22.37				
20	HQAM	50	0	21.25	21.25	21.12				
20	HQAM	50	24	21.20	21.28	21.13	22.5	3		
20	HQAM	100	0	21.28	21.30	21.15				
Channel										
Frequency (MHz)										
16	QPSK	1	0	24.20	24.17	24.09				
16	QPSK	1	37	24.14	24.04	24.03	25.5	0		
16	QPSK	1	99	23.81	23.81	23.81				
16	QPSK	36	0	23.32	23.26	23.12				
16	QPSK	36	20	23.20	23.26	23.26	24.5	1		
16	QPSK	75	0	23.32	23.32	23.12				
16	QPSK	75	0	23.32	23.29	23.12				
16	HQAM	1	0	23.49	23.32	23.40	24.5	1		
16	HQAM	1	74	23.44	23.34	23.35				
16	HQAM	36	0	22.34	22.23	22.34	23.5	2		
16	HQAM	36	20	22.32	22.32	22.29				
16	HQAM	75	0	22.42	22.43	22.37	23.5	2		
16	HQAM	75	0	22.42	22.43	22.37				
16	HQAM	1	37	22.34	22.36	22.32	23.5	2		
16	HQAM	1	74	22.34	22.34	22.34				
16	HQAM	36	0	21.34	21.23	21.12				
16	HQAM	36	20	21.32	21.31	21.22	22.5	3		
16	HQAM	75	0	21.38	21.31	21.15				
16	HQAM	75	0	21.38	21.31	21.15				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.16	24.10	24.06				
10	QPSK	1	25	24.13	23.97	24.05	25.5	0		
10	QPSK	1	49	24.15	23.89	24.10				
10	QPSK	25	0	23.32	23.22	23.19	24.5	1		
10	QPSK	25	12	23.33	23.12	23.14				
10	QPSK	25	25	23.21	23.00	23.08				
10	QPSK	50	0	23.33	23.08	23.10	24.5	1		
10	QPSK	50	0	23.33	23.08	23.10				
10	HQAM	1	0	23.53	23.50	23.47				
10	HQAM	1	25	23.56	23.35	23.41	24.5	1		
10	HQAM	1	49	23.49	23.15	23.11				
10	HQAM	25	0	22.34	22.21	22.12	23.5	2		
10	HQAM	25	12	22.33	22.33	22.18				
10	HQAM	50	0	22.34	22.32	22.18	23.5	2		
10	HQAM	50	0	22.34	22.32	22.18				
10	HQAM	1	0	22.36	22.36	22.18	23.5	2		
10	HQAM	1	25	22.34	22.37	22.29				
10	HQAM	1	49	22.30	22.28	22.28	23.5	2		
10	HQAM	1	60	22.32	22.30	22.23				
10	HQAM	25	0	22.28	22.20	22.23	22.5	3		
10	HQAM	25	25	22.16	21.75	22.00				
10	HQAM	75	0	21.80	21.82	21.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.20	24.06	24.02				
5	QPSK	1	12	24.12	23.95	24.01	25.5	0		
5	QPSK	1	24	24.20	23.83	24.15				
5	QPSK	12	0	23.34	23.11	23.13	24.5	1		
5	QPSK	12	0	23.34	23.06	23.16				
5	QPSK	12	13	23.34	23.00	22.87				
5	QPSK	25	0	23.30	23.00	22.87	24.5	1		
5	QPSK	25	0	23.32	23.17	23.31				
5	HQAM	1	12	23.51	23.30	23.11	24.5	1		
5	HQAM	1	24	23.50	23.29	23.12				
5	HQAM	12	0	22.36	22.26	22.15	23.5	2		
5	HQAM	12	7	22.38	22.28	22.16				
5	HQAM	25	0	22.37	22.27	22.07	23.5	2		
5	HQAM	25	0	22.35	22.05	22.07				
5	HQAM	1	0	23.25	23.05	23.07	23.5	2		
5	HQAM	1	12	23.27	23.07	23.11				
5	HQAM	1	24	23.23	22.90	23.12				
5	HQAM	12	0	22.14	21.97	21.88	22.5	3		
5	HQAM	12	7	22.16	21.97	21.84				
5	HQAM	12	13	22.13	21.84	22.03				
5	HQAM	25	0	22.08	22.03	21.88	22.5	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.14	24.04	23.99				
3	QPSK	1	8	24.21	24.05	23.78	25.5	0		
3	QPSK	1	14	24.17	23.89	24.00				
3	QPSK	8	0	23.26	23.22	22.80				
3	QPSK	8	4	23.27	23.04	22.78	24.5	1		
3	QPSK	16	0	23.26	23.14	22.86				
3	QPSK	16	0	23.26	23.15	22.76				
3	HQAM	1	14	23.51	23.24	23.04	24.5	1		
3	HQAM	8	0	22.27	22.32	22.07	23.5	2		
3	HQAM	8	4	22.42	22.34	21.98				
3	HQAM	1	7	22.36	22.31	21.96	23.5	2		
3	HQAM	1	14	22.33	22.07	22.11				
3	HQAM	8	0	21.13	21.10	22.86	23.5	2		
3	HQAM	8	4	22.09	22.00	21.87	22.5	3		
3	HQAM	16	0	22.00	22.10	21.87				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.05	24.05	24.15				
14	QPSK	1	3	24.15	24.01	24.01	25.5	0		
14	QPSK	1	5	24.08	23.86	23.81				
14	QPSK	3	0	24.10	23.99	24.04				
14	QPSK	3	1	24.14	23.94	23.99				
14	QPSK	6	0	23.25	23.01	23.13	24.5	1		
14	HQAM	1	0	23.44	23.24	23.42				
14	HQAM	1	14	23.47	23.26	23.35	24.5	1		
14	HQAM	3	0	23.40	23.18	23.22				
14	HQAM	3	3	23.21	23.04	23.07	23.5	2		
14	HQAM	6	0	22.20	22.24	22.41				
14	HQAM	6	0	22.15	22.14	22.39	23.5	2		
14	HQAM	1	3	23.28	22.93	22.93				
14	HQAM	3	0	23.03	22.84	23.04	23.5	2		
14	HQAM	3	1	23.03	22.91	23.04				
14	HQAM	3	3	22.98	22.90	22.79	22.5	3		
14	HQAM	6	0	22.09	22.01	22.04	22.5	3		

ANT4_Band 4 Full Power / DSI 4										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch./F.Freq.	Power Hg./Ch./F.Freq.	Power Hg./F.Freq.	Tune-up Int. (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.28	24.31	24.25				
20	QPSK	1	60	24.36	24.44	24.44	25.5	0		
20	QPSK	1	99	23.95	23.95	23.82				
20	QPSK	50	0	23.35	23.39	23.20	24.5	1		
20	QPSK	50	24	23.34	23.13	23.06				
20	QPSK	100	0	23.26	23.30	23.18				
20	QPSK	100	24	23.24	23.23	23.16				
20	HQAM	1	49	23.47	23.41	23.37	24.5	1		
20	HQAM	1	99	23.41	23.24	23.34				
20	HQAM	50	0	23.34	23.33	23.47				
20	HQAM	50	24	23.28	22.27	22.08	23.5	2		
20	HQAM	100	0	22.22	22.20	22.15				



ANT4_Band 38 Full Power / 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	24.42	24.55	24.43	25.5	0		
20	QPSK	1	49	24.48	24.46	24.48				
20	QPSK	1	99	24.47	24.50	24.45				
20	QPSK	50	0	23.54	23.68	23.54	24.5	1		
20	QPSK	50	24	23.64	23.60	23.55				
20	QPSK	50	50	23.65	23.64	23.62				
20	QPSK	100	0	23.60	23.63	23.54	24.5	1		
20	16QAM	1	0	23.55	23.55	23.56				
20	16QAM	1	49	23.56	23.54	23.57				
20	16QAM	1	99	23.62	23.60	23.61	23.5	2		
20	16QAM	50	0	22.57	22.60	22.58				
20	16QAM	50	24	22.68	22.69	22.58				
20	16QAM	50	50	22.69	22.67	22.63	23.5	2		
20	16QAM	100	0	22.65	22.65	22.56				
20	84QAM	1	0	22.18	22.11	22.20				
20	84QAM	1	49	22.04	22.08	22.08	23.5	2		
20	84QAM	1	99	22.23	22.09	22.29				
20	84QAM	50	0	20.54	20.52	20.51				
20	84QAM	50	24	20.62	20.62	20.53	22.5	3		
20	84QAM	50	50	20.58	20.60	20.58				
20	84QAM	100	0	20.69	20.70	20.58				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.41	24.41	24.39	25.5	0		
15	QPSK	1	37	24.41	24.43	24.37				
15	QPSK	1	74	24.42	24.43	24.41				
15	QPSK	36	0	23.53	23.54	23.53	24.5	1		
15	QPSK	36	20	23.64	23.62	23.58				
15	QPSK	36	39	23.61	23.61	23.59				
15	QPSK	75	0	23.64	23.65	23.60	24.5	1		
15	16QAM	1	0	23.59	23.57	23.59				
15	16QAM	1	37	23.38	23.44	23.43				
15	16QAM	1	74	23.62	23.62	23.61	23.5	2		
15	16QAM	36	0	22.54	22.53	22.50				
15	16QAM	36	20	22.57	22.59	22.57				
15	16QAM	36	39	22.59	22.60	22.57	23.5	2		
15	16QAM	75	0	22.66	22.66	22.62				
15	84QAM	1	0	22.16	22.02	22.05				
15	84QAM	1	37	22.05	22.09	22.08	23.5	2		
15	84QAM	1	74	22.08	22.21	22.18				
15	84QAM	36	0	20.56	20.56	20.52				
15	84QAM	36	20	20.62	20.63	20.60	22.5	3		
15	84QAM	36	39	20.63	20.64	20.61				
15	84QAM	75	0	20.63	20.65	20.64				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	24.48	24.46	24.42	25.5	0		
10	QPSK	1	25	24.49	24.49	24.48				
10	QPSK	1	49	24.52	24.54	24.47				
10	QPSK	25	0	23.53	23.53	23.49	24.5	1		
10	QPSK	25	12	23.61	23.63	23.52				
10	QPSK	25	25	23.63	23.62	23.61				
10	QPSK	50	0	23.63	23.64	23.54	24.5	1		
10	16QAM	1	0	23.62	23.61	23.59				
10	16QAM	1	25	23.61	23.64	23.60				
10	16QAM	1	49	23.67	23.59	23.60	23.5	2		
10	16QAM	25	0	22.51	22.55	22.51				
10	16QAM	25	12	22.62	22.62	22.56				
10	16QAM	25	25	22.60	22.62	22.59	23.5	2		
10	16QAM	50	0	22.62	22.66	22.53				
10	84QAM	1	0	22.29	22.41	22.37				
10	84QAM	1	25	22.32	22.35	22.27	23.5	2		
10	84QAM	1	49	22.40	22.40	22.33				
10	84QAM	25	0	21.30	21.26	21.30				
10	84QAM	25	12	21.45	21.47	21.33	22.5	3		
10	84QAM	25	25	21.31	21.47	21.43				
10	84QAM	50	0	21.45	21.39	21.36				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	24.38	24.40	24.38	25.5	0		
5	QPSK	1	12	24.41	24.47	24.42				
5	QPSK	1	24	24.48	24.49	24.45				
5	QPSK	12	0	23.57	23.57	23.52	24.5	1		
5	QPSK	12	7	23.60	23.62	23.51				
5	QPSK	12	13	23.58	23.59	23.61				
5	QPSK	25	0	23.58	23.58	23.53	24.5	1		
5	16QAM	1	0	23.55	23.56	23.54				
5	16QAM	1	12	23.63	23.65	23.65				
5	16QAM	1	24	23.62	23.66	23.64	23.5	2		
5	16QAM	12	0	22.58	22.52	22.48				
5	16QAM	12	7	22.62	22.62	22.54				
5	16QAM	12	13	22.60	22.59	22.58	23.5	2		
5	16QAM	25	0	22.59	22.65	22.57				
5	84QAM	1	0	22.22	22.16	22.06				
5	84QAM	1	12	22.22	22.29	22.22	23.5	2		
5	84QAM	1	24	22.12	22.20	22.19				
5	84QAM	12	0	21.42	21.42	21.34				
5	84QAM	12	7	21.30	21.47	21.28	22.5	3		
5	84QAM	12	13	21.46	21.39	21.44				
5	84QAM	25	0	21.35	21.46	21.24				

ANT4_Band 41 Full Power / 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)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	24.74	24.44	24.53	24.53	24.49	25.5	0		
20	QPSK	1	49	24.61	24.41	24.45	24.45	24.37				
20	QPSK	1	99	24.58	24.41	24.55	24.53	24.40				
20	QPSK	50	0	23.84	23.52	23.55	23.54	23.57	24.5	1		
20	QPSK	50	24	23.82	23.61	23.65	23.65	23.54				
20	QPSK	50	50	23.78	23.60	23.63	23.62	23.52				
20	QPSK	100	0	23.80	23.60	23.63	23.60	23.52	24.5	1		
20	16QAM	1	0	23.73	23.55	23.63	23.70	23.63				
20	16QAM	1	49	23.69	23.50	23.55	23.57	23.50				
20	16QAM	1	99	23.75	23.50	23.65	23.68	23.51	23.5	2		
20	16QAM	50	0	22.85	22.57	22.58	22.57	22.60				
20	16QAM	50	24	22.85	22.63	22.65	22.65	22.58				
20	16QAM	50	50	22.82	22.63	22.68	22.67	22.55	23.5	2		
20	16QAM	100	0	22.83	22.62	22.67	22.62	22.56				
20	84QAM	1	0	22.32	22.13	22.20	22.11	22.30				
20	84QAM	1	49	22.34	22.08	22.22	22.10	22.12	23.5	2		
20	84QAM	1	99	22.30	22.05	22.28	22.15	22.01				
20	84QAM	50	0	21.58	21.23	21.34	21.30	21.35				
20	84QAM	50	24	21.55	21.30	21.50	21.48	21.34	22.5	3		
20	84QAM	50	50	21.61	21.40	21.48	21.45	21.25				
20	84QAM	100	0	21.66	21.53	21.48	21.46	21.34				
Channel				39725	40173	40620	41058	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	24.63	24.42	24.43	24.46	24.44	25.5	0		
15	QPSK	1	37	24.59	24.39	24.42	24.42	24.33				
15	QPSK	1	74	24.59	24.53	24.56	24.52	24.35				
15	QPSK	36	0	23.62	23.56	23.55	23.54	23.53	24.5	1		
15	QPSK	36	20	23.81	23.60	23.64	23.62	23.51				
15	QPSK	36	39	23.81	23.61	23.63	23.62	23.49				
15	QPSK	75	0	23.80	23.62	23.65	23.62	23.51	24.5	1		
15	16QAM	1	0	23.73	23.55	23.60	23.66	23.57				
15	16QAM	1	37	23.65	23.43	23.42	23.45	23.41				
15	16QAM	1	74	23.78	23.64	23.75	23.71	23.57	23.5	2		
15	16QAM	36	0	22.80	22.50	22.52	22.49	22.52				
15	16QAM	36	20	22.77	22.56	22.59	22.59	22.49				
15	16QAM	36	39	22.79	22.56	22.62	22.60	22.47	23			



ANT4	DSI 1/5			DSI 3			DSI 1/5			DSI 3							
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	
TX Channel	9262	9400	9538		9262	9400	9538		1312	1413	1513		1312	1413	1513		
Rx Channel	9662	9800	9938	9662	9800	9938	1537	1638	1738	1537	1638	1738					
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6					
3GPP Rel 99	AMR 12.2Kbps	21.30	21.32	21.29	22.00	23.33	23.35	23.31	24.00	20.37	20.35	20.24	21.00	23.37	23.39	23.26	24.00
3GPP Rel 99	RMC 12.2Kbps	21.32	21.33	21.30	22.00	23.34	23.37	23.33	24.00	20.37	20.34	20.38	21.00	23.39	23.35	23.40	24.00
3GPP Rel 6	HSDPA Subtest-1	20.38	20.35	20.29	21.00	22.01	22.07	21.93	23.00	19.38	19.45	19.33	20.00	22.18	22.09	22.03	23.00
3GPP Rel 6	HSDPA Subtest-2	20.35	20.35	20.31	21.00	21.57	21.61	21.29	23.00	19.37	19.39	19.32	20.00	21.73	21.64	21.55	23.00
3GPP Rel 6	HSDPA Subtest-3	19.67	19.88	19.79	20.50	22.04	21.71	21.86	22.50	18.89	18.86	18.85	19.50	22.17	22.08	22.14	22.50
3GPP Rel 6	HSDPA Subtest-4	19.88	19.87	19.80	20.50	22.04	22.08	21.86	22.50	18.91	18.89	18.82	19.50	22.21	22.15	22.07	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.33	20.31	20.25	21.00	21.99	21.99	21.78	23.00	19.34	19.41	19.29	20.00	22.06	22.06	22.00	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.30	20.30	20.28	21.00	21.47	21.53	21.19	23.00	19.33	19.35	19.28	20.00	21.60	21.59	21.47	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.83	19.84	19.74	20.50	21.91	21.64	21.84	22.50	18.84	18.82	18.81	19.50	22.09	22.05	22.01	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.84	19.83	19.75	20.50	21.93	22.04	21.80	22.50	18.87	18.85	18.78	19.50	22.13	22.12	21.99	22.50
3GPP Rel 6	HSUPA Subtest-1	20.28	20.28	20.24	21.00	21.92	22.03	21.82	23.00	19.30	19.29	19.21	20.00	22.09	22.07	21.96	23.00
3GPP Rel 6	HSUPA Subtest-2	18.32	18.30	18.28	19.00	19.95	20.01	19.83	21.00	17.33	17.35	17.20	18.00	20.20	20.05	20.01	21.00
3GPP Rel 6	HSUPA Subtest-3	19.27	19.27	19.25	20.00	20.93	21.03	20.88	22.00	18.30	18.31	18.21	19.00	21.10	21.04	21.04	22.00
3GPP Rel 6	HSUPA Subtest-4	18.26	18.28	18.25	19.00	20.02	20.09	19.86	21.00	17.35	17.32	17.25	18.00	20.17	20.05	19.94	21.00
3GPP Rel 6	HSUPA Subtest-5	20.30	20.30	20.20	21.00	22.00	21.95	21.87	23.00	19.30	19.30	19.20	20.00	22.06	22.00	22.00	23.00



ANT4_Band 2 DSI 1/5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq	Power Ch./F.Freq	Power Ch./F.Freq	Turn-up (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.43	20.51	20.39			21.5	0
20	QPSK	1	0	20.43	20.51	20.39				
20	QPSK	1	90	22.22	22.45	22.14				
20	QPSK	1	90	22.22	22.45	22.14				
20	QPSK	50	24	20.43	20.35	20.08			21.5	0
20	QPSK	50	24	20.43	20.35	20.08				
20	QPSK	50	50	22.22	22.30	22.24				
20	QPSK	100	0	22.22	22.30	22.24				
20	HQAM	1	0	20.37	20.31	20.36			21.5	0
20	HQAM	1	0	20.37	20.31	20.36				
20	HQAM	1	45	22.43	22.14	22.14				
20	HQAM	1	45	22.43	22.14	22.14				
20	HQAM	50	0	22.22	22.29	22.31				
20	HQAM	50	0	22.22	22.29	22.31				
20	HQAM	50	24	20.46	20.22	20.30			21.5	0
20	HQAM	50	24	20.46	20.22	20.30				
20	HQAM	100	0	22.46	22.17	22.14				
20	HQAM	100	0	22.46	22.17	22.14				
20	HQAM	1	45	22.51	22.05	22.16			21.5	0
20	HQAM	1	45	22.51	22.05	22.16				
20	HQAM	1	90	22.36	21.86	22.29				
20	HQAM	1	90	22.36	21.86	22.29				
20	HQAM	50	24	21.05	21.13	21.13			21.5	1
20	HQAM	50	24	21.05	21.13	21.13				
20	HQAM	50	50	22.56	21.12	21.28				
20	HQAM	100	0	21.28	21.12	21.19				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.78	18.60	18.125			MFR	
15	QPSK	1	0	18.78	18.60	18.125				
15	QPSK	1	37	20.13	20.16	20.23			21.5	0
15	QPSK	1	37	20.13	20.16	20.23				
15	QPSK	1	74	20.15	20.04	20.21				
15	QPSK	1	74	20.15	20.04	20.21				
15	QPSK	36	20	20.36	20.31	20.20			21.5	0
15	QPSK	36	20	20.36	20.31	20.20				
15	QPSK	36	36	22.23	22.31	22.22				
15	QPSK	36	36	22.23	22.31	22.22				
15	HQAM	1	0	20.29	20.13	20.29			21.5	0
15	HQAM	1	0	20.29	20.13	20.29				
15	HQAM	1	74	20.33	19.99	20.16				
15	HQAM	1	74	20.33	19.99	20.16				
15	HQAM	36	0	20.46	20.30	20.24			21.5	0
15	HQAM	36	0	20.46	20.30	20.24				
15	HQAM	36	36	22.34	22.34	22.31				
15	HQAM	36	36	22.34	22.34	22.31				
15	HQAM	75	0	20.33	20.27	20.18			21.5	0
15	HQAM	75	0	20.33	20.27	20.18				
15	HQAM	1	37	22.40	22.27	22.42			21.5	0
15	HQAM	1	37	22.40	22.27	22.42				
15	HQAM	1	74	22.45	22.23	22.34				
15	HQAM	1	74	22.45	22.23	22.34				
15	HQAM	36	0	21.28	21.21	21.18			21.5	0
15	HQAM	36	0	21.28	21.21	21.18				
15	HQAM	75	0	21.33	21.27	21.14			21.5	1
15	HQAM	75	0	21.33	21.27	21.14				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.28	20.13	20.12			MFR	
10	QPSK	1	0	20.28	20.13	20.12				
10	QPSK	1	25	22.13	22.14	21.86			21.5	0
10	QPSK	1	25	22.13	22.14	21.86				
10	QPSK	25	0	22.22	22.20	22.05				
10	QPSK	25	0	22.22	22.20	22.05				
10	QPSK	25	12	22.41	22.26	22.29			21.5	0
10	QPSK	25	12	22.41	22.26	22.29				
10	QPSK	50	0	20.34	20.21	20.08				
10	QPSK	50	0	20.34	20.21	20.08				
10	HQAM	1	0	20.36	20.21	20.08			21.5	0
10	HQAM	1	0	20.36	20.21	20.08				
10	HQAM	1	45	22.31	22.34	22.30				
10	HQAM	1	45	22.31	22.34	22.30				
10	HQAM	25	0	22.36	22.23	22.04			21.5	0
10	HQAM	25	0	22.36	22.23	22.04				
10	HQAM	25	12	22.37	22.21	22.28				
10	HQAM	25	12	22.37	22.21	22.28				
10	HQAM	50	0	22.38	22.18	22.14				
10	HQAM	50	0	22.38	22.18	22.14				
10	HQAM	1	25	22.32	22.19	22.09			21.5	0
10	HQAM	1	25	22.32	22.19	22.09				
10	HQAM	25	0	21.30	21.12	21.01			21.5	0
10	HQAM	25	0	21.30	21.12	21.01				
10	HQAM	25	12	21.41	21.28	21.24			21.5	1
10	HQAM	25	12	21.41	21.28	21.24				
10	HQAM	50	0	21.33	21.19	21.09				
10	HQAM	50	0	21.33	21.19	21.09				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.21	20.01	20.00			MFR	
5	QPSK	1	0	20.21	20.01	20.00				
5	QPSK	1	12	22.13	22.23	22.20			21.5	0
5	QPSK	1	12	22.13	22.23	22.20				
5	QPSK	12	0	22.28	22.23	22.18				
5	QPSK	12	0	22.28	22.23	22.18				
5	QPSK	12	7	22.27	22.25	22.25			21.5	0
5	QPSK	12	7	22.27	22.25	22.25				
5	QPSK	25	0	22.24	22.20	22.28				
5	QPSK	25	0	22.24	22.20	22.28				
5	HQAM	1	0	20.24	20.13	20.05			21.5	0
5	HQAM	1	0	20.24	20.13	20.05				
5	HQAM	1	24	22.33	22.28	22.29				
5	HQAM	1	24	22.33	22.28	22.29				
5	HQAM	12	0	22.35	22.24	22.25			21.5	0
5	HQAM	12	0	22.35	22.24	22.25				
5	HQAM	12	13	22.30	22.24	22.28				
5	HQAM	12	13	22.30	22.24	22.28				
5	HQAM	1	0	20.38	20.24	20.31			21.5	0
5	HQAM	1	0	20.38	20.24	20.31				
5	HQAM	12	0	20.24	20.25	20.19				
5	HQAM	12	0	20.24	20.25	20.19				
5	HQAM	12	7	20.22	20.21	20.31			21.5	1
5	HQAM	12	7	20.22	20.21	20.31				
5	HQAM	12	13	20.32	20.30	20.21				
5	HQAM	12	13	20.32	20.30	20.21				
5	HQAM	25	0	20.28	20.28	20.17			21.5	0
5	HQAM	25	0	20.28	20.28	20.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.11	20.08	20.13			MFR	
3	QPSK	1	0	20.11	20.08	20.13				
3	QPSK	1	14	20.18	20.11	20.08			21.5	0
3	QPSK	1	14	20.18	20.11	20.08				
3	QPSK	8	0	20.28	20.18	20.17				
3	QPSK	8	0	20.28	20.18	20.17				
3	QPSK	8	7	20.22	20.17	20.14			21.5	0
3	QPSK	8	7	20.22	20.17	20.14				
3	HQAM	1	0	20.20	20.24	20.16				
3	HQAM	1	0	20.20	20.24	20.16				
3	HQAM	1	8	20.41	20.34	20.28			21.5	0
3	HQAM	1	8	20.41	20.34	20.28				
3	HQAM	1	14	20.22	20.40	20.39				
3	HQAM	1	14	20.22	20.40	20.39				
3	HQAM	8	0	20.30	20.16	20.29			21.5	0
3	HQAM	8	0	20.30	20.16	20.29				
3	HQAM	8	4	20.32	20.29	20.24				
3	HQAM	8	4	20.32	20.29	20.24				
3	HQAM	1	0	20.28	20.21	20.22			21.5	0



ANT4_Band 7 DSI1/3/5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (ms)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.49	16.52	16.72	17.5	0		
20	QPSK	1	49	16.44	16.57	16.71	17.5	0		
20	QPSK	1	99	16.44	16.72	16.87	17.5	0		
20	QPSK	50	0	16.51	16.71	16.89	17.5	0		
20	QPSK	50	24	16.55	16.87	16.71	17.5	0		
20	QPSK	50	50	16.50	16.67	16.69	17.5	0		
20	QPSK	100	0	16.54	16.76	16.83	17.5	0		
20	HQAM	1	49	16.50	16.77	16.71	17.5	0		
20	HQAM	1	99	16.52	16.74	16.82	17.5	0		
20	HQAM	50	0	16.36	16.48	16.58	17.5	0		
20	HQAM	50	24	16.35	16.98	16.71	17.5	0		
20	HQAM	50	50	16.50	16.79	16.70	17.5	0		
20	HQAM	100	0	16.44	16.58	16.85	17.5	0		
20	EQAM	1	49	16.52	16.73	16.79	17.5	0		
20	EQAM	1	99	16.62	16.45	16.79	17.5	0		
20	EQAM	50	0	16.36	16.54	16.67	17.5	0		
20	EQAM	50	24	16.31	16.87	16.72	17.5	0		
20	EQAM	50	50	16.45	16.65	16.67	17.5	0		
20	EQAM	100	0	16.43	16.60	16.60	17.5	0		
Channel										
Frequency (MHz)										
16	QPSK	1	0	20.75	20.95	20.95	17.5	0		
16	QPSK	1	37	16.37	16.52	16.53	17.5	0		
16	QPSK	1	74	16.50	16.36	16.80	17.5	0		
16	QPSK	36	0	16.52	16.60	16.74	17.5	0		
16	QPSK	36	20	16.68	16.64	16.67	17.5	0		
16	QPSK	36	39	16.65	16.84	16.72	17.5	0		
16	QPSK	75	0	16.43	16.68	16.81	17.5	0		
16	HQAM	1	0	16.76	16.73	16.82	17.5	0		
16	HQAM	1	49	16.62	16.79	16.79	17.5	0		
16	HQAM	1	74	16.68	16.60	16.79	17.5	0		
16	HQAM	36	0	16.51	16.71	16.69	17.5	0		
16	HQAM	36	39	16.62	16.73	16.77	17.5	0		
16	HQAM	75	0	16.66	16.45	16.70	17.5	0		
16	EQAM	1	0	16.66	16.60	16.74	17.5	0		
16	EQAM	1	37	16.44	16.75	16.70	17.5	0		
16	EQAM	1	74	16.28	16.29	16.63	17.5	0		
16	EQAM	36	0	16.57	16.50	16.66	17.5	0		
16	EQAM	36	20	16.71	16.59	16.79	17.5	0		
16	EQAM	36	39	16.61	16.69	16.69	17.5	0		
16	EQAM	75	0	16.61	16.57	16.63	17.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.55	16.70	16.55	17.5	0		
10	QPSK	1	28	16.43	16.36	16.39	17.5	0		
10	QPSK	1	49	16.42	16.28	16.40	17.5	0		
10	QPSK	25	0	16.55	16.61	16.57	17.5	0		
10	QPSK	25	12	16.72	16.75	16.72	17.5	0		
10	QPSK	25	25	16.60	16.66	16.76	17.5	0		
10	QPSK	50	0	16.55	16.65	16.70	17.5	0		
10	HQAM	1	0	16.55	16.67	16.70	17.5	0		
10	HQAM	1	25	16.52	16.70	16.70	17.5	0		
10	HQAM	1	49	16.40	16.57	16.61	17.5	0		
10	HQAM	25	0	16.65	16.69	16.76	17.5	0		
10	HQAM	25	12	16.57	16.68	16.59	17.5	0		
10	HQAM	25	25	16.65	16.60	16.61	17.5	0		
10	HQAM	50	0	16.42	16.54	16.60	17.5	0		
10	HQAM	50	12	16.75	16.67	16.79	17.5	0		
10	EQAM	1	0	16.55	16.38	16.70	17.5	0		
10	EQAM	1	49	16.62	16.73	16.68	17.5	0		
10	EQAM	25	0	16.54	16.76	16.61	17.5	0		
10	EQAM	25	12	16.62	16.68	16.61	17.5	0		
10	EQAM	25	25	16.70	16.63	16.76	17.5	0		
10	EQAM	50	0	16.48	16.61	16.72	17.5	0		
Channel										
Frequency (MHz)										
6	QPSK	1	0	16.37	16.40	16.69	17.5	0		
6	QPSK	1	12	16.42	16.78	16.46	17.5	0		
6	QPSK	1	25	16.66	16.49	16.61	17.5	0		
6	QPSK	12	0	16.74	16.55	16.68	17.5	0		
6	QPSK	12	7	16.60	16.58	16.77	17.5	0		
6	QPSK	12	14	16.74	16.68	16.70	17.5	0		
6	QPSK	25	0	16.71	16.59	16.72	17.5	0		
6	HQAM	1	0	16.60	16.76	16.77	17.5	0		
6	HQAM	1	12	16.71	16.50	16.61	17.5	0		
6	HQAM	1	24	16.70	16.73	16.67	17.5	0		
6	HQAM	12	0	16.71	16.68	16.76	17.5	0		
6	HQAM	12	7	16.76	16.64	16.70	17.5	0		
6	HQAM	12	14	16.72	16.79	16.81	17.5	0		
6	HQAM	25	0	16.66	16.62	16.70	17.5	0		
6	EQAM	1	0	16.43	16.64	16.68	17.5	0		
6	EQAM	1	12	16.65	16.69	16.74	17.5	0		
6	EQAM	1	24	16.60	16.79	16.69	17.5	0		
6	EQAM	12	0	16.54	16.60	16.66	17.5	0		
6	EQAM	12	7	16.76	16.55	16.67	17.5	0		
6	EQAM	12	14	16.58	16.59	16.70	17.5	0		
6	EQAM	25	0	16.74	16.64	16.76	17.5	0		

ANT4_Band 66 DSI 1/5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (ms)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.41	17.53	17.41	18.5	0		
20	QPSK	1	50	17.53	17.23	17.20	18.5	0		
20	QPSK	50	0	17.43	17.28	17.18	18.5	0		
20	QPSK	50	24	17.43	17.17	17.13	18.5	0		
20	HQAM	1	0	17.49	17.25	17.46	18.5	0		
20	HQAM	1	49	17.34	17.54	17.47	18.5	0		
20	HQAM	1	99	17.52	17.43	17.18	18.5	0		
20	HQAM	50	0	17.41	17.44	17.22	18.5	0		
20	HQAM	50	24	17.41	17.52	17.12	18.5	0		
20	HQAM	50	50	17.29	17.24	17.09	18.5	0		
20	HQAM	100	0	17.43	17.37	17.26	18.5	0		
20	EQAM	1	49	17.45	17.32	17.24	18.5	0		
20	EQAM	1	99	17.33	17.47	17.44	18.5	0		
20	EQAM	50	0	17.41	17.35	17.26	18.5	0		
20	EQAM	50	24	17.45	17.45	17.11	18.5	0		
20	EQAM	50	50	17.27	17.23	17.03	18.5	0		
20	EQAM	100	0	17.33	17.21	17.22	18.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.15	17.45	17.21	18.5	0		
15	QPSK	1	37	17.21	17.22	17.11	18.5	0		
15	QPSK	1	74	17.25	17.22	17.00	18.5	0		
15	QPSK	36	0	17.30	17.32	17.29	18.5	0		
15	QPSK	36	20	17.30	17.37	17.28	18.5	0		
15	QPSK	36	39	17.28	17.34	17.08	18.5	0		
15	HQAM	1	0	17.32	17.45	17.39	18.5	0		
15	HQAM	1	49	17.32	17.40	17.29	18.5	0		
15	HQAM	1	74	17.41	17.07	17.27	18.5	0		
15	HQAM	36	0	17.41	17.38	17.29	18.5	0		
15	HQAM	36	20	17.34	17.46	17.26	18.5	0		
15	HQAM	36	39	17.23	17.34	17.14	18.5	0		
15	HQAM	75	0	17.31	17.30	17.16	18.5	0		
15	EQAM	1	0	17.34	17.41	17.34	18.5	0		
15	EQAM	1	37	17.29	17.36	17.48	18.5	0		
15	EQAM	1	74	17.30	17.38	17.59	18.5	0		
15	EQAM	36	0	17.37	17.37	17.30	18.5	0		
15	EQAM	36	20	17.44	17.34	17.34	18.5	0		
15	EQAM	36	39	17.31	17.36	17.22	18.5	0		
15	EQAM	75	0	17.31	17.36	17.22	18.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.18	17.06	17.05	18.5	0		
10	QPSK									



ANT4_Band 38 DSI1/5									
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				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.47	20.83	20.82	21.5	0	
20	QPSK	1	49	20.74	20.82	20.70			
20	QPSK	1	99	20.76	20.80	20.75			
20	QPSK	50	0	20.63	20.79	20.65	21.5	0	
20	QPSK	50	24	20.71	20.77	20.71			
20	QPSK	50	50	20.69	20.78	20.76			
20	QPSK	100	0	20.70	20.75	20.68	21.5	0	
20	16QAM	1	0	20.70	20.64	20.78			
20	16QAM	1	49	20.75	20.71	20.78			
20	16QAM	1	99	20.77	20.77	20.75	21.5	0	
20	16QAM	50	0	20.66	20.70	20.68			
20	16QAM	50	24	20.71	20.77	20.77			
20	16QAM	50	50	20.76	20.74	20.78	21.5	0	
20	16QAM	100	0	20.79	20.76	20.73			
20	64QAM	1	0	20.46	20.46	20.44			
20	64QAM	1	49	20.38	20.47	20.54	21.5	0	
20	64QAM	1	99	20.55	20.59	20.58			
20	64QAM	50	0	20.54	20.52	20.54			
20	64QAM	50	24	20.57	20.65	20.54	21.5	0	
20	64QAM	50	50	20.30	20.23	20.49			
20	64QAM	100	0	20.29	20.46	20.66			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.56	20.64	20.64	21.5	0	
15	QPSK	1	37	20.61	20.61	20.62			
15	QPSK	1	74	20.64	20.59	20.58			
15	QPSK	36	0	20.54	20.50	20.58	21.5	0	
15	QPSK	36	20	20.64	20.65	20.57			
15	QPSK	36	39	20.62	20.61	20.60			
15	QPSK	75	0	20.62	20.68	20.59	21.5	0	
15	16QAM	1	0	20.51	20.60	20.61			
15	16QAM	1	37	20.44	20.58	20.48			
15	16QAM	1	74	20.58	20.64	20.60	21.5	0	
15	16QAM	36	0	20.53	20.50	20.55			
15	16QAM	36	20	20.60	20.58	20.58			
15	16QAM	36	39	20.52	20.60	20.61	21.5	0	
15	16QAM	75	0	20.62	20.66	20.65			
15	64QAM	1	0	20.27	20.33	20.36			
15	64QAM	1	37	20.32	20.45	20.41	21.5	0	
15	64QAM	1	74	20.37	20.46	20.39			
15	64QAM	36	0	20.40	20.47	20.42			
15	64QAM	36	20	20.56	20.57	20.48	21.5	0	
15	64QAM	36	39	20.49	20.51	20.52			
15	64QAM	75	0	20.56	20.31	20.33			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675	2695	2615			
10	QPSK	1	0	20.66	20.71	20.72	21.5	0	
10	QPSK	1	25	20.70	20.79	20.70			
10	QPSK	1	49	20.71	20.79	20.74			
10	QPSK	25	0	20.46	20.61	20.58	21.5	0	
10	QPSK	25	12	20.62	20.66	20.67			
10	QPSK	25	25	20.63	20.73	20.61			
10	QPSK	50	0	20.61	20.73	20.66	21.5	0	
10	16QAM	1	0	20.57	20.79	20.75			
10	16QAM	1	25	20.57	20.70	20.70			
10	16QAM	1	49	20.70	20.72	20.69	21.5	0	
10	16QAM	25	0	20.57	20.61	20.58			
10	16QAM	25	12	20.66	20.75	20.69			
10	16QAM	25	25	20.67	20.67	20.61	21.5	0	
10	16QAM	50	0	20.61	20.71	20.73			
10	64QAM	1	0	20.48	20.60	20.57			
10	64QAM	1	25	20.46	20.62	20.47	21.5	0	
10	64QAM	1	49	20.52	20.63	20.56			
10	64QAM	25	0	20.37	20.47	20.48			
10	64QAM	25	12	20.54	20.57	20.54	21.5	0	
10	64QAM	25	25	20.50	20.65	20.52			
10	64QAM	50	0	20.55	20.35	20.29			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	20.60	20.70	20.59	21.5	0	
5	QPSK	1	12	20.64	20.70	20.66			
5	QPSK	1	24	20.63	20.72	20.79			
5	QPSK	12	0	20.51	20.52	20.56	21.5	0	
5	QPSK	12	7	20.58	20.63	20.66			
5	QPSK	12	13	20.59	20.71	20.61			
5	QPSK	25	0	20.60	20.66	20.57	21.5	0	
5	16QAM	1	0	20.47	20.69	20.60			
5	16QAM	1	12	20.63	20.69	20.59			
5	16QAM	1	24	20.66	20.72	20.70	21.5	0	
5	16QAM	12	0	20.54	20.58	20.63			
5	16QAM	12	7	20.52	20.69	20.62			
5	16QAM	12	13	20.55	20.59	20.62	21.5	0	
5	16QAM	25	0	20.65	20.74	20.64			
5	64QAM	1	0	20.36	20.47	20.35			
5	64QAM	1	12	20.33	20.54	20.41	21.5	0	
5	64QAM	1	24	20.38	20.47	20.50			
5	64QAM	12	0	20.36	20.54	20.49			
5	64QAM	12	7	20.41	20.58	20.51	21.5	0	
5	64QAM	12	13	20.44	20.49	20.53			
5	64QAM	25	0	20.46	20.50	20.43			

ANT4_Band 38 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	22.49	22.80	22.79	23.5	0	
20	QPSK	1	49	22.79	22.79	22.74			
20	QPSK	1	99	22.76	22.79	22.78			
20	QPSK	50	0	22.61	22.79	22.69	23.5	0	
20	QPSK	50	24	22.72	22.78	22.66			
20	QPSK	50	50	22.72	22.74	22.73			
20	QPSK	100	0	22.70	22.74	22.66	23.5	0	
20	16QAM	1	0	22.68	22.63	22.77			
20	16QAM	1	49	22.70	22.69	22.76			
20	16QAM	1	99	22.74	22.77	22.71	23.5	0	
20	16QAM	50	0	22.68	22.73	22.73			
20	16QAM	50	24	22.73	22.73	22.72			
20	16QAM	50	50	22.76	22.70	22.79	23.5	0	
20	16QAM	100	0	22.77	22.73	22.70			
20	64QAM	1	0	22.47	22.42	22.48			
20	64QAM	1	49	22.43	22.47	22.52	23.5	0	
20	64QAM	1	99	22.51	22.61	22.60			
20	64QAM	50	0	21.01	21.06	21.07			
20	64QAM	50	24	21.10	21.16	21.06	22.5	1	
20	64QAM	50	50	20.78	20.74	21.03			
20	64QAM	100	0	20.83	20.92	21.14			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.54	22.62	22.60	23.5	0	
15	QPSK	1	37	22.61	22.66	22.57			
15	QPSK	1	74	22.63	22.64	22.61			
15	QPSK	36	0	22.51	22.54	22.54	23.5	0	
15	QPSK	36	20	22.60	22.63	22.58			
15	QPSK	36	39	22.60	22.61	22.56			
15	QPSK	75	0	22.59	22.65	22.60	23.5	0	
15	16QAM	1	0	22.55	22.60	22.58			
15	16QAM	1	37	22.48	22.56	22.47			
15	16QAM	1	74	22.60	22.67	22.64	23.5	0	
15	16QAM	36	0	22.50	22.55	22.51			
15	16QAM	36	20	22.56	22.60	22.56			
15	16QAM	36	39	22.55	22.62	22.57	23.5	0	
15	16QAM	75	0	22.63	22.65	22.64			
15	64QAM	1	0	22.28	22.35	22.37			
15	64QAM	1	37	22.30	22.41	22.42	23.5	0	
15	64QAM	1	74	22.35	22.43	22.36			
15	64QAM	36	0	20.92	20.98	20.96			
15	64QAM	36	20	21.01	21.03	21.03	22.5	1	
15	64QAM	36	39	21.00	21.04	21.02			
15	64QAM	75	0	21.01	20.78	20.84			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675	2695	2615			
10	QPSK	1	0	22.68	22.71	22.70	23.5	0	
10	QPSK	1	25	22.65	22.75	22.67			
10	QPSK	1	49	22.75	22.76	22.75			
10	QPSK	25	0	22.48	22.60	22.55	23.5	0	
10	QPSK	25	12	22.58	22.68	22.64			
10	QPSK	25	25	22.60	22.69	22.65			
10	QPSK	50	0	22.60	22.70	22.63	23.5	0	
10	16QAM	1	0	22.62	22.74	22.70			
10									



ANT4_Band 41 DSI 1/5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.88	20.50	20.79	20.61	20.63	21.5	0
20	QPSK	1	49	20.74	20.61	20.67	20.66	20.55		
20	QPSK	1	99	20.68	20.57	20.81	20.78	20.60	21.5	0
20	QPSK	50	0	20.81	20.42	20.54	20.48	20.52		
20	QPSK	50	24	20.74	20.47	20.63	20.54	20.48	21.5	0
20	QPSK	50	50	20.70	20.53	20.70	20.62	20.43		
20	QPSK	100	0	20.79	20.52	20.63	20.52	20.52	21.5	0
20	16QAM	1	0	20.75	20.45	20.67	20.59	20.43		
20	16QAM	1	49	20.67	20.45	20.65	20.58	20.40	21.5	0
20	16QAM	1	99	20.62	20.48	20.72	20.69	20.45		
20	16QAM	50	0	20.76	20.49	20.62	20.49	20.51	21.5	0
20	16QAM	50	24	20.72	20.59	20.76	20.54	20.51		
20	16QAM	50	50	20.75	20.60	20.76	20.55	20.46	21.5	0
20	16QAM	100	0	20.72	20.57	20.67	20.57	20.52		
20	64QAM	1	0	20.69	20.45	20.56	20.70	20.71	21.5	0
20	64QAM	1	49	20.57	20.38	20.58	20.43	20.67		
20	64QAM	1	99	20.58	20.42	20.63	20.44	20.57	21.5	0
20	64QAM	50	0	20.71	20.55	20.69	20.70	20.75		
20	64QAM	50	24	20.73	20.67	20.67	20.64	20.73	21.5	0
20	64QAM	50	50	20.65	20.71	20.79	20.52	20.43		
20	64QAM	100	0	20.48	20.58	20.69	20.77	20.55		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.71	20.41	20.56	20.52	20.47	21.5	0
15	QPSK	1	37	20.66	20.36	20.54	20.56	20.39		
15	QPSK	1	74	20.68	20.51	20.68	20.65	20.47	21.5	0
15	QPSK	36	0	20.68	20.30	20.52	20.41	20.45		
15	QPSK	36	20	20.67	20.45	20.51	20.40	20.36	21.5	0
15	QPSK	36	39	20.60	20.44	20.63	20.47	20.29		
15	QPSK	75	0	20.64	20.37	20.62	20.38	20.31	21.5	0
15	16QAM	1	0	20.68	20.46	20.56	20.50	20.42		
15	16QAM	1	37	20.46	20.37	20.45	20.34	20.42	21.5	0
15	16QAM	1	74	20.60	20.59	20.71	20.65	20.53		
15	16QAM	36	0	20.64	20.32	20.43	20.41	20.42	21.5	0
15	16QAM	36	20	20.56	20.34	20.53	20.38	20.29		
15	16QAM	36	39	20.61	20.43	20.52	20.40	20.36	21.5	0
15	16QAM	75	0	20.70	20.45	20.64	20.47	20.46		
15	64QAM	1	0	20.58	20.43	20.55	20.57	20.43	21.5	0
15	64QAM	1	37	20.55	20.25	20.59	20.47	20.45		
15	64QAM	1	74	20.55	20.42	20.63	20.54	20.53	21.5	0
15	64QAM	36	0	20.65	20.33	20.51	20.38	20.38		
15	64QAM	36	20	20.61	20.36	20.58	20.44	20.40	21.5	0
15	64QAM	36	39	20.61	20.37	20.51	20.52	20.31		
15	64QAM	75	0	20.37	20.26	20.18	20.15	20.15		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.81	20.43	20.63	20.58	20.45	21.5	0
10	QPSK	1	25	20.72	20.55	20.69	20.70	20.50		
10	QPSK	1	49	20.76	20.58	20.71	20.68	20.41	21.5	0
10	QPSK	25	0	20.69	20.50	20.45	20.49	20.40		
10	QPSK	25	12	20.73	20.48	20.60	20.44	20.37	21.5	0
10	QPSK	25	25	20.64	20.36	20.59	20.51	20.34		
10	QPSK	50	0	20.68	20.50	20.62	20.55	20.34	21.5	0
10	16QAM	1	0	20.77	20.50	20.56	20.49	20.52		
10	16QAM	1	25	20.76	20.47	20.70	20.54	20.40	21.5	0
10	16QAM	1	49	20.72	20.39	20.69	20.68	20.33		
10	16QAM	25	0	20.69	20.37	20.59	20.44	20.40	21.5	0
10	16QAM	25	12	20.67	20.49	20.66	20.48	20.40		
10	16QAM	25	25	20.63	20.38	20.62	20.52	20.40	21.5	0
10	16QAM	50	0	20.66	20.40	20.61	20.49	20.48		
10	64QAM	1	0	20.64	20.29	20.46	20.45	20.37	21.5	0
10	64QAM	1	25	20.59	20.34	20.53	20.45	20.38		
10	64QAM	1	49	20.67	20.38	20.56	20.46	20.30	21.5	0
10	64QAM	25	0	20.63	20.42	20.47	20.37	20.43		
10	64QAM	25	12	20.66	20.41	20.61	20.48	20.43	21.5	0
10	64QAM	25	25	20.66	20.45	20.53	20.51	20.38		
10	64QAM	50	0	20.52	20.13	20.18	20.14	20.11		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.56	20.34	20.34	20.44	20.31	21.5	0
5	QPSK	1	12	20.53	20.38	20.50	20.47	20.30		
5	QPSK	1	24	20.56	20.30	20.52	20.39	20.36	21.5	0
5	QPSK	12	0	20.70	20.48	20.48	20.44	20.37		
5	QPSK	12	7	20.78	20.40	20.69	20.59	20.37	21.5	0
5	QPSK	12	13	20.76	20.42	20.59	20.54	20.37		
5	QPSK	25	0	20.64	20.39	20.63	20.56	20.34	21.5	0
5	16QAM	1	0	20.76	20.38	20.54	20.49	20.45		
5	16QAM	1	12	20.86	20.53	20.74	20.63	20.54	21.5	0
5	16QAM	1	24	20.81	20.54	20.64	20.67	20.39		
5	16QAM	12	0	20.67	20.38	20.46	20.54	20.33	21.5	0
5	16QAM	12	7	20.71	20.46	20.58	20.63	20.34		
5	16QAM	12	13	20.70	20.40	20.60	20.59	20.34	21.5	0
5	16QAM	25	0	20.73	20.48	20.60	20.54	20.47		
5	64QAM	1	0	20.79	20.47	20.57	20.49	20.40	21.5	0
5	64QAM	1	12	20.73	20.48	20.62	20.66	20.45		
5	64QAM	1	24	20.78	20.50	20.56	20.62	20.42	21.5	0
5	64QAM	12	0	20.69	20.43	20.49	20.47	20.32		
5	64QAM	12	7	20.73	20.42	20.60	20.62	20.35	21.5	0
5	64QAM	12	13	20.71	20.37	20.55	20.51	20.35		
5	64QAM	25	0	20.68	20.44	20.53	20.57	20.37		

ANT4_Band 41 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)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.83	22.49	22.75	22.64	22.84	23.5	0
20	QPSK	1	49	22.76	22.55	22.88	22.59	22.50		
20	QPSK	1	99	22.70	22.54	22.78	22.70	22.53	23.5	0
20	QPSK	50	0	22.76	22.41	22.57	22.48	22.50		
20	QPSK	50	24	22.70	22.49	22.85	22.51	22.47	23.5	0
20	QPSK	50	50	22.65	22.50	22.67	22.57	22.45		
20	QPSK	100	0	22.73	22.51	22.64	22.51	22.45	23.5	0
20	16QAM	1	0	22.72	22.46	22.71	22.63	22.47		
20	16QAM	1	49	22.64	22.41	22.57	22.51	22.35	23.5	0
20	16QAM	1	99	22.60	22.47	22.71	22.62	22.41		
20	16QAM	50	0	22.75	22.43	22.60	22.53	22.53	23.5	0
20	16QAM	50	24	22.73	22.53	22.89	22.53	22.49		
20	16QAM	50	50	22.70	22.55	22.89	22.60	22.45	23.5	0
20	16QAM	100	0	22.72	22.52	22.67	22.52	22.45		
20	64QAM	1	0	22.67	22.44	22.56	22.64	22.72	23.5	0
20	64QAM	1	49	22.58	22.34	22.55	22.47	22.60		
20	64QAM	1	99	22.57	22.37	22.62	22.47	22.51	23.5	0
20	64QAM	50	0	21.70	21.58	21.72	21.66	21.71		
20	64QAM	50	24	21.68	21.66	21.68	21.66	21.68	22.5	1
20	64QAM	50	50	21.61	21.66	21.82	21.47	21.42		
20	64QAM	100	0							



ANT8

ANT8_Band 4 Full Power / DSI 1/3/4/5										
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)										
20	QPSK	1	0	23.01	23.41	23.02	25	0		
20	QPSK	1	49	23.18	23.13	23.12				
20	QPSK	1	99	23.18	23.11	23.07				
20	QPSK	50	0	22.40	22.44	22.34				
20	QPSK	50	24	22.41	22.37	22.25	24	1		
20	QPSK	50	50	22.31	22.26	22.25				
20	QPSK	100	0	22.32	22.39	22.33				
20	16QAM	1	0	22.16	22.53	22.19				
20	16QAM	1	49	22.61	22.50	22.50	24	1		
20	16QAM	1	99	22.54	22.38	22.55				
20	16QAM	50	0	21.42	21.38	21.36				
20	16QAM	50	24	21.41	21.37	21.28				
20	16QAM	50	50	21.34	21.26	21.26	23	2		
20	16QAM	100	0	21.40	21.35	21.32				
20	64QAM	1	0	21.17	21.84	21.18				
20	64QAM	1	49	21.62	21.27	21.35				
20	64QAM	1	99	21.51	21.26	21.50	22	3		
20	64QAM	50	0	20.39	20.36	20.36				
20	64QAM	50	24	20.39	20.35	20.24				
20	64QAM	50	50	20.31	20.26	20.25				
20	64QAM	100	0	20.39	20.35	20.34				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.12	23.39	23.05	25	0		
15	QPSK	1	37	23.23	23.20	23.16				
15	QPSK	1	74	23.18	23.06	23.13				
15	QPSK	36	0	22.42	22.35	22.31				
15	QPSK	36	20	22.38	22.37	22.30	24	1		
15	QPSK	36	39	22.34	22.29	22.27				
15	QPSK	75	0	22.40	22.38	22.33				
15	16QAM	1	0	22.59	22.69	22.50				
15	16QAM	1	37	22.53	22.46	22.44	24	1		
15	16QAM	1	74	22.52	22.45	22.54				
15	16QAM	36	0	21.37	21.36	21.31				
15	16QAM	36	20	21.38	21.35	21.33				
15	16QAM	36	39	21.31	21.30	21.25	23	2		
15	16QAM	75	0	21.42	21.36	21.33				
15	64QAM	1	0	21.15	21.59	21.21				
15	64QAM	1	37	21.50	21.33	21.44				
15	64QAM	1	74	21.57	21.36	21.57	23	2		
15	64QAM	36	0	20.41	20.35	20.35				
15	64QAM	36	20	20.39	20.36	20.30				
15	64QAM	36	39	20.33	20.29	20.27				
15	64QAM	75	0	20.39	20.36	20.33	22	3		
15	64QAM	36	39	20.33	20.29	20.27				
15	64QAM	75	0	20.39	20.36	20.33				
15	64QAM	75	0	20.39	20.36	20.33				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.12	23.27	23.18	25	0		
10	QPSK	1	25	23.18	23.25	23.20				
10	QPSK	1	49	23.24	23.18	23.27				
10	QPSK	25	0	22.35	22.24	22.28				
10	QPSK	25	12	22.47	22.30	22.37	24	1		
10	QPSK	25	25	22.46	22.25	22.38				
10	QPSK	50	0	22.49	22.40	22.39				
10	16QAM	1	0	22.29	22.60	22.59				
10	16QAM	1	25	22.70	22.58	22.61	24	1		
10	16QAM	1	49	22.62	22.50	22.59				
10	16QAM	25	0	21.32	21.31	21.26				
10	16QAM	25	12	21.48	21.43	21.38				
10	16QAM	25	25	21.46	21.40	21.39	23	2		
10	64QAM	1	0	21.24	21.61	21.56				
10	64QAM	1	25	21.70	21.56	21.67				
10	64QAM	1	49	21.71	21.55	21.69				
10	64QAM	25	0	20.38	20.32	20.31	22	3		
10	64QAM	25	12	20.51	20.43	20.43				
10	64QAM	25	25	20.45	20.41	20.37				
10	64QAM	50	0	20.43	20.39	20.37				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.09	23.23	23.20	25	0		
5	QPSK	1	12	23.39	23.33	23.32				
5	QPSK	1	24	23.33	23.31	23.33				
5	QPSK	12	0	22.43	22.41	22.27				
5	QPSK	12	7	22.50	22.44	22.31	24	1		
5	QPSK	12	13	22.46	22.41	22.42				
5	QPSK	25	0	22.42	22.39	22.32				
5	16QAM	1	0	22.44	22.54	22.30				
5	16QAM	1	12	22.63	22.64	22.61	24	1		
5	16QAM	1	24	22.69	22.64	22.66				
5	16QAM	12	0	21.47	21.44	21.32				
5	16QAM	12	7	21.53	21.47	21.39				
5	16QAM	12	13	21.48	21.44	21.41	23	2		
5	16QAM	25	0	21.44	21.42	21.32				
5	64QAM	1	0	21.35	21.49	21.47				
5	64QAM	1	12	21.55	21.54	21.44				
5	64QAM	1	24	21.60	21.57	21.55	23	2		
5	64QAM	12	0	20.41	20.36	20.31				
5	64QAM	12	7	20.47	20.41	20.31				
5	64QAM	12	13	20.43	20.38	20.36				
5	64QAM	25	0	20.45	20.39	20.31	22	3		
5	64QAM	25	0	20.45	20.39	20.31				
5	64QAM	25	0	20.45	20.39	20.31				
5	64QAM	25	0	20.45	20.39	20.31				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.13	23.22	23.21	25	0		
3	QPSK	1	8	23.40	23.34	23.33				
3	QPSK	1	14	23.31	23.30	23.25				
3	QPSK	8	0	22.35	22.39	22.30				
3	QPSK	8	4	22.49	22.43	22.38	24	1		
3	QPSK	8	7	22.46	22.37	22.34				
3	QPSK	15	0	22.44	22.40	22.38				
3	16QAM	1	0	22.38	22.57	22.47				
3	16QAM	1	8	22.65	22.63	22.62	24	1		
3	16QAM	1	14	22.65	22.65	22.64				
3	16QAM	8	0	21.48	21.46	21.40				
3	16QAM	8	4	21.53	21.48	21.48				
3	16QAM	8	7	21.52	21.47	21.43	23	2		
3	16QAM	15	0	21.49	21.42	21.40				
3	64QAM	1	0	21.49	21.49	21.43				
3	64QAM	1	8	21.60	21.56	21.57				
3	64QAM	1	14	21.60	21.54	21.54	23	2		
3	64QAM	8	0	20.45	20.40	20.32				
3	64QAM	8	4	20.50	20.44	20.42				
3	64QAM	8	7	20.48	20.43	20.41				
3	64QAM	15	0	20.46	20.39	20.38	22	3		
3	64QAM	15	0	20.46	20.39	20.38				
3	64QAM	15	0	20.46	20.39	20.38				
3	64QAM	15	0	20.46	20.39	20.38				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.12	23.15	23.13	25	0		
1.4	QPSK	1	3	23.24	23.22	23.19				
1.4	QPSK	1	5	23.17	23.16	23.16				
1.4	QPSK	3	0	23.20	23.21	23.17				
1.4	QPSK	3	1	23.24	23.23	23.27	24	1		
1.4	QPSK	3	3	23.25	23.22	23.20				
1.4	QPSK	3	5	23.25	23.29	23.28				
1.4	16QAM	1	0	22.27	22.47	22.43				
1.4	16QAM	1	3	22.57	22.51	22.50	24	1		
1.4	16QAM	1	5	22.48	22.48	22.49				
1.4	16QAM	3	0	22.30	22.28	22.24				
1.4	16QAM	3	1	22.35	22.33	22.30				
1.4	16QAM	3	3	22.29	22.25	22.29	23	2		
1.4	16QAM	6	0	21.41	21.34	21.33				
1.4	64QAM	1	0	21.36	21.53	21.43				
1.4	64QAM	1	3	21.54	21.51	21.49				
1.4	64QAM	1	5	21.47	21.52	21.48	23	2		
1.4	64QAM	3	0	21.31	21.31	21.31				
1.4	64QAM	3	1	21.37	21.37	21.35				
1.4	64QAM	3	3	21.32	21.28	21.31				
1.4	64QAM	6	0	20.34	20.29	20.28	22	3		
1.4	64QAM	6	0	20.34	20.29	20.28				
1.4	64QAM	6	0	20.34	20.29	20.28				
1.4	64QAM	6	0	20.34	20.29	20.28				

ANT8_Band 7 Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		



ANT8_Band 38 Full Power									
BW [MHz]	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	23.39	23.72	25	0	
20	QPSK	1	49	23.25	23.41	23.69			
20	QPSK	1	99	23.26	23.60	23.63			
20	QPSK	50	0	22.36	22.37	22.78	24	1	
20	QPSK	50	24	22.34	22.48	22.77			
20	QPSK	50	50	22.39	22.69	22.70			
20	QPSK	100	0	22.27	22.47	22.76	24	1	
20	16QAM	1	0	22.58	22.52	22.80			
20	16QAM	1	49	22.38	22.52	22.79			
20	16QAM	1	99	22.38	22.65	22.79	23	2	
20	16QAM	50	0	21.56	21.45	21.81			
20	16QAM	50	24	21.51	21.55	21.81			
20	16QAM	50	50	21.41	21.74	21.74	23	2	
20	16QAM	100	0	21.40	21.59	21.76			
20	16QAM	100	0	21.23	21.14	21.46			
20	64QAM	1	0	21.05	21.00	21.39	23	2	
20	64QAM	1	49	21.05	21.00	21.39			
20	64QAM	1	99	21.12	21.35	21.37			
20	64QAM	50	0	20.35	20.27	20.45	22	3	
20	64QAM	50	24	20.36	20.40	20.51			
20	64QAM	50	50	20.08	20.41	20.38			
20	64QAM	100	0	20.33	20.49	20.63			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.29	23.22	23.60	25	0	
15	QPSK	1	37	23.13	23.24	23.60			
15	QPSK	1	74	23.11	23.49	23.57			
15	QPSK	36	0	22.30	22.33	22.76	24	1	
15	QPSK	36	20	22.32	22.42	22.78			
15	QPSK	36	39	22.37	22.50	22.78			
15	QPSK	75	0	22.36	22.41	22.81	24	1	
15	16QAM	1	0	22.42	22.37	22.74			
15	16QAM	1	37	22.33	22.39	22.70			
15	16QAM	1	74	22.27	22.54	22.77	23	2	
15	16QAM	36	0	21.42	21.40	21.70			
15	16QAM	36	20	21.40	21.47	21.75			
15	16QAM	36	39	21.35	21.64	21.75	23	2	
15	16QAM	75	0	21.40	21.53	21.84			
15	64QAM	1	0	21.10	21.33	21.40			
15	64QAM	1	37	21.16	21.08	21.40	23	2	
15	64QAM	1	74	21.18	21.28	21.26			
15	64QAM	36	0	20.32	20.23	20.58			
15	64QAM	36	20	20.21	20.40	20.70	22	3	
15	64QAM	36	39	20.21	20.50	20.68			
15	64QAM	75	0	20.35	20.30	20.65			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.25	23.28	23.64	25	0	
10	QPSK	1	25	23.20	23.27	23.46			
10	QPSK	1	49	23.26	23.43	23.54			
10	QPSK	25	0	22.33	22.31	22.71	24	1	
10	QPSK	25	12	22.33	22.40	22.76			
10	QPSK	25	25	22.35	22.43	22.71			
10	QPSK	50	0	22.31	22.32	22.77	24	1	
10	16QAM	1	0	22.30	22.29	22.74			
10	16QAM	1	25	22.31	22.39	22.71			
10	16QAM	1	49	22.32	22.55	22.70	23	2	
10	16QAM	25	0	21.47	21.45	21.75			
10	16QAM	25	12	21.50	21.51	21.85			
10	16QAM	25	25	21.48	21.59	21.81	23	2	
10	16QAM	50	0	21.41	21.49	21.84			
10	64QAM	1	0	21.02	21.00	21.42			
10	64QAM	1	25	21.21	21.03	21.36	22	3	
10	64QAM	1	49	21.19	21.18	21.40			
10	64QAM	25	0	20.31	20.28	20.45			
10	64QAM	25	12	20.16	20.33	20.47	22	3	
10	64QAM	25	25	20.25	20.34	20.64			
10	64QAM	50	0	20.12	20.28	20.55			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.26	23.21	23.63	25	0	
5	QPSK	1	12	23.21	23.27	23.65			
5	QPSK	1	24	23.24	23.30	23.67			
5	QPSK	12	0	22.36	22.36	22.73	24	1	
5	QPSK	12	7	22.36	22.43	22.82			
5	QPSK	12	13	22.33	22.44	22.78			
5	QPSK	25	0	22.39	22.35	22.80	24	1	
5	16QAM	1	0	22.37	22.38	22.81			
5	16QAM	1	12	22.38	22.39	22.85			
5	16QAM	1	24	22.38	22.47	22.85	23	2	
5	16QAM	12	0	21.48	21.44	21.75			
5	16QAM	12	7	21.48	21.48	21.80			
5	16QAM	12	13	21.43	21.48	21.79	23	2	
5	16QAM	25	0	21.49	21.51	21.84			
5	64QAM	1	0	21.08	21.02	21.39			
5	64QAM	1	12	21.11	21.03	21.36	23	2	
5	64QAM	1	24	21.14	21.10	21.47			
5	64QAM	12	0	20.24	20.18	20.54			
5	64QAM	12	7	20.32	20.28	20.55	22	3	
5	64QAM	12	13	20.16	20.27	20.54			
5	64QAM	25	0	20.19	20.18	20.61			

ANT8_Band 41 Full Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.02	23.64	23.69	23.65	23.64	25	0
20	QPSK	1	49	23.85	23.65	23.57	23.57	23.52		
20	QPSK	1	99	23.79	23.59	23.65	23.56	23.52		
20	QPSK	50	0	23.07	22.84	22.73	22.65	22.63	24	1
20	QPSK	50	24	23.03	22.84	22.77	22.71	22.57		
20	QPSK	50	50	22.98	22.79	22.74	22.67	22.58		
20	QPSK	100	0	23.03	22.83	22.78	22.63	22.65	24	1
20	16QAM	1	0	22.98	22.79	22.76	22.74	22.66		
20	16QAM	1	49	22.94	22.72	22.65	22.65	22.61		
20	16QAM	1	99	22.92	22.71	22.67	22.70	22.54	23	2
20	16QAM	50	0	22.10	21.86	21.73	21.68	21.84		
20	16QAM	50	24	22.07	21.86	21.80	21.74	21.77		
20	16QAM	50	50	22.05	21.82	21.76	21.71	21.84	23	2
20	16QAM	100	0	22.05	21.83	21.76	21.63	21.74		
20	64QAM	1	0	21.71	21.30	21.60	21.44	21.46		
20	64QAM	1	49	21.64	21.44	21.44	21.41	21.25	23	2
20	64QAM	1	99	21.67	21.28	21.44	21.42	21.28		
20	64QAM	50	0	20.84	20.71	20.44	20.38	20.47		
20	64QAM	50	24	20.78	20.58	20.48	20.37	20.54	22	3
20	64QAM	50	50	20.73	20.63	20.51	20.45	20.42		
20	64QAM	100	0	20.97	20.63	20.60	20.52	20.57		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.85	23.68	23.62	23.62	23.63	25	0
15	QPSK	1	37	23.82	23.63	23.58	23.48	23.48		
15	QPSK	1	74	23.78	23.70	23.66	23.59	23.45		
15	QPSK	36	0	23.05	22.75	22.70	22.64	22.73	24	1
15	QPSK	36	20	23.00	22.79	22.75	22.63	22.66		
15	QPSK	36	39	22.99	22.76	22.73	22.65	22.59		
15	QPSK	75	0	23.02	22.81	22.74	22.60	22.68	24	1
15	16QAM	1	0	22.90	22.75	22.75	22.70	22.76		
15	16QAM	1	37	22.78	22.56	22.54	22.60	22.47		
15	16QAM	1	74	22.95	22.86	22.76	22.78	22.63	23	2
15	16QAM	36	0	22.02	21.72	21.67	21.60	21.70		
15	16QAM	36	20	21.98	21.74	21.73	21.60	21.61		
15	16QAM	36	39	21.99	21.74	21.72	21.63	21.57	23	2
15	16QAM	75	0	22.07	21.81	21.78	21.62	21.70		
15	64QAM	1	0	21.66	21.45	21.59	21.35	21.50		
15	64QAM	1	37	21.74	21.29	21.36	21.33	21.33	23	2
15	64QAM	1	74	21.74	21.53	21.54	21.45	21.29		
15	64QAM	36	0	20.84	20.57	20.47	20.53	20.59		
15	64QAM	36	20	20.77	20.56	20.63	20.40	20.53	22	3
15	64QAM	36	39	20.87	20.53	20.59	20.49	20.45		
15</										



ANT8_Band 7 DSI 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	20.21	20.40	20.11	21	0		
20	QPSK	1	49	20.19	20.20	20.20				
20	QPSK	1	99	20.18	20.21	20.20				
20	QPSK	50	0	20.28	20.39	20.22	21	0		
20	QPSK	50	24	20.38	20.30	20.28				
20	QPSK	50	50	20.32	20.27	20.35				
20	QPSK	100	0	20.34	20.36	20.26	21	0		
20	16QAM	1	0	20.21	20.19	20.12				
20	16QAM	1	49	20.16	20.29	20.22				
20	16QAM	1	99	20.17	20.24	20.23	21	0		
20	16QAM	50	0	20.27	20.29	20.27				
20	16QAM	50	24	20.36	20.33	20.30				
20	16QAM	50	50	20.32	20.30	20.36	21	0		
20	16QAM	100	0	20.32	20.28	20.27				
20	64QAM	1	0	20.12	20.13	20.05				
20	64QAM	1	49	20.06	20.31	20.07	21	0		
20	64QAM	1	99	19.99	20.27	20.20				
20	64QAM	50	0	20.23	20.28	20.24				
20	64QAM	50	24	20.34	20.34	20.29	21	0		
20	64QAM	50	50	20.30	20.28	19.95				
20	64QAM	100	0	20.33	20.20	20.23				
Channel				20825	21100	21375				
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	20.22	20.19	20.19	21	0		
15	QPSK	1	37	20.21	20.23	20.22				
15	QPSK	1	74	20.21	20.18	20.25				
15	QPSK	36	0	20.29	20.25	20.24	21	0		
15	QPSK	36	20	20.39	20.28	20.35				
15	QPSK	36	39	20.34	20.25	20.32				
15	QPSK	75	0	20.34	20.28	20.23	21	0		
15	16QAM	1	0	20.19	20.18	20.14				
15	16QAM	1	37	20.24	20.23	20.23				
15	16QAM	1	74	20.17	20.23	20.20	21	0		
15	16QAM	36	0	20.28	20.29	20.28				
15	16QAM	36	20	20.36	20.30	20.36				
15	16QAM	36	39	20.33	20.28	20.34	21	0		
15	16QAM	75	0	20.34	20.29	20.27				
15	64QAM	1	0	20.14	20.08	20.08				
15	64QAM	1	37	20.05	20.29	20.07	21	0		
15	64QAM	1	74	20.06	20.26	20.19				
15	64QAM	36	0	20.28	20.28	20.28				
15	64QAM	36	20	20.36	20.31	20.38	21	0		
15	64QAM	36	39	20.31	20.28	20.33				
15	64QAM	75	0	19.90	20.00	20.02				
Channel				20800	21100	21400				
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	20.18	20.14	20.12	21	0		
10	QPSK	1	25	20.14	20.07	20.16				
10	QPSK	1	49	20.15	20.11	20.18				
10	QPSK	25	0	20.26	20.24	20.25	21	0		
10	QPSK	25	12	20.37	20.25	20.27				
10	QPSK	25	25	20.35	20.22	20.32				
10	QPSK	50	0	20.37	20.26	20.23	21	0		
10	16QAM	1	0	20.21	20.18	20.17				
10	16QAM	1	25	20.20	20.17	20.19				
10	16QAM	1	49	20.19	20.17	20.19	21	0		
10	16QAM	25	0	20.34	20.23	20.26				
10	16QAM	25	12	20.38	20.26	20.29				
10	16QAM	25	25	20.33	20.25	20.33	21	0		
10	16QAM	50	0	20.35	20.29	20.28				
10	64QAM	1	0	20.23	20.27	20.18				
10	64QAM	1	25	20.19	20.26	20.24	21	0		
10	64QAM	1	49	20.26	20.26	20.24				
10	64QAM	25	0	20.25	20.25	20.23				
10	64QAM	25	12	20.30	20.29	20.30	21	0		
10	64QAM	25	25	20.35	20.24	20.32				
10	64QAM	50	0	20.06	20.05	20.00				
Channel				20775	21100	21425				
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	20.19	20.16	20.21	21	0		
5	QPSK	1	12	20.24	20.21	20.22				
5	QPSK	1	24	20.26	20.20	20.20				
5	QPSK	12	0	20.30	20.29	20.35	21	0		
5	QPSK	12	7	20.37	20.30	20.32				
5	QPSK	12	13	20.37	20.35	20.32				
5	QPSK	25	0	20.37	20.29	20.31	21	0		
5	16QAM	1	0	20.18	20.19	20.25				
5	16QAM	1	12	20.21	20.16	20.15				
5	16QAM	1	24	20.21	20.20	20.17	21	0		
5	16QAM	12	0	20.21	20.00	20.01				
5	16QAM	12	7	20.10	19.96	19.99				
5	16QAM	12	13	20.06	20.05	20.00	21	0		
5	16QAM	25	0	20.07	19.99	19.99				
5	64QAM	1	0	20.08	20.10	20.09				
5	64QAM	1	12	20.12	20.05	20.02	21	0		
5	64QAM	1	24	20.17	20.11	20.05				
5	64QAM	12	0	20.32	20.31	20.32				
5	64QAM	12	7	20.31	20.31	20.34	21	0		
5	64QAM	12	13	20.30	20.37	20.34				
5	64QAM	25	0	20.32	20.33	20.33				

ANT8_Band 7 DSI 3/4/5										
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				20850	21100	21350				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	19.15	19.33	19.09	20	0		
20	QPSK	1	49	19.14	19.15	19.12				
20	QPSK	1	99	19.08	19.17	19.19				
20	QPSK	50	0	19.22	19.32	19.16	20	0		
20	QPSK	50	24	19.31	19.23	19.19				
20	QPSK	50	50	19.27	19.21	19.30				
20	QPSK	100	0	19.27	19.30	19.23	20	0		
20	16QAM	1	0	19.17	19.13	19.07				
20	16QAM	1	49	19.11	19.14	19.15				
20	16QAM	1	99	19.14	19.09	19.19	20	0		
20	16QAM	50	0	19.25	19.20	19.18				
20	16QAM	50	24	19.31	19.25	19.21				
20	16QAM	50	50	19.30	19.22	19.28	20	0		
20	16QAM	100	0	19.29	19.21	19.19				
20	64QAM	1	0	19.06	19.06	19.01				
20	64QAM	1	49	19.18	19.04	19.15	20	0		
20	64QAM	1	99	19.99	19.13	19.13				
20	64QAM	50	0	19.22	19.20	19.15				
20	64QAM	50	24	19.31	19.21	19.19	20	0		
20	64QAM	50	50	19.27	19.20	18.88				
20	64QAM	100	0	19.01	19.00	19.05				
Channel				20825	21100	21375				
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	19.22	19.21	19.17	20	0		
15	QPSK	1	37	19.23	19.23	19.22				
15	QPSK	1	74	19.20	19.18	19.24				
15	QPSK	36	0	19.17	19.13	19.17	20	0		
15	QPSK	36	20	19.25	19.18	19.26				
15	QPSK	36	39	19.22	19.14	19.20				
15	QPSK	75	0	19.24	19.15	19.15	20	0		
15	16QAM	1	0	19.22	19.05	19.07				
15	16QAM	1	37	19.20	19.17	19.19				
15	16QAM	1	74	19.14	19.12	19.22	20	0		
15	16QAM	36	0	19.20	19.16	19.11				
15	16QAM	36	20	19.25	19.18	19.24				
15	16QAM	36	39	19.22	19.15	19.24	20	0		
15	16QAM	75	0	19.25	19.15	19.15				
15	64QAM	1	0	19.07	19.03	19.06				
15	64QAM	1	37	19.14	19.08	19.21	20	0		
15	64QAM	1	74	19.12	19.08	19.13				
15	64QAM	36	0	19.16	19.13	19.13				
15	64QAM	36	20	19.26	19.17	19.21	20	0		
15	64QAM	36	39	19.22	19.14	19.20				
15	64QAM	75	0	19.20	19.11	19.03				
Channel				20800	21100	21400				
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	19.17	19.15	19.15	20	0		
10	QPSK	1	25	19.19	19.15	19.14				
10	QPSK	1	49	19.20	19.17	19.16				
10	QPSK	25	0	19.21	19.16	19.14	20	0		
10	QPSK	25	12	19.28	19.17	19.18				
10	QPSK	25	25	19.25	19.14	19.21				
10	QPSK	50	0							



ANT8_Band 38 DSI 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	2147	2138	2183	23	0			
20	QPSK	1	49	2136	2139	2168					
20	QPSK	1	99	2133	2164	2161					
20	QPSK	50	0	2133	2142	2180					
20	QPSK	50	24	2133	2149	2178	23	0			
20	QPSK	50	50	2136	2156	2169					
20	QPSK	100	0	2123	2152	2172					
20	16QAM	1	0	2159	2157	2180					
20	16QAM	1	49	2141	2153	2179	23	0			
20	16QAM	1	99	2134	2169	2178					
20	16QAM	50	0	2155	2147	2184					
20	16QAM	50	24	2149	2157	2177					
20	16QAM	50	50	2145	2177	2173	23	0			
20	16QAM	100	0	2138	2163	2174					
20	64QAM	1	0	2128	2110	2152					
20	64QAM	1	49	2109	2106	2141					
20	64QAM	1	99	2112	2133	2141	23	0			
20	64QAM	50	0	2039	2028	2045					
20	64QAM	50	24	2041	2036	2047					
20	64QAM	50	50	2011	2044	2039					
20	64QAM	100	0	2030	2047	2063	22	1			
Channel				37825	38000	38175					
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	2129	2127	2166			23	0	
15	QPSK	1	37	2116	2120	2164					
15	QPSK	1	74	2116	2150	2160					
15	QPSK	36	0	2134	2138	2179					
15	QPSK	36	20	2134	2143	2174	23	0			
15	QPSK	36	39	2133	2155	2179					
15	QPSK	75	0	2141	2137	2177					
15	16QAM	1	0	2141	2143	2170					
15	16QAM	1	37	2129	2142	2174	23	0			
15	16QAM	1	74	2131	2159	2177					
15	16QAM	36	0	2144	2142	2174					
15	16QAM	36	20	2140	2142	2171					
15	16QAM	36	39	2140	2168	2177	23	0			
15	16QAM	75	0	2141	2152	2181					
15	64QAM	1	0	2107	2130	2143					
15	64QAM	1	37	2120	2113	2144					
15	64QAM	1	74	2120	2126	2126	23	0			
15	64QAM	36	0	2031	2033	2054					
15	64QAM	36	20	2032	2038	2066					
15	64QAM	36	39	2033	2050	2074					
15	64QAM	75	0	2038	2026	2066	22	1			
Channel				37800	38000	38200					
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	2129	2130	2160			23	0	
10	QPSK	1	25	2116	2129	2144					
10	QPSK	1	49	2123	2140	2151					
10	QPSK	25	0	2128	2131	2176					
10	QPSK	25	12	2136	2139	2174	23	0			
10	QPSK	25	25	2140	2140	2171					
10	QPSK	50	0	2136	2137	2182					
10	16QAM	1	0	2131	2134	2170					
10	16QAM	1	25	2134	2136	2175	23	0			
10	16QAM	1	49	2130	2155	2174					
10	16QAM	25	0	2144	2145	2178					
10	16QAM	25	12	2154	2148	2183					
10	16QAM	25	25	2145	2161	2186	23	0			
10	16QAM	50	0	2141	2149	2189					
10	64QAM	1	0	2103	2097	2140					
10	64QAM	1	25	2118	2100	2139					
10	64QAM	1	49	2117	2113	2136	23	0			
10	64QAM	25	0	2029	2030	2048					
10	64QAM	25	12	2023	2034	2045					
10	64QAM	25	25	2021	2039	2064					
10	64QAM	50	0	2019	2034	2060	22	1			
Channel				37775	38000	38225					
Frequency (MHz)				2572.5	2595	2617.5					
5	QPSK	1	0	2130	2117	2158			23	0	
5	QPSK	1	12	2117	2124	2161					
5	QPSK	1	24	2125	2133	2160					
5	QPSK	12	0	2141	2140	2171					
5	QPSK	12	7	2141	2144	2183	23	0			
5	QPSK	12	13	2142	2147	2173					
5	QPSK	25	0	2141	2141	2175					
5	16QAM	1	0	2136	2136	2178					
5	16QAM	1	12	2139	2140	2179	23	0			
5	16QAM	1	24	2141	2145	2176					
5	16QAM	12	0	2153	2141	2174					
5	16QAM	12	7	2144	2152	2179					
5	16QAM	12	13	2147	2146	2181	23	0			
5	16QAM	25	0	2148	2148	2187					
5	64QAM	1	0	2113	2101	2141					
5	64QAM	1	12	2112	2102	2138					
5	64QAM	1	24	2112	2114	2148	23	0			
5	64QAM	12	0	2023	2012	2057					
5	64QAM	12	7	2036	2030	2059					
5	64QAM	12	13	2012	2022	2056					
5	64QAM	25	0	2018	2017	2066	22	1			

ANT8_Band 38 DSI 3/4/5											
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				37850	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	2144	2144	2190	23	0			
20	QPSK	1	49	2149	2148	2167					
20	QPSK	1	99	2143	2165	2162					
20	QPSK	50	0	2130	2138	2174					
20	QPSK	50	24	2139	2148	2172	23	0			
20	QPSK	50	50	2133	2159	2170					
20	QPSK	100	0	2127	2149	2172					
20	16QAM	1	0	2164	2157	2184					
20	16QAM	1	49	2140	2153	2180	23	0			
20	16QAM	1	99	2143	2174	2180					
20	16QAM	50	0	2164	2148	2187					
20	16QAM	50	24	2144	2160	2183					
20	16QAM	50	50	2152	2178	2175	23	0			
20	16QAM	100	0	2142	2161	2182					
20	64QAM	1	0	2132	2116	2154					
20	64QAM	1	49	2112	2112	2143					
20	64QAM	1	99	2117	2137	2146	23	0			
20	64QAM	50	0	2036	2031	2053					
20	64QAM	50	24	2040	2035	2052					
20	64QAM	50	50	2018	2044	2037					
20	64QAM	100	0	2032	2051	2066	22	1			
Channel				37825	38000	38175					
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	2139	2130	2171			23	0	
15	QPSK	1	37	2122	2122	2165					
15	QPSK	1	74	2126	2147	2160					
15	QPSK	36	0	2130	2137	2175					
15	QPSK	36	20	2135	2138	2171	23	0			
15	QPSK	36	39	2135	2154	2175					
15	QPSK	75	0	2140	2135	2177					
15	16QAM	1	0	2138	2145	2165					
15	16QAM	1	37	2131	2147	2179	23	0			
15	16QAM	1	74	2132	2164	2179					
15	16QAM	36	0	2149	2138	2173					
15	16QAM	36	20	2144	2145	2168					
15	16QAM	36	39	2136	2174	2183	23	0			
15	16QAM	75	0	2148	2158	2181					
15	64QAM	1	0	2104	2133	2148					
15	64QAM	1	37	2121	2109	2153					
15	64QAM	1	74	2118	2121	2124	23	0			
15	64QAM	36	0	2030	2040	2051					
15	64QAM	36	20	2037	2038	2065					
15	64QAM	36	39	2035	2051	2077					
15	64QAM	75	0	2040	2027	2073	22	1			
Channel				37800	38000	38200					
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	2135	2127	2160			23	0	
10	QPSK	1	25	2114	2133	2145					
10	QPSK	1	49	2126	2139	2154					
10	QPSK	25	0	2130	2137	2173					
10	QPSK	25	12	2132	2143	2178	23	0			
10	QPSK	25	25	2141	2135	2176					
10	QPSK	50	0	2141	2132	2175					
10	16QAM	1	0	2136	2138	2166					
10	16QAM	1	25	2137	2141	2174	23	0			
10	16QAM	1	49	2129	2159	2175					
10	16QAM	25	0	2141	2143	2179					
10	16QAM	25	12	2154	2150	2181					
10	16QAM	25	25	2148	2167	2182	23	0			
10	16QAM	50	0	2142	2151	2182					
10	64QAM	1	0	2102	2104	2141					
10	64QAM	1	25	2122	2104	2147					
10	64QAM	1	49	2114	2114	2137	23	0			
10	64QAM	25	0</								



ANT8_Band 41 DSI 1/5

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										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.18	21.81	21.80	21.79	21.78	23	0
20	QPSK	1	49	21.81	21.83	21.75	21.74	21.75		
20	QPSK	1	99	21.85	21.76	21.78	21.78	21.76	23	0
20	QPSK	50	0	22.08	21.89	21.70	21.63	21.63		
20	QPSK	50	24	21.99	21.84	21.76	21.75	21.65	23	0
20	QPSK	50	50	21.96	21.77	21.78	21.71	21.59		
20	QPSK	100	0	22.07	21.85	21.82	21.65	21.60	23	0
20	16QAM	1	0	22.01	21.80	21.75	21.78	21.62		
20	16QAM	1	49	21.90	21.77	21.63	21.64	21.60	23	0
20	16QAM	1	99	21.93	21.68	21.64	21.74	21.58		
20	16QAM	50	0	22.01	21.77	21.64	21.59	21.73	23	0
20	16QAM	50	24	21.98	21.77	21.69	21.65	21.69		
20	16QAM	50	50	21.99	21.74	21.64	21.65	21.56	23	0
20	16QAM	100	0	21.94	21.76	21.65	21.57	21.65		
20	64QAM	1	0	21.59	21.27	21.54	21.35	21.37	23	0
20	64QAM	1	49	21.52	21.39	21.32	21.32	21.23		
20	64QAM	1	99	21.61	21.22	21.33	21.36	21.21	23	0
20	64QAM	50	0	20.75	20.60	20.33	20.29	20.40		
20	64QAM	50	24	20.70	20.50	20.38	20.26	20.42	22	1
20	64QAM	50	50	20.65	20.56	20.42	20.39	20.31		
20	64QAM	100	0	20.86	20.55	20.50	20.45	20.51		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.82	21.68	21.64	21.55	21.71	23	0
15	QPSK	1	37	21.86	21.62	21.54	21.48	21.50		
15	QPSK	1	74	21.84	21.73	21.71	21.58	21.52	23	0
15	QPSK	36	0	22.07	21.73	21.68	21.69	21.74		
15	QPSK	36	20	21.98	21.83	21.79	21.64	21.65	23	0
15	QPSK	36	39	22.05	21.77	21.80	21.65	21.59		
15	QPSK	75	0	22.07	21.85	21.76	21.63	21.70	23	0
15	16QAM	1	0	21.94	21.73	21.72	21.68	21.83		
15	16QAM	1	37	21.83	21.59	21.54	21.56	21.48	23	0
15	16QAM	1	74	21.97	21.86	21.81	21.82	21.61		
15	16QAM	36	0	21.90	21.60	21.62	21.52	21.62	23	0
15	16QAM	36	20	21.87	21.64	21.61	21.55	21.53		
15	16QAM	36	39	21.91	21.65	21.62	21.55	21.62	23	0
15	16QAM	75	0	21.98	21.74	21.66	21.51	21.62		
15	64QAM	1	0	21.55	21.40	21.51	21.24	21.40	23	0
15	64QAM	1	37	21.67	21.26	21.27	21.27	21.25		
15	64QAM	1	74	21.68	21.46	21.44	21.36	21.29	23	0
15	64QAM	36	0	20.74	20.47	20.41	20.44	20.51		
15	64QAM	36	20	20.65	20.50	20.58	20.35	20.46	22	1
15	64QAM	36	39	20.77	20.47	20.54	20.40	20.34		
15	64QAM	75	0	20.76	20.66	20.58	20.33	20.38		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.85	21.67	21.63	21.58	21.72	23	0
10	QPSK	1	25	21.91	21.76	21.69	21.62	21.61		
10	QPSK	1	49	21.88	21.67	21.69	21.65	21.59	23	0
10	QPSK	25	0	22.04	21.81	21.71	21.70	21.77		
10	QPSK	25	12	22.04	21.84	21.77	21.73	21.76	23	0
10	QPSK	25	25	22.09	21.86	21.81	21.82	21.69		
10	QPSK	50	0	22.06	21.90	21.76	21.80	21.80	23	0
10	16QAM	1	0	22.08	21.92	21.80	21.84	21.80		
10	16QAM	1	25	22.05	21.80	21.74	21.84	21.73	23	0
10	16QAM	1	49	22.03	21.76	21.63	21.58	21.70		
10	16QAM	25	0	22.01	21.82	21.75	21.69	21.68	23	0
10	16QAM	25	25	21.97	21.76	21.74	21.65	21.59		
10	16QAM	50	0	22.00	21.75	21.70	21.70	21.71	23	0
10	64QAM	1	0	21.81	21.60	21.50	21.50	21.41		
10	64QAM	1	25	21.77	21.43	21.53	21.31	21.37	23	0
10	64QAM	1	49	21.74	21.34	21.47	21.38	21.44		
10	64QAM	25	0	20.75	20.44	20.50	20.35	20.41	22	1
10	64QAM	25	12	20.82	20.68	20.41	20.46	20.45		
10	64QAM	25	25	20.65	20.54	20.54	20.41	20.36	22	1
10	64QAM	50	0	20.71	20.49	20.46	20.44	20.52		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.08	21.76	21.67	21.59	21.70	23	0
5	QPSK	1	12	21.98	21.71	21.64	21.61	21.64		
5	QPSK	1	24	22.06	21.69	21.59	21.66	21.65	23	0
5	QPSK	12	0	22.07	21.80	21.67	21.75	21.72		
5	QPSK	12	7	22.10	21.86	21.89	21.73	21.68	23	0
5	QPSK	12	13	22.07	21.78	21.79	21.73	21.64		
5	QPSK	25	0	22.09	21.80	21.83	21.69	21.76	23	0
5	16QAM	1	0	22.15	21.92	21.78	21.76	21.79		
5	16QAM	1	12	22.05	21.88	21.90	21.79	21.75	23	0
5	16QAM	1	24	22.12	21.86	21.95	21.82	21.78		
5	16QAM	12	0	21.96	21.75	21.65	21.57	21.60	23	0
5	16QAM	12	7	22.03	21.73	21.75	21.57	21.66		
5	16QAM	12	13	21.95	21.73	21.75	21.60	21.60	23	0
5	16QAM	25	0	22.03	21.74	21.70	21.59	21.61		
5	64QAM	1	0	21.47	21.34	21.20	21.23	21.20	23	0
5	64QAM	1	12	21.62	21.33	21.33	21.19	21.34		
5	64QAM	1	24	21.57	21.33	21.25	21.28	21.15	22	1
5	64QAM	12	0	20.76	20.40	20.36	20.37	20.51		
5	64QAM	12	7	20.73	20.58	20.42	20.32	20.48	22	1
5	64QAM	12	13	20.72	20.52	20.39	20.36	20.34		
5	64QAM	25	0	20.73	20.38	20.41	20.31	20.43		

ANT8_Band 41 DSI 3/4

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										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.09	21.70	21.70	21.69	21.69	23	0
20	QPSK	1	49	21.70	21.69	21.64	21.61	21.63		
20	QPSK	1	99	21.77	21.63	21.63	21.68	21.65	23	0
20	QPSK	50	0	22.02	21.83	21.64	21.53	21.60		
20	QPSK	50	24	21.91	21.70	21.62	21.63	21.55	23	0
20	QPSK	50	50	21.88	21.68	21.72	21.62	21.57		
20	QPSK	100	0	21.92	21.73	21.73	21.54	21.52	23	0
20	16QAM	1	0	21.93	21.70	21.69	21.72	21.77		
20	16QAM	1	49	21.78	21.72	21.49	21.50	21.45	23	0
20	16QAM	1	99	21.78	21.55	21.51	21.65	21.45		
20	16QAM	50	0	21.99	21.74	21.63	21.55	21.70	23	0
20	16QAM	50	24	21.97	21.73	21.68	21.62	21.69		
20	16QAM	50	50	21.97	21.70	21.63	21.64	21.52	23	0
20	16QAM	100	0	21.89	21.72	21.65	21.56	21.60		
20	64QAM	1	0	21.55	21.25	21.50	21.34	21.36	23	0
20	64QAM	1	49	21.50	21.39	21.29	21.30	21.19		
20	64QAM	1	99	21.61	21.19	21.32	21.37	21.18	23	0
20	64QAM	50	0	20.72	20.56	20.28	20.27	20.36		
20	64QAM	50	24	20.67	20.48	20.35	20.24	20.41	22	1
20	64QAM	50	50	20.60	20.52	20.41	20.35	20.30		
20	64QAM	100	0	20.84	20.51	20.50	20.43	20.48		
Channel										



ANT9

ANT9_Band 38 Full Power / DSI 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.63	23.74	23.68	24.5	0		
20	QPSK	1	49	23.64	23.64	23.70				
20	QPSK	1	99	23.59	23.60	23.66				
20	QPSK	50	0	22.66	22.72	22.78	23.5	1		
20	QPSK	50	24	22.82	22.80	22.79				
20	QPSK	50	50	22.75	22.77	22.73				
20	QPSK	100	0	22.70	22.80	22.76	23.5	1		
20	16QAM	1	0	22.73	22.70	22.87				
20	16QAM	1	49	22.67	22.70	22.80				
20	16QAM	1	99	22.68	22.71	22.79	22.5	2		
20	16QAM	50	0	21.77	21.74	21.82				
20	16QAM	50	24	21.82	21.82	21.81				
20	16QAM	50	50	21.81	21.81	21.76	22.5	2		
20	16QAM	100	0	21.72	21.82	21.79				
20	64QAM	1	0	20.55	20.72	20.69				
20	64QAM	1	49	20.57	20.59	20.59	22.5	2		
20	64QAM	1	99	20.72	20.55	20.63				
20	64QAM	50	0	19.67	19.69	19.75				
20	64QAM	50	24	19.77	19.75	19.75	21.5	3		
20	64QAM	50	50	19.75	19.74	19.70				
20	64QAM	100	0	19.77	19.86	19.81				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.45	23.58	23.65	24.5	0		
15	QPSK	1	37	23.52	23.60	23.66				
15	QPSK	1	74	23.63	23.60	23.59				
15	QPSK	36	0	22.62	22.71	22.76	23.5	1		
15	QPSK	36	20	22.73	22.76	22.80				
15	QPSK	36	39	22.72	22.77	22.78				
15	QPSK	75	0	22.64	22.77	22.80	23.5	1		
15	16QAM	1	0	22.63	22.70	22.81				
15	16QAM	1	37	22.59	22.64	22.69				
15	16QAM	1	74	22.70	22.71	22.83	22.5	2		
15	16QAM	36	0	21.66	21.67	21.74				
15	16QAM	36	20	21.74	21.73	21.77				
15	16QAM	36	39	21.75	21.72	21.77	22.5	2		
15	16QAM	75	0	21.76	21.78	21.81				
15	64QAM	1	0	20.66	20.57	20.63				
15	64QAM	1	37	20.67	20.62	20.56	22.5	2		
15	64QAM	1	74	20.62	20.59	20.57				
15	64QAM	36	0	19.72	19.72	19.77				
15	64QAM	36	20	19.77	19.79	19.79	21.5	3		
15	64QAM	36	39	19.77	19.76	19.79				
15	64QAM	75	0	19.76	19.78	19.80				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.38	23.69	23.73	24.5	0		
10	QPSK	1	25	23.48	23.68	23.69				
10	QPSK	1	49	23.51	23.71	23.70				
10	QPSK	25	0	22.58	22.74	22.76	23.5	1		
10	QPSK	25	12	22.62	22.83	22.84				
10	QPSK	25	25	22.63	22.80	22.83				
10	QPSK	50	0	22.54	22.81	22.85	23.5	1		
10	16QAM	1	0	22.52	22.79	22.91				
10	16QAM	1	25	22.65	22.75	22.83				
10	16QAM	1	49	22.61	22.81	22.84	22.5	2		
10	16QAM	25	0	21.72	21.74	21.72				
10	16QAM	25	12	21.81	21.83	21.84				
10	16QAM	25	25	21.80	21.79	21.81	22.5	2		
10	16QAM	50	0	21.72	21.85	21.87				
10	64QAM	1	0	20.79	20.77	20.84				
10	64QAM	1	25	20.83	20.78	20.74	22.5	2		
10	64QAM	1	49	20.84	20.74	20.78				
10	64QAM	25	0	19.67	19.73	19.76				
10	64QAM	25	12	19.71	19.81	19.84	21.5	3		
10	64QAM	25	25	19.73	19.75	19.80				
10	64QAM	50	0	19.61	19.78	19.82				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.39	23.65	23.67	24.5	0		
5	QPSK	1	12	23.40	23.63	23.69				
5	QPSK	1	24	23.43	23.68	23.69				
5	QPSK	12	0	22.52	22.75	22.78	23.5	1		
5	QPSK	12	7	22.54	22.81	22.83				
5	QPSK	12	13	22.58	22.81	22.80				
5	QPSK	25	0	22.48	22.77	22.80	23.5	1		
5	16QAM	1	0	22.53	22.85	22.83				
5	16QAM	1	12	22.59	22.87	22.85				
5	16QAM	1	24	22.61	22.90	22.93	22.5	2		
5	16QAM	12	0	21.66	21.74	21.77				
5	16QAM	12	7	21.69	21.81	21.82				
5	16QAM	12	13	21.67	21.78	21.78	22.5	2		
5	16QAM	25	0	21.70	21.83	21.86				
5	64QAM	1	0	20.75	20.51	20.58				
5	64QAM	1	12	20.84	20.59	20.64	22.5	2		
5	64QAM	1	24	20.87	20.57	20.65				
5	64QAM	12	0	19.65	19.69	19.73				
5	64QAM	12	7	19.70	19.78	19.84	21.5	3		
5	64QAM	12	13	19.67	19.75	19.78				
5	64QAM	25	0	19.61	19.78	19.81				

ANT9_Band 41 Full Power / DSI 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.72	23.47	23.59	23.66	23.66	24.5	0		
20	QPSK	1	49	23.60	23.43	23.55	23.56	23.54				
20	QPSK	1	99	23.56	23.44	23.59	23.59	23.45				
20	QPSK	50	0	22.80	22.65	22.62	22.65	22.70	23.5	1		
20	QPSK	50	24	22.79	22.62	22.68	22.70	22.65				
20	QPSK	50	50	22.76	22.61	22.69	22.69	22.60				
20	QPSK	100	0	22.76	22.62	22.69	22.65	22.63	23.5	1		
20	16QAM	1	0	22.74	22.56	22.70	22.81	22.79				
20	16QAM	1	49	22.68	22.50	22.64	22.65	22.59				
20	16QAM	1	99	22.71	22.49	22.67	22.72	22.55	22.5	2		
20	16QAM	50	0	21.82	21.66	21.65	21.69	21.73				
20	16QAM	50	24	21.82	21.63	21.73	21.74	21.69				
20	16QAM	50	50	21.78	21.63	21.72	21.70	21.64	22.5	2		
20	16QAM	100	0	21.78	21.64	21.72	21.63	21.67				
20	64QAM	1	0	21.28	21.15	21.34	21.25	21.48				
20	64QAM	1	49	21.25	21.10	21.15	21.17	21.16	22.5	2		
20	64QAM	1	99	21.38	21.15	21.20	21.26	21.21				
20	64QAM	50	0	20.62	20.42	20.30	20.45	20.55				
20	64QAM	50	24	20.56	20.46	20.55	20.49	20.42	21.5	3		
20	64QAM	50	50	20.56	20.38	20.44	20.34	20.34				
20	64QAM	100	0	20.54	20.57	20.48	20.48	20.44				
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	23.57	23.45	23.53	23.59	23.51	24.5	0		
15	QPSK	1	37	23.55	23.42	23.50	23.51	23.45				
15	QPSK	1	74	23.57	23.50	23.56	23.59	23.49				
15	QPSK	36	0	22.77	22.53	22.61	22.64	22.64	23.5	1		
15	QPSK	36	20	22.76	22.58	22.67	22.62	22.60				
15	QPSK	36	39	22.72	22.57	22.68	22.67	22.58				
15	QPSK	75	0	22.76	22.59	22.69	22.62	22.61	23.5	1		
15	16QAM	1	0	22.74	22.60	22.68	22.71	22.71				
15	16QAM	1	37	22.55	22.36	22.49	22.51	22.45				
15	16QAM	1	74	22.72	22.64	22.74	22.78	22.62	22.5	2		
15	16QAM	36	0	21.73	21.49	21.59	21.59	21.64				
15	16QAM	36	20	21.72	21.54	21.65	21.59	21.58				
15												



ANT9_Band 38 DSI 3/4/5										
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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	22.82	22.95	22.88	23.5	0		
20	QPSK	1	49	22.79	22.83	22.93				
20	QPSK	1	99	22.78	22.82	22.83				
20	QPSK	50	0	22.71	22.82	22.80	23.5	0		
20	QPSK	50	24	22.79	22.80	22.77				
20	QPSK	50	50	22.81	22.80	22.77				
20	QPSK	100	0	22.76	22.85	22.83	23.5	0		
20	16QAM	1	0	22.70	22.69	22.74				
20	16QAM	1	49	22.82	22.66	22.76				
20	16QAM	1	99	22.75	22.69	22.75	22.5	1		
20	16QAM	50	0	21.73	21.79	21.82				
20	16QAM	50	24	21.79	21.84	21.88				
20	16QAM	50	50	21.85	21.85	21.84	22.5	1		
20	16QAM	100	0	21.70	21.78	21.75				
20	84QAM	1	0	20.62	20.77	20.72				
20	84QAM	1	49	20.65	20.55	20.57	22.5	1		
20	84QAM	1	99	20.80	20.53	20.66				
20	84QAM	50	0	19.64	19.69	19.80				
20	84QAM	50	24	19.81	19.74	19.83	21.5	2		
20	84QAM	50	50	19.78	19.74	19.70				
20	84QAM	100	0	19.74	19.88	19.82				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.52	22.60	22.65	23.5	0		
15	QPSK	1	37	22.60	22.67	22.73				
15	QPSK	1	74	22.61	22.66	22.59				
15	QPSK	36	0	22.59	22.71	22.74	23.5	0		
15	QPSK	36	20	22.81	22.82	22.85				
15	QPSK	36	39	22.70	22.75	22.78				
15	QPSK	75	0	22.63	22.77	22.84	23.5	0		
15	16QAM	1	0	22.64	22.72	22.78				
15	16QAM	1	37	22.64	22.69	22.74				
15	16QAM	1	74	22.66	22.76	22.87	22.5	1		
15	16QAM	36	0	21.73	21.72	21.78				
15	16QAM	36	20	21.79	21.69	21.78				
15	16QAM	36	39	21.73	21.67	21.76	22.5	1		
15	16QAM	75	0	21.83	21.79	21.83				
15	84QAM	1	0	20.67	20.62	20.63				
15	84QAM	1	37	20.66	20.60	20.64	22.5	1		
15	84QAM	1	74	20.61	20.56	20.58				
15	84QAM	36	0	19.75	19.73	19.84				
15	84QAM	36	20	19.83	19.76	19.74	21.5	2		
15	84QAM	36	39	19.74	19.79	19.79				
15	84QAM	75	0	19.71	19.75	19.80				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.40	22.65	22.77	23.5	0		
10	QPSK	1	25	22.54	22.63	22.70				
10	QPSK	1	49	22.57	22.73	22.73				
10	QPSK	25	0	22.56	22.72	22.79	23.5	0		
10	QPSK	25	12	22.64	22.80	22.89				
10	QPSK	25	25	22.67	22.78	22.88				
10	QPSK	50	0	22.53	22.81	22.88	23.5	0		
10	16QAM	1	0	22.58	22.78	22.91				
10	16QAM	1	25	22.69	22.75	22.79				
10	16QAM	1	49	22.63	22.80	22.83	22.5	1		
10	16QAM	25	0	21.68	21.72	21.74				
10	16QAM	25	12	21.88	21.89	21.90				
10	16QAM	25	25	21.77	21.84	21.89	22.5	1		
10	16QAM	50	0	21.71	21.86	21.94				
10	84QAM	1	0	20.85	20.81	20.91				
10	84QAM	1	25	20.88	20.80	20.70	22.5	1		
10	84QAM	1	49	20.83	20.78	20.79				
10	84QAM	25	0	19.65	19.72	19.75				
10	84QAM	25	12	19.68	19.77	19.83	21.5	2		
10	84QAM	25	25	19.77	19.75	19.83				
10	84QAM	50	0	19.60	19.74	19.78				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.35	22.73	22.69	23.5	0		
5	QPSK	1	12	22.44	22.63	22.67				
5	QPSK	1	24	22.42	22.66	22.72				
5	QPSK	12	0	22.57	22.74	22.82	23.5	0		
5	QPSK	12	7	22.53	22.85	22.81				
5	QPSK	12	13	22.65	22.83	22.82				
5	QPSK	25	0	22.50	22.72	22.78	23.5	0		
5	16QAM	1	0	22.58	22.91	22.78				
5	16QAM	1	12	22.64	22.84	22.52				
5	16QAM	1	24	22.56	22.76	22.91	22.5	1		
5	16QAM	12	0	21.73	21.71	21.74				
5	16QAM	12	7	21.70	21.83	21.79				
5	16QAM	12	13	21.74	21.86	21.81	22.5	1		
5	16QAM	25	0	21.72	21.79	21.89				
5	84QAM	1	0	20.74	20.52	20.58				
5	84QAM	1	12	20.87	20.62	20.69	22.5	1		
5	84QAM	1	24	20.85	20.60	20.67				
5	84QAM	12	0	19.67	19.65	19.79				
5	84QAM	12	7	19.73	19.79	19.85	21.5	2		
5	84QAM	12	13	19.65	19.82	19.80				
5	84QAM	25	0	19.68	19.77	19.86				

ANT9_Band 41 DSI 3/4/5												
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	22.94	22.50	22.61	22.70	22.66	23.5	0		
20	QPSK	1	49	22.65	22.46	22.59	22.51	22.50				
20	QPSK	1	99	22.54	22.46	22.56	22.58	22.51				
20	QPSK	50	0	22.85	22.70	22.57	22.68	22.67	23.5	0		
20	QPSK	50	24	22.74	22.65	22.68	22.68	22.60				
20	QPSK	50	50	22.77	22.66	22.69	22.70	22.64				
20	QPSK	100	0	22.75	22.63	22.70	22.66	22.58	23.5	0		
20	16QAM	1	0	22.75	22.56	22.70	22.82	22.79				
20	16QAM	1	49	22.67	22.50	22.60	22.65	22.55				
20	16QAM	1	99	22.69	22.52	22.72	22.70	22.54	22.5	1		
20	16QAM	50	0	21.87	21.66	21.68	21.73	21.75				
20	16QAM	50	24	21.83	21.67	21.70	21.71	21.71				
20	16QAM	50	50	21.82	21.61	21.75	21.69	21.62	22.5	1		
20	16QAM	100	0	21.74	21.64	21.74	21.62	21.65				
20	84QAM	1	0	21.29	21.16	21.39	21.24	21.46				
20	84QAM	1	49	21.31	21.08	21.11	21.21	21.18	22.5	1		
20	84QAM	1	99	21.40	21.11	21.15	21.31	21.25				
20	84QAM	50	0	20.64	20.40	20.26	20.45	20.58				
20	84QAM	50	24	20.55	20.50	20.61	20.45	20.41	21.5	2		
20	84QAM	50	50	20.56	20.43	20.49	20.36	20.34				
20	84QAM	100	0	20.52	20.61	20.47	20.45	20.42				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	22.52	22.40	22.58	22.56	22.51	23.5	0		
15	QPSK	1	37	22.51	22.38	22.53	22.47	22.49				
15	QPSK	1	74	22.53	22.52	22.60	22.60	22.47				
15	QPSK	36	0	22.75	22.48	22.58	22.61	22.60	23.5	0		
15	QPSK	36	20	22.74	22.54	22.64	22.63	22.57				
15	QPSK	36	39	22.77	22.57	22.68	22.71	22.59				
15	QPSK	75	0	22.73	22.64	22.74	22.67	22.65	23.5	0		
15	16QAM	1	0	22.80	22.59	22.67	22.70	22.73				
15	16QAM	1	37	22.50	22.38	22.47	22.49	22.50				
15	16QAM	1	74	22.77	22.60	22.73	22.73	22.64	22.5	1		
15	16QAM	36	0	21.70	21.44	21.56	21.60	21.66				
15	16QAM	36	20	21.77	21.52	21.62	21.65	21.64				
15	16QAM	36	39	21.66	21.62	21.71	21.71	21.58				

ANT10

ANT10 Full power/DS1 1/3/4/5								
GSM850	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	
GSM 1 Tx slot	32.72	32.99	32.85	33.50	23.72	23.99	23.85	24.50
GPRS 1 Tx slot	32.70	32.98	32.83	33.50	23.70	23.98	23.83	24.50
GPRS 2 Tx slots	29.95	29.75	29.73	30.50	23.95	23.75	23.73	24.50
GPRS 3 Tx slots	28.07	28.27	27.79	28.70	23.81	24.01	23.53	24.44
GPRS 4 Tx slots	26.72	26.89	26.77	27.50	23.72	23.89	23.77	24.50
EDGE 1 Tx slot	26.30	26.35	26.24	26.00	17.30	17.35	17.24	19.00
EDGE 2 Tx slots	23.86	23.78	23.68	25.00	17.86	17.78	17.68	19.00
EDGE 3 Tx slots	22.12	21.97	22.30	23.20	17.86	17.71	18.04	18.94
EDGE 4 Tx slots	20.85	20.66	20.54	22.00	17.85	17.66	17.54	19.00

ANT10 Full power/DS1 1/3/4/5					
Band	WCDMA V			Tune-up Limit (dBm)	
	4132	4182	4233		
TX Channel	4357	4407	4458		
Rx Channel	826.4	836.4	846.6		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	24.48	24.49	24.45	25.00
3GPP Rel 99	RMC 12.2Kbps	24.49	24.50	24.46	25.00
3GPP Rel 6	HSDPA Subtest-1	23.11	23.10	23.04	24.00
3GPP Rel 6	HSDPA Subtest-2	23.12	23.12	23.04	24.00
3GPP Rel 6	HSDPA Subtest-3	22.63	22.65	22.54	23.50
3GPP Rel 6	HSDPA Subtest-4	22.65	22.62	22.55	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.02	23.05	23.00	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.10	23.01	23.02	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.53	22.61	22.47	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.59	22.55	22.62	23.50
3GPP Rel 6	HSUPA Subtest-1	23.05	23.05	23.01	24.00
3GPP Rel 6	HSUPA Subtest-2	21.10	21.07	20.98	22.00
3GPP Rel 6	HSUPA Subtest-3	22.06	22.06	22.02	23.00
3GPP Rel 6	HSUPA Subtest-4	21.09	21.08	21.00	22.00
3GPP Rel 6	HSUPA Subtest-5	23.10	23.10	23.00	24.00



ANT10_Band 4 Full Power / DSI 1/3/4/5											
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							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)							20650	20175	20300		
20	QPSK	1	0	22.29	23.46	22.99					
20	QPSK	1	49	23.17	23.13	23.13	24.5	0			
20	QPSK	1	99	22.99	23.10	23.12					
20	QPSK	50	0	22.34	22.39	22.34					
20	QPSK	50	24	22.39	22.36	22.27	23.5	1			
20	QPSK	50	50	22.32	22.27	22.25					
20	QPSK	100	0	22.35	22.36	22.34					
20	16QAM	1	0	22.15	22.57	22.14					
20	16QAM	1	49	22.39	22.46	22.47	23.5	1			
20	16QAM	1	99	22.51	22.40	22.54					
20	16QAM	50	0	21.39	21.36	21.38					
20	16QAM	50	24	21.42	21.39	21.30					
20	16QAM	50	50	21.32	21.28	21.27	22.5	2			
20	16QAM	100	0	21.39	21.35	21.34					
20	64QAM	1	0	21.10	21.58	21.45					
20	64QAM	1	49	21.58	21.35	21.44	22.5	2			
20	64QAM	1	99	21.48	21.29	21.53					
20	64QAM	50	0	22.34	22.37	22.33					
20	64QAM	50	24	20.39	20.37	20.28					
20	64QAM	50	50	20.31	20.27	20.25	21.5	3			
20	64QAM	100	0	20.38	20.37	20.30					
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)							1717.5	1732.5	1747.5		
15	QPSK	1	0	22.91	23.38	22.94					
15	QPSK	1	37	23.16	23.15	23.17	24.5	0			
15	QPSK	1	74	23.20	23.18	23.17					
15	QPSK	36	0	22.34	22.36	22.34					
15	QPSK	36	20	22.37	22.45	22.32	23.5	1			
15	QPSK	36	39	22.30	22.28	22.29					
15	QPSK	75	0	22.38	22.36	22.33					
15	16QAM	1	0	22.11	22.50	22.07					
15	16QAM	1	37	22.55	22.42	22.44	23.5	1			
15	16QAM	1	74	22.50	22.41	22.55					
15	16QAM	36	0	21.36	21.31	21.35					
15	16QAM	36	20	21.34	21.36	21.34	22.5	2			
15	16QAM	36	39	21.31	21.28	21.31					
15	16QAM	75	0	21.39	21.36	21.34					
15	64QAM	1	0	21.12	21.54	21.19					
15	64QAM	1	37	21.48	21.34	21.40	22.5	2			
15	64QAM	1	74	21.49	21.26	21.50					
15	64QAM	36	0	20.36	20.36	20.36					
15	64QAM	36	20	20.35	20.35	20.33	21.5	3			
15	64QAM	36	39	20.32	20.29	20.30					
15	64QAM	75	0	20.31	20.37	20.31					
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)							20300	20175	20350		
10	QPSK	1	0	22.95	23.30	23.30					
10	QPSK	1	25	23.25	23.18	23.20	24.5	0			
10	QPSK	1	49	23.23	23.01	23.21					
10	QPSK	25	0	22.32	22.34	22.29					
10	QPSK	25	12	22.43	22.43	22.40	23.5	1			
10	QPSK	25	25	22.44	22.44	22.41					
10	QPSK	50	0	22.46	22.44	22.42					
10	16QAM	1	0	22.19	22.64	22.11					
10	16QAM	1	25	22.66	22.63	22.59	23.5	1			
10	16QAM	1	49	22.64	22.54	22.65					
10	16QAM	25	0	21.34	21.34	21.42					
10	16QAM	25	12	21.45	21.46	21.44					
10	16QAM	25	25	21.42	21.40	21.40	22.5	2			
10	16QAM	50	0	21.45	21.41	21.41					
10	64QAM	1	0	21.18	21.60	21.63					
10	64QAM	1	25	21.63	21.63	21.60	22.5	2			
10	64QAM	1	49	21.63	21.55	21.65					
10	64QAM	25	0	20.34	20.35	20.34					
10	64QAM	25	12	20.48	20.42	20.44					
10	64QAM	25	25	20.44	20.39	20.37	21.5	3			
10	64QAM	50	0	20.41	20.40	20.41					
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)							1997.5	20175	20375		
5	QPSK	1	0	22.99	23.21	23.13					
5	QPSK	1	12	23.34	23.32	23.32	24.5	0			
5	QPSK	1	25	23.32	23.32	23.30					
5	QPSK	12	0	22.25	22.39	22.34					
5	QPSK	12	7	22.41	22.42	22.38	23.5	1			
5	QPSK	12	13	22.43	22.40	22.29					
5	QPSK	25	0	22.40	22.38	22.32					
5	16QAM	1	0	22.25	22.53	22.51					
5	16QAM	1	12	22.54	22.65	22.65	23.5	1			
5	16QAM	1	24	22.65	22.64	22.64					
5	16QAM	12	0	21.41	21.43	21.39					
5	16QAM	12	7	21.47	21.44	21.39	22.5	2			
5	16QAM	12	13	21.44	21.45	21.48					
5	16QAM	25	0	21.43	21.40	21.41					
5	64QAM	1	0	21.26	21.52	21.47					
5	64QAM	1	12	21.51	21.53	21.46	22.5	2			
5	64QAM	1	24	21.56	21.60	21.59					
5	64QAM	12	0	20.40	20.40	20.42					
5	64QAM	12	7	20.41	20.41	20.37	21.5	3			
5	64QAM	12	13	20.43	20.40	20.40					
5	64QAM	25	0	20.42	20.37	20.34					
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)							1995	20175	20385		
3	QPSK	1	0	23.15	23.18	23.16					
3	QPSK	1	8	23.45	23.34	23.30	24.5	0			
3	QPSK	1	14	23.38	23.30	23.26					
3	QPSK	8	0	22.38	22.34	22.28					
3	QPSK	8	4	22.53	22.42	22.37	23.5	1			
3	QPSK	8	7	22.46	22.37	22.40					
3	QPSK	15	0	22.46	22.39	22.40					
3	16QAM	1	0	22.43	22.50	22.46					
3	16QAM	1	8	22.64	22.67	22.69	23.5	1			
3	16QAM	1	14	22.65	22.58	22.63					
3	16QAM	8	0	21.51	21.44	21.39					
3	16QAM	8	4	21.56	21.44	21.49	22.5	2			
3	16QAM	8	7	21.56	21.43	21.45					
3	16QAM	15	0	21.52	21.41	21.40					
3	64QAM	1	0	21.47	21.47	21.42					
3	64QAM	1	8	21.67	21.57	21.59	22.5	2			
3	64QAM	1	14	21.68	21.50	21.55					
3	64QAM	8	0	20.46	20.38	20.34					
3	64QAM	8	4	20.54	20.42	20.44	21.5	3			
3	64QAM	8	7	20.49	20.38	20.38					
3	64QAM	15	0	20.51	20.36	20.39					
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)							1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.98	23.18	23.10					
1.4	QPSK	1	3	23.14	23.22	23.24	24.5	0			
1.4	QPSK	1	5	23.12	23.19	23.19					
1.4	QPSK	3	0	23.02	23.20	23.21					
1.4	QPSK	3	1	23.15	23.26	23.28	23.5	1			
1.4	QPSK	3	3	23.16	23.19	23.27					
1.4	QPSK	6	0	22.17	22.29	22.33					
1.4	16QAM	1	0	22.22	22.48	22.50					
1.4	16QAM	1	3	22.51	22.56	22.57	24.5	1			
1.4	16QAM	1	5	22.53	22.54	22.50					
1.4	16QAM	3	0	22.23	22.31	22.32	23.5	1			
1.4	16QAM	3	1	22.30	22.37	22.37					
1.4	16QAM	3	3	22.26	22.30	22.33					
1.4	16QAM	6	0	21.36	21.35	21.36	22.5	2			
1.4	64QAM	1	0	21.30	21.53	21.49					
1.4	64QAM	1	3	21.46	21.51	21.55					
1.4	64QAM	1	5	21.39	21.48	21.53	22.5	2			
1.4	64QAM	3	0	21.34	21.35	21.35					
1.4	64QAM	3	1	21.29	21.37	21.40					
1.4	64QAM	3	3	21.28	21.31	21.35					
1.4	64QAM	6	0	20.28	20.32	20.32	21.5	3			

ANT10_Band 5 Full Power / DSI 1/3/4/5											
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							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)							20450	20525	20600		
10	QPSK	1	0	24.28	24.44	24.25					
10	QPSK	1	25	24.21	24.18	24.19	25.5	0			
10	QPSK	1	49	24.10	24.04	24.23					
10	QPSK	25	0	23.41	23.58	23.39					
10	QPSK	25	12	23.52	23.55	23.50	24.5	1			
10	QPSK	25	25	23.48	23.48	23.54					
10	QPSK	50	0	23.50	23.58	23.53					
10	16QAM	1	0	23.69	23.67	23.54					
10	16QAM	1	25	23.28	23.55	23.56	24.5	1			
10	16QAM	1	49	23.66	23.62	23.60					
10	16QAM	25	0	22.42	22.45	22.37					
10	16QAM	25	12	22.42	22.52	22.46	23.5				



ANT10_Band 12 Full Power / DSI 1/3/4/5								
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				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.19	24.38	24.11	25.5	0
10	QPSK	1	25	24.17	24.18	24.16		
10	QPSK	1	49	24.28	24.20	24.23		
10	QPSK	25	0	23.32	23.41	23.30	24.5	1
10	QPSK	25	12	23.40	23.30	23.31		
10	QPSK	25	25	23.37	23.35	23.38		
10	QPSK	50	0	23.32	23.37	23.31		
10	16QAM	1	0	23.59	23.55	23.54	24.5	1
10	16QAM	1	25	23.55	23.60	23.55		
10	16QAM	1	49	23.65	23.59	23.57		
10	16QAM	25	0	22.30	22.31	22.35	23.5	2
10	16QAM	25	12	22.38	22.29	22.34		
10	16QAM	25	25	22.31	22.36	22.38		
10	16QAM	50	0	22.38	22.32	22.32		
10	64QAM	1	0	22.51	22.60	22.61	23.5	2
10	64QAM	1	25	22.60	22.50	22.61		
10	64QAM	1	49	22.70	22.58	22.64		
10	64QAM	25	0	21.30	21.29	21.36	22.5	3
10	64QAM	25	12	21.40	21.34	21.36		
10	64QAM	25	25	21.34	21.37	21.38		
10	64QAM	50	0	21.37	21.30	21.30		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	24.18	24.17	24.15	25.5	0
5	QPSK	1	12	24.23	24.22	24.24		
5	QPSK	1	24	24.19	24.22	24.15		
5	QPSK	12	0	23.28	23.27	23.31	24.5	1
5	QPSK	12	7	23.36	23.36	23.30		
5	QPSK	12	13	23.31	23.33	23.25		
5	QPSK	25	0	23.28	23.29	23.30		
5	16QAM	1	0	23.55	23.50	23.51	24.5	1
5	16QAM	1	12	23.48	23.55	23.54		
5	16QAM	1	24	23.55	23.54	23.49		
5	16QAM	12	0	22.32	22.28	22.34	23.5	2
5	16QAM	12	7	22.35	22.37	22.32		
5	16QAM	12	13	22.34	22.35	22.26		
5	16QAM	25	0	22.29	22.31	22.31	23.5	2
5	64QAM	1	0	22.55	22.35	22.40	22.5	3
5	64QAM	1	12	22.38	22.48	22.41		
5	64QAM	1	24	22.38	22.53	22.36		
5	64QAM	12	0	21.30	21.28	21.30	22.5	3
5	64QAM	12	7	21.37	21.35	21.29		
5	64QAM	12	13	21.32	21.32	21.25		
5	64QAM	25	0	21.30	21.29	21.30		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.21	24.16	24.25	25.5	0
3	QPSK	1	8	24.24	24.25	24.25		
3	QPSK	1	14	24.22	24.19	24.14		
3	QPSK	8	0	23.28	23.26	23.33	24.5	1
3	QPSK	8	4	23.33	23.35	23.32		
3	QPSK	8	7	23.31	23.33	23.28		
3	QPSK	15	0	23.33	23.32	23.28	24.5	1
3	16QAM	1	0	23.52	23.50	23.59		
3	16QAM	1	8	23.59	23.56	23.61	24.5	1
3	16QAM	1	14	23.57	23.50	23.49		
3	16QAM	8	0	22.34	22.30	22.36	23.5	2
3	16QAM	8	4	22.39	22.41	22.37		
3	16QAM	8	7	22.35	22.36	22.34		
3	16QAM	15	0	22.34	22.32	22.31	23.5	2
3	64QAM	1	0	22.44	22.41	22.51	23.5	2
3	64QAM	1	8	22.47	22.53	22.48		
3	64QAM	1	14	22.46	22.51	22.45		
3	64QAM	8	0	21.29	21.28	21.36	22.5	3
3	64QAM	8	4	21.36	21.39	21.31		
3	64QAM	8	7	21.32	21.34	21.31		
3	64QAM	15	0	21.33	21.36	21.35		
Channel				23017	23095	23173		
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.30	24.08	24.14	25.5	0
1.4	QPSK	1	3	24.34	24.20	24.13		
1.4	QPSK	1	5	24.27	24.13	24.04		
1.4	QPSK	3	0	24.35	24.09	24.10	24.5	1
1.4	QPSK	3	1	24.32	24.19	24.13		
1.4	QPSK	3	3	24.31	24.16	24.10		
1.4	QPSK	6	0	23.40	23.25	23.18	24.5	1
1.4	16QAM	1	0	23.61	23.40	23.44	24.5	1
1.4	16QAM	1	3	23.69	23.50	23.46		
1.4	16QAM	1	5	23.61	23.46	23.38		
1.4	16QAM	3	0	22.43	23.19	23.20	23.5	2
1.4	16QAM	3	1	23.46	23.30	23.26		
1.4	16QAM	3	3	23.40	23.26	23.15		
1.4	16QAM	6	0	22.48	22.33	22.28	23.5	2
1.4	64QAM	1	0	22.77	22.57	22.69	23.5	2
1.4	64QAM	1	3	22.90	22.71	22.64		
1.4	64QAM	1	5	22.88	22.63	22.63		
1.4	64QAM	3	0	22.71	22.62	22.61	22.5	3
1.4	64QAM	3	1	22.85	22.57	22.51		
1.4	64QAM	3	3	22.74	22.66	22.64		
1.4	64QAM	6	0	21.72	21.60	21.52		

ANT10_Band 17 Full Power / DSI 1/3/4/5								
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				23760	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	24.02	24.24	24.16	25.5	0
10	QPSK	1	25	24.20	24.16	24.15		
10	QPSK	1	49	24.17	24.23	24.21		
10	QPSK	25	0	23.15	23.38	23.18	24.5	1
10	QPSK	25	12	23.33	23.33	23.26		
10	QPSK	25	25	23.36	23.36	23.33		
10	QPSK	50	0	23.26	23.32	23.27		
10	16QAM	1	0	23.40	23.26	23.50	24.5	1
10	16QAM	1	25	23.55	23.56	23.56		
10	16QAM	1	49	23.59	23.60	23.52		
10	16QAM	25	0	22.20	22.17	22.22	23.5	2
10	16QAM	25	12	22.34	22.32	22.29		
10	16QAM	25	25	22.33	22.31	22.41		
10	16QAM	50	0	22.25	22.31	22.27		
10	64QAM	1	0	22.29	22.20	22.45	23.5	2
10	64QAM	1	25	22.58	22.50	22.58		
10	64QAM	1	49	22.61	22.64	22.63		
10	64QAM	25	0	21.19	21.18	21.22	22.5	3
10	64QAM	25	12	21.36	21.34	21.31		
10	64QAM	25	25	21.34	21.28	21.36		
10	64QAM	50	0	21.23	21.28	21.26		
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.76	24.13	24.14	25.5	0
5	QPSK	1	12	23.93	24.20	24.22		
5	QPSK	1	24	24.23	24.20	24.21		
5	QPSK	12	0	22.90	23.32	23.23	24.5	1
5	QPSK	12	7	23.17	23.36	23.28		
5	QPSK	12	13	23.32	23.31	23.24		
5	QPSK	25	0	23.17	23.29	23.25		
5	16QAM	1	0	23.16	23.49	23.45	24.5	1
5	16QAM	1	12	23.29	23.49	23.53		
5	16QAM	1	24	23.45	23.64	23.50		
5	16QAM	12	0	22.04	22.33	22.29	23.5	2
5	16QAM	12	7	22.29	22.33	22.28		
5	16QAM	12	13	22.32	22.33	22.25		
5	16QAM	25	0	22.30	22.34	22.29	23.5	2
5	64QAM	1	0	22.03	22.38	22.39		
5	64QAM	1	12	22.21	22.42	22.38		
5	64QAM	1	24	22.44	22.47	22.43		
5	64QAM	12	0	21.02	21.30	21.25	22.5	3
5	64QAM	12	7	21.23	21.32	21.29		
5	64QAM	12	13	21.31	21.34	21.28		
5	64QAM	25	0	21.29	21.31	21.28		



ANT10_Band 7 DSI 3/5								
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				20850	21100	21350	22.5	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.08	22.24	22.02	22.5	0
20	QPSK	1	49	22.03	22.10	22.05		
20	QPSK	1	99	22.05	22.05	22.04		
20	QPSK	50	0	22.15	22.20	22.13	22.5	0
20	QPSK	50	24	22.15	22.18	22.04		
20	QPSK	50	50	22.12	22.16	22.14		
20	QPSK	100	0	22.19	22.20	22.05	22.5	0
20	16QAM	1	0	22.16	22.17	22.02		
20	16QAM	1	49	22.14	22.22	22.10		
20	16QAM	1	99	22.14	22.20	22.07	22.5	0
20	16QAM	50	0	21.90	21.90	21.76		
20	16QAM	50	24	21.99	21.93	21.82		
20	16QAM	50	50	21.95	21.92	21.87	22.5	0
20	16QAM	100	0	21.93	21.89	21.77		
20	64QAM	1	0	22.03	22.04	21.90		
20	64QAM	1	49	22.05	22.20	21.94	22.5	0
20	64QAM	1	99	21.95	22.21	21.97		
20	64QAM	50	0	21.17	21.18	21.07		
20	64QAM	50	24	21.27	21.24	21.11	21.5	1
20	64QAM	50	50	21.22	21.17	21.16		
20	64QAM	100	0	21.04	21.16	21.10		
Channel				20825	21100	21375	22.5	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.75	21.71	21.72	22.5	0
15	QPSK	1	37	21.74	21.74	21.75		
15	QPSK	1	74	21.73	21.71	21.73		
15	QPSK	36	0	21.81	21.81	21.78	22.5	0
15	QPSK	36	20	21.89	21.83	21.81		
15	QPSK	36	39	21.87	21.81	21.86		
15	QPSK	75	0	21.86	21.79	21.77	22.5	0
15	16QAM	1	0	22.12	22.12	22.10		
15	16QAM	1	37	22.16	22.20	22.14		
15	16QAM	1	74	22.15	22.19	22.10	22.5	0
15	16QAM	36	0	21.83	21.84	21.85		
15	16QAM	36	20	21.93	21.89	21.95		
15	16QAM	36	39	21.92	21.86	21.91	22.5	0
15	16QAM	75	0	21.92	21.87	21.84		
15	64QAM	1	0	22.01	22.07	21.99		
15	64QAM	1	37	21.96	22.21	22.04	22.5	0
15	64QAM	1	74	21.97	22.19	22.04		
15	64QAM	36	0	21.13	21.16	21.14		
15	64QAM	36	20	21.25	21.17	21.25	21.5	1
15	64QAM	36	39	21.19	21.16	21.21		
15	64QAM	75	0	21.22	21.10	21.17		
Channel				20800	21100	21400	22.5	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.70	21.73	21.60	22.5	0
10	QPSK	1	25	21.68	21.67	21.55		
10	QPSK	1	49	21.69	21.67	21.61		
10	QPSK	25	0	21.81	21.83	21.71	22.5	0
10	QPSK	25	12	21.93	21.85	21.74		
10	QPSK	25	25	21.89	21.82	21.78		
10	QPSK	50	0	21.88	21.83	21.71	22.5	0
10	16QAM	1	0	22.12	22.13	22.05		
10	16QAM	1	25	22.14	22.14	22.00		
10	16QAM	1	49	22.15	22.16	22.03	22.5	0
10	16QAM	25	0	21.87	21.87	21.81		
10	16QAM	25	12	21.95	21.92	21.80		
10	16QAM	25	25	21.92	21.85	21.87	22.5	0
10	16QAM	50	0	21.94	21.87	21.76		
10	64QAM	1	0	22.18	22.21	22.06		
10	64QAM	1	25	22.10	22.20	22.07	22.5	0
10	64QAM	1	49	22.16	22.21	22.11		
10	64QAM	25	0	21.17	21.16	21.07		
10	64QAM	25	12	21.29	21.20	21.12	21.5	1
10	64QAM	25	25	21.26	21.20	21.15		
10	64QAM	50	0	21.06	21.13	21.06		
Channel				20775	21100	21425	22.5	0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	21.63	21.59	21.60	22.5	0
5	QPSK	1	12	21.66	21.68	21.73		
5	QPSK	1	24	21.66	21.66	21.64		
5	QPSK	12	0	21.78	21.77	21.74	22.5	0
5	QPSK	12	7	21.81	21.78	21.70		
5	QPSK	12	13	21.80	21.84	21.68		
5	QPSK	25	0	21.78	21.77	21.75	22.5	0
5	16QAM	1	0	21.96	21.97	21.96		
5	16QAM	1	12	22.08	22.00	22.03		
5	16QAM	1	24	22.08	22.10	22.02	22.5	0
5	16QAM	12	0	21.89	21.85	21.79		
5	16QAM	12	7	21.89	21.84	21.79		
5	16QAM	12	13	21.89	21.91	21.80	22.5	0
5	16QAM	25	0	21.88	21.82	21.81		
5	64QAM	1	0	21.94	22.00	21.95		
5	64QAM	1	12	21.93	21.87	21.89	22.5	0
5	64QAM	1	24	21.98	22.01	21.87		
5	64QAM	12	0	21.12	21.16	21.05		
5	64QAM	12	7	21.15	21.15	21.08	21.5	1
5	64QAM	12	13	21.15	21.20	21.06		
5	64QAM	25	0	21.19	21.14	21.06		



**Downlink CA Power
2CA DL**

Configure	CA List	PCC							SCC				Power		
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA	
		Band	(MHz)	Freq (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)	
Intra-Band	Contiguous	CA_2C	Band 2_Are 1	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	24.12	24.20
			Band 2_Are 4	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	24.03	24.25
	Non-Contiguous	CA_41A-41A	Band 41_Are 1	20M	2506	39750	QPSK	1	0	Band 41	5M	2687.5	41565	24.18	24.44
			Band 41_Are 4	20M	2506	39750	QPSK	1	0	Band 41	5M	2687.5	41565	24.32	24.74
			Band 41_Are 8	20M	2506	39750	QPSK	1	0	Band 41	5M	2687.5	41565	24.00	24.02
			Band 41_Are 9	20M	2506	39750	QPSK	1	0	Band 41	5M	2687.5	41565	23.67	23.72
			Band 41_Are 1	20M	2506	39750	QPSK	1	0	Band 41	5M	2687.5	41565	24.18	24.44
			Band 41_Are 4	20M	2506	39750	QPSK	1	0	Band 41	5M	2687.5	41565	24.32	24.74



3CA DL

Configure		PCC								SCC1				SCC2				Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA	
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)	
Inter-Band	CA_2A-4A-5A	Band2_Ant 1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.98	24.2	
		Band2_Ant 4	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	24.12	24.25	
		Band4_Ant 1	20M	25175	1732.5	QPSK	1	0	Band 5	10M	881.5	2525	Band 2	20M	1960	900	24.01	24.27	
		Band4_Ant 4	20M	25175	1732.5	QPSK	1	0	Band 5	10M	881.5	2525	Band 2	20M	1960	900	24.17	24.45	
		Band4_Ant 8	20M	25175	1732.5	QPSK	1	0	Band 5	10M	881.5	2525	Band 2	20M	1960	900	23.21	23.41	
		Band4_Ant 10	20M	25175	1732.5	QPSK	1	0	Band 5	10M	881.5	2525	Band 2	20M	1960	900	23.34	23.46	
		Band5_Ant2	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.51	24.68	
Band 5_Ant10	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.16	24.44			

Configure		PCC								SCC1				SCC2				Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA	
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)	
Inter-Band	CA_2A-7A-7A	Band2_Ant 1	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.09	24.2	
		Band2_Ant 4	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.18	24.25	
		Band7_Ant 1	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.13	24.26	
		Band7_Ant 4	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.06	24.6	
		Band7_Ant 8	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	23.71	23.81	
	Band7_Ant 10	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.15	24.23		
	Band5_Ant 2	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.16	24.68		
	Band5_Ant 10	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.32	24.44		
	Band7_Ant 1	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.1	24.26		
	Band7_Ant 4	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.56	24.6		
Band7_Ant 8	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	23.71	23.81			
Band7_Ant 10	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.29	24.23			



4CA DL

Configure		PCC						SCC1				SCC2				SCC3				Power			
		LTE Band	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL#	UL RB	UL Offset	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	With CA (dBm)	Without CA (dBm)
		Band	Channel	RB	Offset	Band	Channel	Band	Channel	Band	Channel	Band	Channel	Band	Channel	Band	Channel	Band	Channel	Tx. Power	Tx. Power		
Inter-Band	CA_2A-4A-7C	Band 2_Ant 1	20M	1880	1890	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.01	24.2	
		Band 2_Ant 4	20M	1880	1890	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.15	24.25	
		Band 2_Ant 1	20M	2017.5	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.15	24.27	
		Band 4_Ant 4	20M	2017.5	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.15	24.45	
		Band 4_Ant 8	20M	2017.5	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.09	23.41	
		Band 4_Ant 10	20M	2017.5	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.42	23.46	
		Band 7_Ant 1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.15	24.20	
		Band 7_Ant 4	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.58	24.6	
		Band 7_Ant 8	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	23.78	23.81	
		Band 7_Ant 10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.06	24.23	



5CA DL

Configure		PCC						SCC1				SCC2				SCC3				SCC4				Power		
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Inter-Band	CA_5A,7C-66A-66A	Band 5_Ant 2	10M	836.5	20325	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.61	24.68
		Band 5_Ant 10	10M	836.5	20325	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.16	24.44
		Band 7_Ant 1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.2	24.20
		Band 7_Ant 4	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.16	24.4
		Band 7_Ant 8	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	23.16	23.31
		Band 7_Ant 10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.16	24.23
Band 66_Ant 1	20M	1770	132372	QPSK	1	0	Band 66	5M	2112.5	66461	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.35	24.46		
Band 66_Ant 4	20M	1770	132372	QPSK	1	0	Band 66	5M	2112.5	66461	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.31	24.43		

ANT1

n7 SA Full Power / DSI 1/4								
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.83	24.85	24.84	25.5	0.0
20	PI/2 BPSK	1	53	24.91	24.91	24.90		
20	PI/2 BPSK	1	104	24.74	24.73	24.71		
20	PI/2 BPSK	50	0	24.33	24.32	24.35	25.0	0.5
20	PI/2 BPSK	50	28	24.86	24.84	24.81	25.5	0.0
20	PI/2 BPSK	50	56	24.38	24.37	24.39	25.0	0.5
20	PI/2 BPSK	100	0	24.34	24.36	24.40		
20	QPSK	1	1	25.02	25.11	25.07		
20	QPSK	1	53	24.58	24.36	24.73	25.5	0.0
20	QPSK	1	104	24.55	24.63	24.16		
20	QPSK	50	0	22.30	22.54	22.40		
20	QPSK	50	28	24.61	24.78	24.75	24.5	1.0
20	QPSK	50	56	24.02	23.90	23.94	24.5	1.0
20	QPSK	100	0	23.47	23.54	23.44		
20	16QAM	1	1	23.27	23.39	23.48		
20	64QAM	1	1	22.03	22.09	22.06	23.0	2.5
20	256QAM	1	1	20.26	20.28	20.16	21.0	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.77	24.83	24.93	25.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.81	24.86	24.64	25.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	24.85	24.76	24.66	25.5	0.0



n41 SA Full Power / DSI 1/4								
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				509204	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.44	21.42	21.35	22.5	0.0
100	PI/2 BPSK	1	137	21.44	21.27	21.39		
100	PI/2 BPSK	1	271	21.06	21.17	21.36		
100	PI/2 BPSK	135	0	20.70	20.73	20.57	22.5	0.0
100	PI/2 BPSK	135	69	21.07	21.18	21.33		
100	PI/2 BPSK	135	138	20.73	20.66	20.62		
100	PI/2 BPSK	270	0	20.60	20.71	20.55	22.0	0.5
100	QPSK	1	1	22.19	22.39	21.95	22.5	0.0
100	QPSK	1	137	21.27	21.34	21.14		
100	QPSK	1	271	21.01	20.85	21.02		
100	QPSK	135	0	19.80	19.63	19.44	22.5	0.0
100	QPSK	135	69	21.23	21.25	21.19		
100	QPSK	135	138	20.33	20.22	20.11		
100	QPSK	270	0	20.43	20.27	20.24	21.5	1.0
100	16QAM	1	1	20.44	20.42	20.23	21.5	1.0
100	64QAM	1	1	19.15	19.08	19.04	20.0	2.5
100	256QAM	1	1	16.44	16.03	16.64	18.0	4.5
Channel				507204	518598	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	21.29	21.50	21.38	22.5	0.0
Channel				505200	518598	531996	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	21.63	21.23	21.52	22.5	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.50	21.50	21.43	22.5	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.53	21.42	21.24	22.5	0.0



n7 SA DSI 3/5									
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	19.92	19.84	19.58	20.5	0.0	
20	PI/2 BPSK	1	53	19.75	19.79	19.52			
20	PI/2 BPSK	1	104	19.73	19.70	19.99			
20	PI/2 BPSK	50	0	19.74	19.70	19.81	20.5	0.0	
20	PI/2 BPSK	50	28	19.58	19.63	19.92	20.5	0.0	
20	PI/2 BPSK	50	56	19.79	19.75	20.14	20.5	0.0	
20	PI/2 BPSK	100	0	19.66	19.66	19.21			
20	QPSK	1	1	19.91	20.29	20.12			
20	QPSK	1	53	19.97	20.02	19.80	20.5	0.0	
20	QPSK	1	104	19.79	19.87	19.78			
20	QPSK	50	0	19.90	19.90	19.52			
20	QPSK	50	28	19.75	20.08	20.00	20.5	0.0	
20	QPSK	50	56	19.91	19.89	19.42	20.5	1.0	
20	QPSK	100	0	19.73	19.81	19.54			
20	16QAM	1	1	19.90	19.83	19.51			
20	64QAM	1	1	19.79	19.81	19.93	20.5	0.0	
20	256QAM	1	1	19.91	19.84	19.60	20.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.88	19.78	19.51	20.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.92	19.81	20.21	20.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.92	19.86	20.26	20.5	0.0	



n41 SA DSI 3/5

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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.35	19.33	19.28	19.5	0.0
100	PI/2 BPSK	1	137	19.19	19.16	19.10		
100	PI/2 BPSK	1	271	18.70	18.74	18.74		
100	PI/2 BPSK	135	0	19.18	19.24	19.21	19.5	0.0
100	PI/2 BPSK	135	69	19.16	19.02	19.00		
100	PI/2 BPSK	135	138	18.87	18.83	18.91		
100	PI/2 BPSK	270	0	18.98	19.02	19.05	19.5	0.0
100	QPSK	1	1	19.31	19.41	19.38	19.5	0.0
100	QPSK	1	137	19.07	19.06	19.06		
100	QPSK	1	271	18.76	18.79	18.74		
100	QPSK	135	0	18.86	19.11	19.11	19.5	0.0
100	QPSK	135	69	19.11	19.23	19.00		
100	QPSK	135	138	18.92	18.94	18.89		
100	QPSK	270	0	18.91	18.97	19.05	19.5	0.0
100	16QAM	1	1	19.18	19.15	19.22	19.5	0.0
100	64QAM	1	1	19.15	19.09	19.06	19.5	0.0
100	256QAM	1	1	17.66	17.52	17.59	18.0	1.5
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.40	19.33	19.41	19.5	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.35	19.26	19.30	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.32	19.30	19.42	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.45	19.37	19.43	19.5	0.0



ANT2

n5 NSA Full Power								
BW [MHz]	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	25.27	25.39	25.33		
20	PI/2 BPSK	1	53	25.37	25.42	25.32	25.5	0.0
20	PI/2 BPSK	1	104	25.16	25.23	25.11		
20	PI/2 BPSK	50	0	24.72	24.81	24.67	25.0	0.5
20	PI/2 BPSK	50	28	25.30	25.41	25.36	25.5	0.0
20	PI/2 BPSK	50	56	24.69	24.80	24.69		
20	PI/2 BPSK	100	0	24.78	24.87	24.76	25.0	0.5
20	QPSK	1	1	25.45	25.45	25.44		
20	QPSK	1	53	25.41	25.40	25.43	25.5	0.0
20	QPSK	1	104	25.34	25.39	25.27		
20	QPSK	50	0	24.35	24.42	24.29	24.5	1.0
20	QPSK	50	28	25.40	25.43	25.42	25.5	0.0
20	QPSK	50	56	24.24	24.37	24.23		
20	QPSK	100	0	24.39	24.49	24.40	24.5	1.0
20	16QAM	1	1	24.32	24.39	24.24	24.5	1.0
20	64QAM	1	1	23.27	23.36	23.25	23.0	2.5
20	256QAM	1	1	20.70	20.82	20.74	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	25.19	25.20	25.15	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	25.17	25.32	25.25	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	25.29	25.39	25.23	25.5	0.0



n77 SA Full Power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.08	22.17	22.18	24.5	0.0
100	PI/2 BPSK	1	137	22.29	22.32	22.32		
100	PI/2 BPSK	1	271	22.55	22.39	22.40		
100	PI/2 BPSK	135	0	22.19	22.32	22.34	24.5	0.0
100	PI/2 BPSK	135	69	22.55	22.43	22.41		
100	PI/2 BPSK	135	138	22.40	22.47	22.44		
100	PI/2 BPSK	270	0	22.51	22.54	22.56	24.0	0.5
100	QPSK	1	1	22.61	22.63	22.48		
100	QPSK	1	137	22.52	22.62	22.60		
100	QPSK	1	271	22.56	22.53	22.57	24.5	0.0
100	QPSK	135	0	22.04	22.08	22.28		
100	QPSK	135	69	22.58	22.59	22.52		
100	QPSK	135	138	22.52	22.52	22.51	23.5	1.0
100	QPSK	270	0	22.45	22.55	22.59		
100	16QAM	1	1	22.49	22.36	22.38		
100	64QAM	1	1	21.78	21.72	21.70	22.0	2.5
100	256QAM	1	1	19.83	19.84	19.87		

HPUE n77 SA Full Power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.04	24.14	24.08	26.0	0.0
100	PI/2 BPSK	1	137	24.12	24.21	24.14		
100	PI/2 BPSK	1	271	24.23	24.28	24.22		
100	PI/2 BPSK	135	0	23.52	23.62	23.57	25.5	0.0
100	PI/2 BPSK	135	69	23.95	24.11	24.05		
100	PI/2 BPSK	135	138	23.58	23.71	23.66		
100	PI/2 BPSK	270	0	23.54	23.66	23.66	25.5	0.5
100	QPSK	1	1	24.16	24.30	24.27		
100	QPSK	1	137	24.09	24.18	24.13		
100	QPSK	1	271	24.10	24.27	24.19	26.0	0.0
100	QPSK	135	0	23.10	23.31	23.22		
100	QPSK	135	69	24.13	24.21	24.15		
100	QPSK	135	138	23.18	23.30	23.25	25.0	0.0
100	QPSK	270	0	23.10	23.21	23.15		
100	QPSK	1	1	23.04	23.15	23.08		
100	16QAM	1	1	21.36	21.55	21.48	23.5	2.5
100	64QAM	1	1	21.36	21.55	21.48		
100	256QAM	1	1	19.70	19.81	19.74	21.5	4.5



n5 NSA DSI 1/5								
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				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	19.37	19.32	19.42	19.5	0.0
20	PI/2 BPSK	1	53	19.22	19.11	19.13		
20	PI/2 BPSK	1	104	19.10	19.09	19.18		
20	PI/2 BPSK	50	0	19.21	19.25	19.20	19.5	0.0
20	PI/2 BPSK	50	28	19.11	19.17	19.12	19.5	0.0
20	PI/2 BPSK	50	56	18.99	19.07	19.18	19.5	0.0
20	PI/2 BPSK	100	0	19.12	19.19	19.13		
20	PI/2 BPSK	1	1	19.36	19.45	19.44		
20	QPSK	1	53	19.20	19.27	19.25	19.5	0.0
20	QPSK	1	104	19.01	19.06	19.07		
20	QPSK	50	0	19.22	19.27	19.20		
20	QPSK	50	28	19.20	19.35	19.22	19.5	0.0
20	QPSK	50	56	19.13	19.18	19.15	19.5	0.0
20	QPSK	100	0	19.17	19.20	19.20		
20	16QAM	1	1	19.40	19.42	19.36		
20	64QAM	1	1	19.38	19.33	19.26	19.5	0.0
20	256QAM	1	1	19.32	19.36	19.34	19.5	0.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.34	19.43	19.38	19.5	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	19.29	19.24	19.35	19.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	19.15	19.28	19.40	19.5	0.0

n5 NSA DSI 3/4								
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	PI/2 BPSK	1	1	24.36	24.41	24.47	24.5	0.0
20	PI/2 BPSK	1	53	24.39	24.36	24.38		
20	PI/2 BPSK	1	104	24.18	24.17	24.14		
20	PI/2 BPSK	50	0	24.31	24.35	24.32	24.5	0.0
20	PI/2 BPSK	50	28	24.30	24.27	24.28	24.5	0.0
20	PI/2 BPSK	50	56	24.23	24.22	24.25	24.5	0.0
20	PI/2 BPSK	100	0	24.25	24.27	24.24		
20	QPSK	1	1	24.39	24.48	24.33		
20	QPSK	1	53	24.41	24.45	24.45	24.5	0.0
20	QPSK	1	104	24.22	24.23	24.22		
20	QPSK	50	0	24.38	24.40	24.36		
20	QPSK	50	28	24.36	24.42	24.38	24.5	0.0
20	QPSK	50	56	24.27	24.27	24.23	24.5	0.0
20	QPSK	100	0	24.39	24.37	24.31		
20	16QAM	1	1	24.46	24.47	24.41		
20	64QAM	1	1	22.98	23.03	23.07	23.0	1.5
20	256QAM	1	1	20.76	20.74	20.69	21.0	3.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.26	24.30	24.43	24.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.30	24.37	24.41	24.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.41	24.44	24.35	24.5	0.0



PC2/3 n77 SA DSI 1/5									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	16.62	16.64	16.50			
100	PI/2 BPSK	1	137	16.17	16.20	16.20	18.0	0.0	
100	PI/2 BPSK	1	271	16.49	16.62	16.53			
100	PI/2 BPSK	135	0	16.11	16.13	16.22	18.0		
100	PI/2 BPSK	135	69	16.28	16.24	16.09	18.0	0.0	
100	PI/2 BPSK	135	138	16.26	16.37	16.09	18.0		
100	PI/2 BPSK	270	0	16.32	16.21	16.27	18.0	0.0	
100	QPSK	1	1	16.73	16.85	16.68			
100	QPSK	1	137	16.29	16.24	16.17	18.0	0.0	
100	QPSK	1	271	16.60	16.84	16.70			
100	QPSK	135	0	15.90	15.85	15.70	18.0		
100	QPSK	135	69	16.25	16.35	16.17	18.0	0.0	
100	QPSK	135	138	15.94	15.81	15.69	18.0		
100	QPSK	270	0	16.23	16.25	16.30	18.0	0.0	
100	16QAM	1	1	16.60	16.56	16.46	18.0	0.0	
100	64QAM	1	1	16.69	16.66	16.71	18.0	0.0	
100	256QAM	1	1	16.08	16.06	16.22	18.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.67	16.67	16.47	18.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.61	16.62	16.47	18.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.55	16.62	16.47	18.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.69	16.61	16.52	18.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.63	16.62	16.50	18.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.51	16.73	16.49	18.0	0.0	

PC2/3 n77 SA DSI 3/4									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.42	22.49	22.47			
100	PI/2 BPSK	1	137	22.52	22.59	22.48	24.0	0.0	
100	PI/2 BPSK	1	271	22.60	22.58	22.61			
100	PI/2 BPSK	135	0	21.40	21.41	21.52	24.0		
100	PI/2 BPSK	135	69	22.05	22.12	22.19	24.0	0.0	
100	PI/2 BPSK	135	138	22.16	22.11	22.18	24.0		
100	PI/2 BPSK	270	0	22.13	22.14	22.22	24.0	0.0	
100	QPSK	1	1	22.53	22.65	22.56			
100	QPSK	1	137	22.39	22.44	22.39	24.0	0.0	
100	QPSK	1	271	22.56	22.54	22.43			
100	QPSK	135	0	22.55	22.48	22.37	24.0		
100	QPSK	135	69	22.42	22.56	22.40	24.0	0.0	
100	QPSK	135	138	22.38	22.40	22.43	24.0		
100	QPSK	270	0	22.53	22.50	22.44	24.0	0.0	
100	16QAM	1	1	22.58	22.55	22.56	24.0	0.0	
100	64QAM	1	1	22.51	22.46	22.37	24.0	0.5	
100	256QAM	1	1	20.15	20.13	20.17	24.0	2.5	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.52	22.59	22.38	24.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.37	22.42	22.40	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.51	22.47	22.44	24.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.36	22.53	22.44	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.40	22.46	22.48	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.44	22.42	22.50	24.0	0.0	



ANT3

n77 SA Full Power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.37	24.25	24.22	25.7	0.0
100	PI/2 BPSK	1	137	24.16	24.39	24.35		
100	PI/2 BPSK	1	271	24.68	24.64	24.58		
100	PI/2 BPSK	135	0	24.77	24.66	24.68	25.7	0.0
100	PI/2 BPSK	135	69	24.46	24.61	24.65		
100	PI/2 BPSK	135	138	24.64	24.73	24.71		
100	PI/2 BPSK	270	0	24.54	24.78	24.88	25.2	0.5
100	QPSK	1	1	24.88	25.07	24.82	25.7	0.0
100	QPSK	1	137	24.72	24.45	24.30		
100	QPSK	1	271	24.95	24.88	24.83		
100	QPSK	135	0	24.58	24.45	24.55	25.7	0.0
100	QPSK	135	69	25.02	25.04	24.96		
100	QPSK	135	138	24.97	24.84	24.78		
100	QPSK	270	0	23.90	23.89	23.87	24.7	1.0
100	16QAM	1	1	23.80	23.58	23.66	24.7	1.0
100	64QAM	1	1	22.80	22.52	22.52	23.2	2.5
100	256QAM	1	1	20.44	20.34	20.35	21.2	4.5

HPUE n77 SA Full Power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	26.41	26.48	26.43	27.5	0.0
100	PI/2 BPSK	1	137	26.38	26.51	26.41		
100	PI/2 BPSK	1	271	26.42	26.48	26.40		
100	PI/2 BPSK	135	0	25.79	25.95	25.83	27.0	0.0
100	PI/2 BPSK	135	69	26.34	26.43	26.31		
100	PI/2 BPSK	135	138	25.90	25.97	25.88		
100	PI/2 BPSK	270	0	25.83	25.94	25.86	27.0	0.5
100	QPSK	1	1	26.35	26.53	26.40	27.5	0.0
100	QPSK	1	137	26.44	26.52	26.45		
100	QPSK	1	271	26.41	26.50	26.44		
100	QPSK	135	0	25.38	25.49	25.35	26.5	0.0
100	QPSK	135	69	26.34	26.41	26.30		
100	QPSK	135	138	25.41	25.53	25.44		
100	QPSK	270	0	25.31	25.44	25.36	26.5	1.0
100	16QAM	1	1	25.32	25.45	25.35	26.5	1.0
100	64QAM	1	1	24.11	24.25	24.18	25.0	2.5
100	256QAM	1	1	21.82	21.91	21.82	23.0	4.5



PC2/3 n77 SA DSI 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)				3750	3840	3930		
100	PI2 BPSK	1	1	18.61	18.51	18.80		
100	PI2 BPSK	1	137	18.43	18.44	18.40	19.5	0.0
100	PI2 BPSK	135	0	18.39	18.53	18.50	19.5	
100	PI2 BPSK	135	69	18.20	18.46	18.47	19.5	0.0
100	PI2 BPSK	135	138	18.43	18.40	18.31	19.5	
100	PI2 BPSK	270	0	18.58	18.46	18.47	19.5	0.0
100	QPSK	1	1	18.55	18.71	18.83		
100	QPSK	1	137	18.52	18.44	18.51	19.5	0.0
100	QPSK	1	271	18.67	18.20	18.48		
100	QPSK	135	0	18.52	18.49	18.54	19.5	
100	QPSK	135	69	18.60	18.62	18.43	19.5	0.0
100	QPSK	135	138	18.49	18.42	18.51	19.5	
100	QPSK	270	0	18.37	18.49	18.38	19.5	0.0
100	16QAM	1	1	18.99	18.98	18.84	19.5	0.0
100	16QAM	1	1	18.59	18.48	18.59	19.5	0.0
100	256QAM	1	1	18.65	18.49	18.84	19.5	0.0
Channel								
Frequency (MHz)				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.62	18.54	18.65	19.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.79	18.42	18.58	19.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.75	18.53	18.56	19.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3965.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.80	18.47	18.52	19.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.72	18.44	18.53	19.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.90	18.44	18.61	19.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	17.21	17.23	17.04		
100	PI2 BPSK	1	137	16.82	16.97	17.08	18.5	0.0
100	PI2 BPSK	135	0	17.17	16.99	16.79	18.5	
100	PI2 BPSK	135	69	16.88	16.92	16.96	18.5	0.0
100	PI2 BPSK	135	138	16.99	16.93	16.76	18.5	
100	PI2 BPSK	270	0	16.95	16.96	17.17	18.5	0.0
100	QPSK	1	1	17.09	17.32	17.12		
100	QPSK	1	137	16.95	16.93	16.93	18.5	0.0
100	QPSK	1	271	17.00	16.98	16.84		
100	QPSK	135	0	17.15	17.03	17.12	18.5	
100	QPSK	135	69	16.96	17.21	16.99	18.5	0.0
100	QPSK	135	138	16.76	16.84	16.67	18.5	
100	QPSK	270	0	16.99	16.95	16.99	18.5	0.0
100	16QAM	1	1	16.83	16.97	16.92	18.5	0.0
100	16QAM	1	1	17.06	17.29	17.14	18.5	0.0
100	256QAM	1	1	17.25	17.13	16.84	18.5	0.0
Channel								
Frequency (MHz)				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	17.02	17.36	17.16	18.5	0.0
Channel								
Frequency (MHz)				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	17.27	17.24	17.13	18.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	17.27	17.24	17.13	18.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	17.10	17.24	16.90	18.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	17.02	17.05	17.23	18.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3965.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	17.24	17.35	16.96	18.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	17.02	17.05	17.23	18.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.19	17.31	17.10	18.5	0.0

PC2/3 n77 SA 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)				3750	3840	3930		
100	PI2 BPSK	1	1	25.37	25.40	25.18		
100	PI2 BPSK	1	137	25.07	25.25	25.19	26.5	0.0
100	PI2 BPSK	135	0	25.19	25.33	25.23	26.5	
100	PI2 BPSK	135	69	25.40	25.24	25.46	26.5	0.0
100	PI2 BPSK	135	138	25.17	25.27	25.53	26.5	
100	PI2 BPSK	270	0	25.03	25.26	25.49	26.5	0.0
100	QPSK	1	1	25.65	25.78	25.71		
100	QPSK	1	137	25.61	25.37	25.30	26.5	0.0
100	QPSK	1	271	25.60	25.46	25.62		
100	QPSK	135	0	25.41	25.37	25.24	26.5	
100	QPSK	135	69	25.35	25.42	25.37	26.5	0.0
100	QPSK	135	138	25.36	25.33	25.20	26.5	
100	QPSK	270	0	25.15	25.31	25.28	26.5	0.0
100	16QAM	1	1	25.44	25.62	25.60	26.5	0.0
100	16QAM	1	1	24.35	24.22	24.10	26.5	1.5
100	256QAM	1	1	22.06	21.98	22.05	26.5	3.5
Channel								
Frequency (MHz)				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.57	25.23	25.43	26.5	0.0
Channel								
Frequency (MHz)				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.17	25.64	24.98	26.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.10	25.63	25.22	26.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.17	25.64	24.98	26.5	0.0
Channel								
Frequency (MHz)				648668	656000	663668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.10	25.63	25.22	26.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3965.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.12	25.13	25.43	26.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.25	25.35	25.40	26.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.58	25.29	24.91	26.5	0.0



ANT4

n7 SA Full Power								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	25.38	25.15	25.33	25.5	0.0
20	PI/2 BPSK	1	53	25.40	25.28	25.48		
20	PI/2 BPSK	1	104	25.20	25.27	25.31		
20	PI/2 BPSK	50	0	24.55	24.88	25.07	25.0	0.5
20	PI/2 BPSK	50	28	25.47	25.38	25.29	25.5	0.0
20	PI/2 BPSK	50	56	24.67	24.99	24.79	25.0	0.5
20	PI/2 BPSK	100	0	25.03	24.93	25.11		
20	QPSK	1	1	25.38	25.48	25.32	25.5	0.0
20	QPSK	1	53	25.37	25.24	25.16		
20	QPSK	1	104	25.33	25.41	25.40		
20	QPSK	50	0	23.69	24.03	24.08	24.5	1.0
20	QPSK	50	28	25.33	25.39	25.31	25.5	0.0
20	QPSK	50	56	24.27	24.46	24.50	24.5	1.0
20	QPSK	100	0	24.24	24.29	24.17		
20	16QAM	1	1	24.05	23.74	23.72	24.5	1.0
20	64QAM	1	1	22.59	22.55	22.52	23.0	2.5
20	256QAM	1	1	20.82	20.95	20.84	21.0	4.5
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	24.49	24.87	24.74	25.5	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	24.53	24.57	24.72	25.5	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	24.37	24.75	24.47	25.5	0.0



n41 SA Full Power / 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	22.07	21.95	21.92	23.0	0.0
100	PI/2 BPSK	1	137	21.80	21.78	21.83		
100	PI/2 BPSK	1	271	21.64	21.58	21.60		
100	PI/2 BPSK	135	0	21.45	21.35	21.32	23.0	0.0
100	PI/2 BPSK	135	69	21.70	21.78	21.81		
100	PI/2 BPSK	135	138	21.24	21.24	21.22		
100	PI/2 BPSK	270	0	21.20	21.33	21.34	22.5	0.5
100	QPSK	1	1	22.25	22.28	22.05	23.0	0.0
100	QPSK	1	137	21.76	21.77	21.71		
100	QPSK	1	271	21.41	21.42	21.46		
100	QPSK	135	0	21.25	20.99	20.87	23.0	0.0
100	QPSK	135	69	21.75	21.62	21.81		
100	QPSK	135	138	20.75	20.77	20.77		
100	QPSK	270	0	20.73	20.85	20.90	22.0	1.0
100	16QAM	1	1	20.63	20.58	20.61	22.0	1.0
100	64QAM	1	1	19.00	19.02	19.01	20.5	2.5
100	256QAM	1	1	17.39	17.34	17.37	18.5	4.5
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.27	21.76	21.82	23.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.01	21.99	21.77	23.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.09	22.15	22.10	23.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.20	22.12	22.02	23.0	0.0



n7 SA DSI 1/5

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)				2510	2535	2560		
20	PI2 BPSK	1	1	16.30	16.32	16.25	16.5	0.0
20	PI2 BPSK	1	53	16.05	16.23	16.25		
20	PI2 BPSK	1	104	16.05	16.22	16.07		
20	PI2 BPSK	50	0	16.14	16.28	16.10	16.5	0.0
20	PI2 BPSK	50	28	16.06	16.23	16.16	16.5	0.0
20	PI2 BPSK	50	56	16.13	16.22	16.13	16.5	0.0
20	PI2 BPSK	100	0	16.09	16.21	16.13		
20	PI2 BPSK	1	1	16.23	16.40	16.33		
20	QPSK	1	53	16.27	16.38	16.34	16.5	0.0
20	QPSK	1	104	16.14	16.23	16.21	16.5	1.0
20	QPSK	50	0	16.21	16.27	16.25		
20	QPSK	50	28	16.11	16.31	15.99		
20	QPSK	50	56	16.05	16.23	16.08	16.5	1.0
20	QPSK	100	0	16.23	16.24	16.22	16.5	0.0
20	16QAM	1	1	16.26	16.37	16.17		
20	16QAM	1	1	16.04	16.05	16.01		
20	256QAM	1	1	16.21	16.28	16.32	16.5	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.07	16.36	16.12	16.5	0.0
Channel								
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.14	16.32	16.13	16.5	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.01	16.22	16.10	16.5	0.0

n7 SA 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								
Frequency (MHz)				2910	2935	2960		
20	PI2 BPSK	1	1	18.12	18.20	18.20	18.5	0.0
20	PI2 BPSK	1	53	18.24	18.22	18.14		
20	PI2 BPSK	1	104	18.14	18.18	18.18		
20	PI2 BPSK	50	0	18.13	18.22	18.13	18.5	0.0
20	PI2 BPSK	50	28	18.06	18.23	18.16	18.5	0.0
20	PI2 BPSK	50	56	18.08	18.14	18.04	18.5	0.0
20	PI2 BPSK	100	0	18.18	18.17	18.15		
20	QPSK	1	1	18.18	18.25	18.17		
20	QPSK	1	53	18.19	18.15	18.11	18.5	0.0
20	QPSK	1	104	17.95	18.17	18.15	17.5	1.0
20	QPSK	50	0	18.04	18.23	18.18		
20	QPSK	50	28	18.10	18.23	18.12		
20	QPSK	50	56	18.10	18.20	18.12	17.5	1.0
20	QPSK	100	0	18.02	18.22	18.20	18.5	0.0
20	16QAM	1	1	17.76	17.94	17.92		
20	16QAM	1	1	18.11	18.18	18.16		
20	256QAM	1	1	17.98	18.17	18.11	18.5	0.0
Channel								
Frequency (MHz)				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.04	18.16	18.10	18.5	0.0
Channel								
Frequency (MHz)				2905	2935	2965		
10	QPSK	1	1	18.17	18.02	18.07	18.5	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.11	18.18	18.10	18.5	0.0

n7 SA 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)				2410	2535	2560		
20	PI2 BPSK	1	1	24.16	24.23	24.13	24.5	0.0
20	PI2 BPSK	1	53	24.21	24.27	24.25		
20	PI2 BPSK	1	104	24.14	24.20	24.25		
20	PI2 BPSK	50	0	24.16	24.24	24.34	24.5	0.0
20	PI2 BPSK	50	28	24.18	24.27	24.32	24.5	0.0
20	PI2 BPSK	50	56	24.21	24.21	24.07	24.5	0.0
20	PI2 BPSK	100	0	24.21	24.26	24.20		
20	QPSK	1	1	24.25	24.40	24.27		
20	QPSK	1	53	24.28	24.31	24.33	24.5	0.0
20	QPSK	1	104	24.18	24.27	24.23	24.5	1.0
20	QPSK	50	0	24.28	24.29	24.17		
20	QPSK	50	28	24.30	24.30	24.26		
20	QPSK	50	56	24.21	24.29	24.15	23.5	1.0
20	QPSK	100	0	24.26	24.31	24.22	24.5	0.0
20	16QAM	1	1	23.97	23.84	23.47		
20	16QAM	1	1	22.40	22.50	22.36		
20	256QAM	1	1	20.79	20.84	20.73	21.0	3.5
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.85	24.23	24.08	24.5	0.0
Channel								
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.19	24.16	24.07	24.5	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.22	24.22	24.18	24.5	0.0



n41 SA DSI 1/5								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.18	19.19	18.94	20.0	0.0
100	PI/2 BPSK	1	137	18.96	19.09	19.05		
100	PI/2 BPSK	1	271	18.83	18.92	18.93		
100	PI/2 BPSK	135	0	19.01	19.06	19.16	20.0	0.0
100	PI/2 BPSK	135	69	18.91	19.03	18.88		
100	PI/2 BPSK	135	138	18.78	18.87	18.96		
100	PI/2 BPSK	270	0	18.90	19.01	18.96	20.0	0.0
100	QPSK	1	1	19.20	19.28	19.05	20.0	0.0
100	QPSK	1	137	19.06	19.07	19.05		
100	QPSK	1	271	18.98	18.94	18.91		
100	QPSK	135	0	19.11	19.11	19.10	20.0	0.0
100	QPSK	135	69	19.04	19.12	18.82		
100	QPSK	135	138	18.88	18.93	19.04		
100	QPSK	270	0	19.03	18.99	18.92	20.0	0.0
100	16QAM	1	1	18.80	18.92	18.95	20.0	0.0
100	64QAM	1	1	18.67	18.80	18.56	20.0	0.0
100	256QAM	1	1	18.04	18.05	18.13	18.5	1.5
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.22	19.27	19.15	20.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.13	19.14	18.89	20.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.05	19.22	18.83	20.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.13	19.12	18.84	20.0	0.0

n41 SA 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.25	20.28	20.15	21.0	0.0
100	PI/2 BPSK	1	137	20.02	20.07	19.98		
100	PI/2 BPSK	1	271	19.92	19.92	19.94		
100	PI/2 BPSK	135	0	19.95	19.99	19.99	21.0	0.0
100	PI/2 BPSK	135	69	19.88	20.02	19.88		
100	PI/2 BPSK	135	138	19.88	19.94	20.01		
100	PI/2 BPSK	270	0	19.98	20.04	19.97	21.0	0.0
100	QPSK	1	1	20.23	20.32	20.30	21.0	0.0
100	QPSK	1	137	20.10	20.08	20.00		
100	QPSK	1	271	19.78	19.89	19.77		
100	QPSK	135	0	20.06	20.04	20.08	21.0	0.0
100	QPSK	135	69	19.97	20.15	20.00		
100	QPSK	135	138	19.85	19.99	19.89		
100	QPSK	270	0	19.94	20.04	19.91	21.0	0.0
100	16QAM	1	1	19.99	20.00	19.95	21.0	0.0
100	64QAM	1	1	19.43	19.56	19.50	21.0	0.0
100	256QAM	1	1	17.25	17.37	17.23	19.5	3.5
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.26	20.30	20.06	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.19	20.29	20.14	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.99	20.23	20.15	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.20	20.17	20.05	21.0	0.0



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n77 SA Full Power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				690000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.36	23.36	23.35	25.7	0.0
100	PI/2 BPSK	1	137	23.52	23.57	23.56		
100	PI/2 BPSK	1	271	23.77	23.76	23.75		
100	PI/2 BPSK	135	0	23.64	23.66	23.69	25.7	0.0
100	PI/2 BPSK	135	69	23.79	23.83	23.81		
100	PI/2 BPSK	135	138	23.81	23.85	23.83		
100	PI/2 BPSK	270	0	23.84	23.88	23.89	25.2	0.5
100	QPSK	1	1	24.35	24.47	24.26	25.7	0.0
100	QPSK	1	137	23.38	23.32	23.31		
100	QPSK	1	271	24.26	24.22	24.20		
100	QPSK	135	0	23.75	23.72	23.97	25.7	0.0
100	QPSK	135	69	23.65	23.96	23.88		
100	QPSK	135	138	23.92	23.89	23.89		
100	QPSK	270	0	23.97	23.93	23.95	24.7	1.0
100	16QAM	1	1	24.43	24.38	24.40	24.7	1.0
100	64QAM	1	1	22.83	22.85	22.86	23.2	2.5
100	256QAM	1	1	20.84	20.88	20.87	21.2	4.5

HPUE n77 SA Full Power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.41	25.45	25.37	27.0	0.0
100	PI/2 BPSK	1	137	25.50	25.49	25.43		
100	PI/2 BPSK	1	271	25.50	25.52	25.45		
100	PI/2 BPSK	135	0	24.90	24.91	24.82	26.5	0.0
100	PI/2 BPSK	135	69	25.36	25.41	25.34		
100	PI/2 BPSK	135	138	24.94	24.95	24.88		
100	PI/2 BPSK	270	0	24.88	24.92	24.83	26.5	0.5
100	QPSK	1	1	25.52	25.63	25.58	27.0	0.0
100	QPSK	1	137	25.48	25.60	25.48		
100	QPSK	1	271	25.56	25.57	25.49		
100	QPSK	135	0	24.22	24.45	24.41	26.0	0.0
100	QPSK	135	69	25.42	25.47	25.39		
100	QPSK	135	138	24.54	24.54	24.45		
100	QPSK	270	0	24.41	24.44	24.37	26.0	1.0
100	16QAM	1	1	24.59	24.61	24.53	26.0	1.0
100	64QAM	1	1	23.15	23.15	23.08	24.5	2.5
100	256QAM	1	1	20.94	20.94	20.87	22.5	4.5



PC2/3 n77 SA DSI 1/5

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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.69	17.76	17.62	19.0	0.0
100	PI/2 BPSK	1	137	17.63	17.66	17.54		
100	PI/2 BPSK	1	271	17.65	17.67	17.60		
100	PI/2 BPSK	135	0	17.56	17.59	17.51	19.0	0.0
100	PI/2 BPSK	135	69	17.50	17.59	17.40	19.0	
100	PI/2 BPSK	135	138	17.60	17.67	17.54	19.0	
100	PI/2 BPSK	270	0	17.54	17.64	17.52	19.0	0.0
100	QPSK	1	1	17.82	17.95	17.85	19.0	0.0
100	QPSK	1	137	17.44	17.50	17.37		
100	QPSK	1	271	17.61	17.62	17.57		
100	QPSK	135	0	17.74	17.60	17.38	19.0	0.0
100	QPSK	135	69	17.61	17.75	17.64	19.0	
100	QPSK	135	138	17.43	17.52	17.39	19.0	
100	QPSK	270	0	17.61	17.62	17.55	19.0	0.0
100	16QAM	1	1	17.60	17.60	17.57	19.0	0.0
100	64QAM	1	1	17.62	17.69	17.58	19.0	0.0
100	256QAM	1	1	17.83	17.88	17.78	19.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.13	17.15	17.11	19.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.16	17.19	17.10	19.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.11	17.19	17.05	19.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.15	17.20	17.13	19.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.18	17.16	17.05	19.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.15	17.18	17.06	19.0	0.0

PC2/3 n77 SA DSI 3/4

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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.40	19.47	19.36	21.0	0.0
100	PI/2 BPSK	1	137	19.33	19.36	19.30		
100	PI/2 BPSK	1	271	19.36	19.39	19.27		
100	PI/2 BPSK	135	0	19.29	19.35	19.28	21.0	0.0
100	PI/2 BPSK	135	69	19.28	19.34	19.20	21.0	
100	PI/2 BPSK	135	138	19.22	19.27	19.13	21.0	
100	PI/2 BPSK	270	0	19.32	19.38	19.26	21.0	0.0
100	QPSK	1	1	19.61	19.65	19.57	21.0	0.0
100	QPSK	1	137	19.31	19.37	19.25		
100	QPSK	1	271	19.43	19.45	19.39		
100	QPSK	135	0	19.38	19.33	19.43	21.0	0.0
100	QPSK	135	69	19.38	19.48	19.28	21.0	
100	QPSK	135	138	19.24	19.31	19.14	21.0	
100	QPSK	270	0	19.42	19.33	19.37	21.0	0.0
100	16QAM	1	1	19.28	19.29	19.21	21.0	0.0
100	64QAM	1	1	19.44	19.43	19.43	21.0	0.0
100	256QAM	1	1	19.55	19.44	19.48	21.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.14	19.25	19.12	21.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.14	19.23	19.17	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.19	19.19	19.15	21.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.10	19.22	19.07	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.18	19.25	19.16	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.19	19.21	19.13	21.0	0.0



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n7 SA Full Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.50	24.40	24.32	25.0	0.0	
20	PI/2 BPSK	1	53	23.37	24.45	24.36			
20	PI/2 BPSK	1	104	23.51	24.40	24.27			
20	PI/2 BPSK	50	0	23.49	23.91	23.79	24.5	0.5	
20	PI/2 BPSK	50	28	23.80	24.46	24.40	25.0	0.0	
20	PI/2 BPSK	50	56	23.23	24.01	23.87	24.5	0.5	
20	PI/2 BPSK	100	0	23.12	23.85	23.75			
20	QPSK	1	1	24.40	24.51	24.41	25.0	0.0	
20	QPSK	1	53	23.32	23.52	23.38			
20	QPSK	1	104	23.48	23.70	23.60			
20	QPSK	50	0	22.81	22.94	22.99	24.0	1.0	
20	QPSK	50	28	23.74	23.98	23.89	25.0	0.0	
20	QPSK	50	56	22.40	23.25	23.11	24.0	1.0	
20	QPSK	100	0	22.53	23.15	23.07			
20	16QAM	1	1	21.94	22.97	22.86	24.0	1.0	
20	64QAM	1	1	21.79	21.94	21.86	22.5	2.5	
20	256QAM	1	1	19.43	19.89	19.77	20.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2502.5			
15	QPSK	1	1	23.44	24.28	24.14	25.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.48	24.37	24.30	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	23.52	24.43	24.33	25.0	0.0	

n7 NSA Full Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	24.34	24.42	24.34	25.0	0.0	
20	PI/2 BPSK	1	53	24.35	24.45	24.42			
20	PI/2 BPSK	1	104	24.33	24.43	24.36			
20	PI/2 BPSK	50	0	23.82	23.91	23.83	24.5	0.5	
20	PI/2 BPSK	50	28	24.41	24.42	24.37	25.0	0.0	
20	PI/2 BPSK	50	56	23.93	23.94	23.92	24.5	0.5	
20	PI/2 BPSK	100	0	23.78	23.88	23.80			
20	QPSK	1	1	24.46	24.61	24.42	25.0	0.0	
20	QPSK	1	53	24.59	24.60	24.58			
20	QPSK	1	104	24.48	24.52	24.49			
20	QPSK	50	0	23.40	23.44	23.43	24.0	1.0	
20	QPSK	50	28	24.40	24.48	24.42	25.0	0.0	
20	QPSK	50	56	23.35	23.43	23.37	24.0	1.0	
20	QPSK	100	0	23.39	23.39	23.32			
20	16QAM	1	1	23.43	23.48	23.45	24.0	1.0	
20	64QAM	1	1	22.29	22.36	22.30	22.5	2.5	
20	256QAM	1	1	19.67	19.76	19.71	20.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2502.5			
15	QPSK	1	1	24.23	24.54	24.05	25.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	24.22	24.58	24.08	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	24.22	24.55	24.12	25.0	0.0	



n41_FCC SA Full Power								
BW [MHz]	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	24.86	24.72	24.59	25.5	0.0
100	PI/2 BPSK	1	137	24.33	24.82	24.74		
100	PI/2 BPSK	1	271	24.61	24.90	24.71		
100	PI/2 BPSK	135	0	24.16	24.31	24.06	25.5	0.0
100	PI/2 BPSK	135	69	24.65	24.81	24.65		
100	PI/2 BPSK	135	138	23.98	24.40	24.07		
100	PI/2 BPSK	270	0	24.13	24.39	24.31	25.0	0.5
100	QPSK	1	1	24.71	24.96	24.76	25.5	0.0
100	QPSK	1	137	24.01	24.16	24.04		
100	QPSK	1	271	23.55	23.67	23.54		
100	QPSK	135	0	23.95	23.89	23.81	25.5	0.0
100	QPSK	135	69	24.03	24.10	23.98		
100	QPSK	135	138	23.22	23.52	23.14		
100	QPSK	270	0	23.85	23.91	23.80	24.5	1.0
100	16QAM	1	1	24.17	24.24	23.93	24.5	1.0
100	64QAM	1	1	22.69	23.01	22.86	23.0	2.5
100	256QAM	1	1	20.22	20.33	20.05	21.0	4.5
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.21	24.71	24.56	25.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	24.15	24.70	24.64	25.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.22	24.68	24.57	25.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.17	24.65	24.62	25.5	0.0



n41_FCC SA DSI 1/5									
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				50902	51698	52000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.95	20.95	20.88			
100	PI2 BPSK	1	137	20.97	20.98	20.96	21.5	0.0	
100	PI2 BPSK	1	271	20.91	20.96	20.91			
100	PI2 BPSK	135	0	20.88	20.91	20.83			
100	PI2 BPSK	135	69	20.88	20.93	20.84	21.5	0.0	
100	PI2 BPSK	135	138	20.87	20.87	20.84			
100	PI2 BPSK	270	0	20.88	20.94	20.85	21.5	0.0	
100	QPSK	1	1	20.96	21.12	20.95			
100	QPSK	1	137	21.01	21.05	21.00	21.5	0.0	
100	QPSK	1	271	20.95	21.01	20.94			
100	QPSK	135	0	20.90	20.97	20.88			
100	QPSK	135	69	20.89	20.90	20.86	21.5	0.0	
100	QPSK	135	138	20.89	20.89	20.84			
100	QPSK	270	0	21.01	21.03	20.99	21.5	0.0	
100	16QAM	1	1	20.78	20.86	21.01	21.5	0.0	
100	16QAM	1	1	21.03	21.01	21.08	21.5	0.0	
100	256QAM	1	1	20.38	20.45	20.38	21.0	0.5	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.82	20.88	20.81	21.5	0.0	
Channel				505300	515592	526992	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.87	20.90	20.79	21.5	0.0	
Channel				503302	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.92	20.93	20.81	21.5	0.0	
Channel				501204	518598	535992	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.91	20.85	20.79	21.5	0.0	

n41_FCC SA DSI 3/4									
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				50902	518598	529990			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.71	21.80	21.77			
100	PI2 BPSK	1	137	21.79	21.83	21.78	22.5	0.0	
100	PI2 BPSK	1	271	21.80	21.81	21.74			
100	PI2 BPSK	135	0	21.66	21.76	21.69			
100	PI2 BPSK	135	69	21.76	21.78	21.72	22.5	0.0	
100	PI2 BPSK	135	138	21.64	21.72	21.65			
100	PI2 BPSK	270	0	21.77	21.79	21.71	22.5	0.0	
100	QPSK	1	1	21.89	22.11	21.91			
100	QPSK	1	137	21.90	21.90	21.88	22.5	0.0	
100	QPSK	1	271	21.77	21.86	21.78			
100	QPSK	135	0	21.78	21.82	21.80			
100	QPSK	135	69	21.76	21.82	21.75	22.5	0.0	
100	QPSK	135	138	21.67	21.74	21.71			
100	QPSK	270	0	21.85	21.88	21.80	22.5	0.0	
100	16QAM	1	1	22.04	22.03	22.01	22.5	0.0	
100	16QAM	1	1	22.02	22.03	21.95	22.5	0.0	
100	256QAM	1	1	21.25	21.30	21.28	22.0	1.5	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.64	21.75	21.73	22.5	0.0	
Channel				505300	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.64	21.72	21.71	22.5	0.0	
Channel				503302	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.62	21.72	21.73	22.5	0.0	
Channel				501204	518598	535992	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.66	21.70	21.72	22.5	0.0	

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n41 SA Full Power / DSI 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)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.23	24.27	24.17	25.0	0.0
100	PI/2 BPSK	1	137	24.14	24.21	24.06		
100	PI/2 BPSK	1	271	24.18	24.22	24.20		
100	PI/2 BPSK	135	0	23.71	23.74	23.63	25.0	0.0
100	PI/2 BPSK	135	69	24.15	24.14	24.10		
100	PI/2 BPSK	135	138	23.54	23.65	23.62		
100	PI/2 BPSK	270	0	23.73	23.70	23.64	24.5	0.5
100	QPSK	1	1	24.21	24.46	24.29	25.0	0.0
100	QPSK	1	137	24.26	24.24	24.09		
100	QPSK	1	271	24.42	24.45	24.40		
100	QPSK	135	0	23.29	23.25	23.19	25.0	0.0
100	QPSK	135	69	24.08	24.22	24.15		
100	QPSK	135	138	23.20	23.22	23.17		
100	QPSK	270	0	23.08	23.21	23.07	24.0	1.0
100	16QAM	1	1	23.38	23.53	23.57	24.0	1.0
100	64QAM	1	1	22.01	22.11	21.99	22.5	2.5
100	256QAM	1	1	19.69	19.85	19.88	20.5	4.5
Channel				507204	518598	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	24.12	24.25	24.11	25.0	0.0
Channel				505200	518598	531996	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	24.26	24.13	24.12	25.0	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	24.02	24.20	23.93	25.0	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	24.11	24.23	24.04	25.0	0.0

n41 SA DSI 3/4/5								
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				509202	516598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.39	20.41	20.31	21.0	0.0
100	PI/2 BPSK	1	137	20.33	20.36	20.35		
100	PI/2 BPSK	1	271	20.27	20.35	20.33		
100	PI/2 BPSK	135	0	20.22	20.27	20.18	21.0	0.0
100	PI/2 BPSK	135	69	20.23	20.30	20.28		
100	PI/2 BPSK	135	138	20.35	20.42	20.41		
100	PI/2 BPSK	270	0	20.28	20.37	20.32	21.0	0.0
100	QPSK	1	1	20.43	20.56	20.52	21.0	0.0
100	QPSK	1	137	20.40	20.44	20.34		
100	QPSK	1	271	20.38	20.39	20.35		
100	QPSK	135	0	20.34	20.29	20.43	21.0	0.0
100	QPSK	135	69	20.37	20.45	20.33		
100	QPSK	135	138	20.23	20.30	20.30		
100	QPSK	270	0	20.34	20.35	20.30	21.0	0.0
100	16QAM	1	1	20.41	20.47	20.38	21.0	0.0
100	64QAM	1	1	20.23	20.26	20.26	21.0	0.0
100	256QAM	1	1	19.59	19.63	19.53	20.5	0.5
Channel				507204	516598	528098	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2640.99	(dBm)	(dB)
80	QPSK	1	1	20.32	20.40	20.22	21.0	0.0
Channel				508200	516598	531996	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	20.35	20.37	20.28	21.0	0.0
Channel				508202	516598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	20.33	20.38	20.28	21.0	0.0
Channel				501204	516598	538998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	20.37	20.33	20.26	21.0	0.0



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n5 NSA Full Power / DSI 1/3/4/5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				166600	167000	167500	
Frequency (MHz)				834	836.5	839	
20	PI2 BPSK	1	1	24.80	24.97	24.82	
20	PI2 BPSK	1	53	24.81	24.90	24.74	25.5
20	PI2 BPSK	1	104	24.59	24.75	24.54	25.0
20	PI2 BPSK	50	0	24.39	24.47	24.39	25.0
20	PI2 BPSK	50	28	24.68	24.84	24.42	25.5
20	PI2 BPSK	50	56	24.27	24.38	23.95	25.0
20	PI2 BPSK	100	0	20.77	21.09	20.75	25.0
20	QPSK	1	1	24.73	24.99	24.85	
20	QPSK	1	53	24.73	24.93	24.83	25.5
20	QPSK	1	104	24.35	24.44	24.15	25.0
20	QPSK	50	0	23.35	24.16	23.86	24.5
20	QPSK	50	28	24.60	24.92	24.73	25.5
20	QPSK	50	56	23.70	24.01	23.79	24.5
20	QPSK	100	0	24.05	24.62	24.03	24.5
20	16QAM	1	1	24.12	24.24	23.83	24.5
20	64QAM	1	1	22.49	22.72	22.42	23.0
20	256QAM	1	1	21.04	21.13	20.76	21.0
Channel				167500	167900	168300	
Frequency (MHz)				831.5	836.5	841.5	
15	QPSK	1	1	24.76	24.84	24.88	25.5
Channel				168300	168700	169100	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	24.73	24.90	24.75	25.5
Channel				169100	169500	169900	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	1	24.53	24.70	24.49	25.5

n7 SA Full Power / DSI 1/4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				50000	50000	50000	
Frequency (MHz)				2510	2535	2560	
20	PI2 BPSK	1	1	23.59	23.71	23.64	
20	PI2 BPSK	1	53	23.67	23.77	23.67	24.0
20	PI2 BPSK	1	104	23.60	23.69	23.60	24.0
20	PI2 BPSK	50	0	23.09	23.16	23.05	23.5
20	PI2 BPSK	50	28	23.85	23.76	23.69	24.0
20	PI2 BPSK	50	56	23.09	23.15	23.09	23.5
20	PI2 BPSK	100	0	23.11	23.22	23.10	23.5
20	QPSK	1	1	23.71	23.78	23.75	
20	QPSK	1	53	23.55	23.66	23.56	24.0
20	QPSK	1	104	23.65	23.70	23.62	24.0
20	QPSK	50	0	21.50	21.90	21.65	23.0
20	QPSK	50	28	23.32	23.42	23.31	24.0
20	QPSK	50	56	22.32	22.37	22.45	23.0
20	QPSK	100	0	22.31	22.37	22.30	23.0
20	16QAM	1	1	22.29	22.38	22.34	23.0
20	64QAM	1	1	21.25	21.30	21.21	21.5
20	256QAM	1	1	19.43	19.54	19.48	19.5
Channel				501500	501700	501900	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	23.50	23.65	23.52	24.0
Channel				501900	501900	501900	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	23.57	23.67	23.56	24.0
Channel				501900	501700	501500	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	23.54	23.63	23.50	24.0

n7 NSA Full Power / DSI 1/4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				50000	50000	50000	
Frequency (MHz)				2510	2535	2560	
20	PI2 BPSK	1	1	23.29	23.37	23.28	
20	PI2 BPSK	1	53	23.47	23.56	23.48	24.0
20	PI2 BPSK	1	104	23.43	23.51	23.43	23.5
20	PI2 BPSK	50	0	22.97	23.06	23.04	23.5
20	PI2 BPSK	50	28	23.53	23.55	23.47	24.0
20	PI2 BPSK	50	56	22.90	23.06	22.88	23.5
20	PI2 BPSK	100	0	22.91	22.99	22.93	23.5
20	QPSK	1	1	23.63	23.68	23.65	
20	QPSK	1	53	23.67	23.66	23.56	24.0
20	QPSK	1	104	23.55	23.65	23.61	24.0
20	QPSK	50	0	22.48	22.51	22.50	23.0
20	QPSK	50	28	23.49	23.50	23.43	24.0
20	QPSK	50	56	22.47	22.49	22.47	23.0
20	QPSK	100	0	22.43	22.46	22.43	23.0
20	16QAM	1	1	22.85	22.74	22.73	23.0
20	64QAM	1	1	21.53	21.57	21.54	21.5
20	256QAM	1	1	19.42	19.31	19.22	19.5
Channel				501500	501700	501900	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	23.67	23.59	23.65	24.0
Channel				501900	501700	501500	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	23.53	23.65	23.60	24.0
Channel				501500	501700	501500	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	23.59	23.67	23.57	24.0



n7 SA DSI 3/5									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	20.68	20.72	20.70			
20	PI/2 BPSK	1	53	20.68	20.72	20.67	21.0	0.0	
20	PI/2 BPSK	1	104	20.66	20.71	20.66			
20	PI/2 BPSK	50	0	20.70	20.72	20.68	21.0	0.0	
20	PI/2 BPSK	50	28	20.58	20.60	20.60	21.0	0.0	
20	PI/2 BPSK	50	56	20.66	20.73	20.67	21.0	0.0	
20	PI/2 BPSK	100	0	20.71	20.75	20.69			
20	QPSK	1	1	20.90	20.96	20.85			
20	QPSK	1	53	20.82	20.88	20.81	21.0	0.0	
20	QPSK	1	104	20.83	20.89	20.80			
20	QPSK	50	0	20.92	20.84	20.89	20.0	1.0	
20	QPSK	50	28	20.75	20.93	20.76	21.0	0.0	
20	QPSK	50	56	20.69	20.74	20.70	20.0	1.0	
20	QPSK	100	0	20.71	20.77	20.69			
20	16QAM	1	1	20.40	20.46	20.37	21.0	0.0	
20	64QAM	1	1	20.73	20.81	20.76	21.0	0.0	
20	256QAM	1	1	19.68	19.69	19.68	19.5	1.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.68	20.67	20.62	21.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.63	20.64	20.62	21.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.65	20.70	20.63	21.0	0.0	

n7 NSA DSI 3/5									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	20.71	20.75	20.74			
20	PI/2 BPSK	1	53	20.75	20.76	20.66	21.0	0.0	
20	PI/2 BPSK	1	104	20.74	20.75	20.75			
20	PI/2 BPSK	50	0	20.56	20.62	20.59	21.0	0.0	
20	PI/2 BPSK	50	28	20.57	20.65	20.60	21.0	0.0	
20	PI/2 BPSK	50	56	20.60	20.63	20.54	21.0	0.0	
20	PI/2 BPSK	100	0	20.58	20.66	20.64			
20	QPSK	1	1	20.73	20.81	20.62			
20	QPSK	1	53	20.55	20.63	20.58	21.0	0.0	
20	QPSK	1	104	20.64	20.68	20.67			
20	QPSK	50	0	20.68	20.73	20.46	20.0	1.0	
20	QPSK	50	28	20.71	20.74	20.68	21.0	0.0	
20	QPSK	50	56	20.56	20.61	20.55	20.0	1.0	
20	QPSK	100	0	20.65	20.69	20.61			
20	16QAM	1	1	20.56	20.64	20.63	21.0	0.0	
20	64QAM	1	1	20.72	20.75	20.80	21.0	0.0	
20	256QAM	1	1	18.98	19.05	18.99	19.5	1.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.67	20.67	20.73	21.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.68	20.74	20.73	21.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.63	20.73	20.70	21.0	0.0	



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n77 SA Full Power / DSI 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				650000	656000	662000	25.7	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.05	24.11	24.04	25.7	0.0
100	PI/2 BPSK	1	137	23.99	24.13	24.01		
100	PI/2 BPSK	1	271	23.94	24.10	24.02		
100	PI/2 BPSK	135	0	24.01	24.11	23.84	25.7	0.0
100	PI/2 BPSK	135	69	23.99	24.05	23.78		
100	PI/2 BPSK	135	138	23.96	24.14	24.07		
100	PI/2 BPSK	270	0	23.90	24.04	23.76	25.2	0.5
100	QPSK	1	1	24.13	24.30	24.07	25.7	0.0
100	QPSK	1	137	24.09	24.29	24.14		
100	QPSK	1	271	24.00	24.13	23.86		
100	QPSK	135	0	24.04	23.91	23.95	25.7	0.0
100	QPSK	135	69	23.93	24.21	23.81		
100	QPSK	135	138	24.11	24.19	23.97		
100	QPSK	270	0	24.09	24.29	24.04	24.7	1.0
100	16QAM	1	1	23.97	24.04	23.82	24.7	1.0
100	64QAM	1	1	23.04	23.11	22.85	23.2	2.5
100	256QAM	1	1	20.77	20.91	20.81	21.2	4.5

HPUE n77 SA Full Power / DSI 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				650000	656000	662000	27.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.53	25.59	25.33	27.0	0.0
100	PI/2 BPSK	1	137	25.45	25.57	25.38		
100	PI/2 BPSK	1	271	25.49	25.62	25.37		
100	PI/2 BPSK	135	0	24.98	25.03	24.98	26.5	0.0
100	PI/2 BPSK	135	69	25.47	25.55	25.40	27.0	
100	PI/2 BPSK	135	138	24.94	25.02	24.86	26.5	
100	PI/2 BPSK	270	0	25.01	25.11	24.91	26.5	0.5
100	QPSK	1	1	25.63	25.76	25.54	27.0	0.0
100	QPSK	1	137	25.65	25.74	25.62		
100	QPSK	1	271	25.53	25.71	25.58		
100	QPSK	135	0	24.61	24.47	24.49	26.0	0.0
100	QPSK	135	69	25.53	25.59	25.39	27.0	
100	QPSK	135	138	24.61	24.78	24.72	26.0	
100	QPSK	270	0	24.70	24.83	24.72	26.0	1.0
100	16QAM	1	1	24.89	25.05	24.85	26.0	1.0
100	64QAM	1	1	22.82	22.98	22.85	24.5	2.5
100	256QAM	1	1	21.18	21.32	21.12	22.5	4.5

PC2/3 n77 SA DSI 3/4/5

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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.64	18.74	18.84	20.0	0.0
100	PI/2 BPSK	1	137	18.54	18.58	18.48		
100	PI/2 BPSK	1	271	18.52	18.62	18.60		
100	PI/2 BPSK	135	0	18.51	18.54	18.48	20.0	0.0
100	PI/2 BPSK	135	69	18.48	18.48	18.40	20.0	
100	PI/2 BPSK	135	138	18.40	18.46	18.45	20.0	
100	PI/2 BPSK	270	0	18.49	18.55	18.52	20.0	0.0
100	GPSK	1	1	18.68	18.90	18.82	20.0	0.0
100	GPSK	1	137	18.60	18.64	18.60		
100	GPSK	1	271	18.62	18.65	18.61		
100	GPSK	135	0	18.39	18.57	18.73	20.0	0.0
100	GPSK	135	69	18.61	18.76	18.63	20.0	
100	GPSK	135	138	18.37	18.47	18.43	20.0	
100	GPSK	270	0	18.54	18.58	18.48	20.0	0.0
100	16QAM	1	1	18.73	18.73	18.64	20.0	0.0
100	64QAM	1	1	18.53	18.62	18.62	20.0	0.0
100	256QAM	1	1	18.74	18.75	18.71	20.0	0.0
Channel				649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	GPSK	1	1	18.25	18.36	18.27	20.0	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	GPSK	1	1	18.28	18.44	18.28	20.0	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	GPSK	1	1	18.28	18.38	18.33	20.0	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	GPSK	1	1	18.28	18.41	18.29	20.0	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	GPSK	1	1	18.28	18.38	18.27	20.0	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	GPSK	1	1	18.34	18.43	18.30	20.0	0.0



Full Power/Body Worn/Handheld						
Art 7-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.1b-1Mbps	1	2412	22.01	23.50	100.00	
	6	2437	21.91	23.50		
	11	2462	21.86	23.50		
802.1g-6Mbps	1	2412	21.91	22.50	99.29	
	6	2437	20.91	22.50		
	11	2462	20.91	22.50		
802.11a-HT20 MCS0	1	2412	20.86	22.50	99.20	
	6	2437	20.76	22.50		
	11	2462	20.71	22.50		
802.11a-HT40 MCS0	1	2412	20.86	20.50	99.20	
	6	2437	19.91	20.50		
	9	2452	20.06	20.50		
802.11a-HE20 MCS0	1	2412	20.96	22.50	100.00	
	6	2437	20.86	22.50		
	11	2462	20.81	22.50		
802.11a-HE40 MCS0	1	2412	20.16	21.50	100.00	
	6	2437	20.01	21.50		
	11	2462	20.01	21.50		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	36	5180	21.17	22.50	99.05	
	40	5200	21.87	22.50		
	44	5220	21.97	23.50		
	48	5240	21.69	23.50		
802.11a-HT20 MCS0	36	5180	20.47	22.00	100.00	
	40	5200	20.31	22.00		
	44	5220	20.97	22.50		
	48	5240	20.96	22.50		
802.11a-HT40 MCS0	36	5180	19.72	21.00	99.20	
	40	5200	20.31	21.50		
	44	5220	20.87	22.00		
	48	5240	20.87	22.00		
802.11ac-VHT20 MCS0	44	5200	20.97	22.50	99.20	
	48	5240	20.96	22.50		
	38	5190	19.72	21.00		
	46	5230	20.81	21.50		
802.11ac-VHT40 MCS0	36	5180	20.87	22.00	99.30	
	40	5200	20.87	22.00		
	44	5220	20.81	22.50		
	48	5240	21.06	22.50		
802.11a-HE20 MCS0	36	5180	20.88	22.00	100.00	
	44	5220	21.07	22.50		
	48	5240	21.06	22.50		
	38	5190	19.82	21.00		
802.11a-HE40 MCS0	36	5180	19.81	21.00	100.00	
	40	5200	19.41	21.50		
	44	5220	20.41	21.50		
	42	5210	19.41	20.50		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	52	5260	21.91	23.50	99.05	
	56	5280	21.78	23.50		
	60	5300	21.81	23.50		
	64	5320	20.81	23.50		
802.11a-HT20 MCS0	56	5280	20.73	22.50	100.00	
	60	5300	20.71	22.50		
	64	5320	20.81	22.50		
	54	5270	20.11	21.50		
802.11a-HT40 MCS0	52	5260	19.71	21.00	99.20	
	56	5280	20.81	22.50		
	60	5300	20.71	22.50		
	64	5320	20.81	22.50		
802.11ac-VHT20 MCS0	52	5260	20.70	22.50	99.20	
	60	5300	20.71	22.50		
	54	5270	20.81	22.50		
	54	5270	20.11	21.50		
802.11ac-VHT40 MCS0	52	5260	19.71	21.00	99.30	
	56	5280	20.81	22.50		
	60	5300	20.81	22.50		
	58	5290	19.06	20.50		
802.11a-HE20 MCS0	52	5260	20.91	22.50	100.00	
	56	5280	20.80	22.50		
	60	5300	20.81	22.50		
	64	5320	20.81	22.50		
802.11a-HE40 MCS0	54	5270	20.21	21.50	100.00	
	54	5270	19.81	21.00		
	52	5260	19.16	20.50		
	58	5290	19.16	20.50		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	100	5500	21.71	23.00	99.05	
	116	5580	21.86	23.00		
	124	5620	21.84	23.00		
	132	5660	21.68	23.00		
802.11a-HT20 MCS0	140	5700	21.86	23.00	100.00	
	100	5500	21.06	22.50		
	116	5580	20.96	22.50		
	124	5620	20.96	22.50		
802.11a-HT40 MCS0	102	5510	20.41	21.50	99.20	
	110	5550	20.51	21.50		
	126	5630	20.34	21.50		
	134	5670	20.42	21.50		
802.11ac-VHT20 MCS0	100	5500	21.06	22.50	99.20	
	116	5580	20.96	22.50		
	124	5620	20.92	22.50		
	132	5660	20.85	22.50		
802.11ac-VHT40 MCS0	140	5700	21.81	22.50	99.20	
	102	5510	20.41	21.50		
	110	5550	20.51	21.50		
	126	5630	20.40	21.50		
802.11a-HE20 MCS0	100	5500	21.16	22.50	100.00	
	116	5580	21.06	22.50		
	124	5620	20.99	22.50		
	132	5660	21.03	22.50		
802.11a-HE40 MCS0	140	5700	21.81	22.50	100.00	
	102	5510	20.41	21.50		
	110	5550	20.61	21.50		
	126	5630	20.48	21.50		
802.11a-HE80 MCS0	134	5670	20.52	21.50	100.00	
	106	5530	19.56	20.50		
	122	5610	19.56	20.50		
	102	5510	19.56	20.50		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	149	5745	22.41	23.50	99.05	
	157	5785	22.41	23.50		
	165	5825	22.46	23.50		
	149	5745	22.21	23.50		
802.11a-HT20 MCS0	157	5785	22.21	23.50	100.00	
	165	5825	22.28	23.50		
	151	5755	20.56	21.50		
	159	5795	20.76	21.50		
802.11a-HT40 MCS0	149	5745	21.38	22.50	99.20	
	157	5785	21.41	22.50		
	165	5825	21.38	22.50		
	151	5755	20.56	21.50		
802.11ac-VHT20 MCS0	149	5745	20.76	21.50	99.20	
	157	5785	20.76	21.50		
	165	5825	20.76	21.50		
	151	5755	20.56	21.50		
802.11ac-VHT40 MCS0	149	5745	21.46	22.50	99.30	
	157	5785	21.51	22.50		
	165	5825	21.58	22.50		
	151	5755	20.86	21.50		
802.11a-HE20 MCS0	159	5795	20.86	21.50	100.00	
	159	5795	20.81	21.50		
	155	5775	19.51	20.50		
	159	5795	19.51	20.50		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	149	5745	20.35	21.50	99.05	
	157	5785	20.52	21.50		
	165	5825	20.58	21.50		
	149	5745	21.50	21.50		
802.11a-HT20 MCS0	157	5785	21.50	21.50	100.00	
	165	5825	21.50	21.50		
	151	5755	21.00	21.00		
	159	5795	21.00	21.00		
802.11a-HT40 MCS0	149	5745	21.50	21.50	99.20	
	157	5785	21.50	21.50		
	165	5825	21.50	21.50		
	151	5755	21.00	21.00		
802.11ac-VHT20 MCS0	149	5745	21.50	21.50	99.20	
	157	5785	21.50	21.50		
	165	5825	21.50	21.50		
	151	5755	21.00	21.00		
802.11ac-VHT40 MCS0	149	5745	21.50	21.50	99.30	
	157	5785	21.50	21.50		
	165	5825	21.50	21.50		
	151	5755	21.00	21.00		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	149	5745	13.07	14.50	99.05	
	157	5785	13.49	14.50		
	165	5825	13.50	14.50		
	149	5745	14.50	14.50		
802.11a-HT20 MCS0	157	5785	14.50	14.50	100.00	
	165	5825	14.50	14.50		
	151	5755	14.00	14.00		
	159	5795	14.00	14.00		
802.11a-HT40 MCS0	149	5745	14.50	14.50	99.20	
	157	5785	14.50	14.50		
	165	5825	14.50	14.50		
	151	5755	14.00	14.00		
802.11ac-VHT20 MCS0	149	5745	14.50	14.50	99.20	
	157	5785	14.50	14.50		
	165	5825	14.50	14.50		
	151	5755	14.00	14.00		
802.11ac-VHT40 MCS0	149	5745	14.50	14.50	99.30	
	157	5785	14.50	14.50		
	165	5825	14.50	14.50		
	151	5755	14.00	14.00		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	149	5745	14.97	16.50	99.05	
	157	5785	15.38	16.50		
	165	5825	15.41	16.50		
	149	5745	16.50	16.50		
802.11a-HT20 MCS0	157	5785	16.50	16.50	100.00	
	165	5825	16.50	16.50		
	151	5755	16.00	16.00		
	159	5795	16.00	16.00		
802.11a-HT40 MCS0	149	5745	16.50	16.50	99.20	
	157	5785	16.50	16.50		
	165	5825	16.50	16.50		
	151	5755	16.00	16.00		
802.11ac-VHT20 MCS0	149	5745	16.50	16.50	99.20	
	157	5785	16.50	16.50		
	165	5825	16.50	16.50		
	151	5755	16.00	16.00		
802.11ac-VHT40 MCS0	149	5745	16.50	16.50	99.30	
	157	5785	16.50	16.50		
	165	5825	16.50	16.50		
	151	5755	16.00	16.00		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a-6Mbps	149	574				



BR/EDR Ant 11 Full Power/Head/Body/Worn/Handheld					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	18.83	18.80	18.61
	CH 39	2441	18.79	16.77	16.84
	CH 78	2480	18.83	17.03	17.12
Tune-up Limit			19.90	17.90	17.90

BR/EDR Ant 7 Full Power/Head/Body/Worn/Handheld					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	16.93	14.40	14.38
	CH 39	2441	17.76	15.18	15.22
	CH 78	2480	18.31	15.94	15.98
Tune-up Limit			18.5	16.5	16.5

BR/EDR Ant 11 Receiver On Simultaneous transmission					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.17	Not Required	
	CH 39	2441	10.40	Not Required	
	CH 78	2480	10.97	Not Required	
Tune-up Limit			12.00	12.00	12.00

BR/EDR Ant 7 Receiver On Simultaneous transmission					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.08	Not Required	
	CH 39	2441	10.21	Not Required	
	CH 78	2480	10.92	Not Required	
Tune-up Limit			12	12	12

BR/EDR Ant 11 Hotspot On					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.72	Not Required	
	CH 39	2441	12.82	Not Required	
	CH 78	2480	13.12	Not Required	
Tune-up Limit			13.50	13.50	13.50

BR/EDR Ant 7 Hotspot On					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	16.93	14.40	14.38
	CH 39	2441	17.76	15.18	15.22
	CH 78	2480	18.31	15.94	15.98
Tune-up Limit			18.5	16.5	16.5

BLE Ant 11				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	7.80	
	CH 19	2440	8.30	
	CH 39	2480	8.70	
Tune-up Limit			10	

BLE Ant 7				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	6.3	
	CH 19	2440	7	
	CH 39	2480	8.1	
Tune-up Limit			10	

BLE5.0 Ant 11				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	
LE	CH 00	2402	8.00	
	CH 19	2440	8.30	
	CH 39	2480	9.00	
Tune-up Limit			10	

BLE5.0 Ant 7				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	
LE	CH 00	2402	6.40	
	CH 19	2440	7.30	
	CH 39	2480	8.40	
Tune-up Limit			10	