

### Full Power Mode

GSM850 Ant0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	324.2	336.4	348.8	324.2	336.4	348.8		
Frequency (MHz)	32.64	32.76	32.88	33.50	33.64	33.78	24.50	
GSM 1 Tx slot	32.64	32.72	32.86	33.50	33.64	33.72	24.50	
GPRS 1 Tx slots	30.09	30.15	30.05	31.00	24.09	24.15	25.00	
GPRS 2 Tx slots	30.09	30.15	30.05	31.00	24.09	24.15	25.00	
GPRS 3 Tx slots	28.60	28.67	28.59	29.50	24.34	24.41	25.24	
GPRS 4 Tx slots	27.05	27.14	27.04	28.00	24.05	24.14	25.00	
EDGE 1 Tx slot	25.95	26.05	25.93	27.00	16.95	17.05	18.00	
EDGE 2 Tx slots	25.05	25.13	25.09	26.00	19.05	19.13	20.00	
EDGE 3 Tx slots	23.34	23.42	23.33	24.50	19.08	19.16	20.24	
EDGE 4 Tx slots	21.62	21.74	21.67	23.00	18.62	18.74	20.00	

GSM1900 Ant0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.20	1880.00	1909.80		
Frequency (MHz)	29.68	29.75	29.72	30.50	20.68	20.75	21.50	
GSM 1 Tx slot	29.68	29.75	29.72	30.50	20.68	20.75	21.50	
GPRS 1 Tx slots	29.60	29.73	29.66	30.50	20.60	20.73	21.50	
GPRS 2 Tx slots	26.71	26.83	26.74	28.00	20.71	20.83	22.00	
GPRS 3 Tx slots	25.27	25.35	25.26	26.50	21.01	21.09	22.24	
GPRS 4 Tx slots	23.77	23.84	23.73	25.00	20.77	20.84	22.00	
EDGE 1 Tx slot	24.69	24.84	24.75	26.00	15.69	15.84	17.00	
EDGE 2 Tx slots	23.75	23.86	23.78	25.00	17.76	17.86	19.00	
EDGE 3 Tx slots	22.38	22.51	22.38	23.50	18.12	18.25	19.24	
EDGE 4 Tx slots	20.72	20.84	20.72	22.00	17.72	17.84	19.00	

Band	WCDMA II Ant0			Tune-up Limit (dBm)	WCDMA IV Ant0			Tune-up Limit (dBm)	WCDMA V Ant0			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9662.00	9800.00	9938.00	1537.00	1638.00	1738.00		4357.00	4407.00	4458.00			
Frequency (MHz)	1852.40	1880.00	1907.60	1712.40	1732.60	1752.60		826.40	836.40	846.60			
3GPP Rel 99	AMR 12.2Kbps	22.95	23.03	22.93	24.00	22.99	23.10	22.96	24.00	23.10	23.19	23.06	24.00
3GPP Rel 99	RMC 12.2Kbps	23.02	23.06	22.97	24.00	23.05	23.13	23.09	24.00	23.17	23.23	23.15	24.00
3GPP Rel 6	HSDPA Subtest-1	21.95	22.07	22.00	23.00	21.95	22.12	22.01	23.00	22.05	22.16	22.21	23.00
3GPP Rel 6	HSDPA Subtest-2	21.99	22.16	21.88	23.00	21.97	22.17	21.74	23.00	22.20	22.33	22.27	23.00
3GPP Rel 6	HSDPA Subtest-3	21.45	21.64	21.52	22.50	21.49	21.58	21.50	22.50	21.68	21.85	21.76	22.50
3GPP Rel 6	HSDPA Subtest-4	21.40	21.61	21.58	22.50	21.42	21.64	21.55	22.50	21.55	21.71	21.70	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.08	22.10	21.90	23.00	22.07	22.11	21.98	23.00	22.23	22.21	22.17	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.91	21.97	22.12	23.00	21.93	21.97	22.00	23.00	22.14	22.14	22.21	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.29	21.40	21.35	22.50	21.31	21.44	21.39	22.50	21.50	21.66	21.50	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.34	21.52	21.48	22.50	21.45	21.65	21.41	22.50	21.52	21.76	21.60	22.50
3GPP Rel 6	HSUPA Subtest-1	22.00	21.87	22.03	23.00	21.89	21.98	22.01	23.00	21.98	22.21	22.15	23.00
3GPP Rel 6	HSUPA Subtest-2	20.08	20.22	20.04	21.00	20.13	20.19	20.11	21.00	20.36	20.24	20.23	21.00
3GPP Rel 6	HSUPA Subtest-3	21.08	21.00	20.85	22.00	21.15	21.00	20.98	22.00	21.22	21.23	21.08	22.00
3GPP Rel 6	HSUPA Subtest-4	19.86	20.03	20.17	21.00	19.92	20.10	20.18	21.00	20.08	20.32	20.35	21.00
3GPP Rel 6	HSUPA Subtest-5	21.90	21.99	21.89	23.00	21.97	22.11	21.93	23.00	22.14	22.17	22.02	23.00



Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power Head, Power Margin, Turn-up, MPR, and Frequency (MHz). Contains data for Band 2 Ant 0.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power Head, Power Margin, Turn-up, MPR, and Frequency (MHz). Contains data for Band 4 Ant 0.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power Head, Power Margin, Turn-up, MPR, and Frequency (MHz). Contains data for Band 5 Ant 0.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power Head, Power Margin, Turn-up, MPR, and Frequency (MHz). Contains data for Band 7 Ant 0.



Band 12 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)						
Channel										1800	1800	1800		
Frequency (MHz)										701.5	701.5	711		
10	QPSK	1	0	22.84	22.84	22.86								
10	QPSK	1	26	22.81	22.81	22.83			24	0				
10	QPSK	1	48	22.84	22.70	22.59								
10	QPSK	25	0	21.87	21.74	21.54			23	1				
10	QPSK	25	26	21.68	21.70	21.65								
10	QPSK	25	25	21.68	21.64	21.83								
10	QPSK	50	0	21.55	21.65	21.80								
10	QPSK	50	26	21.57	21.69	21.83								
10	16QAM	1	26	21.54	21.71	21.87			23	1				
10	16QAM	1	49	21.73	21.70	21.52								
10	16QAM	1	72	20.71	20.84	20.92								
10	16QAM	25	12	20.75	20.58	20.70			22	2				
10	16QAM	25	35	20.59	20.72	20.70								
10	16QAM	50	0	20.59	20.75	20.82								
10	16QAM	1	0	20.78	20.73	20.59								
10	16QAM	1	26	20.92	20.93	20.81			22	2				
10	16QAM	1	49	20.71	20.80	20.85								
10	16QAM	25	0	19.58	19.77	19.83								
10	16QAM	25	12	19.38	19.63	19.58			21	3				
10	16QAM	25	35	19.68	19.61	19.55								
10	16QAM	50	0	19.47	19.61	19.58								
10	16QAM	1	0	17.78	17.85	17.78			19	5				
10	256QAM	1	26	17.84	17.87	17.85								
10	256QAM	1	49	17.88	17.84	17.81								
10	256QAM	25	12	17.85	17.81	17.85			19	5				
10	256QAM	25	35	17.75	17.82	17.87								
10	256QAM	50	0	17.68	17.75	17.80								
10	256QAM	25	0	17.63	17.69	17.89								
10	256QAM	25	26	17.63	17.69	17.89								

Band 13 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)						
Channel										782	782	782		
Frequency (MHz)										720.5	720.5	730		
5	QPSK	1	0	22.87	22.87	22.87			24	0				
5	QPSK	1	26	22.81	22.81	22.81								
5	QPSK	1	49	22.88	22.74	22.60								
5	QPSK	25	0	21.87	21.74	21.66			23	1				
5	QPSK	25	26	21.68	21.68	21.83								
5	QPSK	25	25	21.68	21.69	21.87								
5	QPSK	50	0	21.55	21.71	21.84								
5	QPSK	50	26	21.57	21.67	21.82								
5	16QAM	1	26	21.52	21.67	21.81			23	1				
5	16QAM	1	49	21.80	21.80	21.65								
5	16QAM	1	72	20.80	20.85	20.78								
5	16QAM	25	12	20.78	20.57	20.63			22	2				
5	16QAM	25	35	20.86	20.74	20.66								
5	16QAM	50	0	20.85	20.75	20.68								
5	16QAM	1	0	20.85	20.78	20.72								
5	16QAM	1	26	21.70	21.66	21.50			22	2				
5	16QAM	1	49	20.90	20.90	20.97								
5	16QAM	25	0	19.52	19.71	19.62								
5	16QAM	25	12	19.74	19.63	19.46			21	3				
5	16QAM	25	35	19.68	19.61	19.55								
5	16QAM	50	0	19.75	19.68	19.57								
5	16QAM	1	0	17.86	17.86	17.78			19	5				
5	256QAM	1	26	17.84	17.85	17.86								
5	256QAM	1	49	18.12	18.00	17.88								
5	256QAM	25	12	17.82	17.80	17.88			19	5				
5	256QAM	25	35	17.73	17.84	17.84								
5	256QAM	50	0	17.68	17.70	17.83								
5	256QAM	25	0	17.54	17.69	17.80								

Band 17 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)						
Channel										2195	2195	2195		
Frequency (MHz)										716.5	716.5	733.5		
5	QPSK	1	0	22.90	22.83	22.83			24	0				
5	QPSK	1	26	22.87	22.80	22.81								
5	QPSK	1	49	22.77	22.78	22.81								
5	QPSK	25	0	21.81	21.74	21.79			23	1				
5	QPSK	25	26	21.78	21.81	21.82								
5	QPSK	25	25	21.67	21.77	21.71								
5	QPSK	50	0	21.66	21.70	21.79								
5	QPSK	50	26	21.74	21.78	21.76								
5	16QAM	1	0	21.74	21.78	21.72			23	1				
5	16QAM	1	26	21.74	21.79	21.78								
5	16QAM	1	49	21.80	21.78	21.76								
5	16QAM	25	12	20.81	20.80	20.77			22	2				
5	16QAM	25	35	20.88	20.89	20.84								
5	16QAM	50	0	20.79	20.78	20.78								
5	16QAM	1	0	20.77	20.74	20.78								
5	16QAM	1	26	20.75	20.77	20.80			22	2				
5	16QAM	1	49	20.89	20.78	20.78								
5	16QAM	25	0	19.50	19.58	19.51								
5	16QAM	25	12	19.61	19.40	19.35			21	3				
5	16QAM	25	35	19.38	19.44	19.52								
5	16QAM	50	0	19.46	19.48	19.50								
5	16QAM	1	0	17.86	17.86	17.78			19	5				
5	256QAM	1	26	17.87	17.82	17.77								
5	256QAM	1	49	17.92	17.85	17.81								
5	256QAM	25	12	17.87	17.82	17.88			19	5				
5	256QAM	25	35	17.80	17.82	17.88								
5	256QAM	50	0	17.76	17.77	17.85			19	5				
5	256QAM	25	0	17.70	17.78	17.77								

Band 25 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)						
Channel										2695	2695	2695		
Frequency (MHz)										2807.5	2807.5	2817.5		
14	QPSK	1	0	22.51	22.70	22.52			24	0				
14	QPSK	1	26	22.45	22.52	22.48								
14	QPSK	1	49	22.53	22.58	22.55								
14	QPSK	25	0	22.27	22.59	22.44			23	1				
14	QPSK	25	26	22.07	22.08	22.16								
14	QPSK	25	25	22.07	22.03	22.19								
14	QPSK	50	0	21.82	22.04	22.06			23	1				
14	QPSK	50	26	21.60	21.61	21.63								
14	16QAM	1	0	21.57	21.63	21.56								
14	16QAM	1	26	21.50	21.68	21.83			23	1				
14	16QAM	1	49	21.60	21.69	21.65								
14	16QAM	25	12	20.58	20.73	20.66			22	2				
14	16QAM	25	35	20.60	20.62	20.67								
14	16QAM	50	0	20.60	20.68	20.67								
14	16QAM	1	0	20.54	20.65	20.58								
14	16QAM	1	26	20.69	20.58	20.52			22	2				
14	16QAM	1	49	20.70	20.80	20.78								
14	16QAM	25	0	19.50	19.74	19.53			21	3				
14	16QAM	25	12	19.46	19.65	19.45								
14	16QAM	25	35	19.39	19.51	19.45								
14	16QAM	50	0	19.35	19.55	19.45								
14	256QAM	1	26	17.70	17.81	17.77			19	5				
14	256QAM	1	49	17.79	17.84	17.72								
14	256QAM	25	12	17.71	17.82	17.83			19	5				
14	256QAM	25	35	17.59	17.68	17.50								
14	256QAM	50	0	17.64	17.64	17.68								

Band 25 Ant 1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)						
Channel										2807	2807	2807		
Frequency (MHz)										2919.5	2919.5	2929.5		
14	QPSK	1												



Band 26 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel								Turn-up (dB)	MPE (dB)	
Frequency (MHz)								181.5	181.5	181.5
15	QPSK	1	0	22.86	22.87	22.81	24	0		
15	QPSK	1	25	22.88	22.79	22.84				
15	QPSK	1	74	22.88	22.73	22.82				
15	QPSK	36	0	21.85	21.84	21.72	23	1		
15	QPSK	36	20	21.89	21.85	21.88				
15	QPSK	36	39	21.85	21.89	21.89				
15	QPSK	75	0	21.87	21.85	21.55				
15	16QAM	1	0	21.87	21.84	21.80	23	1		
15	16QAM	1	37	21.55	21.80	21.80				
15	16QAM	1	74	21.88	21.73	21.58				
15	16QAM	36	0	20.81	20.81	20.78				
15	16QAM	36	20	20.80	20.80	20.74				
15	16QAM	36	39	20.72	20.81	20.85				
15	16QAM	75	0	20.84	20.75	20.87				
15	64QAM	1	0	20.86	20.80	20.68				
15	64QAM	1	37	20.83	20.80	20.59	22	2		
15	64QAM	1	74	20.79	20.75	20.81				
15	64QAM	36	0	19.87	19.87	19.71				
15	64QAM	36	20	19.84	19.81	19.55				
15	64QAM	36	39	19.87	19.85	19.54				
15	64QAM	75	0	19.49	19.74	19.59	21	3		
15	256QAM	1	0	17.77	17.86	17.71				
15	256QAM	1	37	17.78	17.75	17.86	19	5		
15	256QAM	1	74	17.83	18.04	17.87				
15	256QAM	36	0	17.86	17.75	17.85				
15	256QAM	36	20	17.83	17.77	17.56				
15	256QAM	36	39	17.87	17.79	17.64				
15	256QAM	75	0	17.83	17.74	17.65				
15	256QAM	75	0	17.40	17.68	17.48				
15	256QAM	75	0	17.80	17.85	17.61				
15	256QAM	75	0	18.15	18.11	18.4				
15	QPSK	1	0	22.82	22.82	22.77	24	0		
15	QPSK	1	25	22.86	22.71	22.81				
15	QPSK	1	49	22.87	22.80	22.87				
15	QPSK	25	0	21.83	21.76	21.88	23	1		
15	QPSK	25	20	21.81	21.84	21.41				
15	QPSK	25	26	21.55	21.81	21.52				
15	QPSK	50	0	21.83	21.81	21.41				
15	16QAM	1	0	21.83	21.83	21.46	23	1		
15	16QAM	1	26	21.48	21.48	21.51				
15	16QAM	1	52	21.57	21.62	21.47				
15	16QAM	1	78	20.71	20.70	20.71				
15	16QAM	25	0	20.99	20.92	20.81				
15	16QAM	25	12	20.48	20.53	20.69				
15	16QAM	25	12	20.61	20.63	20.65				
15	16QAM	50	0	20.59	20.52	20.61				
15	64QAM	1	0	20.82	20.75	20.57	22	2		
15	64QAM	1	37	20.79	20.75	20.68				
15	64QAM	1	49	20.70	20.72	20.67				
15	64QAM	25	0	19.87	19.80	19.96				
15	64QAM	25	12	19.45	19.48	19.41				
15	64QAM	25	26	19.47	19.52	19.40				
15	64QAM	50	0	19.85	19.88	19.45	21	3		
15	256QAM	1	0	17.73	17.73	17.73				
15	256QAM	1	25	17.75	17.50	17.75	19	5		
15	256QAM	1	49	17.84	18.00	17.81				
15	256QAM	36	0	17.83	17.88	17.48				
15	256QAM	36	20	17.85	17.70	17.51				
15	256QAM	36	39	17.87	17.79	17.59	19	5		
15	256QAM	75	0	17.80	17.74	17.48				
15	256QAM	75	0	17.40	17.68	17.48				
15	256QAM	75	0	17.80	17.85	17.61				
15	256QAM	75	0	18.15	18.11	18.4				
15	QPSK	1	0	22.82	22.82	22.77	24	0		
15	QPSK	1	25	22.86	22.71	22.81				
15	QPSK	1	49	22.87	22.80	22.77				
15	QPSK	12	0	21.83	21.83	21.40	23	1		
15	QPSK	12	13	21.80	21.81	21.53				
15	QPSK	25	0	21.59	21.86	21.44				
15	16QAM	1	0	21.59	21.52	21.50	23	1		
15	16QAM	1	14	21.48	21.48	21.46				
15	16QAM	1	28	21.48	21.48	21.46				
15	16QAM	1	52	20.70	20.70	20.72				
15	16QAM	12	0	20.78	20.73	20.72				
15	16QAM	12	7	20.45	20.55	20.66				
15	16QAM	12	7	20.65	20.65	20.68				
15	16QAM	25	0	20.52	20.51	20.55				
15	64QAM	1	0	20.82	20.72	20.59	22	2		
15	64QAM	1	37	20.79	20.80	20.83				
15	64QAM	1	49	20.70	20.72	20.67				
15	64QAM	12	0	19.84	19.81	19.96				
15	64QAM	12	13	19.44	19.48	19.45				
15	64QAM	25	0	19.41	19.62	19.47				
15	256QAM	1	0	17.68	17.63	17.63				
15	256QAM	1	12	17.69	17.71	17.73	19	5		
15	256QAM	1	24	17.86	17.88	17.77				
15	256QAM	12	0	17.83	17.82	17.46				
15	256QAM	12	13	17.83	17.82	17.46				
15	256QAM	25	0	17.83	17.70	17.56	19	5		
15	256QAM	25	0	17.41	17.68	17.48				
15	256QAM	25	0	17.80	17.85	17.61				
15	256QAM	25	0	18.15	18.11	18.4				
15	QPSK	1	0	22.82	22.82	22.77	24	0		
15	QPSK	1	14	22.85	22.66	22.48				
15	QPSK	8	4	21.81	21.74	21.66	23	1		
15	QPSK	8	7	21.80	21.57	21.37				
15	QPSK	15	2	21.82	21.68	21.45				
15	16QAM	1	0	21.60	21.51	21.49	23	1		
15	16QAM	1	8	21.48	21.45	21.50				
15	16QAM	1	7	21.82	21.75	21.46				
15	16QAM	6	0	20.74	20.71	20.85				
15	16QAM	6	4	20.53	20.50	20.69				
15	16QAM	15	0	20.50	20.63	20.83				
15	64QAM	1	0	20.84	20.73	20.55	22	2		
15	64QAM	1	8	20.75	20.84	20.89				
15	64QAM	1	14	20.71	20.73	20.73				
15	64QAM	6	0	19.83	19.80	19.65				
15	64QAM	6	4	19.43	19.43	19.44				
15	64QAM	6	7	19.46	19.50	19.46				
15	64QAM	15	0	19.39	19.62	19.45				
15	256QAM	1	0	17.84	17.83	17.68				
15	256QAM	1	8	17.85	17.68	17.80	19	5		
15	256QAM	1	14	17.86	17.86	17.75				
15	256QAM	6	0	17.81	17.84	17.47				
15	256QAM	6	4	17.80	17.72	17.43				
15	256QAM	15	0	17.40	17.68	17.52				
15	256QAM	15	0	17.80	17.85	17.61				
15	256QAM	15	0	18.15	18.11	18.4				
15	QPSK	1	0	22.82	22.82	22.77	24	0		
15	QPSK	1	5	22.85	22.60	22.58				
15	QPSK	1	6	22.82	22.70	22.68				
15	QPSK	3	1	22.53	22.60	22.72	23	1		
15	QPSK	3	3	22.53	22.65	22.49				
15	QPSK	6	0	21.80	21.80	21.81				
15	16QAM	1	0	21.83	21.60	21.35	23	1		
15	16QAM	1	3	21.58	21.64	21.49				
15	16QAM	1	6	21.58	21.69	21.49				
15	16QAM	3	0	21.57	21.50	21.48				
15	16QAM	3	1	21.45	21.52	21.85				
15	16QAM	3	1	21.58	21.66	21.44				
15	16QAM	6	0	20.74	20.72	20.66	22	2		
15	16QAM	6	0	20.49	20.51	20.66				
15	64QAM	1	0	20.88	20.83	20.59				
15	64QAM	1	5	20.59	20.66	20.52				
15	64QAM	3	0	20.53	20.59	20.59	22	2		
15	64QAM	3	0	20.70	20.90	20.91				
15	64QAM	3	3	20.71	20.74	20.75				
15	256QAM	1	0	17.72	17.88	17.69	21	3		
15	256QAM	1	3	17.85	17.83	17.79				
15	256QAM	1	6	17.79	17.79	17.66				
15	256QAM	3	0	17.80	17.58	17.47	19	5		
15	256QAM	3	1	17.89	17.74	17.51				
15	256QAM	3	1	17.83	17.68	17.68				
15	256QAM	6	0	17.38	17.52	17.51	19	5		
15	256QAM	6	0	17.80	17.85	17.61				
15	256QAM	6	0	18.15	18.11	18.4				

Band 66 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel								Turn-up (dB)	MPE (dB)	
Frequency (MHz)								1745	1745	1775



Band 38 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.21	23.29	23.27	24	0		
20	QPSK	1	49	23.11	23.20	23.24				
20	QPSK	1	99	23.13	23.25	23.18				
20	QPSK	50	0	22.21	22.26	22.13				
20	QPSK	50	24	22.13	22.21	22.18	23	1		
20	QPSK	50	50	22.14	22.13	21.98				
20	QPSK	100	0	22.04	22.23	22.04				
20	16QAM	1	0	22.06	22.19	21.98				
20	16QAM	1	49	21.93	22.14	22.07	23	1		
20	16QAM	1	99	22.11	22.12	22.05				
20	16QAM	50	0	21.23	21.22	21.25				
20	16QAM	50	24	21.06	21.15	21.08				
20	16QAM	50	50	21.14	21.28	21.16	22	2		
20	16QAM	100	0	21.12	21.18	21.08				
20	64QAM	1	0	21.28	21.31	21.19				
20	64QAM	1	49	21.32	21.47	21.37				
20	64QAM	1	99	21.16	21.18	21.23	22	2		
20	64QAM	50	0	20.11	20.19	20.19				
20	64QAM	50	24	19.94	20.01	19.99				
20	64QAM	50	50	20.02	20.07	19.99				
20	64QAM	100	0	20.00	20.18	20.08	21	3		
20	256QAM	1	0	18.19	18.29	18.21				
20	256QAM	1	49	18.18	18.24	18.25				
20	256QAM	1	99	18.37	18.47	18.29				
20	256QAM	50	0	18.13	18.17	17.98	19	5		
20	256QAM	50	24	18.00	18.22	18.00				
20	256QAM	50	50	18.12	18.28	18.16				
20	256QAM	100	0	17.95	18.21	18.08				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	23.10	23.22	23.17	24	0		
15	QPSK	1	37	23.05	23.14	23.14				
15	QPSK	1	74	23.08	23.10	23.07				
15	QPSK	36	0	22.15	22.10	22.01				
15	QPSK	36	20	21.99	22.08	22.12	23	1		
15	QPSK	36	39	22.05	21.99	21.91				
15	QPSK	75	0	21.93	22.13	21.93				
15	16QAM	1	0	22.00	22.11	21.88				
15	16QAM	1	37	21.85	22.02	22.00	23	1		
15	16QAM	1	74	22.04	21.98	21.98				
15	16QAM	36	0	21.09	21.10	21.12				
15	16QAM	36	20	20.93	21.06	21.01				
15	16QAM	36	39	21.08	21.22	21.06	22	2		
15	16QAM	75	0	21.03	21.06	20.94				
15	64QAM	1	0	21.19	21.18	21.13				
15	64QAM	1	37	21.22	21.32	21.24				
15	64QAM	1	74	21.11	21.14	21.19	22	2		
15	64QAM	36	0	20.08	20.07	20.12				
15	64QAM	36	20	19.82	19.95	19.84				
15	64QAM	36	39	19.92	20.02	19.86				
15	64QAM	75	0	19.88	20.09	19.95	21	3		
15	256QAM	1	0	18.07	18.20	18.12				
15	256QAM	1	37	18.09	18.10	18.17				
15	256QAM	1	74	18.31	18.33	18.26				
15	256QAM	36	0	18.02	18.02	17.84	19	5		
15	256QAM	36	20	17.90	18.18	17.86				
15	256QAM	36	39	18.03	18.21	18.10				
15	256QAM	75	0	17.82	18.09	18.00				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.16	23.26	23.23	24	0		
10	QPSK	1	25	23.04	23.16	23.10				
10	QPSK	1	49	23.06	23.12	23.14				
10	QPSK	25	0	22.16	22.18	21.98				
10	QPSK	25	12	22.07	22.14	22.06	23	1		
10	QPSK	25	25	22.00	22.05	21.95				
10	QPSK	50	0	21.93	22.11	21.99				
10	16QAM	1	0	21.98	22.10	21.90				
10	16QAM	1	25	21.83	22.07	22.02	23	1		
10	16QAM	1	49	22.05	21.98	22.02				
10	16QAM	25	0	21.12	21.18	21.15				
10	16QAM	25	12	21.02	21.11	20.96				
10	16QAM	25	25	21.05	21.16	21.02	22	2		
10	16QAM	50	0	20.98	21.13	20.93				
10	64QAM	1	0	21.16	21.17	21.10				
10	64QAM	1	25	21.29	21.41	21.29				
10	64QAM	1	49	21.08	21.14	21.16	22	2		
10	64QAM	25	0	20.02	20.08	20.08				
10	64QAM	25	12	19.82	19.90	19.94				
10	64QAM	25	25	19.92	19.94	19.95				
10	64QAM	50	0	19.95	20.10	20.05	21	3		
10	256QAM	1	0	18.08	18.21	18.08				
10	256QAM	1	25	18.03	18.14	18.18				
10	256QAM	1	49	18.25	18.40	18.22				
10	256QAM	25	0	18.05	18.09	17.87	19	5		
10	256QAM	25	12	17.86	18.14	17.85				
10	256QAM	25	25	18.05	18.23	18.02				
10	256QAM	50	0	17.90	18.13	17.98				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.09	23.28	23.17	24	0		
5	QPSK	1	12	23.00	23.17	23.15				
5	QPSK	1	24	23.00	23.11	23.08				
5	QPSK	12	0	22.12	22.14	22.05				
5	QPSK	12	7	22.10	22.08	22.11	23	1		
5	QPSK	12	13	22.03	22.07	21.88				
5	QPSK	25	0	21.91	22.17	21.95				
5	16QAM	1	0	21.93	22.09	21.91				
5	16QAM	1	12	21.80	22.08	22.03	23	1		
5	16QAM	1	24	22.05	22.06	21.91				
5	16QAM	12	0	21.16	21.14	21.16				
5	16QAM	12	7	20.94	21.07	20.97				
5	16QAM	12	13	21.04	21.14	21.07	22	2		
5	16QAM	25	0	20.99	21.04	20.94				
5	64QAM	1	0	21.24	21.25	21.07				
5	64QAM	1	12	21.25	21.43	21.25				
5	64QAM	1	24	21.06	21.03	21.14	22	2		
5	64QAM	12	0	20.05	20.05	20.07				
5	64QAM	12	7	19.86	19.86	19.86				
5	64QAM	12	13	19.90	20.00	19.92				
5	64QAM	25	0	19.96	20.04	19.99	21	3		
5	256QAM	1	0	18.12	18.16	18.13				
5	256QAM	1	12	18.12	18.12	18.13				
5	256QAM	1	24	18.31	18.40	18.19				
5	256QAM	12	0	17.99	18.11	17.85	19	5		
5	256QAM	12	7	17.88	18.19	17.92				
5	256QAM	12	13	17.99	18.14	18.12				
5	256QAM	25	0	17.81	18.16	17.94				

Band 38 HPUE Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	25.14	25.25	25.15	27	0		
20	QPSK	1	49	25.09	25.15	25.15				
20	QPSK	1	99	25.08	25.12	25.12				
20	QPSK	50	0	24.07	24.15	24.07				
20	QPSK	50	24	24.05	24.12	24.05	26	1		
20	QPSK	50	50	24.01	24.03	24.03				
20	QPSK	100	0	24.02	24.10	24.02				
20	16QAM	1	0	24.02	24.06	24.01				
20	16QAM	1	49	24.01	24.02	24.01	26	1		
20	16QAM	1	99	24.01	24.05	24.03				
20	16QAM	50	0	23.08	23.10	23.21				
20	16QAM	50	24	23.02	23.08	23.01				
20	16QAM	50	50	23.09	23.21	23.09	25	2		
20	16QAM	100	0	23.05	23.08	23.03				
20	64QAM	1	0	23.20	23.18	23.07				
20	64QAM	1	49	23.28	23.36	23.32				
20	64QAM	1	99	23.02	23.05	23.08	25	2		
20	64QAM	50	0	22.09	22.16	22.12				
20	64QAM	50	24	22.12	22.15	22.11				
20	64QAM	50	50	22.10	22.14	22.13				
20	64QAM	100	0	22.05	22.10	22.06	24	3		
20	256QAM	1	0	20.12	20.15	20.13				
20	256QAM	1	49	20.06	20.16	20.18				
20	256QAM	1	99	20.29	20.43	20.22				
20	256QAM	50	0	20.02	20.05	20.01	22	5		
20	256QAM	50	24	20.03	20.10	20.05				
20	256QAM	50	50	20.07	20.15	20.01				
20	256QAM	100	0	20.11	20.14	20.12				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	25.03	25.21	25.05	27	0		
15	QPSK	1	37	25.13	25.24	25.17				
15	QPSK	1	74	25.05	25.21	25.06				
15	QPSK	36	0	24.22	24.24	24.19				
15	QPSK	36	20	24.16	24.32	24.19	26	1		
15	QPSK	36	39	24.12	24.14	24.11				
15	QPSK	75	0	24.04	24.22	24.14				
15	16QAM	1	0	24.17	24.17	24.12				
15	16QAM	1	37	24.10	24.12	24.11	26	1		
15	16QAM	1	74	24.11	24.22	24.13				
15	16QAM	36	0	23.20	23.18	23.31				
15	16QAM	36	20	23.02	23.26	23.06				
15	16QAM	36	39	23.09	23.30	23.20	25	2		
15	16QAM	75	0	23.11	23.20	23.18				
15	64QAM	1	0	23.39	23.20	23.12				
15	64QAM	1	37	23.30	23.47	23.42				
15	64QAM	1	74	23.11	23.21	23.21	25	2		
15	64QAM	36	0	22.05	22.35	22.27				
15	64QAM	36</								



## Band 41 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.19	23.30	23.35	23.34	23.23	24	0		
20	QPSK	1	49	23.18	23.23	23.28	23.30	23.10				
20	QPSK	1	99	23.16	23.24	23.32	23.23	23.16				
20	QPSK	50	0	22.24	22.28	22.38	22.19	22.18				
20	QPSK	50	24	22.19	22.24	22.35	22.32	22.14				
20	QPSK	50	50	22.17	22.23	22.24	22.08	22.20				
20	QPSK	100	0	22.01	22.10	22.38	22.19	22.05	23	1		
20	16QAM	1	0	22.02	22.13	22.25	22.11	22.07				
20	16QAM	1	49	21.93	22.03	22.21	22.15	21.90				
20	16QAM	1	99	22.21	22.25	22.21	22.20	22.18				
20	16QAM	50	0	21.21	21.31	21.27	21.42	21.20	22	2		
20	16QAM	50	24	21.16	21.24	21.28	21.21	21.18				
20	16QAM	50	50	21.19	21.30	21.35	21.29	21.20				
20	16QAM	100	0	21.17	21.27	21.25	21.21	21.18				
20	64QAM	1	0	21.29	21.36	21.39	21.25	21.33				
20	64QAM	1	49	21.32	21.40	21.35	21.30	21.37				
20	64QAM	1	99	21.15	21.25	21.30	21.28	21.21				
20	64QAM	50	0	20.18	20.27	20.23	20.28	20.21				
20	64QAM	50	24	19.97	20.08	20.17	20.08	19.98	21	3		
20	64QAM	50	50	20.03	20.09	20.13	20.07	19.99				
20	64QAM	100	0	20.07	20.15	20.28	20.20	20.09				
20	256QAM	1	0	18.17	18.30	18.41	18.31	18.18				
20	256QAM	1	49	18.25	18.32	18.34	18.41	18.28				
20	256QAM	1	99	18.36	18.43	18.32	18.41	18.37				
20	256QAM	50	0	18.23	18.29	18.25	18.13	18.17	19	5		
20	256QAM	50	24	18.09	18.10	18.37	18.18	18.15				
20	256QAM	50	50	18.11	18.19	18.22	18.23	18.12				
20	256QAM	100	0	18.20	18.16	18.29	18.20	17.99				
Channel												
Frequency (MHz)				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	23.06	23.25	23.28	23.20	23.14	24	0		
15	QPSK	1	37	23.11	23.14	23.15	23.27	23.06				
15	QPSK	1	74	23.06	23.09	23.27	23.16	23.10				
15	QPSK	36	0	22.15	22.23	22.34	22.05	22.13				
15	QPSK	36	20	22.11	22.12	22.25	22.22	22.02				
15	QPSK	36	39	22.07	22.14	22.20	22.02	22.14				
15	QPSK	75	0	21.89	22.05	22.24	22.13	21.95	23	1		
15	16QAM	1	0	21.92	22.06	22.11	21.98	21.97				
15	16QAM	1	37	21.82	21.99	22.14	22.06	21.77				
15	16QAM	1	74	22.13	22.18	22.09	22.15	22.09				
15	16QAM	36	0	21.09	21.26	21.14	21.33	21.13				
15	16QAM	36	20	21.04	21.16	21.23	21.15	21.06				
15	16QAM	36	39	21.12	21.19	21.22	21.16	21.15	22	2		
15	16QAM	75	0	21.03	21.18	21.17	21.14	21.07				
15	64QAM	1	0	21.16	21.26	21.29	21.20	21.24				
15	64QAM	1	37	21.24	21.26	21.25	21.19	21.22				
15	64QAM	1	74	21.04	21.21	21.21	21.21	21.11				
15	64QAM	36	0	20.05	20.24	20.16	20.16	20.10				
15	64QAM	36	20	19.84	19.99	20.09	20.01	19.90	21	3		
15	64QAM	36	39	19.96	19.98	20.02	19.92	19.85				
15	64QAM	75	0	19.95	20.01	20.21	20.16	20.05				
15	256QAM	1	0	18.05	18.15	18.35	18.20	18.10				
15	256QAM	1	37	18.21	18.21	18.20	18.31	18.13				
15	256QAM	1	74	18.30	18.37	18.21	18.30	18.27				
15	256QAM	36	0	18.15	18.18	18.14	18.01	18.13	19	5		
15	256QAM	36	20	17.95	17.98	18.27	18.04	18.04				
15	256QAM	36	39	18.06	18.12	18.17	18.14	18.07				
15	256QAM	75	0	18.06	18.05	18.18	18.14	17.89				
Channel												
Frequency (MHz)				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	23.12	23.23	23.23	23.19	23.20	24.00	0		
10	QPSK	1	25	23.12	23.10	23.15	23.23	23.00				
10	QPSK	1	49	23.12	23.21	23.17	23.19	23.09				
10	QPSK	25	0	22.15	22.24	22.30	22.05	22.09				
10	QPSK	25	12	22.05	22.18	22.29	22.21	22.10				
10	QPSK	25	25	22.04	22.18	22.11	21.96	22.16				
10	QPSK	50	0	21.94	21.96	22.28	22.07	21.98	23	1		
10	16QAM	1	0	21.89	22.09	22.22	22.01	21.93				
10	16QAM	1	25	21.81	21.88	22.10	22.09	21.87				
10	16QAM	1	49	22.08	22.12	22.14	22.06	22.07				
10	16QAM	25	0	21.07	21.21	21.18	21.39	21.12	22	2		
10	16QAM	25	12	21.02	21.12	21.25	21.07	21.08				
10	16QAM	25	25	21.13	21.24	21.30	21.16	21.13				
10	16QAM	50	0	21.02	21.22	21.21	21.07	21.12				
10	64QAM	1	0	21.19	21.32	21.27	21.19	21.24				
10	64QAM	1	25	21.21	21.26	21.26	21.17	21.28				
10	64QAM	1	49	21.03	21.13	21.18	21.18	21.09				
10	64QAM	25	0	20.10	20.21	20.17	20.11	20.17				
10	64QAM	25	12	19.91	20.02	20.13	20.01	19.90	21	3		
10	64QAM	25	25	19.99	20.02	20.01	19.97	19.94				
10	64QAM	50	0	20.00	20.10	20.22	20.06	20.04				
10	256QAM	1	0	18.14	18.18	18.28	18.24	18.04				
10	256QAM	1	25	18.11	18.24	18.23	18.33	18.23				
10	256QAM	1	49	18.27	18.37	18.27	18.34	18.30				
10	256QAM	25	0	18.08	18.21	18.13	18.05	18.11	19	5		
10	256QAM	25	12	17.98	18.02	18.32	18.15	18.08				
10	256QAM	25	25	17.96	18.15	18.12	18.13	18.05				
10	256QAM	50	0	18.16	18.02	18.23	18.10	17.96				
Channel												
Frequency (MHz)				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	23.08	23.23	23.31	23.24	23.10	24.00	0		
5	QPSK	1	12	23.08	23.20	23.24	23.24	23.07				
5	QPSK	1	24	23.09	23.18	23.21	23.14	23.02				
5	QPSK	12	0	22.19	22.18	22.28	22.11	22.07				
5	QPSK	12	7	22.14	22.10	22.29	22.25	22.11				
5	QPSK	12	13	22.06	22.15	22.18	21.93	22.12				
5	QPSK	25	0	21.95	22.05	22.25	22.08	22.00	23	1		
5	16QAM	1	0	21.90	22.01	22.18	22.02	21.92				
5	16QAM	1	12	21.86	21.94	22.17	22.06	21.75				
5	16QAM	1	24	22.06	22.18	22.07	22.16	22.10				
5	16QAM	12	0	21.13	21.20	21.13	21.29	21.14	22	2		
5	16QAM	12	7	21.09	21.17	21.19	21.11	21.04				
5	16QAM	12	13	21.05	21.18	21.28	21.20	21.10				
5	16QAM	25	0	21.04	21.20	21.13	21.18	21.10				
5	64QAM	1	0	21.24	21.23	21.32	21.11	21.21				
5	64QAM	1	12	21.20	21.26	21.21	21.20	21.23				
5	64QAM	1	24	21.07	21.19	21.18	21.18	21.17				
5	64QAM	12	0	20.11	20.14	20.19	20.12	20.13				
5	64QAM	12	7	19.91	19.93	20.14	20.01	19.85	21	3		
5	64QAM	12	13	19.99	20.04	20.04	19.98	19.89				
5	64QAM	25	0	20.02	20.02	20.20	20.12	20.02				
5	256QAM	1	0	18.09	18.25	18.30	18.23	18.05				
5	256QAM	1	12	18.14	18.20	18.25	18.29	18.18				
5	256QAM	1	24	18.31	18.38	18.23	18.27	18.24				
5	256QAM	12	0	18.08	18.25	18.13	18.09	18.06	19	5		
5	256QAM	12	7	18.01	18.00	18.33	18.04	18.12				
5	256QAM	12	13	18.08	18.09	18.13	18.18	18.06				
5	256QAM	25	0	18.15	18.10	18.22	18.13	17.86				
Channel												
Frequency (MHz)				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	23.06	23.25	23.28	23.20	23.14	24	0		
15	QPSK	1	37	23.11	23.14	23.15	23.27	23.06				
15	QPSK	1	74	23.06	23.09	23.27	23.16	23.10				
15	QPSK	36	0	22.15	22.23	22.34	22.05	22.13				
15	QPSK	36	20	22.11	22.12	22.25	22.22	22.02				
15	QPSK	36	39	22.07	22.14	22.20	22.02	22.14				
15	QPSK	75	0	21.89	22.05	22.24	22.13	21.95	23	1		
15	16QAM	1	0	21.92	22.06	22.11	21.98	21.97				
15	16QAM	1	37	21.82	21.99	22.14	22.06	21.77				
15	16QAM	1	74	22.13	22.18	22.09	22.15	22.09				
15	16QAM	36	0	21.09	21.26	21.14	21.33	21.13				
15	16QAM	36	20	21.04	21.16	21.23	21.15	21.06				
15	16QAM	36	39	21.12	21.19	21.22	21.16	21.15	22	2		
15	16QAM	75	0	21.03	21.18	21.17	21.14	21.07				
15	64QAM	1	0	21.16	21.26	21.29	21.20	21.24				
15	64QAM	1	37	21.24	21.26	21.25	21.19	21.22				
15	64QAM	1	74	21.04	21.21	21.21	21.21	21.11				
15	64QAM	36	0	20.05	20.24	20.16	20.16	20.10				
15	64QAM	36	20	19.84	19.99	20.09	20.01	19.90	21	3		
15	64QAM	36	39									



GSM850 Ant1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	33.50	824.2	836.4	848.8	33.50
GSM 1 Tx slot	32.86	32.84	32.91	33.50	23.86	23.94	23.91	24.50
GPRS 1 Tx slot	32.84	32.92	32.77	33.50	23.84	23.92	23.77	24.50
GPRS 2 Tx slots	30.15	30.29	30.17	31.00	24.15	24.29	24.17	25.00
GPRS 3 Tx slots	28.62	28.74	28.64	29.50	24.36	24.48	24.38	25.24
GPRS 4 Tx slots	26.68	26.76	26.69	28.00	23.68	23.76	23.69	25.00
EDGE 1 Tx slot	25.82	25.93	25.86	27.00	16.82	16.93	16.86	18.00
EDGE 2 Tx slots	25.06	25.13	24.99	26.00	19.06	19.13	18.99	20.00
EDGE 3 Tx slots	23.34	23.41	23.27	24.50	19.08	19.15	19.01	20.24
EDGE 4 Tx slots	21.68	21.81	21.70	23.00	18.68	18.81	18.70	20.00

GSM1900 Ant1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.50	1850.2	1880	1909.8	30.50
GSM 1 Tx slot	29.21	29.28	29.24	30.50	20.21	20.28	20.24	21.50
GPRS 1 Tx slot	29.12	29.23	29.15	30.50	20.12	20.23	20.15	21.50
GPRS 2 Tx slots	26.11	26.17	26.06	27.00	20.11	20.17	20.06	21.00
GPRS 3 Tx slots	24.42	24.54	24.41	25.50	20.16	20.28	20.15	21.24
GPRS 4 Tx slots	22.75	22.88	22.74	24.00	19.75	19.88	19.74	21.00
EDGE 1 Tx slot	24.05	24.20	24.10	25.00	15.05	15.20	15.10	16.00
EDGE 2 Tx slots	23.08	23.21	23.09	24.00	17.08	17.21	17.09	18.00
EDGE 3 Tx slots	21.79	21.88	21.78	23.00	17.53	17.62	17.52	18.74
EDGE 4 Tx slots	20.06	20.15	20.01	21.00	17.06	17.15	17.01	18.00

Band	WCDMA II Ant1			Tune-up Limit (dBm)	WCDMA IV Ant1			Tune-up Limit (dBm)	WCDMA V Ant1			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6	24.00	1712.4	1732.6	1752.6	24.00	826.4	836.4	846.6	24.00	
3GPP Rel 99	AMR 12.2Kbps	23.44	23.61	23.45	24.00	23.44	23.58	23.48	24.00	23.34	23.38	23.30	24.00
3GPP Rel 99	RMC 12.2Kbps	23.59	23.63	23.51	24.00	23.49	23.61	23.55	24.00	23.37	23.42	23.35	24.00
3GPP Rel 6	HSDPA Subtest-1	22.58	22.61	22.50	23.00	22.52	22.66	22.60	23.00	22.29	22.37	22.27	23.00
3GPP Rel 6	HSDPA Subtest-2	22.57	22.71	22.38	23.00	22.55	22.71	22.42	23.00	22.29	22.43	22.13	23.00
3GPP Rel 6	HSDPA Subtest-3	22.10	22.13	22.11	22.50	22.00	22.07	22.01	22.50	21.81	21.91	21.79	22.50
3GPP Rel 6	HSDPA Subtest-4	21.93	22.18	22.10	22.50	21.89	22.15	22.13	22.50	21.73	21.86	21.94	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.51	22.60	22.56	23.00	22.60	22.61	22.52	23.00	22.33	22.38	22.23	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.55	22.55	22.62	23.00	22.52	22.57	22.64	23.00	22.32	22.33	22.33	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.83	22.05	21.82	22.50	21.83	22.02	21.99	22.50	21.70	21.83	21.72	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.90	22.15	22.01	22.50	21.91	22.13	21.89	22.50	21.57	21.89	21.65	22.50
3GPP Rel 6	HSUPA Subtest-1	22.54	22.44	22.58	23.00	22.50	22.59	22.55	23.00	22.32	22.34	22.37	23.00
3GPP Rel 6	HSUPA Subtest-2	20.66	20.71	20.66	21.00	20.65	20.75	20.56	21.00	20.47	20.49	20.34	21.00
3GPP Rel 6	HSUPA Subtest-3	21.67	21.81	21.52	22.00	21.72	21.63	21.52	22.00	21.48	21.32	21.27	22.00
3GPP Rel 6	HSUPA Subtest-4	20.52	20.69	20.60	21.00	20.52	20.65	20.76	21.00	20.16	20.42	20.43	21.00
3GPP Rel 6	HSUPA Subtest-5	22.53	22.58	22.44	23.00	22.53	22.46	22.49	23.00	22.24	22.37	22.24	23.00



### Band 2 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)
Channel									
				1860	1880	1900			
20	QPSK	1	0	21.75	21.84	21.81			
10	QPSK	1	49	21.83	21.76	21.70		23	0
10	QPSK	1	99	21.83	21.76	21.70		23	0
20	QPSK	50	0	20.89	20.93	20.85			
10	QPSK	24	20	20.78	20.82	20.74			
20	QPSK	50	50	20.70	20.80	20.65		22	1
20	QPSK	100	0	20.79	20.80	20.86			
10	HQAM	1	0	20.83	20.92	20.73			
20	HQAM	1	49	20.87	20.99	20.83		22	1
20	HQAM	1	99	20.85	20.84	20.82			
10	HQAM	24	0	19.98	19.87	19.86			
20	HQAM	50	24	19.74	20.00	19.87		21	2
20	HQAM	50	50	19.87	19.74	19.81			
20	HQAM	100	0	19.82	19.85	19.84			
20	HQAM	1	0	19.63	19.73	19.52			
20	HQAM	1	49	19.64	19.59	19.65		21	2
20	HQAM	1	99	19.65	19.64	19.69			
20	HQAM	50	0	18.60	18.90	18.74			
20	HQAM	50	24	18.80	18.86	18.74		20	3
20	HQAM	50	50	18.79	18.78	18.94			
20	HQAM	100	0	18.68	18.70	18.77			
20	HQAM	1	49	18.74	18.66	18.76		18	5
20	HQAM	1	99	18.69	18.72	18.67			
20	HQAM	50	24	18.74	18.84	18.79			
20	HQAM	50	50	18.88	18.86	18.69		18	5
20	HQAM	100	0	18.78	18.81	18.84			
20	HQAM	100	0	18.77	18.80	18.80			
Channel									
				18815	18900	19125			
Frequency (MHz)									
15	QPSK	1	0	21.83	21.78	21.69			
10	QPSK	1	49	21.82	21.67	21.62		23	0
10	QPSK	1	99	21.85	21.72	21.64		23	0
10	QPSK	96	0	20.83	21.00	20.76			
10	QPSK	24	20	20.84	20.73	20.69			
10	QPSK	36	39	20.56	20.65	20.59		22	1
10	QPSK	75	0	20.76	20.69	20.77			
10	HQAM	1	0	20.75	20.76	20.62			
10	HQAM	1	37	20.53	20.75	20.72		22	1
10	HQAM	1	74	20.64	20.65	20.67			
10	HQAM	36	0	19.84	19.78	19.71			
15	HQAM	36	20	19.70	19.97	19.74		21	2
15	HQAM	36	39	19.85	19.78	19.85			
15	HQAM	75	0	19.70	19.70	19.80			
15	HQAM	1	0	19.47	19.67	19.48		21	2
15	HQAM	1	37	19.68	19.76	19.67			
15	HQAM	1	74	19.49	19.53	19.53			
15	HQAM	36	0	18.49	18.75	18.67		20	3
15	HQAM	36	39	18.67	18.69	18.69			
15	HQAM	36	75	18.54	18.77	18.59			
15	HQAM	75	0	18.62	18.68	18.72			
15	HQAM	1	49	18.65	18.65	18.65		18	5
15	HQAM	1	99	18.64	18.78	18.70			
15	HQAM	1	74	18.68	18.63	18.67			
15	HQAM	36	20	18.65	18.66	18.66			
15	HQAM	36	39	18.72	18.68	18.69			
15	HQAM	36	75	18.80	18.79	18.65		18	5
15	HQAM	75	0	18.63	18.76	18.73			
15	HQAM	75	0	18.75	18.75	18.73			
15	HQAM	100	0	18.74	18.83	18.81		18	5
Channel									
				18655	18800	19130			
Frequency (MHz)									
10	QPSK	1	0	21.85	21.73	21.61			
10	QPSK	1	25	21.85	21.73	21.61		23	0
10	QPSK	1	49	21.82	21.65	21.60			
10	QPSK	25	0	20.86	20.82	20.68			
10	QPSK	25	12	20.96	20.82	20.68		22	1
10	QPSK	25	25	20.87	20.73	20.64			
10	HQAM	1	0	20.72	20.81	20.63			
10	HQAM	1	25	20.84	20.76	20.79		22	1
10	HQAM	25	0	19.69	19.69	19.63			
10	HQAM	25	12	19.85	19.94	19.79		21	2
10	HQAM	25	25	19.78	19.68	19.63			
10	HQAM	50	0	19.58	19.81	19.87			
10	HQAM	1	0	19.49	19.61	19.40		21	2
10	HQAM	1	25	19.58	19.56	19.55			
10	HQAM	25	0	18.53	18.70	18.63		20	3
10	HQAM	25	12	18.67	18.82	18.67			
10	HQAM	25	25	18.66	18.72	18.64			
10	HQAM	50	0	18.61	18.68	18.67			
10	HQAM	1	49	18.64	18.78	18.68		18	5
10	HQAM	1	25	18.64	18.65	18.62			
10	HQAM	25	0	18.64	18.78	18.73			
10	HQAM	25	12	18.71	18.84	18.61		18	5
10	HQAM	25	25	18.71	18.76	18.71			
10	HQAM	50	0	18.77	18.68	18.62			
Channel									
				18825	18900	19175			
Frequency (MHz)									
5	QPSK	1	0	21.81	21.78	21.67			
5	QPSK	1	12	21.85	21.70	21.55			
5	QPSK	1	24	21.48	21.68	21.56		23	0
5	QPSK	12	0	20.84	20.98	20.86			
5	QPSK	12	7	20.85	20.72	20.71		22	1
5	QPSK	12	13	20.69	20.85	20.57			
5	HQAM	1	0	20.71	20.84	20.67			
5	HQAM	1	0	20.76	20.84	20.59		22	1
5	HQAM	1	12	20.53	20.85	20.73			
5	HQAM	12	0	19.78	19.82	19.75			
5	HQAM	12	7	19.60	19.83	19.76		21	2
5	HQAM	12	13	19.78	19.82	19.84			
5	HQAM	25	0	19.74	19.78	19.80			
5	HQAM	1	0	19.41	19.62	19.36		21	2
5	HQAM	1	12	19.69	19.67	19.64			
5	HQAM	1	24	19.49	19.49	19.49			
5	HQAM	12	0	18.55	18.80	18.61		20	3
5	HQAM	12	7	18.72	18.85	18.61			
5	HQAM	12	13	18.71	18.68	18.62			
5	HQAM	25	0	18.64	18.69	18.69			
5	HQAM	1	0	18.67	18.73	18.68			
5	HQAM	1	12	18.69	18.72	18.68		18	5
5	HQAM	1	24	18.67	18.67	18.66			
5	HQAM	12	0	18.60	18.87	18.96			
5	HQAM	12	7	18.60	18.81	18.67			
5	HQAM	12	13	18.69	18.79	18.61		18	5
5	HQAM	25	0	18.69	18.69	18.61			
5	HQAM	25	0	18.69	18.69	18.61			
5	HQAM	25	7	18.69	18.75	18.61		18	5
5	HQAM	25	0	18.69	18.68	18.61			
Channel									
				18815	18900	19130			
Frequency (MHz)									
3	QPSK	1	0	21.84	21.80	21.82			
3	QPSK	1	8	21.83	21.70	21.61		23	0
3	QPSK	1	14	21.59	21.72	21.60			
3	QPSK	3	0	20.83	20.83	20.83			
3	QPSK	3	4	20.84	20.71	20.64		22	1
3	QPSK	3	7	20.59	20.77	20.60			
3	HQAM	1	0	20.79	20.84	20.64			
3	HQAM	1	8	20.81	20.91	20.64		22	1
3	HQAM	1	14	20.63	20.73	20.66			
3	HQAM	3	0	19.89	19.83	19.78			
3	HQAM	3	4	19.81	19.86	19.78		21	2
3	HQAM	3	7	19.80	19.69	19.74			
3	HQAM	15	0	19.75	19.77	19.81			
3	HQAM	1	0	19.67	19.68	19.67		21	2
3	HQAM	1	8	19.55	19.59	19.40			
3	HQAM	1	14	19.55	19.51	19.51			
3	HQAM	3	0	18.63	18.76	18.62		20	3
3	HQAM	3	4	18.74	18.81	18.84			
3	HQAM	3	7	18.70	18.70	18.60			
3	HQAM	15	0	18.71	18.67	18.65			
3	HQAM	1	8	18.60	18.74	18.70		18	5
3	HQAM								



Band 7 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.85	21.93	21.77	23	0			
20	QPSK	1	49	21.71	21.77	21.67	23	0			
20	QPSK	50	0	20.83	20.91	20.85	22	1			
20	QPSK	50	24	20.71	20.87	20.78	22	1			
20	QPSK	50	50	20.88	20.82	20.84	22	1			
20	QPSK	100	0	20.78	20.89	20.75	22	1			
20	HQAM	1	0	20.95	20.99	21.05	22	1			
20	HQAM	1	49	20.72	20.81	20.74	22	1			
20	HQAM	1	99	20.89	20.75	20.76	22	1			
20	HQAM	50	0	19.82	19.82	19.82	21	2			
20	HQAM	50	24	19.83	19.82	19.78	21	2			
20	HQAM	50	50	19.72	19.71	19.66	20	3			
20	HQAM	100	0	19.87	19.79	19.73	20	3			
20	HQAM	1	0	19.82	19.87	19.83	18	5			
20	HQAM	1	49	19.73	19.87	19.86	18	5			
20	HQAM	50	0	18.72	18.85	18.73	18	5			
20	HQAM	50	24	18.77	18.83	18.86	18	5			
20	HQAM	50	50	18.87	18.81	18.86	18	5			
20	SSQAM	1	0	16.70	16.82	16.82	18	5			
20	SSQAM	1	49	16.70	16.82	16.82	18	5			
20	SSQAM	1	99	16.83	16.86	16.85	18	5			
20	SSQAM	50	0	16.87	16.86	16.85	18	5			
20	SSQAM	50	24	16.85	16.79	16.75	18	5			
20	SSQAM	50	50	16.71	16.70	16.64	18	5			
20	SSQAM	100	0	20.85	21.00	21.15	22	1			
Channel											
Frequency (MHz)											
15	QPSK	1	0	21.80	21.86	21.86	23	0			
15	QPSK	1	49	21.71	21.72	21.76	23	0			
15	QPSK	1	74	21.80	21.83	21.85	23	0			
15	QPSK	50	0	20.71	20.81	20.75	22	1			
15	QPSK	50	24	20.59	20.78	20.70	22	1			
15	QPSK	50	50	20.49	20.71	20.51	22	1			
15	HQAM	1	0	20.52	20.55	20.59	22	1			
15	HQAM	1	37	20.65	20.78	20.70	22	1			
15	HQAM	1	74	19.87	19.82	19.83	21	2			
15	HQAM	36	0	19.77	19.77	19.75	21	2			
15	HQAM	36	20	19.62	19.75	19.70	21	2			
15	HQAM	36	39	19.88	19.76	19.84	21	2			
15	HQAM	75	0	19.54	19.68	19.60	20	3			
15	HQAM	1	0	19.47	19.57	19.40	20	3			
15	HQAM	1	37	19.65	19.78	19.68	20	3			
15	HQAM	1	74	19.45	19.47	19.53	20	3			
15	HQAM	36	0	18.88	18.71	18.87	18	5			
15	HQAM	36	20	18.98	18.86	18.87	18	5			
15	HQAM	36	39	18.81	18.80	18.20	18	5			
15	HQAM	75	0	18.87	18.77	18.60	18	5			
15	SSQAM	1	0	16.87	16.88	16.88	18	5			
15	SSQAM	1	37	16.84	16.73	16.70	18	5			
15	SSQAM	1	74	16.43	16.80	16.51	18	5			
15	SSQAM	50	0	16.88	16.87	16.87	18	5			
15	SSQAM	50	24	16.59	16.68	16.20	18	5			
15	SSQAM	50	39	16.82	16.81	16.54	18	5			
15	SSQAM	75	0	16.58	16.62	16.54	18	5			
Channel											
Frequency (MHz)											
5	QPSK	1	0	21.70	21.79	21.70	23	0			
5	QPSK	1	25	21.75	21.68	21.81	23	0			
5	QPSK	1	49	21.58	21.65	21.81	23	0			
5	QPSK	25	0	20.79	20.81	20.87	22	1			
5	QPSK	25	12	20.59	20.78	20.64	22	1			
5	QPSK	25	25	20.47	20.67	20.57	22	1			
5	HQAM	1	0	20.58	20.57	20.64	22	1			
5	HQAM	1	25	20.83	20.70	20.83	22	1			
5	HQAM	1	49	20.68	20.68	20.68	21	2			
5	HQAM	25	0	19.79	19.87	19.72	21	2			
5	HQAM	25	12	19.59	19.75	19.69	21	2			
5	HQAM	25	25	19.87	19.81	19.88	21	2			
5	HQAM	50	0	19.53	19.65	19.68	20	3			
5	HQAM	1	0	19.47	19.59	19.41	20	3			
5	HQAM	1	25	19.65	19.83	19.25	20	3			
5	HQAM	1	49	19.41	19.48	19.50	20	3			
5	HQAM	25	0	18.85	18.81	18.89	18	5			
5	HQAM	25	12	18.64	18.76	18.81	18	5			
5	HQAM	25	25	18.77	18.78	18.60	18	5			
5	HQAM	50	0	18.69	18.72	18.58	18	5			
5	SSQAM	1	0	16.85	16.75	16.87	18	5			
5	SSQAM	1	25	16.82	16.71	16.69	18	5			
5	SSQAM	1	49	16.44	16.51	16.51	18	5			
5	SSQAM	25	0	16.87	16.77	16.81	18	5			
5	SSQAM	25	12	16.54	16.69	16.62	18	5			
5	SSQAM	25	25	16.82	16.82	16.51	18	5			
5	SSQAM	50	0	16.58	16.62	16.54	18	5			
Channel											
Frequency (MHz)											
5	QPSK	1	0	21.71	21.81	21.83	23	0			
5	QPSK	1	12	21.71	21.76	21.82	23	0			
5	QPSK	1	24	21.60	21.86	21.83	23	0			
5	QPSK	12	0	20.71	20.85	20.79	22	1			
5	QPSK	12	7	20.58	20.84	20.63	22	1			
5	HQAM	1	0	20.53	20.64	20.58	22	1			
5	HQAM	1	12	20.66	20.74	20.62	22	1			
5	HQAM	1	24	20.63	20.65	20.64	22	1			
5	HQAM	12	0	19.70	19.76	19.73	21	2			
5	HQAM	12	7	19.63	19.70	19.70	21	2			
5	HQAM	12	13	19.65	19.67	19.68	21	2			
5	HQAM	25	0	19.82	19.68	19.62	21	2			
5	HQAM	1	0	19.48	19.59	19.48	20	3			
5	HQAM	1	12	19.66	19.78	19.62	20	3			
5	HQAM	1	24	19.46	19.43	19.48	20	3			
5	HQAM	12	0	18.88	18.80	18.60	18	5			
5	HQAM	12	7	18.71	18.75	18.82	18	5			
5	HQAM	12	13	18.75	18.74	18.62	18	5			
5	HQAM	25	0	18.71	18.76	18.55	18	5			
5	HQAM	25	12	18.48	18.76	18.75	18	5			
5	SSQAM	1	0	16.59	16.78	16.71	18	5			
5	SSQAM	1	24	16.59	16.52	16.45	18	5			
5	SSQAM	12	0	16.85	16.75	16.83	18	5			
5	SSQAM	12	7	16.59	16.71	16.59	18	5			
5	SSQAM	12	13	16.86	16.59	16.51	18	5			
5	SSQAM	25	0	16.53	16.65	16.64	18	5			

Band 12 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.87	23.09	23.04	24	0			
10	QPSK	1	25	22.83	22.99	22.96	24	0			
10	QPSK	1	49	22.84	23.05	22.93	24	0			
10	QPSK	25	0	22.08	22.15	21.95	23	1			
10	QPSK	25	12	22.03	22.02	21.98	23	1			
10	QPSK	25	25	22.10	22.12	21.92	23	1			
10	HQAM	1	0	21.94	22.11	21.92	23	1			
10	HQAM	1	25	21.90	22.03	21.97	23	1			
10	HQAM	1	49	22.02	22.08	22.01	22	2			
10	HQAM	1	74	21.56	21.52	21.56	22	2			
10	HQAM	25	12	21.13	21.10	21.08	22	2			
10	HQAM	25	25	20.95	21.20	21.09	22	2			
10	HQAM	50	0	20.85	21.10	21.09	22	2			
10	HQAM	1	0	21.10	21.22	21.09	22	2			
10	HQAM	1	25	21.23	21.32	21.27	22	2			
10	HQAM	1	49	20.97	21.20	21.14	22	2			
10	HQAM	25	0	20.04	20.17	20.04	21	3			
10	HQAM	25	12	19.86	20.08	19.95	21	3			
10	HQAM	25	25	20.01	20.31	20.08	21	3			
10	HQAM	50	0	19.87	20.08	19.97	21	3			
10	SSQAM	1	0	18.20	18.35	18.46	19	5			
10	SSQAM	1	25	18.07	18.28	18.15	19	5			
10	SSQAM	1	49	18.21	18.26	18.27	19	5			
10	SSQAM	12	0	18.27	18.35	18.41	19	5			
10	SSQAM	12	7	18.09	18.08	18.07	19	5			
10	SSQAM	12	13	18.00	18.08	18.07	19	5			
10	SSQAM	25	0	17.86	18.18	18.07	19	5			
10	SSQAM	50	0	20.85	21.00	21.15	22	1			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.84	23.06	22.83	24	0			
5	QPSK	1	24	22.79	23.01	22.90	24	0			
5	QPSK	12	0	21.98	22.10	21.88	23	1			
5	QPSK	12	7	21.89	21.95	21.94	23	1			
5	QPSK	12	13	21.96	22.05	21.89	23	1			
5	HQAM	1	0	21.87	22.03	21.89	23	1			
5	HQAM	1	25	21.83	21.92	21.89	23	1			
5	HQAM	1	12	21.82	21.99	21.89	23	1			
5	HQAM	12	0	19.82	19.85	19.86	22	2			
5	HQAM	12	7	20.09	21.01	20.96	22	2			
5	HQAM	12	13	20.07	20.07	20.07	22	2			
5	HQAM	25	0	20.85	20.99	20.82	22	2			
5	HQAM	1	0	21.01	21.08	20.96	22	2			
5	HQAM	1	24								



Band 25 Ant 1									
BW (MHz)	Modulation	RIS Size	RF Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Hsp Ch./Freq.	Time-up Limit (min)	MPE (dB)	Notes
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.80	21.81	21.88			
20	QPSK	1	49	21.80	21.84	21.84	23	0	
20	QPSK	1	99	21.71	21.84	21.74			
20	QPSK	50	0	20.96	21.00	20.93			
20	QPSK	50	24	20.96	21.00	20.93			
20	QPSK	50	50	20.77	20.85	20.73	22	1	
20	QPSK	100	0	20.88	21.03	20.92			
20	16QAM	1	0	20.87	20.99	20.77			
20	16QAM	1	49	20.75	20.95	20.90	22	1	
20	16QAM	1	99	20.70	20.88	20.86			
20	16QAM	50	0	20.02	20.94	20.92			
20	16QAM	50	24	19.79	20.03	19.91	21	2	
20	16QAM	50	50	19.92	19.79	19.95			
20	16QAM	100	0	19.87	19.99	19.88			
20	64QAM	1	0	19.58	19.79	19.59			
20	64QAM	1	49	19.73	19.93	19.62	21	2	
20	64QAM	50	0	19.63	19.88	19.88			
20	64QAM	50	24	19.86	19.90	19.81	20	3	
20	64QAM	50	50	19.86	19.90	19.74			
20	64QAM	100	0	19.76	19.77	19.85			
20	256QAM	1	0	18.84	19.91	19.86	18	5	
20	256QAM	1	49	19.77	19.85	19.75			
20	256QAM	1	99	19.55	19.89	19.86			
20	256QAM	50	0	18.94	19.93	19.79	18	5	
20	256QAM	50	24	19.61	19.85	19.88			
20	256QAM	50	50	18.84	19.85	19.88			
20	256QAM	100	0	18.87	19.87	19.87			

Channel									
Frequency (MHz)									
15	QPSK	1	0	21.68	21.84	21.78			
15	QPSK	1	37	21.67	21.74	21.68	23	0	
15	QPSK	1	74	21.61	21.78	21.61			
15	QPSK	36	0	20.81	21.03	20.84			
15	QPSK	36	20	20.88	20.90	20.77	22	1	
15	QPSK	36	39	20.62	20.73	20.61			
15	QPSK	75	0	20.80	20.94	20.72			
15	16QAM	1	0	20.79	20.72	20.72			
15	16QAM	1	37	20.61	20.80	20.79	22	1	
15	16QAM	1	74	20.84	20.86	20.86			
15	16QAM	36	0	19.90	19.94	19.78			
15	16QAM	36	20	19.74	20.00	19.78	21	2	
15	16QAM	36	39	19.83	19.85	19.87			
15	16QAM	75	0	19.78	19.78	19.86			
15	64QAM	1	0	19.50	19.72	19.53	21	2	
15	64QAM	1	37	19.63	19.80	19.67			
15	64QAM	1	74	19.51	19.55	19.51			
15	64QAM	36	0	18.86	18.79	18.72	20	3	
15	64QAM	36	20	18.77	18.87	18.87			
15	64QAM	36	39	18.72	18.84	18.85			
15	64QAM	75	0	18.69	18.68	18.80			
15	256QAM	1	0	18.65	18.82	18.82	18	5	
15	256QAM	1	37	18.69	18.95	18.75			
15	256QAM	1	74	18.61	18.67	18.70			
15	256QAM	36	0	18.74	18.62	18.77			
15	256QAM	36	20	18.77	18.85	18.86	18	5	
15	256QAM	36	39	18.71	18.82	18.79			
15	256QAM	75	0	18.76	18.76	18.83			

Channel									
Frequency (MHz)									
10	QPSK	1	0	21.88	21.78	21.88			
10	QPSK	1	25	21.88	21.82	21.68	23	0	
10	QPSK	1	49	21.58	21.70	21.83			
10	QPSK	36	0	20.88	20.90	20.77	22	1	
10	QPSK	36	20	20.71	20.87	20.74			
10	QPSK	36	39	20.72	20.76	20.89			
10	16QAM	1	0	20.78	20.85	20.85	22	1	
10	16QAM	1	24	20.79	20.82	20.84			
10	16QAM	25	0	19.97	19.87	19.89			
10	16QAM	25	12	19.88	19.97	19.83	21	2	
10	16QAM	25	49	19.84	19.88	19.84			
10	16QAM	50	0	19.73	19.88	19.84			
10	64QAM	1	0	19.55	19.65	19.48	21	2	
10	64QAM	1	24	19.62	19.80	19.63			
10	64QAM	1	49	19.55	19.61	19.62			
10	64QAM	25	0	18.81	18.79	18.70	20	3	
10	64QAM	25	12	18.82	18.95	18.78			
10	64QAM	25	25	18.74	18.78	18.68			
10	64QAM	50	0	18.95	18.72	18.71			
10	64QAM	50	24	18.71	18.84	18.81			
10	256QAM	1	0	18.69	18.87	18.76	18	5	
10	256QAM	1	49	18.70	18.71	18.81			
10	256QAM	1	99	18.68	18.84	18.81			
10	256QAM	25	12	18.78	18.88	18.68	18	5	
10	256QAM	25	25	18.74	18.82	18.75			
10	256QAM	50	0	18.92	18.95	18.99			

Channel									
Frequency (MHz)									
5	QPSK	1	0	21.88	21.78	21.88			
5	QPSK	1	12	21.71	21.78	21.82	23	0	
5	QPSK	1	24	21.67	21.72	21.64			
5	QPSK	12	0	20.88	20.90	20.81	22	1	
5	QPSK	12	7	20.69	20.79	20.79			
5	QPSK	12	13	20.69	20.72	20.62			
5	16QAM	1	0	20.79	20.87	20.87	22	1	
5	16QAM	1	12	20.62	20.80	20.81			
5	16QAM	1	24	20.67	20.84	20.81			
5	16QAM	12	0	19.85	19.80	19.84			
5	16QAM	12	7	19.67	19.81	19.83	21	2	
5	16QAM	12	13	19.85	19.86	19.83			
5	16QAM	25	0	19.78	19.86	19.85			
5	64QAM	1	0	18.47	19.71	19.45	21	2	
5	64QAM	1	12	18.62	19.68	19.63			
5	64QAM	1	24	18.57	18.55	18.54			
5	64QAM	12	0	18.59	18.83	18.67	20	3	
5	64QAM	12	7	18.77	18.83	18.89			
5	64QAM	12	13	18.75	18.76	18.98			
5	64QAM	25	0	18.68	18.63	18.75			
5	256QAM	1	0	18.75	18.85	18.78	18	5	
5	256QAM	1	12	18.73	18.77	18.76			
5	256QAM	1	24	18.73	18.86	18.80			
5	256QAM	12	0	18.84	18.88	18.71			
5	256QAM	12	7	18.78	18.88	18.64	18	5	
5	256QAM	12	13	18.78	18.76	18.75			
5	256QAM	25	0	18.92	18.76	18.69			

Channel									
Frequency (MHz)									
3	QPSK	1	0	21.72	21.85	21.74			
3	QPSK	1	8	21.71	21.78	21.82	23	0	
3	QPSK	1	14	21.67	21.78	21.65			
3	QPSK	3	0	20.88	21.00	20.89	22	1	
3	QPSK	3	4	20.69	20.78	20.73			
3	QPSK	3	8	20.64	20.81	20.81			
3	QPSK	15	0	20.78	20.88	20.83	22	1	
3	16QAM	1	0	20.84	20.86	20.70			
3	16QAM	1	8	20.71	20.86	20.76	22	1	
3	16QAM	1	14	20.88	20.87	20.84			
3	16QAM	3	0	19.93	19.89	19.82	21	2	
3	16QAM	3	4	19.65	19.90	19.87			
3	16QAM	3	8	19.84	19.86	19.80			
3	16QAM	15	0	19.84	19.85	19.90			
3	64QAM	1	0	19.53	19.65	19.44	21	2	
3	64QAM	1	8	19.62	19.83	19.53			
3	64QAM	1	14	19.59	19.59	19.55			
3	64QAM	3	0	18.89	18.81	18.91	20	3	
3	64QAM	3	4	18.81	18.86	18.77			
3	64QAM	3	8	18.75	18.76	18.87			
3	64QAM	15	0	18.70	18.76	18.78			
3	256QAM	1	0	18.76	18.75	18.70	18	5	
3	256QAM	1	8	18.68	18.79	18.78			
3	256QAM	1	14	18.68	18.86	18.87			
3	256QAM	3	0	18.70	18.91	18.79	18	5	
3	256QAM	3	4	18.76	18.91	18.77			
3	256QAM	3	8	18.68	18.88	18.89	18	5	
3	256QAM	3	14	18.74	18.89	18.78			
3	256QAM	15	0	18.81	18.72	18.59			

Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.74	21.88	21.88			
1.4	QPSK	1	3	21.75	21.81	21.87	23	0	
1.4	QPSK	1	3	21.73	21.78	21.86			
1.4	QPSK	3	0	21.83	21.84	21.83			
1.4	QPSK	3	1	21.63	21.80	21.81			
1.4	QPSK	3	3	21.58	21.84	21.74	22	1	
1.4	16QAM	1	0	20.78	20.86	20.80			
1.4	16QAM	1	3	20.72	20.79	20.68	22	1	
1.4	16QAM	1	6	20.74	20.81	20.71			
1.4	16QAM	3	0	20.74	20.91	20.71	22	1	
1.4	16QAM	3	1	20.63	20.88	20.83			
1.4	16QAM	3	3	19.95	19.92	19.93	21	2	
1.4	64QAM	1	0	19.37	19.68	19.67	21	2	
1.4	64QAM	1	3	19.85	19.85	19.90			
1.4	64QAM	1	6	19.73	19.83	19.83			
1.4	64QAM	3	0	19.64	19.88	19.85	21	2	
1.4	64QAM	3	1	19.64	19.88	19.85			
1.4	64QAM	3	3	19.58	19.61	19.66	20	3	
1.4	64QAM	15	0						

Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.33	22.37	22.28	23	0	
20	QPSK	1	49	22.15	22.31	22.20			
20	QPSK	1	99	22.19	22.26	22.23			
20	QPSK	50	0	21.22	21.29	21.25			
20	QPSK	50	24	21.25	21.25	21.20			
20	QPSK	50	50	21.10	21.23	21.11	22	1	
20	QPSK	100	0	21.18	21.21	21.15			
20	16QAM	1	0	21.28	21.39	21.12			
20	16QAM	1	49	21.23	21.37	21.38	22	1	
20	16QAM	1	99	21.27	21.26	21.15			
20	16QAM	50	0	20.37	20.41	20.45			
20	16QAM	50	24	20.18	20.23	20.27	21	2	
20	16QAM	50	50	20.23	20.43	20.28			
20	16QAM	100	0	20.27	20.32	20.01			
20	64QAM	1	0	20.37	20.40	20.37			
20	64QAM	1	49	20.26	20.36	20.33	21	2	
20	64QAM	1	99	20.28	20.32	20.20			
20	64QAM	50	0	19.26	19.41	19.27			
20	64QAM	50	24	19.16	19.22	19.17			
20	64QAM	50	50	19.28	19.40	19.32	20	3	
20	64QAM	100	0	19.30	19.33	19.23			
20	256QAM	1	0	17.35	17.46	17.23			
20	256QAM	1	49	17.27	17.19	17.24	18	5	
20	256QAM	1	99	17.32	17.43	17.18			
20	256QAM	50	0	17.11	17.19	17.16			
20	256QAM	50	24	16.90	17.07	17.08			
20	256QAM	50	50	17.05	17.10	17.03	18	5	
20	256QAM	100	0	17.02	17.11	16.91			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.29	22.30	22.14	23	0	
15	QPSK	1	37	22.10	22.27	22.11			
15	QPSK	1	74	22.07	22.15	22.10			
15	QPSK	36	0	21.15	21.13	21.13			
15	QPSK	36	20	21.12	21.13	21.12	22	1	
15	QPSK	36	39	21.05	21.17	21.01			
15	QPSK	75	0	21.14	21.08	21.07			
15	16QAM	1	0	21.17	21.32	21.07			
15	16QAM	1	37	21.10	21.29	21.29	22	1	
15	16QAM	1	74	21.16	21.11	21.11			
15	16QAM	36	0	20.30	20.37	20.38			
15	16QAM	36	20	20.14	20.19	20.13	21	2	
15	16QAM	36	39	20.14	20.32	20.13			
15	16QAM	75	0	20.24	20.17	19.92			
15	64QAM	1	0	20.32	20.25	20.24			
15	64QAM	1	37	20.21	20.32	20.29	21	2	
15	64QAM	1	74	20.15	20.18	20.17			
15	64QAM	36	0	19.12	19.26	19.22			
15	64QAM	36	20	19.05	19.18	19.02	20	3	
15	64QAM	36	39	19.19	19.28	19.20			
15	64QAM	75	0	19.17	19.29	19.19			
15	256QAM	1	0	17.21	17.39	17.09			
15	256QAM	1	37	17.20	17.14	17.13	18	5	
15	256QAM	1	74	17.25	17.29	17.10			
15	256QAM	36	0	17.07	17.09	17.03			
15	256QAM	36	20	16.81	16.96	16.98	18	5	
15	256QAM	36	39	16.96	16.97	16.98			
15	256QAM	75	0	16.89	16.98	16.87			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.21	22.22	22.16	23	0	
10	QPSK	1	25	22.08	22.28	22.08			
10	QPSK	1	49	22.10	22.13	22.09			
10	QPSK	25	0	21.15	21.15	21.16			
10	QPSK	25	12	21.15	21.11	21.11	22	1	
10	QPSK	25	25	20.98	21.14	21.05			
10	QPSK	50	0	21.08	21.08	21.05			
10	16QAM	1	0	21.15	21.33	21.08			
10	16QAM	1	25	21.09	21.26	21.31	22	1	
10	16QAM	1	49	21.16	21.20	21.03			
10	16QAM	25	0	20.33	20.28	20.38			
10	16QAM	25	12	20.11	20.17	20.17	21	2	
10	16QAM	25	25	20.17	20.35	20.11			
10	16QAM	50	0	20.23	20.23	19.91			
10	64QAM	1	0	20.29	20.34	20.31			
10	64QAM	1	25	20.17	20.28	20.26	21	2	
10	64QAM	1	49	20.21	20.24	20.17			
10	64QAM	25	0	19.19	19.35	19.16			
10	64QAM	25	12	19.05	19.09	19.04	20	3	
10	64QAM	25	25	19.24	19.32	19.21			
10	64QAM	50	0	19.19	19.27	19.17			
10	256QAM	1	0	17.22	17.32	17.19			
10	256QAM	1	25	17.23	17.15	17.18	18	5	
10	256QAM	1	49	17.29	17.39	17.08			
10	256QAM	25	0	17.03	17.07	17.06			
10	256QAM	25	12	16.82	17.01	16.97	18	5	
10	256QAM	25	25	16.91	17.04	16.94			
10	256QAM	50	0	16.89	17.07	16.80			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.21	22.26	22.20	23	0	
5	QPSK	1	12	22.12	22.28	22.07			
5	QPSK	1	24	22.10	22.20	22.10			
5	QPSK	12	0	21.08	21.15	21.21			
5	QPSK	12	7	21.11	21.20	21.11	22	1	
5	QPSK	12	13	21.06	21.18	20.97			
5	QPSK	25	0	21.11	21.08	21.11			
5	16QAM	1	0	21.22	21.33	21.01			
5	16QAM	1	12	21.14	21.28	21.23	22	1	
5	16QAM	1	24	21.22	21.14	21.05			
5	16QAM	12	0	20.34	20.27	20.36			
5	16QAM	12	7	20.12	20.16	20.16	21	2	
5	16QAM	12	13	20.11	20.37	20.16			
5	16QAM	25	0	20.20	20.22	19.95			
5	64QAM	1	0	20.30	20.32	20.32			
5	64QAM	1	12	20.23	20.32	20.26	21	2	
5	64QAM	1	24	20.23	20.27	20.10			
5	64QAM	12	0	19.19	19.30	19.22			
5	64QAM	12	7	19.12	19.19	19.04	20	3	
5	64QAM	12	13	19.21	19.32	19.20			
5	64QAM	25	0	19.25	19.19	19.11			
5	256QAM	1	0	17.32	17.39	17.11			
5	256QAM	1	12	17.17	17.13	17.20	18	5	
5	256QAM	1	24	17.29	17.34	17.05			
5	256QAM	12	0	17.03	17.15	17.08			
5	256QAM	12	7	16.80	16.97	16.93	18	5	
5	256QAM	12	13	17.00	17.00	16.91			
5	256QAM	25	0	16.88	17.05	16.81			

Band 38 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.42	24.45	24.40	26	0	
20	QPSK	1	49	24.23	24.41	24.34			
20	QPSK	1	99	24.25	24.33	24.30			
20	QPSK	50	0	23.32	23.42	23.34			
20	QPSK	50	24	23.32	23.34	23.27			
20	QPSK	50	50	23.17	23.33	23.17	25	1	
20	QPSK	100	0	23.32	23.33	23.27			
20	16QAM	1	0	23.38	23.53	23.21			
20	16QAM	1	49	23.37	23.45	23.50	25	1	
20	16QAM	1	99	23.37	23.35	23.29			
20	16QAM	50	0	22.51	22.58	22.55			
20	16QAM	50	24	22.35	22.33	22.42			
20	16QAM	50	50	22.35	22.56	22.32	24	2	
20	16QAM	100	0	22.37	22.46	22.16			
20	64QAM	1							

### Band 41 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.25	22.37	22.39	22.32	22.28	23	0
20	QPSK	1	49	22.27	22.18	22.32	22.23	22.18		
20	QPSK	1	99	22.14	22.25	22.29	22.24	22.25		
20	QPSK	50	0	21.29	21.31	21.36	21.28	21.33	22	1
20	QPSK	50	24	21.22	21.29	21.31	21.24	21.17		
20	QPSK	50	50	21.29	21.17	21.32	21.16	21.24		
20	QPSK	100	0	21.20	21.26	21.33	21.20	21.30		
20	16QAM	1	0	21.35	21.38	21.39	21.20	21.31	22	1
20	16QAM	1	49	21.40	21.33	21.44	21.49	21.39		
20	16QAM	1	99	21.27	21.32	21.31	21.17	21.23		
20	16QAM	50	0	20.33	20.43	20.43	20.56	20.31		
20	16QAM	50	24	20.17	20.28	20.32	20.35	20.19	21	2
20	16QAM	50	50	20.34	20.28	20.45	20.33	20.38		
20	16QAM	100	0	20.31	20.32	20.38	20.12	20.30		
20	64QAM	1	0	20.37	20.43	20.52	20.42	20.39		
20	64QAM	1	49	20.26	20.29	20.37	20.40	20.31	21	2
20	64QAM	1	99	20.24	20.30	20.32	20.21	20.29		
20	64QAM	50	0	19.32	19.34	19.43	19.37	19.33		
20	64QAM	50	24	19.24	19.21	19.28	19.27	19.24		
20	64QAM	50	50	19.29	19.31	19.42	19.42	19.36	20	3
20	64QAM	100	0	19.28	19.31	19.37	19.32	19.25		
20	256QAM	1	0	17.36	17.42	17.50	17.29	17.43		
20	256QAM	1	49	17.14	17.27	17.25	17.24	17.19	18	5
20	256QAM	1	99	17.33	17.44	17.47	17.27	17.37		
20	256QAM	50	0	17.11	17.15	17.24	17.17	17.12		
20	256QAM	50	24	17.12	17.01	17.16	17.08	17.03		
20	256QAM	50	50	17.08	17.09	17.21	17.11	17.10	18	5
20	256QAM	100	0	17.08	17.10	17.12	16.98	17.04		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.06	22.14	22.25	22.09	22.14	23	0
15	QPSK	1	37	22.03	22.00	22.13	22.01	22.12		
15	QPSK	1	74	21.86	21.77	21.97	21.79	21.88		
15	QPSK	36	0	21.24	21.28	21.33	21.19	21.23	22	1
15	QPSK	36	20	21.07	21.16	21.19	21.12	21.03		
15	QPSK	36	39	21.23	21.04	21.24	21.12	21.20		
15	QPSK	75	0	21.12	21.16	21.24	21.10	21.18	25	1
15	16QAM	1	0	21.22	21.30	21.32	21.09	21.16	22	1
15	16QAM	1	37	21.36	21.30	21.34	21.38	21.28		
15	16QAM	1	74	21.22	21.21	21.16	21.04	21.16		
15	16QAM	36	0	20.19	20.32	20.30	20.49	20.26	21	2
15	16QAM	36	20	20.03	20.18	20.18	20.21	20.08		
15	16QAM	36	39	20.27	20.23	20.40	20.24	20.34		
15	16QAM	75	0	20.18	20.18	20.24	20.02	20.15		
15	64QAM	1	0	20.29	20.37	20.38	20.39	20.31	21	2
15	64QAM	1	37	20.21	20.23	20.29	20.26	20.23		
15	64QAM	1	74	20.18	20.16	20.23	20.07	20.22		
15	64QAM	36	0	19.28	19.24	19.33	19.25	19.25	20	3
15	64QAM	36	20	19.20	19.12	19.20	19.23	19.15		
15	64QAM	36	39	19.18	19.26	19.35	19.28	19.24		
15	64QAM	75	0	19.24	19.21	19.30	19.25	19.20		
15	256QAM	1	0	17.27	17.31	17.36	17.21	17.33	18	5
15	256QAM	1	37	17.04	17.18	17.20	17.11	17.14		
15	256QAM	1	74	17.20	17.32	17.36	17.23	17.28		
15	256QAM	36	0	16.96	17.00	17.14	17.05	17.00		
15	256QAM	36	20	17.02	16.98	17.06	17.03	16.95	18	5
15	256QAM	36	39	16.99	17.03	17.13	17.00	17.00		
15	256QAM	75	0	17.04	17.01	17.01	16.85	16.89		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.06	22.10	22.19	22.06	22.07	23.00	0
10	QPSK	1	25	22.01	21.96	22.17	21.99	22.02		
10	QPSK	1	49	21.88	21.81	21.99	21.79	21.84		
10	QPSK	25	0	21.20	21.23	21.24	21.20	21.18	22	1
10	QPSK	25	12	21.09	21.25	21.21	21.12	21.09		
10	QPSK	25	25	21.15	21.13	21.26	21.07	21.16		
10	QPSK	50	0	21.10	21.23	21.24	21.12	21.15		
10	16QAM	1	0	21.31	21.25	21.33	21.06	21.28	22	1
10	16QAM	1	25	21.30	21.27	21.33	21.43	21.36		
10	16QAM	1	49	21.12	21.29	21.18	21.10	21.18		
10	16QAM	25	0	20.21	20.30	20.30	20.48	20.18	21	2
10	16QAM	25	12	20.07	20.18	20.26	20.28	20.14		
10	16QAM	25	25	20.21	20.18	20.41	20.26	20.23		
10	16QAM	50	0	20.26	20.29	20.31	20.02	20.25		
10	64QAM	1	0	20.33	20.35	20.47	20.28	20.34	21	2
10	64QAM	1	25	20.20	20.15	20.28	20.32	20.19		
10	64QAM	1	49	20.11	20.16	20.21	20.07	20.24		
10	64QAM	25	0	19.24	19.25	19.30	19.26	19.24		
10	64QAM	25	12	19.16	19.16	19.14	19.23	19.10	20	3
10	64QAM	25	25	19.20	19.22	19.32	19.38	19.23		
10	64QAM	50	0	19.21	19.23	19.22	19.27	19.12		
10	256QAM	1	0	17.24	17.37	17.45	17.19	17.29	18	5
10	256QAM	1	25	17.11	17.21	17.20	17.19	17.10		
10	256QAM	1	49	17.23	17.36	17.44	17.21	17.28		
10	256QAM	25	0	17.04	17.08	17.11	17.06	17.07		
10	256QAM	25	12	17.05	16.90	17.04	16.99	16.92	18	5
10	256QAM	25	25	16.98	17.02	17.12	17.06	17.02		
10	256QAM	50	0	17.02	17.02	17.05	16.93	16.90		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.09	22.17	22.22	22.05	22.08	23.00	0
5	QPSK	1	12	22.11	21.96	22.09	22.01	22.12		
5	QPSK	1	24	21.92	21.83	21.92	21.78	21.84		
5	QPSK	12	0	21.18	21.27	21.30	21.20	21.28	22	1
5	QPSK	12	7	21.16	21.17	21.25	21.12	21.13		
5	QPSK	12	13	21.22	21.12	21.19	21.11	21.09		
5	QPSK	25	0	21.10	21.12	21.19	21.07	21.21	25	1
5	16QAM	1	0	21.27	21.24	21.35	21.09	21.26	22	1
5	16QAM	1	12	21.35	21.23	21.31	21.39	21.27		
5	16QAM	1	24	21.14	21.26	21.24	21.10	21.13		
5	16QAM	12	0	20.24	20.35	20.36	20.50	20.24	21	2
5	16QAM	12	7	20.06	20.17	20.28	20.32	20.09		
5	16QAM	12	13	20.28	20.17	20.37	20.18	20.26		
5	16QAM	25	0	20.17	20.18	20.24	20.01	20.18		
5	64QAM	1	0	20.31	20.39	20.45	20.34	20.35	21	2
5	64QAM	1	12	20.16	20.18	20.26	20.29	20.22		
5	64QAM	1	24	20.19	20.27	20.25	20.17	20.23		
5	64QAM	12	0	19.27	19.29	19.32	19.24	19.30		
5	64QAM	12	7	19.19	19.13	19.22	19.17	19.14	20	3
5	64QAM	12	13	19.16	19.25	19.36	19.33	19.29		
5	64QAM	25	0	19.25	19.25	19.22	19.27	19.13		
5	256QAM	1	0	17.28	17.27	17.40	17.24	17.36	18	5
5	256QAM	1	12	17.11	17.20	17.17	17.18	17.05		
5	256QAM	1	24	17.24	17.3					



### Band 42 FCC Part27Q Ant 2

BW (MHz)	Modulation	RS Size	RS Offset	Power Ch./Freq. (W/Hz)	Power High Ch./Freq. (W/Hz)	Power Low Ch./Freq. (W/Hz)	Frq. offset (MHz)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.24	23.41	23.38	24	0
20	QPSK	1	49	23.17	23.34	23.30	24	0
20	QPSK	1	98	23.10	23.27	23.24	24	0
20	QPSK	1	147	23.03	23.20	23.16	24	0
20	QPSK	50	24	22.24	22.21	22.13	23	1
20	QPSK	50	73	22.17	22.14	22.06	23	1
20	QPSK	50	122	22.10	22.07	22.00	23	1
20	QPSK	50	171	22.03	22.00	21.92	23	1
20	HQAM	1	0	22.24	22.26	22.25	23	1
20	HQAM	1	49	22.17	22.19	22.20	23	1
20	HQAM	1	98	22.10	22.12	22.10	23	1
20	HQAM	50	24	21.24	21.26	21.31	22	2
20	HQAM	50	73	21.14	21.15	21.21	22	2
20	HQAM	50	122	21.05	21.06	21.11	22	2
20	HQAM	50	171	20.95	20.97	21.00	22	2
20	HQAM	1	50	21.24	21.24	21.17	22	2
20	HQAM	1	99	21.14	21.14	21.07	22	2
20	HQAM	1	148	21.05	21.05	20.98	22	2
20	HQAM	50	24	20.74	20.72	20.72	21	3
20	HQAM	50	73	20.52	20.53	20.51	21	3
20	HQAM	50	122	20.39	20.34	20.31	21	3
20	ZSSB/A	1	0	18.42	18.41	18.14	19	5
20	ZSSB/A	1	49	18.34	18.31	18.26	19	5
20	ZSSB/A	1	98	18.26	18.28	18.26	19	5
20	ZSSB/A	1	147	18.18	18.16	18.16	19	5
20	ZSSB/A	50	24	18.05	18.06	18.05	19	5
20	ZSSB/A	50	73	17.92	17.93	17.94	19	5
20	ZSSB/A	50	122	17.80	17.81	17.84	19	5
20	ZSSB/A	50	171	17.69	17.68	17.66	19	5
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.23	23.40	23.37	24	0
15	QPSK	1	49	23.16	23.33	23.29	24	0
15	QPSK	1	97	23.09	23.26	23.23	24	0
15	QPSK	1	146	23.02	23.19	23.16	24	0
15	QPSK	38	0	22.28	22.30	22.26	23	1
15	QPSK	38	47	22.21	22.23	22.19	23	1
15	QPSK	38	96	22.14	22.16	22.11	23	1
15	QPSK	38	145	22.07	22.09	22.04	23	1
15	HQAM	1	0	22.23	22.21	21.93	23	1
15	HQAM	1	49	22.16	22.14	21.86	23	1
15	HQAM	1	97	22.09	22.08	21.79	23	1
15	HQAM	1	146	22.02	22.01	21.72	23	1
15	HQAM	38	0	21.22	21.28	21.25	22	2
15	HQAM	38	47	21.15	21.21	21.18	22	2
15	HQAM	38	96	21.08	21.13	21.10	22	2
15	HQAM	38	145	21.01	21.06	21.03	22	2
15	HQAM	79	0	21.28	21.27	21.25	22	2
15	HQAM	79	48	21.21	21.20	21.18	22	2
15	HQAM	79	97	21.14	21.13	21.11	22	2
15	HQAM	79	146	21.07	21.06	21.04	22	2
15	HQAM	1	37	21.21	21.20	21.20	22	2
15	HQAM	1	86	21.10	21.09	21.09	22	2
15	HQAM	1	135	21.00	20.99	21.00	22	2
15	HQAM	38	0	20.25	20.34	20.34	21	3
15	HQAM	38	47	20.18	20.27	20.27	21	3
15	HQAM	38	96	20.11	20.20	20.21	21	3
15	HQAM	38	145	20.04	20.13	20.14	21	3
15	HQAM	79	0	20.10	20.10	20.10	21	3
15	HQAM	79	48	20.03	20.02	20.02	21	3
15	HQAM	79	97	19.96	19.95	19.95	21	3
15	ZSSB/A	1	0	17.87	17.84	17.61	19	5
15	ZSSB/A	1	49	17.80	17.77	17.62	19	5
15	ZSSB/A	1	98	17.72	17.73	17.75	19	5
15	ZSSB/A	1	147	17.64	17.65	17.65	19	5
15	ZSSB/A	50	24	17.62	17.64	17.65	19	5
15	ZSSB/A	50	73	17.55	17.56	17.57	19	5
15	ZSSB/A	50	122	17.48	17.48	17.54	19	5
15	ZSSB/A	50	171	17.41	17.41	17.50	19	5

### Band 42 FCC (3.5GHz Band)

BW (MHz)	Modulation	RS Size	RS Offset	Power Ch./Freq. (W/Hz)	Power High Ch./Freq. (W/Hz)	Power Low Ch./Freq. (W/Hz)	Frq. offset (MHz)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.26	23.27	23.17	24	0
20	QPSK	1	49	23.20	23.21	23.09	24	0
20	QPSK	1	98	23.14	23.12	23.00	24	0
20	QPSK	1	147	23.07	23.05	22.93	24	0
20	QPSK	50	24	22.03	22.03	21.98	23	1
20	QPSK	50	73	21.96	21.96	21.91	23	1
20	QPSK	50	122	21.89	21.89	21.85	23	1
20	QPSK	50	171	21.82	21.82	21.78	23	1
20	HQAM	1	0	22.26	22.26	22.20	23	1
20	HQAM	1	49	22.20	22.20	22.14	23	1
20	HQAM	1	98	22.14	22.14	22.08	23	1
20	HQAM	1	147	22.08	22.08	22.02	23	1
20	HQAM	50	24	21.24	21.24	21.21	22	2
20	HQAM	50	73	21.18	21.18	21.15	22	2
20	HQAM	50	122	21.12	21.12	21.09	22	2
20	HQAM	50	171	21.06	21.06	21.03	22	2
20	HQAM	1	50	21.24	21.24	21.17	22	2
20	HQAM	1	99	21.18	21.18	21.11	22	2
20	HQAM	1	148	21.12	21.12	21.05	22	2
20	HQAM	50	24	20.74	20.74	20.74	21	3
20	HQAM	50	73	20.52	20.52	20.52	21	3
20	HQAM	50	122	20.39	20.39	20.39	21	3
20	ZSSB/A	1	0	18.14	18.14	17.86	19	5
20	ZSSB/A	1	49	18.06	18.06	17.78	19	5
20	ZSSB/A	1	98	17.98	17.98	17.70	19	5
20	ZSSB/A	1	147	17.90	17.90	17.62	19	5
20	ZSSB/A	50	24	17.77	17.78	17.75	19	5
20	ZSSB/A	50	73	17.70	17.70	17.67	19	5
20	ZSSB/A	50	122	17.63	17.63	17.60	19	5
20	ZSSB/A	50	171	17.56	17.56	17.53	19	5
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.23	23.38	23.32	24	0
15	QPSK	1	49	23.17	23.32	23.26	24	0
15	QPSK	1	97	23.11	23.26	23.20	24	0
15	QPSK	1	146	23.04	23.19	23.13	24	0
15	QPSK	38	0	22.23	22.25	22.20	23	1
15	QPSK	38	47	22.16	22.18	22.13	23	1
15	QPSK	38	96	22.09	22.11	22.06	23	1
15	QPSK	38	145	22.02	22.04	21.99	23	1
15	HQAM	1	0	22.23	22.21	21.93	23	1
15	HQAM	1	49	22.16	22.14	21.86	23	1
15	HQAM	1	97	22.09	22.08	21.79	23	1
15	HQAM	1	146	22.02	22.01	21.72	23	1
15	HQAM	38	0	21.22	21.28	21.25	22	2
15	HQAM	38	47	21.15	21.21	21.18	22	2
15	HQAM	38	96	21.08	21.13	21.10	22	2
15	HQAM	38	145	21.01	21.06	21.03	22	2
15	HQAM	79	0	21.28	21.27	21.25	22	2
15	HQAM	79	48	21.21	21.20	21.18	22	2
15	HQAM	79	97	21.14	21.13	21.11	22	2
15	HQAM	79	146	21.07	21.06	21.04	22	2
15	HQAM	1	37	21.21	21.20	21.20	22	2
15	HQAM	1	86	21.10	21.09	21.09	22	2
15	HQAM	1	135	21.00	20.99	21.00	22	2
15	HQAM	38	0	20.25	20.34	20.34	21	3
15	HQAM	38	47	20.18	20.27	20.27	21	3
15	HQAM	38	96	20.11	20.20	20.21	21	3
15	HQAM	38	145	20.04	20.13	20.14	21	3
15	HQAM	79	0	20.10	20.10	20.10	21	3
15	HQAM	79	48	20.03	20.02	20.02	21	3
15	HQAM	79	97	19.96	19.95	19.95	21	3
15	ZSSB/A	1	0	17.87	17.84	17.61	19	5
15	ZSSB/A	1	49	17.80	17.77	17.62	19	5
15	ZSSB/A	1	98	17.72	17.73	17.75	19	5
15	ZSSB/A	1	147	17.64	17.65	17.65	19	5
15	ZSSB/A	50	24	17.62	17.64	17.65	19	5
15	ZSSB/A	50	73	17.55	17.56	17.57	19	5
15	ZSSB/A	50	122	17.48	17.48	17.54	19	5
15	ZSSB/A	50	171	17.41	17.41	17.50	19	5

### Band 43 for FCC use Ant 2

BW (MHz)	Modulation	RS Size	RS Offset	Power Ch./Freq. (W/Hz)	Power High Ch./Freq. (W/Hz)	Power Low Ch./Freq. (W/Hz)	Frq. offset (MHz)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.27	23.46	23.38	24	0
20	QPSK	1	49	23.21	23.40	23.32	24	0
20	QPSK	1	98	23.15	23.34	23.26	24	0
20	QPSK	1	147	23.09	23.28	23.18	24	0
20	QPSK	50	24	22.18	22.22	22.13	23	1
20	QPSK	50	73	22.12	22.16	22.07	23	1
20	QPSK	50	122	22.06	22.10	22.01	23	1
20	QPSK	50	171	22.00	22.04	21.95	23	1
20	HQAM	1	0	22.27	22.28	22.25	23	1
20	HQAM	1	49	22.21	22.22	22.19	23	1
20	HQAM	1	98	22.15	22.16	22.13	23	1
20	HQAM	1	147	22.09	22.10	22.07	23	1
20	HQAM	50	24	21.28	21.22	21.27	22	2
20	HQAM	50	73	21.21	21.24	21.20	22	2
20	HQAM	50	122	21.14	21.17	21.13	22	2
20	HQAM	50	171	21.07	21.10	21.06	22	2
20	HQAM	1	50	21.27	21.24	21.20	22	2
20	HQAM	1	99	21.20	21.17	21.13	22	2
20	HQAM	1	148	21.13	21.10	21.06	22	2
20	HQAM	50	24	20.67	20.74	20.78	21	3
20	HQAM	50	73	20.50	20.50	20.50	21	3
2								

## Reduced Power Mode for DSI 2

GSM850 Ant0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.64	32.76	32.68	33.50	23.64	23.76	23.68	24.50
GPRS 1 Tx slot	32.57	32.72	32.66	33.50	23.57	23.72	23.66	24.50
GPRS 2 Tx slots	30.09	30.15	30.05	31.00	24.09	24.15	24.05	25.00
GPRS 3 Tx slots	28.60	28.67	28.59	29.50	24.34	24.41	24.33	25.24
GPRS 4 Tx slots	27.05	27.14	27.04	28.00	24.05	24.14	24.04	25.00
EDGE 1 Tx slot	25.95	26.05	25.93	27.00	16.95	17.05	16.93	18.00
EDGE 2 Tx slots	25.05	25.13	25.09	26.00	19.05	19.13	19.09	20.00
EDGE 3 Tx slots	23.34	23.42	23.33	24.50	19.08	19.16	19.07	20.24
EDGE 4 Tx slots	21.62	21.74	21.67	23.00	18.62	18.74	18.67	20.00

GSM1900 Ant0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1869.8		1850.2	1860.00	1869.80	
GSM 1 Tx slot	29.68	29.75	29.72	30.50	20.68	20.75	20.72	21.50
GPRS 1 Tx slot	28.60	28.73	28.66	30.50	20.60	20.73	20.66	21.50
GPRS 2 Tx slots	26.71	26.83	26.74	28.00	20.71	20.83	20.74	22.00
GPRS 3 Tx slots	25.27	25.35	25.26	26.50	21.01	21.09	21.00	22.24
GPRS 4 Tx slots	23.77	23.84	23.73	25.00	20.77	20.84	20.73	22.00
EDGE 1 Tx slot	24.69	24.84	24.75	26.00	15.69	15.84	15.75	17.00
EDGE 2 Tx slots	23.76	23.86	23.78	25.00	17.76	17.86	17.78	19.00
EDGE 3 Tx slots	22.38	22.51	22.38	23.50	18.12	18.25	18.12	19.24
EDGE 4 Tx slots	20.72	20.84	20.72	22.00	17.72	17.84	17.72	19.00

Band	WCDMA II Ant0			Tune-up Limit (dBm)	WCDMA IV Ant0			Tune-up Limit (dBm)	WCDMA V Ant0			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662.00	9800.00	9938.00		1537.00	1638.00	1738.00		4357.00	4407.00	4458.00		
Frequency (MHz)	1852.40	1880.00	1907.60		1712.40	1732.60	1752.60		826.40	836.40	846.60		
3GPP Rel 99	AMR 12.2Kbps	22.95	23.03	22.93	24.00	22.99	23.10	22.96	24.00	23.10	23.19	23.06	24.00
3GPP Rel 99	RMC 12.2Kbps	23.02	23.06	22.97	24.00	23.05	23.13	23.09	24.00	23.17	23.23	23.15	24.00
3GPP Rel 6	HSDPA Subtest-1	21.95	22.07	22.00	23.00	21.95	22.12	22.01	23.00	22.05	22.16	22.21	23.00
3GPP Rel 6	HSDPA Subtest-2	21.99	22.16	21.68	23.00	21.97	22.17	21.74	23.00	22.20	22.33	22.27	23.00
3GPP Rel 6	HSDPA Subtest-3	21.45	21.84	21.52	22.50	21.49	21.58	21.50	22.50	21.68	21.85	21.76	22.50
3GPP Rel 6	HSDPA Subtest-4	21.40	21.61	21.58	22.50	21.42	21.64	21.55	22.50	21.55	21.71	21.70	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.08	22.10	21.90	23.00	22.07	22.11	21.98	23.00	22.23	22.21	22.17	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.91	21.97	22.12	23.00	21.93	21.97	22.00	23.00	22.14	22.14	22.21	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.29	21.40	21.35	22.50	21.31	21.44	21.39	22.50	21.50	21.66	21.60	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.34	21.52	21.48	22.50	21.45	21.65	21.41	22.50	21.52	21.76	21.60	22.50
3GPP Rel 6	HSUPA Subtest-1	22.00	21.87	22.03	23.00	21.89	21.98	22.01	23.00	21.98	22.21	22.15	23.00
3GPP Rel 6	HSUPA Subtest-2	20.08	20.22	20.04	21.00	20.13	20.19	20.11	21.00	20.36	20.24	20.23	21.00
3GPP Rel 6	HSUPA Subtest-3	21.06	21.00	20.88	22.00	21.15	21.00	20.98	22.00	21.22	21.23	21.08	22.00
3GPP Rel 6	HSUPA Subtest-4	19.86	20.03	20.17	21.00	19.92	20.10	20.18	21.00	20.08	20.32	20.35	21.00
3GPP Rel 6	HSUPA Subtest-5	21.90	21.99	21.89	23.00	21.97	22.11	21.93	23.00	22.14	22.17	22.02	23.00



Band 2 Ant 0													
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MFR (dB)					
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.	(dB)	(dB)					
20	QPSK	1	0	22.59	22.66	22.64	24	0					
20	QPSK	1	49	22.64	22.62	22.64							
20	QPSK	1	99	22.46	22.61	22.54							
20	QPSK	50	0	21.69	21.72	21.56							
20	QPSK	50	24	21.62	21.62	21.62							
20	QPSK	50	49	21.67	21.66	21.54							
20	QPSK	100	0	21.52	21.58	21.48							
20	QPSK	100	24	21.55	21.71	21.59							
20	QPSK	100	49	21.50	21.67	21.71							
20	HQAM	1	0	21.85	21.71	21.82							
20	HQAM	1	49	20.73	20.83	20.75							
20	HQAM	50	24	20.87	20.71	20.83							
20	HQAM	50	49	20.80	20.77	20.85							
20	HQAM	100	0	20.50	20.69	20.55							
20	HQAM	100	24	20.73	20.78	20.85							
20	HQAM	100	49	20.64	20.90	20.82							
20	HQAM	150	0	19.82	19.87	19.82							
20	HQAM	150	24	19.53	19.89	19.57							
20	HQAM	150	49	19.56	19.87	19.82							
20	HQAM	100	0	19.45	19.87	19.53							
20	HQAM	150	0	17.86	17.99	17.77							
20	HQAM	150	49	17.68	17.78	17.78							
20	HQAM	150	99	17.83	17.87	17.81							
20	HQAM	150	149	17.86	17.87	17.87							
20	HQAM	150	199	17.82	17.83	17.85							
20	HQAM	150	249	17.67	17.82	17.82							
20	HQAM	150	299	17.50	17.79	17.74							
Channel				1897.5	1898.0	1915.5	Turn-up (dB)	MFR (dB)					
15	QPSK	1	0	22.40	22.81	22.83							
15	QPSK	1	49	22.43	22.82	22.84							
15	QPSK	1	99	22.33	22.82	22.84							
15	QPSK	50	0	21.60	21.84	21.82							
15	QPSK	50	24	21.63	21.69	21.82							
15	QPSK	50	49	21.63	21.80	21.40							
15	QPSK	100	0	21.40	21.59	21.49							
15	QPSK	100	24	21.50	21.57	21.44							
15	QPSK	100	49	21.46	21.80	21.48							
15	HQAM	1	0	21.46	21.80	21.48							
15	HQAM	1	49	20.87	20.89	20.87							
15	HQAM	50	24	20.62	20.87	20.81							
15	HQAM	50	49	20.63	20.84	20.81							
15	HQAM	100	0	20.44	20.55	20.50							
15	HQAM	100	24	20.53	20.84	20.59							
15	HQAM	100	49	20.58	20.78	20.82							
15	HQAM	150	0	19.24	19.26	19.26							
15	HQAM	150	24	19.18	19.20	19.25							
15	HQAM	150	49	19.27	19.23	19.23							
15	HQAM	100	0	19.37	19.83	19.49							
15	HQAM	150	0	17.56	17.78	17.78							
15	HQAM	150	49	17.58	17.78	17.78							
15	HQAM	150	99	17.68	17.77	17.76							
15	HQAM	150	149	17.56	17.78	17.76							
15	HQAM	150	199	17.45	17.83	17.83							
15	HQAM	150	249	17.55	17.75	17.58							
15	HQAM	150	299	17.50	17.75	17.58							
15	HQAM	150	349	17.43	17.75	17.43							
Channel				1895.5	1896.0	1915.5	Turn-up (dB)	MFR (dB)					
10	QPSK	1	0	22.40	22.43	22.43							
10	QPSK	1	25	22.40	22.47	22.51							
10	QPSK	1	49	22.40	22.43	22.43							
10	QPSK	12	0	21.64	21.64	21.64							
10	QPSK	12	13	21.58	21.63	21.44							
10	QPSK	12	25	21.58	21.61	21.39							
10	QPSK	12	37	21.45	21.52	21.42							
10	QPSK	12	49	21.61	21.60	21.41							
10	HQAM	1	0	21.61	21.58	21.64							
10	HQAM	1	25	20.99	20.70	20.69							
10	HQAM	50	13	20.63	20.68	20.56							
10	HQAM	50	25	20.59	20.69	20.58							
10	HQAM	50	37	20.44	20.59	20.40							
10	HQAM	100	0	20.40	20.66	20.56							
10	HQAM	100	13	20.51	20.84	20.77							
10	HQAM	100	25	20.47	20.85	20.67							
10	HQAM	150	0	19.56	19.65	19.62							
10	HQAM	150	13	19.54	19.54	19.65							
10	HQAM	150	25	19.35	19.59	19.48							
10	HQAM	150	37	19.35	19.59	19.48							
10	HQAM	100	0	19.15	19.68	19.44							
10	HQAM	150	0	17.81	17.71	17.74							
10	HQAM	150	49	17.68	17.72	17.77							
10	HQAM	150	99	17.58	17.58	17.58							
10	HQAM	150	149	17.46	17.81	17.81							
10	HQAM	150	199	17.59	17.70	17.58							
10	HQAM	150	249	17.44	17.67	17.63							
Channel				1892.5	1893.0	1917.5	Turn-up (dB)	MFR (dB)					
5	QPSK	1	0	22.42	22.45	22.51							
5	QPSK	1	25	22.42	22.48	22.43							
5	QPSK	1	49	22.43	22.44	22.46							
5	QPSK	12	0	21.51	21.60	21.48							
5	QPSK	12	13	21.57	21.63	21.45							
5	QPSK	12	25	21.48	21.52	21.42							
5	QPSK	12	37	21.51	21.58	21.44							
5	HQAM	1	0	21.51	21.58	21.44							
5	HQAM	1	25	20.92	20.68	20.69							
5	HQAM	50	13	20.56	20.69	20.51							
5	HQAM	50	25	20.56	20.69	20.58							
5	HQAM	50	37	20.39	20.62	20.48							
5	HQAM	100	0	20.46	20.67	20.52							
5	HQAM	100	13	20.71	20.79	20.77							
5	HQAM	100	25	20.40	20.74	20.56							
5	HQAM	150	0	19.27	19.69	19.46							
5	HQAM	150	13	19.25	19.65	19.43							
5	HQAM	150	25	19.18	19.59	19.45							
5	HQAM	150	37	19.35	19.68	19.44							
5	HQAM	100	0	18.92	19.67	19.63							
5	HQAM	150	0	17.58	17.78	17.81							
5	HQAM	150	49	17.50	17.78	17.81							
5	HQAM	150	99	17.52	17.82	17.82							
5	HQAM	150	149	17.42	17.82	17.82							
5	HQAM	150	199	17.45	17.83	17.82							
5	HQAM	150	249	17.56	17.76	17.61							
5	HQAM	150	299	17.43	17.68	17.68							
Channel				1892.5	1893.0	1917.5	Turn-up (dB)	MFR (dB)					
3	QPSK	1	0	22.47	22.54	22.51							
3	QPSK	1	14	22.38	22.48	22.42							
3	QPSK	1	28	22.37	22.57	22.48							
3	QPSK	12	0	21.61	21.67	21.63							
3	QPSK	12	13	21.67	21.63	21.51							
3	QPSK	12	25	21.59	21.67	21.45							
3	QPSK	12	37	21.47	21.46	21.43							
3	HQAM	1	0	21.57	21.66	21.44							
3	HQAM	1	8	21.36	21.60	21.63							
3	HQAM	1	14	21.55	21.60	21.46							
3	HQAM	8	0	20.66	20.67	20.70							
3	HQAM	8	4	20.54	20.87	20.80							
3	HQAM	15	0	19.50	19.96	20.61							
3	HQAM	15	0	20.42	20.53	20.47							
3	HQAM	15	2	20.56	20.67	20.52							
3	HQAM	15	4	20.78	20.77	20.69							
3	HQAM	15	6	20.53	20.74	20.54							
3	HQAM	8	0	19.94	19.82	19.81							
3	HQAM	8	4	19.49	19.86	19.43							
3	HQAM	8	7	19.53	19.84	19.47							
3	HQAM	15	0	17.58	17.76	17.82							
3	H												



Band 12 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
2305										
701.5 707.5 713.5										
Turn-up time (min) MFR (dB)										
2305 2306 2356										
5	QPSK	1	0	22.58	22.78	22.83			24	0
5	QPSK	1	24	22.47	22.67	22.81				
5	QPSK	12	0	21.63	21.86	21.91			23	1
5	QPSK	12	7	21.54	21.79	21.92				
5	QPSK	12	13	21.58	21.86	21.90				
5	QPSK	25	0	21.41	21.61	21.64				
5	QPSK	25	0	21.28	21.57	21.63			23	1
5	QPSK	12	7	21.58	21.86	21.92				
5	QPSK	12	13	21.58	21.86	21.92			22	2
5	QPSK	12	7	20.92	20.97	20.97				
5	QPSK	12	13	20.92	20.97	20.97				
5	QPSK	25	0	20.47	20.61	20.69			21	3
5	QPSK	25	0	20.58	20.70	20.85				
5	QPSK	25	0	19.58	19.68	19.69			22	2
5	QPSK	25	0	19.58	19.68	19.68				
5	QPSK	12	13	19.05	19.25	19.47			21	3
5	QPSK	25	0	19.05	19.25	19.45				
5	QPSK	25	0	17.78	17.81	17.81			19	5
5	QPSK	1	24	17.58	17.85	17.75				
5	QPSK	12	7	17.54	17.61	17.61			19	5
5	QPSK	12	13	17.63	17.69	17.69				
5	QPSK	25	0	17.54	17.54	17.68			19	5
Channel										
2305 2306 2356										
701.5 707.5 713.5										
Turn-up time (min) MFR (dB)										
2305 2306 2356										
3	QPSK	1	0	22.61	22.79	22.83			24	0
3	QPSK	1	8	22.48	22.52	22.48				
3	QPSK	1	14	22.53	22.58	22.55				
3	QPSK	1	24	21.67	21.83	21.83			23	1
3	QPSK	8	4	21.57	21.62	21.44				
3	QPSK	8	7	21.60	21.53	21.53				
3	QPSK	18	0	21.68	21.61	21.40			23	1
3	QPSK	1	0	21.57	21.63	21.55				
3	QPSK	1	8	21.50	21.68	21.63			23	1
3	QPSK	1	24	21.66	21.68	21.63				
3	QPSK	1	0	20.98	20.73	20.66				
3	QPSK	8	4	20.60	20.62	20.67			22	2
3	QPSK	8	7	20.60	20.68	20.66				
3	QPSK	15	0	20.54	20.68	20.58				
3	QPSK	1	0	20.69	20.68	20.62			22	2
3	QPSK	1	8	20.76	20.60	20.78				
3	QPSK	1	14	20.80	20.74	20.64				
3	QPSK	8	0	19.54	19.74	19.63				
3	QPSK	8	4	19.46	19.26	19.46			21	3
3	QPSK	8	7	19.50	19.51	19.45				
3	QPSK	15	0	19.36	19.35	19.45				
3	QPSK	1	0	17.71	17.62	17.63			19	5
3	QPSK	1	8	17.76	17.81	17.77				
3	QPSK	8	4	17.36	17.58	17.59			19	5
3	QPSK	8	7	17.57	17.66	17.73				
3	QPSK	15	0	17.54	17.54	17.68				
Channel										
2305 2306 2356										
701.5 707.5 713.5										
Turn-up time (min) MFR (dB)										
2305 2306 2356										
1.4	QPSK	1	0	22.61	22.79	22.83			24	0
1.4	QPSK	1	5	22.47	22.59	22.44				
1.4	QPSK	3	0	22.57	22.71	22.58				
1.4	QPSK	3	1	22.51	22.68	22.59				
1.4	QPSK	3	3	22.52	22.84	22.46			23	1
1.4	QPSK	8	0	21.66	21.61	21.40				
1.4	QPSK	1	0	21.58	21.58	21.47			23	1
1.4	QPSK	1	3	21.61	21.53	21.52				
1.4	QPSK	1	5	21.48	21.56	21.50				
1.4	QPSK	3	0	21.63	21.68	21.61			23	1
1.4	QPSK	3	1	21.48	21.66	21.53				
1.4	QPSK	3	3	21.66	21.63	21.48				
1.4	QPSK	8	0	20.81	20.76	20.71			22	2
1.4	QPSK	1	0	20.62	20.59	20.59				
1.4	QPSK	1	3	20.51	20.57	20.61				
1.4	QPSK	1	5	20.82	20.71	20.52			22	2
1.4	QPSK	3	0	20.61	20.64	20.48				
1.4	QPSK	3	3	20.68	20.50	20.75				
1.4	QPSK	3	3	20.82	20.74	20.54			21	3
1.4	QPSK	8	0	19.41	19.37	19.46				
1.4	QPSK	8	0	17.68	17.68	17.50			19	5
1.4	QPSK	1	3	17.79	17.79	17.79				
1.4	QPSK	1	3	17.94	17.92	17.74			19	5
1.4	QPSK	3	0	17.51	17.67	17.51				
1.4	QPSK	3	1	17.41	17.49	17.43				
1.4	QPSK	3	3	17.59	17.69	17.60			19	5
1.4	QPSK	8	0	17.60	17.54	17.57				

Band 13 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
2325										
770.5 776.5 784.5										
Turn-up time (min) MFR (dB)										
2325 2326 2326										
5	QPSK	1	0	22.80	22.93	22.83			24	0
5	QPSK	1	24	22.77	22.73	22.81				
5	QPSK	12	0	21.81	21.74	21.70			23	1
5	QPSK	12	7	21.79	21.81	21.83				
5	QPSK	12	13	21.77	21.77	21.71				
5	QPSK	25	0	21.68	21.70	21.73				
5	QPSK	1	0	21.74	21.75	21.72			23	1
5	QPSK	1	12	21.74	21.79	21.78				
5	QPSK	12	7	20.89	20.89	20.85			22	2
5	QPSK	12	13	20.88	20.89	20.84				
5	QPSK	12	7	20.89	20.73	20.85				
5	QPSK	12	13	20.89	20.79	20.78				
5	QPSK	1	0	20.77	20.74	20.78			22	2
5	QPSK	1	24	21.68	21.78	21.78				
5	QPSK	1	24	20.75	20.77	20.80			22	2
5	QPSK	12	0	19.79	19.78	19.79				
5	QPSK	12	13	19.05	19.03	19.03			21	3
5	QPSK	12	13	19.05	19.02	19.04				
5	QPSK	25	0	19.71	19.83	19.87				
5	QPSK	1	0	17.84	17.85	17.86			19	5
5	QPSK	1	12	17.62	17.62	17.63				
5	QPSK	12	7	17.60	17.62	17.58			19	5
5	QPSK	12	13	17.62	17.77	17.85				
5	QPSK	25	0	17.76	17.76	17.77				

Band 17 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
2375										
708.5 710 713.5										
Turn-up time (min) MFR (dB)										
2375 2376 2376										
5	QPSK	1	0	22.58	22.76	22.87			24	0
5	QPSK	1	24	22.58	22.72	22.86				
5	QPSK	12	0	21.51	21.67	21.81			23	1
5	QPSK	12	7	21.51	21.62	21.41				
5	QPSK	12	13	21.48	21.59	21.49				
5	QPSK	25	0	21.46	21.64	21.49				
5	QPSK	1	0	21.47	21.63	21.48			23	1
5	QPSK	1	12	21.47	21.60	21.48				
5	QPSK	12	7	20.43	20.52	20.58			22	2
5	QPSK	12	13	20.43	20.54	20.69				
5	QPSK	12	7	20.52	20.51	20.55				
5	QPSK	1	0	20.59	20.52	20.68			22	2
5	QPSK	1	24	21.61	21.69	21.69				
5	QPSK	1	24	20.75	20.73	20.82				
5	QPSK	12	0	19.59	19.58	19.51			21	3
5	QPSK	12	7	19.41	19.40	19.38				
5	QPSK	12	13	19.35	19.44	19.32				
5	QPSK	25	0	19.46	19.58	19.52				
5	QPSK	1	0	17.68	17.88	17.72			19	5
5	QPSK	1	12	17.57	17.76	17.69				
5	QPSK	1	24	17.77	17.92	17.77				
5	QPSK	12	0	17.61	17.60	17.47				
5	QPSK	12	7	17.39	17.50	17.45			19	5
5	QPSK	12	13	17.66	17.61	17.49				
5	QPSK	25	0	17.45	17.54	17.57				

Band 25 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
2505										
1800 1800 1805										
Turn-up time (min) MFR (dB)										
2505 2506 2506										
20	QPSK	1	0	22.66	22.77	22.76			24	0
20	QPSK	1	68	22.67	22.74	22.74				
20	QPSK	50	0	21.56	21.76	21.86			23	1
20	QPSK	50	24	21.62	21.71	21.83				
20	QPSK	50	50	21.60	21.62	21.48				
20	QPSK	100	0	21.59	21.72	21.55			23	1
20	QPSK	100	0	21.74	20.76	20.76				
20	QPSK	1	48	21.47	21.69	21.55				
20	QPSK	1	96	21.81	21.68	21.54			22	2
20	QPSK	50	24	20.96	20.87	20.83				
20	QPSK	50	50	20.87	20.75	20.83				
20	QPSK	100	0	20.87	20.97	20.92			22	2
20	QPSK	1	48	19.92	19.76	19.68				
20	QPSK	1	96	20.80	20.90	20.91			22	2
20	QPSK	50	24	19.98	19.91	19.84				
20	QPSK	50	50	19.96	19.88	19.48				



Band 26 Ant 0											
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / F.Freq.	Power High Ch / F.Freq.	Power Mid Ch / F.Freq.	Turn-up Int. (dB)	MPE (dB)			
Channel											
811.5 811.5 811.5											
15	QPSK	1	0	22.66	22.87	22.81					
15	QPSK	1	37	22.68	22.75	22.84		24	0		
15	QPSK	1	74	22.86	22.73	22.62					
15	QPSK	36	0	21.65	21.84	21.72					
15	QPSK	36	20	21.69	21.70	21.63					
15	QPSK	36	39	21.85	21.69	21.59					
15	QPSK	75	0	21.67	21.80	21.65					
15	HQAM	1	0	21.67	21.84	21.69					
15	HQAM	1	37	21.85	21.60	21.69		23	1		
15	HQAM	1	74	21.68	21.73	21.58					
15	HQAM	36	0	20.81	20.81	20.79					
15	HQAM	36	20	20.80	20.65	20.74					
15	HQAM	36	39	20.72	20.87	20.85					
15	HQAM	75	0	20.84	20.75	20.97					
15	HQAM	1	0	20.66	20.83	20.68					
15	HQAM	1	37	20.83	20.99	20.90					
15	HQAM	1	74	20.77	20.77	20.81					
15	HQAM	36	0	19.87	19.87	19.71					
15	HQAM	36	20	19.94	19.91	19.95					
15	HQAM	36	39	19.97	19.83	19.84					
15	HQAM	75	0	19.49	19.74	19.59					
15	HQAM	1	0	17.77	17.68	17.77					
15	HQAM	1	37	17.78	17.75	17.66					
15	SSQAM	1	74	17.93	18.04	17.87					
15	SSQAM	1	24	18.06	17.70	17.67					
15	SSQAM	36	20	17.63	17.77	17.56					
15	SSQAM	36	39	17.67	17.79	17.64					
15	SSQAM	75	0	17.85	17.74	17.60					
Channel											
819 831.5 844											
10	QPSK	1	0	22.62	22.82	22.77					
10	QPSK	1	24	22.66	22.71	22.81		24	0		
10	QPSK	1	49	22.67	22.62	22.87					
10	QPSK	36	0	21.63	21.73	21.68					
10	QPSK	25	12	21.61	21.62	21.61					
10	QPSK	26	26	21.55	21.62	21.52					
10	HQAM	1	0	21.48	21.67	21.41					
10	HQAM	1	0	21.57	21.53	21.48					
10	HQAM	1	25	21.48	21.48	21.51					
10	HQAM	1	26	21.57	21.69	21.62					
10	HQAM	25	0	20.71	20.70	20.71					
10	HQAM	25	12	20.48	20.53	20.60					
10	HQAM	25	26	20.71	20.84	20.82					
10	HQAM	50	0	20.59	20.82	20.81					
10	HQAM	1	0	20.52	20.75	20.57					
10	HQAM	1	25	20.78	20.94	20.92					
10	HQAM	1	49	20.70	20.72	20.57					
10	HQAM	25	0	19.57	19.80	19.66					
10	HQAM	25	12	19.46	19.38	19.41					
10	HQAM	25	26	19.47	19.25	19.40					
10	HQAM	50	0	19.36	19.88	19.45					
10	HQAM	1	0	17.73	17.73	17.72					
10	HQAM	1	25	17.75	17.69	17.75					
10	SSQAM	1	49	17.84	18.00	17.81					
10	SSQAM	25	0	17.63	17.68	17.68					
10	SSQAM	25	12	17.55	17.70	17.51					
10	SSQAM	25	26	17.59	17.75	17.59					
10	SSQAM	50	0	17.48	17.68	17.48					
Channel											
817.5 831.5 846.5											
5	QPSK	1	0	22.67	22.76	22.73					
5	QPSK	1	12	22.54	22.85	22.71					
5	QPSK	1	24	22.60	22.84	22.58					
5	QPSK	12	0	21.63	21.76	21.69					
5	QPSK	12	7	21.63	21.81	21.40					
5	QPSK	12	13	21.60	21.81	21.53					
5	HQAM	1	0	21.59	21.62	21.50					
5	HQAM	1	12	21.48	21.48	21.46					
5	HQAM	1	24	21.56	21.58	21.48					
5	HQAM	12	0	20.78	20.73	20.72					
5	HQAM	12	7	20.45	20.55	20.65					
5	HQAM	12	13	20.46	20.38	20.50					
5	HQAM	25	0	20.52	20.81	20.55					
5	HQAM	1	0	20.52	20.72	20.59					
5	HQAM	1	12	20.78	20.92	20.83					
5	HQAM	1	24	20.68	20.70	20.77					
5	HQAM	12	0	19.54	19.81	19.56					
5	HQAM	12	7	19.48	19.43	19.44					
5	HQAM	12	13	19.44	19.48	19.45					
5	HQAM	25	0	19.41	19.82	19.47					
5	SSQAM	1	0	17.68	17.62	17.63					
5	SSQAM	1	12	17.69	17.71	17.73					
5	SSQAM	1	24	17.86	17.86	17.77					
5	SSQAM	12	0	17.58	17.69	17.61					
5	SSQAM	12	7	17.83	17.62	17.48					
5	SSQAM	12	13	17.53	17.70	17.56					
5	SSQAM	25	0	17.41	17.66	17.53					
Channel											
807.5 839.5 870.5											
3	QPSK	1	0	22.63	22.74	22.73					
3	QPSK	1	8	22.65	22.81	22.76					
3	QPSK	1	14	22.55	22.88	22.48					
3	QPSK	8	0	21.61	21.74	21.66					
3	QPSK	8	4	21.60	21.56	21.37					
3	QPSK	8	7	21.59	21.87	21.44					
3	HQAM	1	0	21.52	21.68	21.45					
3	HQAM	1	0	21.60	21.51	21.49					
3	HQAM	1	8	21.48	21.45	21.50					
3	HQAM	1	14	21.62	21.70	21.68					
3	HQAM	8	0	20.74	20.71	20.65					
3	HQAM	8	4	20.53	20.69	20.60					
3	HQAM	8	7	20.83	20.92	20.87					
3	HQAM	15	0	20.80	20.83	20.63					
3	HQAM	1	0	20.54	20.73	20.55					
3	HQAM	1	8	20.78	20.94	20.95					
3	HQAM	1	14	20.71	20.73	20.73					
3	HQAM	8	0	19.83	19.89	19.85					
3	HQAM	8	4	19.43	19.42	19.44					
3	HQAM	8	7	19.46	19.58	19.48					
3	HQAM	15	0	19.26	19.82	19.45					
3	SSQAM	1	0	17.64	17.83	17.68					
3	SSQAM	1	8	17.65	17.80	17.62					
3	SSQAM	1	14	17.86	17.92	17.75					
3	SSQAM	8	0	17.61	17.64	17.67					
3	SSQAM	8	4	17.69	17.72	17.43					
3	SSQAM	15	0	17.63	17.64	17.62					
Channel											
806.7 838.5 870.5											
1.4	QPSK	1	0	22.64	22.75	22.65					
1.4	QPSK	1	3	22.68	22.83	22.73					
1.4	QPSK	1	5	22.65	22.80	22.58					
1.4	QPSK	3	0	22.62	22.76	22.63					
1.4	QPSK	3	1	22.83	22.80	22.72					
1.4	QPSK	3	3	22.53	22.85	22.49					
1.4	QPSK	3	3	21.90	21.90	21.81					
1.4	HQAM	1	0	21.63	21.66	21.35					
1.4	HQAM	1	3	21.58	21.84	21.49					
1.4	HQAM	1	25	21.58	21.66	21.69					
1.4	HQAM	3	0	21.57	21.56	21.48					
1.4	HQAM	3	1	21.45	21.52	21.85					
1.4	HQAM	3	1	21.58	21.64	21.44					
1.4	HQAM	6	0	20.74	20.72	20.66					
1.4	HQAM	1	0	20.49	20.67	20.66					
1.4	HQAM	1	3	20.68	20.89	20.66					
1.4	HQAM	1	5	20.59	20.66	20.52					
1.4	HQAM	3	0	20.53	20.79	20.58					
1.4	HQAM	3	1	20.70	20.86	20.81					
1.4	HQAM	3	3	20.71	20.74	20.75					
1.4	HQAM	8	0	19.85	19.81	19.85					
1.4	SSQAM	1	0	17.72	17.86	17.65					
1.4	SSQAM	1	3	17.65	17.83	17.79					
1.4	SSQAM	3	0	17.79	17.70	17.69					
1.4	SSQAM	3	1	17.60	17.82	17.47					
1.4	SSQAM	3	1	17.59	17.74	17.51					
1.4	SSQAM	3	3	17.62	17.87	17.69					
1.4	SSQAM	6	0	17.38	17.83	17.51					

Band 66 Ant 0											
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / F.Freq.	Power High Ch / F.Freq.	Power Mid Ch / F.Freq.	Turn-up Int. (dB)	MPE (dB)			
Channel											
1720 1745 1778											
20	QPSK	1	0	22.62	22.84	22.86					
20	QPSK	1	49	22.64	22.70	22.84					
20	QPSK	1	99	22.66	22.79	22.87		24	0		
20	QPSK	50	0	21.67	21.86	21.77					
20	QPSK	50	24	21.63	21.82						

**Band 38 Ant 0**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.21	23.29	23.27		
20	QPSK	1	49	23.11	23.20	23.24	24	0
20	QPSK	1	99	23.13	23.25	23.18		
20	QPSK	50	0	22.21	22.26	22.13		
20	QPSK	50	24	22.13	22.21	22.18		
20	QPSK	50	50	22.14	22.13	21.98	23	1
20	QPSK	100	0	22.04	22.23	22.04		
20	16QAM	1	0	22.06	22.19	21.98		
20	16QAM	1	49	21.93	22.14	22.07	23	1
20	16QAM	1	99	22.11	22.12	22.05		
20	16QAM	50	0	21.23	21.22	21.25		
20	16QAM	50	24	21.06	21.15	21.08		
20	16QAM	50	50	21.14	21.28	21.16	22	2
20	16QAM	100	0	21.12	21.18	21.08		
20	64QAM	1	0	21.28	21.31	21.19		
20	64QAM	1	49	21.32	21.47	21.37	22	2
20	64QAM	1	99	21.16	21.18	21.23		
20	64QAM	50	0	20.11	20.19	20.19		
20	64QAM	50	24	19.94	20.01	19.99		
20	64QAM	50	50	20.02	20.07	19.99	21	3
20	64QAM	100	0	20.00	20.18	20.08		
20	256QAM	1	0	18.19	18.29	18.21		
20	256QAM	1	49	18.18	18.24	18.25	19	5
20	256QAM	1	99	18.37	18.47	18.29		
20	256QAM	50	0	18.13	18.17	17.98		
20	256QAM	50	24	18.00	18.22	18.00		
20	256QAM	50	50	18.12	18.28	18.16	19	5
20	256QAM	100	0	17.95	18.21	18.08		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	23.10	23.22	23.17		
15	QPSK	1	37	23.05	23.14	23.14	24	0
15	QPSK	1	74	23.08	23.10	23.07		
15	QPSK	36	0	22.15	22.10	22.01		
15	QPSK	36	20	21.99	22.08	22.12	23	1
15	QPSK	36	39	22.05	21.99	21.91		
15	QPSK	75	0	21.93	22.13	21.93		
15	16QAM	1	0	22.00	22.11	21.88		
15	16QAM	1	37	21.85	22.02	22.00	23	1
15	16QAM	1	74	22.04	21.98	21.98		
15	16QAM	36	0	21.09	21.10	21.12		
15	16QAM	36	20	20.93	21.06	21.01	22	2
15	16QAM	36	39	21.08	21.22	21.06		
15	16QAM	75	0	21.03	21.06	20.94		
15	64QAM	1	0	21.19	21.18	21.13		
15	64QAM	1	37	21.22	21.32	21.24	22	2
15	64QAM	1	74	21.11	21.14	21.19		
15	64QAM	36	0	20.08	20.07	20.12		
15	64QAM	36	20	19.82	19.95	19.84	21	3
15	64QAM	36	39	19.92	20.02	19.86		
15	64QAM	75	0	19.88	20.09	19.95		
15	256QAM	1	0	18.07	18.20	18.12		
15	256QAM	1	37	18.09	18.10	18.17	19	5
15	256QAM	1	74	18.31	18.33	18.26		
15	256QAM	36	0	18.02	18.02	17.84		
15	256QAM	36	20	17.90	18.18	17.86	19	5
15	256QAM	36	39	18.03	18.21	18.10		
15	256QAM	75	0	17.82	18.09	18.00		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	23.16	23.26	23.23		
10	QPSK	1	25	23.04	23.16	23.10	24	0
10	QPSK	1	49	23.06	23.12	23.14		
10	QPSK	25	0	22.16	22.18	21.98		
10	QPSK	25	12	22.07	22.14	22.06	23	1
10	QPSK	25	25	22.00	22.05	21.95		
10	QPSK	50	0	21.93	22.11	21.99		
10	16QAM	1	0	21.98	22.10	21.90		
10	16QAM	1	25	21.83	22.07	22.02	23	1
10	16QAM	1	49	22.05	21.98	22.02		
10	16QAM	25	0	21.12	21.18	21.15		
10	16QAM	25	12	21.02	21.11	20.96	22	2
10	16QAM	25	25	21.05	21.16	21.02		
10	16QAM	50	0	20.98	21.13	20.93		
10	64QAM	1	0	21.16	21.17	21.10		
10	64QAM	1	25	21.29	21.41	21.29	22	2
10	64QAM	1	49	21.08	21.14	21.16		
10	64QAM	25	0	20.02	20.08	20.08		
10	64QAM	25	12	19.82	19.90	19.94	21	3
10	64QAM	25	25	19.92	19.94	19.95		
10	64QAM	50	0	19.95	20.10	20.05		
10	256QAM	1	0	18.08	18.21	18.08		
10	256QAM	1	25	18.03	18.14	18.18	19	5
10	256QAM	1	49	18.25	18.40	18.22		
10	256QAM	25	0	18.05	18.09	17.87		
10	256QAM	25	12	17.86	18.14	17.85	19	5
10	256QAM	25	25	18.05	18.23	18.02		
10	256QAM	50	0	17.90	18.13	17.98		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.09	23.28	23.17		
5	QPSK	1	12	23.00	23.17	23.15	24	0
5	QPSK	1	24	23.00	23.11	23.08		
5	QPSK	12	0	22.12	22.14	22.05		
5	QPSK	12	7	22.10	22.08	22.11	23	1
5	QPSK	12	13	22.03	22.07	21.88		
5	QPSK	25	0	21.91	22.17	21.95		
5	16QAM	1	0	21.93	22.09	21.91		
5	16QAM	1	12	21.80	22.08	22.03	23	1
5	16QAM	1	24	22.05	22.06	21.91		
5	16QAM	12	0	21.16	21.14	21.16		
5	16QAM	12	7	20.94	21.07	20.97	22	2
5	16QAM	12	13	21.04	21.14	21.07		
5	16QAM	25	0	20.99	21.04	20.94		
5	64QAM	1	0	21.24	21.25	21.07		
5	64QAM	1	12	21.25	21.43	21.25	22	2
5	64QAM	1	24	21.06	21.03	21.14		
5	64QAM	12	0	20.05	20.05	20.07		
5	64QAM	12	7	19.86	19.86	19.86	21	3
5	64QAM	12	13	19.90	20.00	19.92		
5	64QAM	25	0	19.96	20.04	19.99		
5	256QAM	1	0	18.12	18.16	18.13		
5	256QAM	1	12	18.12	18.12	18.13	19	5
5	256QAM	1	24	18.31	18.40	18.19		
5	256QAM	12	0	17.99	18.11	17.85		
5	256QAM	12	7	17.88	18.19	17.92	19	5
5	256QAM	12	13	17.99	18.14	18.12		
5	256QAM	25	0	17.81	18.16	17.94		

**Band 38 HPUE Ant 0**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	25.14	25.25	25.15		
20	QPSK	1	49	25.12	25.15	25.15	27	0
20	QPSK	1	99	25.11	25.12	25.12		
20	QPSK	50	0	24.07	24.15	24.07		
20	QPSK	50	24	24.05	24.12	24.05	26	1
20	QPSK	50	50	24.01	24.03	24.03		
20	QPSK	100	0	24.02	24.10	24.02		
20	16QAM	1	0	24.02	24.06	24.01		
20	16QAM	1	49	24.01	24.02	24.01	26	1
20	16QAM	1	99	24.01	24.05	24.03		
20	16QAM	50	0	23.08	23.10	23.21		
20	16QAM	50	24	23.02	23.08	23.01	25	2
20	16QAM	50	50	23.09	23.21	23.09		
20	16QAM	100	0	23.05	23.08	23.03		
20	64QAM	1	0	23.20	23.18	23.07		
20	64QAM	1	49	23.28	23.36	23.32	25	2
20	64QAM	1	99	23.02	23.05	23.08		
20	64QAM	50	0	22.09	22.16	22.12		
20	64QAM	50	24	22.12	22.15	22.11	24	3
20	64QAM	50	50	22.10	22.14	22.13		
20	64QAM	100	0	22.05	22.10	22.06		
20	256QAM	1	0	20.12	20.15	20.13		
20	256QAM	1	49	20.06	20.16	20.18	22	5
20	256QAM	1	99	20.29	20.43	20.22		
20	256QAM	50	0	20.02	20.05	20.01		
20	256QAM	50	24	20.03	20.10	20.05	22	5
20	256QAM	50	50	20.07	20.15	20.01		
20	256QAM	100	0	20.11	20.14	20.12		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	25.03	25.21	25.05		
15	QPSK	1	37	25.13	25.24	25.17	27	0
15	QPSK	1	74	25.05	25.21	25.06		
15	QPSK	36	0	24.22	24.24	24.19		
15	QPSK	36	20	24.16	24.32	24.19	26	1
15	QPSK	36	39	24.12	24.14	24.11		
15	QPSK	75	0	24.04	24.22	24.14		
15	16QAM	1	0	24.17	24.17	24.12		
15	16QAM	1	37	24.10	24.12	24.11	26	1
15	16QAM	1	74	24.11	24.22	24.13		
15	16QAM	36	0	23.20	23.18	23.31		
15	16QAM	36	20	23.02	23.26	23.06	25	2
15	16QAM	36	39	23.09	23.30	23.20		
15	16QAM	75	0	23.11	23.20	23.18		
15								



Band 41 Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.19	23.30	23.35	23.34	23.23	24	0		
20	QPSK	1	49	23.18	23.23	23.28	23.30	23.10				
20	QPSK	1	99	23.16	23.24	23.32	23.23	23.16				
20	QPSK	50	0	22.24	22.28	22.38	22.19	22.18				
20	QPSK	50	24	22.19	22.24	22.35	22.32	22.14				
20	QPSK	50	50	22.17	22.23	22.24	22.08	22.20	23	1		
20	QPSK	100	0	22.01	22.10	22.38	22.19	22.05				
20	16QAM	1	0	22.02	22.13	22.25	22.11	22.07				
20	16QAM	1	49	21.93	22.03	22.21	22.15	21.90				
20	16QAM	1	99	22.21	22.25	22.21	22.20	22.18				
20	16QAM	50	0	21.21	21.31	21.27	21.42	21.20	22	2		
20	16QAM	50	24	21.16	21.24	21.28	21.21	21.18				
20	16QAM	50	50	21.19	21.30	21.35	21.29	21.20				
20	16QAM	100	0	21.17	21.27	21.25	21.21	21.18				
20	64QAM	1	0	21.29	21.36	21.39	21.25	21.33				
20	64QAM	1	49	21.32	21.40	21.35	21.30	21.37	22	2		
20	64QAM	1	99	21.15	21.25	21.30	21.28	21.21				
20	64QAM	50	0	20.18	20.27	20.23	20.28	20.21				
20	64QAM	50	24	19.97	20.08	20.17	20.08	19.98				
20	64QAM	50	50	20.03	20.09	20.13	20.07	19.99				
20	64QAM	100	0	20.07	20.15	20.28	20.20	20.09	21	3		
20	256QAM	1	0	18.17	18.30	18.41	18.31	18.18				
20	256QAM	1	49	18.25	18.32	18.34	18.41	18.28				
20	256QAM	1	99	18.36	18.43	18.32	18.41	18.37				
20	256QAM	50	0	18.23	18.29	18.25	18.13	18.17				
20	256QAM	50	24	18.09	18.10	18.37	18.18	18.15	19	5		
20	256QAM	50	50	18.11	18.19	18.22	18.23	18.12				
20	256QAM	100	0	18.20	18.16	18.29	18.20	17.99				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	23.06	23.25	23.28	23.20	23.14	24	0		
15	QPSK	1	37	23.11	23.14	23.15	23.27	23.06				
15	QPSK	1	74	23.06	23.09	23.27	23.16	23.10				
15	QPSK	36	0	22.15	22.23	22.34	22.05	22.13				
15	QPSK	36	20	22.11	22.12	22.25	22.22	22.02				
15	QPSK	36	39	22.07	22.14	22.20	22.02	22.14	23	1		
15	QPSK	75	0	21.89	22.05	22.24	22.13	21.95				
15	16QAM	1	0	21.92	22.06	22.11	21.98	21.97				
15	16QAM	1	37	21.82	21.99	22.14	22.06	21.77				
15	16QAM	1	74	22.13	22.18	22.09	22.15	22.09				
15	16QAM	36	0	21.09	21.26	21.14	21.33	21.13	22	2		
15	16QAM	36	20	21.04	21.16	21.23	21.15	21.06				
15	16QAM	36	39	21.12	21.19	21.22	21.16	21.15				
15	16QAM	75	0	21.03	21.18	21.17	21.14	21.07				
15	64QAM	1	0	21.16	21.26	21.29	21.20	21.24				
15	64QAM	1	37	21.24	21.26	21.25	21.19	21.22	22	2		
15	64QAM	1	74	21.04	21.21	21.21	21.21	21.11				
15	64QAM	36	0	20.05	20.24	20.16	20.16	20.10				
15	64QAM	36	20	19.84	19.99	20.09	20.01	19.90				
15	64QAM	36	39	19.96	19.98	20.02	19.92	19.85				
15	64QAM	75	0	19.95	20.01	20.21	20.16	20.05	21	3		
15	256QAM	1	0	18.05	18.15	18.35	18.20	18.10				
15	256QAM	1	37	18.21	18.21	18.20	18.31	18.13				
15	256QAM	1	74	18.30	18.37	18.21	18.30	18.27				
15	256QAM	36	0	18.15	18.18	18.14	18.01	18.13				
15	256QAM	36	20	17.95	17.98	18.27	18.04	18.04	19	5		
15	256QAM	36	39	18.06	18.12	18.17	18.14	18.07				
15	256QAM	75	0	18.06	18.05	18.18	18.14	17.89				
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	23.12	23.23	23.23	23.19	23.20	24.00	0		
10	QPSK	1	25	23.12	23.10	23.15	23.23	23.00				
10	QPSK	1	49	23.12	23.21	23.17	23.19	23.09				
10	QPSK	25	0	22.15	22.24	22.30	22.05	22.09				
10	QPSK	25	12	22.05	22.18	22.29	22.21	22.10				
10	QPSK	25	25	22.04	22.18	22.11	21.96	22.16	23	1		
10	QPSK	50	0	21.94	21.96	22.28	22.07	21.98				
10	16QAM	1	0	21.89	22.09	22.22	22.01	21.93				
10	16QAM	1	25	21.81	21.88	22.10	22.09	21.87				
10	16QAM	1	49	22.08	22.12	22.14	22.06	22.07				
10	16QAM	25	0	21.07	21.21	21.18	21.39	21.12	22	2		
10	16QAM	25	12	21.02	21.12	21.25	21.07	21.08				
10	16QAM	25	25	21.13	21.24	21.30	21.16	21.13				
10	16QAM	50	0	21.02	21.22	21.21	21.07	21.12				
10	64QAM	1	0	21.19	21.32	21.27	21.19	21.24				
10	64QAM	1	25	21.21	21.26	21.26	21.17	21.28	22	2		
10	64QAM	1	49	21.03	21.13	21.18	21.18	21.09				
10	64QAM	25	0	20.10	20.21	20.17	20.11	20.17				
10	64QAM	25	12	19.91	20.02	20.13	20.01	19.90				
10	64QAM	25	25	19.99	20.02	20.01	19.97	19.94				
10	64QAM	50	0	20.00	20.10	20.22	20.06	20.04	21	3		
10	256QAM	1	0	18.14	18.18	18.28	18.24	18.04				
10	256QAM	1	25	18.11	18.24	18.23	18.33	18.23				
10	256QAM	1	49	18.27	18.37	18.27	18.34	18.30				
10	256QAM	25	0	18.08	18.21	18.13	18.05	18.11				
10	256QAM	25	12	17.98	18.02	18.32	18.15	18.08	19	5		
10	256QAM	25	25	17.96	18.15	18.12	18.13	18.05				
10	256QAM	50	0	18.16	18.02	18.23	18.10	17.96				
Channel				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	23.08	23.23	23.31	23.24	23.10	24.00	0		
5	QPSK	1	12	23.08	23.20	23.24	23.24	23.07				
5	QPSK	1	24	23.09	23.18	23.21	23.14	23.02				
5	QPSK	12	0	22.19	22.18	22.28	22.11	22.07				
5	QPSK	12	7	22.14	22.10	22.29	22.25	22.11				
5	QPSK	12	13	22.06	22.15	22.18	21.93	22.12	23	1		
5	QPSK	25	0	21.95	22.05	22.25	22.08	22.00				
5	16QAM	1	0	21.90	22.01	22.18	22.02	21.92				
5	16QAM	1	12	21.86	21.94	22.17	22.06	21.75				
5	16QAM	1	24	22.06	22.18	22.07	22.16	22.10				
5	16QAM	12	0	21.13	21.20	21.13	21.29	21.14	22	2		
5	16QAM	12	7	21.09	21.17	21.19	21.11	21.04				
5	16QAM	12	13	21.05	21.18	21.28	21.20	21.10				
5	64QAM	1	0	21.24	21.23	21.32	21.11	21.21				
5	64QAM	1	12	21.20	21.26	21.21	21.20	21.23				
5	64QAM	1	24	21.07	21.19	21.18	21.18	21.17	22	2		
5	64QAM	12	0	20.11	20.14	20.19	20.12	20.13				
5	64QAM	12	7	19.91	19.93	20.14	20.01	19.85				
5	64QAM	12	13	19.99	20.04	20.04	19.98	19.89				
5	64QAM	25	0	20.02	20.02	20.20	20.12	20.02				
5	256QAM	1	0	18.09	18.25	18.30	18.23	18.05	19	5		
5	256QAM	1	12	18.14	18.20	18.25	18.29	18.18				
5	256QAM	1	24	18.31	18.38	18.23	18.27	18.24				
5	256QAM	12	0	18.08	18.25	18.13	18.09	18.06				
5	256QAM	12	7	18.01	18.00	18.33	18.04	18.12				
5	256QAM	12	13	18.08	18.09	18.13	18.18	18.06	19	5		
5	256QAM	25	0	18.15	18.10	18.22	18.13	17.86				

Band 41 HPUE Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.42	25.54	25.59	25.57	25.48		



GSM850 Ant1	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)	29.66	29.71	29.61	30.60	20.66	20.71	20.61	21.60
GSM 1 Tx slot	29.61	29.65	29.59	30.60	20.61	20.65	20.59	21.60
GPRS 2 Tx slots	26.63	26.68	26.55	27.60	20.63	20.68	20.55	21.60
GPRS 3 Tx slots	24.76	24.83	24.78	25.80	20.60	20.57	20.52	21.54
GPRS 4 Tx slots	23.57	23.62	23.47	24.60	20.57	20.62	20.47	21.60
EDGE 1 Tx slot	25.82	25.93	25.86	27.00	16.82	16.93	16.86	18.00
EDGE 2 Tx slots	25.06	25.13	24.99	26.00	19.06	19.13	18.99	20.00
EDGE 3 Tx slots	23.34	23.41	23.27	24.50	19.08	19.15	19.01	20.24
EDGE 4 Tx slots	21.68	21.81	21.70	23.00	18.68	18.81	18.70	20.00

GSM1900 Ant1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Tx Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	24.56	24.67	24.61	25.60	15.56	15.67	15.61	16.60
GSM 1 Tx slot	24.50	24.63	24.57	25.60	15.50	15.63	15.57	16.60
GPRS 2 Tx slots	21.06	21.17	21.14	22.60	15.06	15.17	15.14	16.60
GPRS 3 Tx slots	19.62	19.74	19.68	20.80	15.36	15.48	15.42	16.54
GPRS 4 Tx slots	18.22	18.27	18.23	19.60	15.22	15.27	15.23	16.60
EDGE 1 Tx slot	24.02	24.05	23.98	25.00	15.02	15.05	14.98	16.00
EDGE 2 Tx slots	20.96	21.06	20.94	22.60	14.96	15.06	14.94	16.60
EDGE 3 Tx slots	19.28	19.34	19.30	20.80	15.02	15.08	15.04	16.54
EDGE 4 Tx slots	17.99	18.11	18.03	19.60	14.99	15.11	15.03	16.60

Band	WCDMA II Ant1			Tune-up Limit (dBm)	WCDMA IV Ant1			Tune-up Limit (dBm)	WCDMA V Ant1			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Tx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	16.24	16.51	16.30	17.80	15.57	15.71	15.62	16.80	20.88	20.97	20.76	21.90
3GPP Rel 99	RMC 12.2Kbps	16.36	16.55	16.31	17.80	15.66	15.74	15.67	16.80	20.90	20.98	20.95	21.90
3GPP Rel 6	HSDPA Subtest-1	15.39	15.47	15.34	16.80	14.61	14.70	14.65	15.80	19.77	19.91	19.86	20.90
3GPP Rel 6	HSDPA Subtest-2	15.37	15.52	15.15	16.80	14.61	14.81	14.49	15.80	19.73	20.03	19.60	20.90
3GPP Rel 6	HSDPA Subtest-3	14.98	14.85	14.90	16.30	14.19	14.24	14.09	15.30	19.33	19.45	19.35	20.40
3GPP Rel 6	HSDPA Subtest-4	14.75	15.03	14.92	16.30	14.16	14.33	14.25	15.30	19.15	19.37	19.39	20.40
3GPP Rel 8	DC-HSDPA Subtest-1	15.36	15.36	15.39	16.80	14.78	14.67	14.70	15.80	19.86	19.87	19.75	20.90
3GPP Rel 8	DC-HSDPA Subtest-2	15.44	15.49	15.41	16.80	14.67	14.69	14.75	15.80	19.92	19.80	19.81	20.90
3GPP Rel 8	DC-HSDPA Subtest-3	14.69	14.85	14.73	16.30	13.98	14.14	14.12	15.30	19.24	19.37	19.13	20.40
3GPP Rel 8	DC-HSDPA Subtest-4	14.68	14.94	14.81	16.30	14.13	14.26	14.08	15.30	19.06	19.44	19.15	20.40
3GPP Rel 6	HSUPA Subtest-1	15.42	15.50	15.46	16.80	14.73	14.62	14.68	15.80	19.95	19.88	19.78	20.90
3GPP Rel 6	HSUPA Subtest-2	13.41	13.53	13.47	14.80	12.74	12.85	12.68	13.80	17.99	17.91	17.83	18.90
3GPP Rel 6	HSUPA Subtest-3	14.39	14.39	14.26	15.80	13.86	13.74	13.62	14.80	18.92	18.78	18.84	19.90
3GPP Rel 6	HSUPA Subtest-4	13.44	13.55	13.55	14.80	12.73	12.85	12.92	13.80	17.73	17.87	17.96	18.90
3GPP Rel 6	HSUPA Subtest-5	15.32	15.36	15.27	16.80	14.59	14.71	14.64	15.80	19.73	19.82	19.81	20.90



### Band 2 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1/Freq.	Power Ch. 2/Freq.	Power Ch. 3/Freq.	Turn-up time (sec)	MPE (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	QPSK	1	0	15.69	15.97	15.92		
20	QPSK	1	99	15.73	15.85	15.70	17.2	0
20	QPSK	50	0	15.70	15.93	15.84		
20	QPSK	50	24	15.74	15.92	15.80		
20	QPSK	50	50	15.70	15.74	15.71	17.4	0
20	QPSK	100	0	15.70	15.77	15.66		
20	QPSK	100	24	15.69	15.72	15.69		
20	HQAM	1	49	15.95	15.75	15.71	17.2	0
20	HQAM	1	99	15.82	15.82	15.71		
20	HQAM	1	149	15.71	15.71	15.63		
20	HQAM	50	24	15.99	15.82	15.81	17.2	0
20	HQAM	50	50	15.91	15.89	15.73		
20	HQAM	100	0	15.85	15.88	15.63		
20	HQAM	100	24	15.70	15.82	15.77		
20	HQAM	1	49	15.85	15.76	15.61	17.2	0
20	HQAM	1	99	15.83	15.73	15.66		
20	HQAM	50	24	15.86	15.70	15.69	17.2	0
20	HQAM	50	50	15.70	15.84	15.84		
20	HQAM	100	0	15.83	15.71	15.69		
20	HQAM	100	24	15.73	15.72	15.66		
20	SSBQAM	1	49	15.73	15.72	15.58	17.2	0
20	SSBQAM	1	99	15.83	15.68	15.63		
20	SSBQAM	50	24	15.66	15.86	15.68	17.2	0
20	SSBQAM	50	50	15.83	15.79	15.77		
20	SSBQAM	100	0	15.72	15.83	15.77		
Channel								
Frequency (MHz)				1867.5	1860	1915		
15	QPSK	1	0	15.83	15.92	15.84		
15	QPSK	1	37	15.74	15.70	15.67	17.2	0
15	QPSK	1	74	15.69	15.87	15.84		
15	QPSK	96	0	15.75	15.89	15.80		
15	QPSK	25	24	15.70	15.72	15.71	17.2	0
15	QPSK	36	36	15.84	15.66	15.62		
15	QPSK	75	0	15.64	15.69	15.65		
15	HQAM	1	24	15.68	15.64	15.53	17.2	0
15	HQAM	1	37	15.47	15.70	15.68		
15	HQAM	1	74	15.68	15.68	15.68		
15	HQAM	36	20	15.62	15.78	15.52	17.2	0
15	HQAM	36	29	15.65	15.66	15.64		
15	HQAM	75	0	15.39	15.58	15.57		
15	HQAM	1	49	15.87	15.58	15.70	17.2	0
15	HQAM	37	37	15.69	15.69	15.63		
15	HQAM	1	74	15.56	15.85	15.61		
15	HQAM	36	0	15.70	15.75	15.61	17.2	0
15	HQAM	36	39	15.63	15.69	15.64		
15	HQAM	75	0	15.67	15.52	15.47	17.2	0
15	HQAM	1	49	15.55	15.87	15.58		
15	SSBQAM	1	37	15.69	15.67	15.51	17.2	0
15	SSBQAM	1	74	15.59	15.89	15.57		
15	SSBQAM	36	20	15.58	15.86	15.64	17.2	0
15	SSBQAM	36	29	15.62	15.61	15.50		
15	SSBQAM	75	0	15.45	15.72	15.72	17.2	0
15	SSBQAM	75	0	15.86	15.72	15.65		
Channel								
Frequency (MHz)				1865	1860	1910		
10	QPSK	1	0	15.84	15.87	15.69		
10	QPSK	1	25	15.73	15.74	15.65	17.2	0
10	QPSK	1	49	15.88	15.81	15.81		
10	QPSK	25	24	15.69	15.82	15.82		
10	QPSK	35	12	15.86	15.71	15.71	17.2	0
10	QPSK	25	25	15.83	15.71	15.66		
10	QPSK	75	0	15.82	15.69	15.66		
10	HQAM	1	0	15.82	15.87	15.58	17.2	0
10	HQAM	1	25	15.49	15.68	15.67		
10	HQAM	1	49	15.68	15.68	15.68		
10	HQAM	25	0	15.59	15.87	15.55	17.2	0
10	HQAM	25	12	15.55	15.78	15.52		
10	HQAM	35	12	15.55	15.70	15.52	17.2	0
10	HQAM	35	0	15.55	15.68	15.44		
10	HQAM	75	0	15.39	15.58	15.59		
10	HQAM	1	49	15.87	15.59	15.73	17.2	0
10	HQAM	1	74	15.55	15.69	15.59		
10	HQAM	25	0	15.68	15.74	15.61	17.2	0
10	HQAM	25	12	15.63	15.58	15.49		
10	HQAM	50	0	15.58	15.86	15.62		
10	HQAM	1	25	15.88	15.88	15.49	17.2	0
10	SSBQAM	1	49	15.68	15.62	15.54		
10	SSBQAM	1	74	15.57	15.84	15.49		
10	SSBQAM	25	12	15.82	15.87	15.61	17.2	0
10	SSBQAM	25	25	15.48	15.71	15.70		
10	SSBQAM	75	0	15.65	15.75	15.57		
Channel								
Frequency (MHz)				1862.5	1860	1917.5		
5	QPSK	1	0	15.88	15.89	15.85		
5	QPSK	1	12	15.71	15.74	15.65	17.2	0
5	QPSK	1	24	15.65	15.87	15.82		
5	QPSK	12	7	15.86	15.68	15.74		
5	QPSK	12	13	15.62	15.86	15.63		
5	QPSK	12	0	15.83	15.72	15.67		
5	HQAM	1	0	15.85	15.87	15.58	17.2	0
5	HQAM	1	12	15.48	15.87	15.68		
5	HQAM	1	24	15.63	15.68	15.61		
5	HQAM	12	0	15.87	15.68	15.60	17.2	0
5	HQAM	12	7	15.63	15.74	15.54		
5	HQAM	12	13	15.84	15.87	15.60		
5	HQAM	25	0	15.37	15.59	15.59		
5	HQAM	1	0	15.65	15.58	15.71	17.2	0
5	HQAM	1	12	15.59	15.69	15.69		
5	HQAM	1	24	15.84	15.84	15.59		
5	HQAM	12	0	15.68	15.74	15.61	17.2	0
5	HQAM	12	7	15.59	15.62	15.63		
5	HQAM	12	13	15.87	15.80	15.48		
5	HQAM	25	0	15.59	15.88	15.61		
5	SSBQAM	1	49	15.68	15.84	15.61	17.2	0
5	SSBQAM	1	12	15.88	15.88	15.48		
5	SSBQAM	1	24	15.35	15.81	15.44		
5	SSBQAM	12	0	15.67	15.84	15.65	17.2	0
5	SSBQAM	12	7	15.49	15.58	15.63		
5	SSBQAM	12	13	15.46	15.71	15.66		
5	SSBQAM	25	0	15.64	15.73	15.60		
Channel								
Frequency (MHz)				1861.5	1860	1916.5		
3	QPSK	1	0	15.83	15.91	15.85		
3	QPSK	1	8	15.73	15.74	15.68	17.2	0
3	QPSK	1	14	15.69	15.89	15.82		
3	QPSK	8	0	15.74	15.84	15.69		
3	QPSK	8	4	15.88	15.88	15.71	17.2	0
3	QPSK	8	7	15.68	15.70	15.64		
3	QPSK	15	0	15.87	15.73	15.63		
3	HQAM	1	0	15.81	15.89	15.54	17.2	0
3	HQAM	1	8	15.47	15.87	15.62		
3	HQAM	1	14	15.68	15.87	15.65		
3	HQAM	8	0	15.85	15.65	15.58	17.2	0
3	HQAM	8	4	15.85	15.78	15.54		
3	HQAM	8	7	15.87	15.89	15.60		
3	HQAM	15	0	15.39	15.58	15.58		
3	HQAM	1	0	15.83	15.87	15.72	17.2	0
3	HQAM	1	8	15.68	15.74	15.67		
3	HQAM	1	14	15.88	15.65	15.61		
3	HQAM	8	0	15.59	15.76	15.60	17.2	0
3	HQAM	8	7	15.69	15.68	15.61		
3	HQAM	8	7	15.64	15.58	15.45		
3	SSBQAM	1	8	15.88	15.86	15.53	17.2	0
3	SSBQAM	1	14	15.68	15.84	15.60		
3	SSBQAM	8	0	15.58	15.81	15.45	17.2	0
3	SSBQAM	8	4	15.50	15.80	15.60		
3	SSBQAM	8	7	15.71	15.81	15.63	17.2	0
3	SSBQAM	15	0	15.55	15.72	15.59		
Channel								
Frequency (MHz)				1867	1860	1918		
1.4	QPSK	1	0	15.83	15.89	15.85		
1.4	QPSK	1	3	15.72	15.73	15.67	17.2	0
1.4	QPSK	1	6	15.88	15.88	15.82		
1.4	QPSK	3	1	15.89	15.87	15.73		
1.4	QPSK	0	0	15.64	15.89	15.65	17.2	0
1.4	QPSK	3	1	15.67	15.71	15.58		
1.4	HQAM	1	0	15.84	15.84	15.62	17.2	0
1.4	HQAM	1	3	15.36	15.87	15.65		
1.4	HQAM	1	6	15.67	15.88	15.55		
1.4	HQAM	3						



Band 7 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	14.95	15.10	14.94					
20	QPSK	1	49	14.94	14.88	14.83	15.9	0			
20	QPSK	1	99	14.94	14.88	14.83					
20	QPSK	50	0	14.95	15.10	14.84					
20	QPSK	50	24	14.95	14.89	14.84					
20	QPSK	50	50	14.91	14.85	14.88	15.9	0			
20	QPSK	100	0	14.94	14.96	14.86					
20	IQOAM	1	0	14.72	14.92	14.80	15.9	0			
20	IQOAM	1	49	14.70	14.87	15.00	15.9	0			
20	IQOAM	1	99	14.68	14.84	14.82					
20	IQOAM	50	0	14.92	14.98	14.84					
20	IQOAM	50	24	14.79	14.96	14.75	15.9	0			
20	IQOAM	50	50	14.74	14.91	14.96					
20	IQOAM	100	0	14.80	14.90	14.82					
20	IQOAM	1	0	14.90	14.87	14.74					
20	IQOAM	1	49	14.85	14.92	14.75	15.9	0			
20	IQOAM	1	99	14.72	14.93	14.79					
20	IQOAM	50	24	14.76	14.98	14.81	15.9	0			
20	IQOAM	50	50	14.73	14.91	14.74					
20	IQOAM	100	0	14.85	14.75	14.83					
20	SSIQAM	1	0	14.86	14.89	14.87					
20	SSIQAM	1	49	14.86	14.88	14.75	15.9	0			
20	SSIQAM	1	99	14.78	14.91	14.74					
20	SSIQAM	50	24	14.81	14.92	14.82					
20	SSIQAM	50	50	14.81	14.79	14.80	15.9	0			
20	SSIQAM	100	0	14.84	14.87	14.89					
20	SSIQAM	100	0	14.87	14.89	14.80					
Channel											
Frequency (MHz)											
15	QPSK	1	0	14.88	15.03	14.85					
15	QPSK	1	49	14.77	14.96	14.75	15.9	0			
15	QPSK	1	99	14.91	14.74	14.72					
15	QPSK	50	0	14.87	14.90	14.70					
15	QPSK	50	24	14.88	14.97	14.82					
15	QPSK	50	50	14.81	14.81	14.77	15.9	0			
15	QPSK	75	0	14.81	14.88	14.75					
15	IQOAM	1	0	14.83	14.88	14.81					
15	IQOAM	1	37	14.58	14.74	14.91	15.9	0			
15	IQOAM	1	74	14.61	14.89	14.73					
15	IQOAM	36	0	14.80	14.93	14.58					
15	IQOAM	36	20	14.69	14.91	14.62	15.9	0			
15	IQOAM	36	50	14.68	14.79	14.73					
15	IQOAM	75	0	14.75	14.81	14.71					
15	IQOAM	1	0	14.78	14.82	14.69					
15	IQOAM	1	37	14.77	14.89	14.73	15.9	0			
15	IQOAM	1	74	14.57	14.82	14.70					
15	IQOAM	36	0	14.78	14.88	14.70					
15	IQOAM	36	20	14.62	14.92	14.73	15.9	0			
15	IQOAM	36	50	14.53	14.87	14.51					
15	IQOAM	75	0	14.74	14.72	14.69					
15	SSIQAM	1	0	14.76	14.86	14.80					
15	SSIQAM	1	37	14.80	14.78	14.70	15.9	0			
15	SSIQAM	1	74	14.72	14.80	14.62					
15	SSIQAM	50	20	14.68	14.72	14.59					
15	SSIQAM	36	39	14.55	14.74	14.75	15.9	0			
15	SSIQAM	75	0	14.63	14.72	14.70					
Channel											
Frequency (MHz)											
10	QPSK	1	0	14.86	14.99	14.83					
10	QPSK	1	25	14.76	14.80	14.79	15.9	0			
10	QPSK	1	49	14.88	14.79	14.78					
10	QPSK	25	0	14.86	14.99	14.86					
10	QPSK	25	12	14.87	14.97	14.79					
10	QPSK	25	25	14.88	14.79	14.78	15.9	0			
10	IQOAM	1	0	14.78	14.86	14.80					
10	IQOAM	1	0	14.57	14.92	14.59					
10	IQOAM	1	25	14.80	14.77	14.84	15.9	0			
10	IQOAM	1	49	14.76	14.86	14.86					
10	IQOAM	25	0	14.83	14.90	14.64					
10	IQOAM	25	12	14.88	14.87	14.64	15.9	0			
10	IQOAM	25	25	14.87	14.92	14.86					
10	IQOAM	50	0	14.76	14.82	14.73					
10	IQOAM	1	0	14.78	14.81	14.63					
10	IQOAM	1	25	14.75	14.70	14.71	15.9	0			
10	IQOAM	1	49	14.87	14.76	14.74					
10	IQOAM	25	0	14.75	14.80	14.63					
10	IQOAM	25	12	14.72	14.83	14.75					
10	IQOAM	25	25	14.63	14.87	14.69	15.9	0			
10	IQOAM	50	0	14.78	14.63	14.74					
10	SSIQAM	1	0	14.81	14.76	14.69	15.9	0			
10	SSIQAM	1	25	14.73	14.73	14.69					
10	SSIQAM	1	49	14.72	14.79	14.68					
10	SSIQAM	25	0	14.81	14.87	14.65					
10	SSIQAM	25	12	14.87	14.69	14.72	15.9	0			
10	SSIQAM	25	25	14.49	14.76	14.70					
10	SSIQAM	50	0	14.70	14.74	14.70					
Channel											
Frequency (MHz)											
5	QPSK	1	0	14.87	14.89	14.82					
5	QPSK	1	12	14.72	14.90	14.80	15.9	0			
5	QPSK	1	24	14.88	14.75	14.80					
5	QPSK	12	0	14.85	14.95	14.71					
5	QPSK	12	7	14.74	14.93	14.87	15.9	0			
5	QPSK	12	13	14.87	14.82	14.80					
5	IQOAM	1	0	14.58	14.81	14.55	15.9	0			
5	IQOAM	1	12	14.65	14.83	14.62					
5	IQOAM	1	24	14.83	14.71	14.77	15.9	0			
5	IQOAM	12	0	14.80	14.91	14.66					
5	IQOAM	12	7	14.75	14.91	14.71	15.9	0			
5	IQOAM	12	13	14.62	14.84	14.62					
5	IQOAM	25	0	14.71	14.81	14.78					
5	IQOAM	1	0	14.81	14.78	14.65					
5	IQOAM	1	12	14.81	14.79	14.61	15.9	0			
5	IQOAM	1	24	14.84	14.81	14.72					
5	IQOAM	12	0	14.73	14.89	14.72					
5	IQOAM	12	7	14.64	14.78	14.77	15.9	0			
5	IQOAM	12	13	14.86	14.86	14.65					
5	IQOAM	25	0	14.81	14.72	14.71					
5	SSIQAM	1	0	14.71	14.78	14.89					
5	SSIQAM	1	12	14.81	14.79	14.63	15.9	0			
5	SSIQAM	1	24	14.69	14.77	14.64					
5	SSIQAM	12	0	14.70	14.84	14.56					
5	SSIQAM	12	7	14.46	14.73	14.67	15.9	0			
5	SSIQAM	12	13	14.53	14.77	14.70					
5	SSIQAM	25	0	14.71	14.78	14.76					

Band 21 Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.46	22.50	22.44					
10	QPSK	1	25	22.43	22.48	22.48	23.5	0			
10	QPSK	1	49	22.39	22.46	22.33					
10	QPSK	25	0	22.08	22.15	21.95					
10	QPSK	25	12	22.03	22.05	21.98					
10	QPSK	25	25	22.10	22.12	21.92	23	0.5			
10	QPSK	50	0	21.94	22.11	21.92					
10	IQOAM	1	0	22.04	22.09	22.09					
10	IQOAM	1	25	21.90	22.03	21.97	23	0.5			
10	IQOAM	1	49	22.02	22.08	22.01					
10	IQOAM	1	49	21.58	22.22	21.58					
10	IQOAM	25	12	21.13	21.10	21.08	22	1.5			
10	IQOAM	25	25	20.85	21.20	21.09					
10	IQOAM	50	0	20.95	21.10	21.05					
10	IQOAM	1	0	21.10	21.22	21.09					
10	IQOAM	1	25	21.23	21.32	21.27	22	1.5			
10	IQOAM	1	49	20.97	21.30	21.14					
10	IQOAM	25	0	20.04	20.17	20.04					
10	IQOAM	25	12	19.86	20.08	19.95	21	2.5			
10	IQOAM	25	25	20.01	20.11	19.98					
10	IQOAM	50	0	19.87	20.08	19.97					
10	SSIQAM	1	0	18.27	18.35	18.16					
10	SSIQAM	1	25	18.07	18.28	18.15	19	4.5			
10	SSIQAM	1	49	18.21	18.26	18.27					
10	SSIQAM	25	0	18.27	18.35	18.16					
10	SSIQAM	25	12	18.00	18.06	17.92	19	4.5			
10	SSIQAM	25	25	18.08	18.18	18.07					
10	SSIQAM	50	0	17.83	18.02	17.83					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.45	22.39	22.35					
5	QPSK	1	12	22.42	22.42	22.28					



Band 25 Ant 1													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Time-up Time (min)	MPE (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	15.98	16.04	15.96							
20	QPSK	1	49	15.97	16.03	15.99	17.2	0					
20	QPSK	1	99	15.77	15.71	15.75							
20	QPSK	50	0	15.83	15.80	15.71							
20	QPSK	50	24	15.81	15.82	15.83							
20	QPSK	50	50	15.74	15.80	15.78							
20	QPSK	100	0	15.70	15.84	15.72							
20	16QAM	5	0	15.85	15.85	15.83							
20	16QAM	1	49	15.82	15.80	15.76	17.2	0					
20	16QAM	1	99	15.60	15.88	15.78							
20	16QAM	50	0	15.70	15.79	15.88							
20	16QAM	50	24	15.83	15.81	15.87							
20	16QAM	50	50	15.88	15.73	15.78							
20	16QAM	100	0	15.82	15.79	15.87							
20	16QAM	1	0	15.73	15.70	15.80	17.2	0					
20	16QAM	1	49	15.71	15.81	15.80							
20	16QAM	1	99	15.68	15.89	15.80							
20	16QAM	50	0	15.78	15.88	15.88							
20	16QAM	50	24	15.70	15.75	15.74	17.2	0					
20	16QAM	50	50	15.75	15.72	15.82							
20	256QAM	100	0	15.70	15.80	15.72							
20	256QAM	1	49	15.78	15.77	15.83							
20	256QAM	1	99	15.67	15.73	15.71							
20	256QAM	50	0	15.70	15.75	15.82							
20	256QAM	50	24	15.80	15.72	15.73							
20	256QAM	50	50	15.82	15.83	15.83							
20	256QAM	100	0	15.80	15.80	15.80	17.2	0					
Channel													
Frequency (MHz)													
15	QPSK	1	0	15.89	15.87	15.87							
15	QPSK	1	31	15.88	15.87	15.87	17.2	0					
15	QPSK	1	74	15.66	15.81	15.84							
15	QPSK	36	0	15.79	15.87	15.86							
15	QPSK	25	24	15.73	15.72	15.73							
15	QPSK	36	39	15.83	15.72	15.85	17.2	0					
15	QPSK	75	0	15.75	15.74	15.85							
15	16QAM	1	0	15.56	15.74	15.55							
15	16QAM	1	37	15.55	15.74	15.54	17.2	0					
15	16QAM	1	74	15.80	15.68	15.74							
15	16QAM	5	0	15.80	15.65	15.58							
15	16QAM	36	29	15.56	15.84	15.59	17.2	0					
15	16QAM	25	24	15.82	15.78	15.81							
15	16QAM	75	0	15.43	15.65	15.63							
15	16QAM	1	0	15.85	15.82	15.78							
15	16QAM	1	37	15.82	15.82	15.80	17.2	0					
15	16QAM	1	74	15.61	15.85	15.55							
15	16QAM	36	0	15.71	15.84	15.58							
15	16QAM	25	29	15.80	15.78	15.83	17.2	0					
15	16QAM	75	0	15.59	15.85	15.53							
15	16QAM	1	0	15.86	15.74	15.59							
15	256QAM	1	0	15.88	15.88	15.86							
15	256QAM	1	37	15.70	15.88	15.54	17.2	0					
15	256QAM	1	74	15.80	15.70	15.60							
15	256QAM	50	0	15.80	15.85	15.82							
15	256QAM	50	24	15.82	15.82	15.59							
15	256QAM	50	50	15.82	15.82	15.59	17.2	0					
15	256QAM	36	39	15.46	15.74	15.69							
15	256QAM	75	0	15.71	15.81	15.81							
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.90	20.90	20.90							
20	QPSK	1	49	18.92	18.90	18.90	17.2	0					
20	QPSK	1	99	18.73	18.70	18.72							
20	QPSK	50	0	18.73	18.70	18.73							
20	QPSK	50	24	18.73	18.70	18.73							
20	QPSK	50	50	18.68	18.66	18.63							
20	16QAM	1	0	18.68	18.66	18.62							
20	16QAM	1	49	18.58	18.74	18.51	17.2	0					
20	16QAM	1	99	18.57	18.72	18.67							
20	16QAM	50	0	18.68	18.66	18.62							
20	16QAM	50	24	18.63	18.78	18.54							
20	16QAM	50	50	18.52	18.81	18.56							
20	16QAM	100	0	18.61	18.68	18.67	17.2	0					
20	16QAM	1	0	18.61	18.68	18.69							
20	16QAM	1	49	18.62	18.61	18.61							
20	16QAM	1	99	18.58	18.77	18.59							
20	16QAM	50	0	18.68	18.63	18.59							
20	16QAM	50	24	18.65	18.68	18.55							
20	16QAM	50	50	18.59	18.71	18.63	17.2	0					
20	256QAM	1	0	18.68	18.69	18.54							
20	256QAM	1	49	18.53	18.62	18.57							
20	256QAM	1	99	18.53	18.60	18.64							
20	256QAM	50	0	18.52	18.58	18.59							
20	256QAM	50	24	18.53	18.78	18.79							
20	256QAM	50	50	18.52	18.60	18.61	17.2	0					
Channel													
Frequency (MHz)													
20	QPSK	1	0	18.92	18.90	18.90							
20	QPSK	1	25	18.73	18.70	18.72	17.2	0					
20	QPSK	1	49	18.65	18.60	18.72							
20	QPSK	12	0	18.72	18.65	18.67							
20	QPSK	25	12	18.73	18.70	18.73							
20	QPSK	25	28	18.68	18.66	18.63							
20	16QAM	1	0	18.68	18.66	18.62							
20	16QAM	1	24	18.58	18.74	18.51	17.2	0					
20	16QAM	1	49	18.58	18.77	18.51							
20	16QAM	50	0	18.66	18.66	18.63							
20	16QAM	50	12	18.62	18.81	18.56							
20	16QAM	50	24	18.61	18.68	18.67	17.2	0					
20	16QAM	50	50	18.61	18.61	18.61							
20	16QAM	100	0	18.57	18.63	18.54							
20	16QAM	1	0	18.61	18.68	18.69	17.2	0					
20	16QAM	1	49	18.62	18.61	18.61							
20	16QAM	1	99	18.58	18.77	18.59							
20	16QAM	50	0	18.68	18.63	18.59							
20	16QAM	50	24	18.65	18.68	18.55							
20	16QAM	50	50	18.59	18.71	18.63	17.2	0					
20	256QAM	1	0	18.68	18.69	18.54							
20	256QAM	1	49	18.53	18.62	18.57							
20	256QAM	1	99	18.53	18.60	18.64							
20	256QAM	50	0	18.52	18.58	18.59							
20	256QAM	50	24	18.53	18.78	18.79							
20	256QAM	50	50	18.52	18.60	18.61	17.2	0					
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.90	20.90	20.90							
20	QPSK	1	49	18.92	18.90	18.90	17.2	0					

Band 38 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	17.36	17.46	17.37	18.6	0		
20	QPSK	1	49	17.29	17.41	17.34				
20	QPSK	1	99	17.32	17.34	17.36				
20	QPSK	50	0	17.24	17.42	17.33	18.6	0		
20	QPSK	50	24	17.14	17.29	17.20				
20	QPSK	50	50	17.30	17.23	17.25				
20	QPSK	100	0	17.24	17.32	17.22	18.6	0		
20	16QAM	1	0	17.24	17.31	17.17				
20	16QAM	1	49	17.22	17.33	17.27				
20	16QAM	1	99	17.21	17.13	17.25	18.6	0		
20	16QAM	50	0	17.33	17.21	17.18				
20	16QAM	50	24	17.03	17.33	17.19				
20	16QAM	50	50	17.18	17.27	17.13	18.6	0		
20	16QAM	100	0	17.20	17.10	17.22				
20	16QAM	100	0	17.20	17.19	17.04				
20	16QAM	1	49	17.15	17.37	17.08	18.6	0		
20	16QAM	1	99	17.21	17.32	17.22				
20	16QAM	50	0	17.15	17.25	17.15				
20	16QAM	50	24	17.25	17.16	17.22	18.6	0		
20	16QAM	50	50	17.20	17.30	17.31				
20	16QAM	100	0	17.30	17.19	17.17				
20	256QAM	1	0	17.39	17.41	17.28	18	0.6		
20	256QAM	1	49	17.21	17.19	17.17				
20	256QAM	1	99	17.36	17.42	17.22				
20	256QAM	50	0	17.11	17.16	17.10	18	0.6		
20	256QAM	50	24	16.95	17.11	17.03				
20	256QAM	50	50	17.03	17.16	17.07				
20	256QAM	100	0	17.02	17.07	16.89				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	17.30	17.42	17.30	18.6	0		
15	QPSK	1	37	17.21	17.35	17.29				
15	QPSK	1	74	17.29	17.28	17.32				
15	QPSK	36	0	17.18	17.39	17.27	18.6	0		
15	QPSK	36	20	17.11	17.23	17.11				
15	QPSK	36	39	17.25	17.14	17.19				
15	QPSK	75	0	17.19	17.26	17.16	18.6	0		
15	16QAM	1	0	17.16	17.24	17.10				
15	16QAM	1	37	17.17	17.27	17.19				
15	16QAM	1	74	17.18	17.08	17.18	18.6	0		
15	16QAM	36	0	17.27	17.13	17.14				
15	16QAM	36	20	16.99	17.30	17.15				
15	16QAM	36	39	17.12	17.23	17.07	18.6	0		
15	16QAM	75	0	17.12	17.03	17.15				
15	16QAM	1	0	17.12	17.14	16.99				
15	16QAM	1	37	17.07	17.31	16.99	18.6	0		
15	16QAM	1	74	17.16	17.23	17.13				
15	16QAM	36	0	17.07	17.18	17.08				
15	16QAM	36	20	17.18	17.07	17.13	18.6	0		
15	16QAM	36	39	17.13	17.18	17.08				
15	16QAM	75	0	17.14	17.23	17.07				
15	256QAM	1	0	17.14	17.03	17.14	18	0.6		
15	256QAM	1	37	17.13	17.15	16.99				
15	256QAM	1	74	17.10	17.31	17.03				
15	256QAM	36	0	17.15	17.28	17.15	18	0.6		
15	256QAM	36	20	17.09	17.19	17.12				
15	256QAM	36	39	17.21	17.10	17.17				
15	256QAM	75	0	17.16	17.25	17.22				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	17.31	17.37	17.29	18.6	0		
10	QPSK	1	25	17.24	17.38	17.29				
10	QPSK	1	49	17.26	17.27	17.31				
10	QPSK	25	0	17.20	17.37	17.30	18.6	0		
10	QPSK	25	12	17.06	17.24	17.11				
10	QPSK	25	25	17.22	17.18	17.19				
10	QPSK	50	0	17.17	17.27	17.13	18.6	0		
10	16QAM	1	0	17.20	17.27	17.13				
10	16QAM	1	25	17.13	17.27	17.22				
10	16QAM	1	49	17.13	17.09	17.19	18.6	0		
10	16QAM	25	0	17.28	17.15	17.11				
10	16QAM	25	12	16.95	17.29	17.12				
10	16QAM	25	25	17.12	17.20	17.07	18.6	0		
10	16QAM	50	0	17.16	17.05	17.16				
10	16QAM	1	0	17.12	17.16	16.97				
10	16QAM	1	25	17.09	17.30	17.03	18.6	0		
10	16QAM	1	49	17.14	17.28	17.19				
10	16QAM	25	0	17.11	17.21	17.08				
10	16QAM	25	12	17.22	17.07	17.14	18.6	0		
10	16QAM	25	25	17.13	17.21	17.25				
10	16QAM	50	0	17.11	17.19	17.04				
10	256QAM	1	0	17.14	17.04	17.19	18	0.6		
10	256QAM	1	25	17.16	17.14	17.01				
10	256QAM	1	49	17.10	17.32	17.04				
10	256QAM	25	0	17.17	17.24	17.14	18	0.6		
10	256QAM	25	12	17.12	17.19	17.07				
10	256QAM	25	25	17.19	17.12	17.19				
10	256QAM	50	0	17.13	17.26	17.23				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	17.31	17.38	17.28	18.6	0		
5	QPSK	1	12	17.23	17.37	17.27				
5	QPSK	1	24	17.25	17.30	17.31				
5	QPSK	12	0	17.20	17.33	17.26	18.6	0		
5	QPSK	12	7	17.09	17.22	17.17				
5	QPSK	12	13	17.23	17.14	17.16				
5	QPSK	25	0	17.16	17.28	17.18	18.6	0		
5	16QAM	1	0	17.20	17.25	17.11				
5	16QAM	1	12	17.14	17.25	17.21				
5	16QAM	1	24	17.18	17.06	17.17	18.6	0		
5	16QAM	12	0	17.26	17.12	17.11				
5	16QAM	12	7	16.99	17.29	17.12				
5	16QAM	12	13	17.14	17.19	17.06	18.6	0		
5	16QAM	25	0	17.13	17.06	17.13				
5	16QAM	1	0	17.13	17.16	16.96				
5	16QAM	1	12	17.06	17.28	17.03	18.6	0		
5	16QAM	1	24	17.14	17.26	17.16				
5	16QAM	12	0	17.08	17.18	17.11				
5	16QAM	12	7	17.16	17.08	17.15	18.6	0		
5	16QAM	12	13	17.13	17.27	17.26				
5	16QAM	25	0	17.12	17.19	17.05				
5	256QAM	1	0	17.15	17.07	17.13	18	0.6		
5	256QAM	1	12	17.11	17.15	17.00				
5	256QAM	1	24	17.08	17.33	17.00				
5	256QAM	12	0	17.14	17.23	17.15	18	0.6		
5	256QAM	12	7	17.09	17.19	17.07				
5	256QAM	12	13	17.20	17.10	17.13				
5	256QAM	25	0	17.13	17.22	17.23				

Band 38 HPUE Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.36	19.39	19.25	20.2	0		
20	QPSK	1	49	19.12	19.23	19.21				
20	QPSK	1	99	19.32	19.27	19.18				
20	QPSK	50	0	19.19	19.31	19.25	20.2	0		
20	QPSK	50	24	19.20	19.25	19.21				
20	QPSK	50	50	19.15	19.21	19.08				
20	QPSK	100	0	19.20	19.21	19.16	20.2	0		
20	16QAM	1	0	19.22	19.27	19.19				
20	16QAM	1	49	19.23	19.32	19.27				
20	16QAM	1	99	19.16	19.25	19.12	20.2	0		
20	16QAM	50	0	19.34	19.17	19.20				
20	16QAM	50	24	19.16	19.15	19.21				
20	16QAM	50	50	19.16	19.24	19.15	20.2	0		
20	16QAM	100	0	19.17	19.18	19.11				
20	16QAM	100	0	19.23	19.25	19.14				
20	16QAM	1	49	19.21	19.30	19.16	20.2	0		
20	16QAM	1	99	19.26	19.31	19.24				
20	16QAM	50	0	19.14	19.28	19.22				
20	16QAM	50	24	19.31	19.11	19.20	20.2	0		
20	16QAM	50	50	19.17	19.28	19.31				
20	16QAM	100	0	19.07	19.19	19.08				
20	256QAM	1	0	19.08	19.14	19.03	20.2	0		
20	256QAM	1	49	19.07	19.21	19.06				
20	256QAM	1	99	19.12	19.12	19.05				
20	256QAM	50	0	19.17	19.17	19.06	20.2	0		
20	256QAM	50	24	19.15	19.22	19.12				
20	256QAM	50	50	19.22	19.22	19.16				
20	256QAM	100	0	19.09	19.23	19.15				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.32	1					



SPORTON LAB.

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.40	17.43	17.51	17.41	17.43	18.6	0
20	QPSK	1	49	17.31	17.34	17.48	17.38	17.39		
20	QPSK	1	99	17.34	17.40	17.39	17.40	17.38		
20	QPSK	50	0	17.39	17.32	17.45	17.40	17.35		
20	QPSK	50	24	17.27	17.22	17.36	17.27	17.39	18.6	0
20	QPSK	50	50	17.32	17.34	17.29	17.31	17.35		
20	QPSK	100	0	17.39	17.31	17.41	17.26	17.27		
20	16QAM	1	0	17.36	17.30	17.38	17.22	17.23		
20	16QAM	1	49	17.22	17.28	17.40	17.31	17.37	18.6	0
20	16QAM	1	99	17.32	17.29	17.21	17.33	17.42		
20	16QAM	50	0	17.23	17.40	17.27	17.22	17.21		
20	16QAM	50	24	17.22	17.11	17.36	17.25	17.32		
20	16QAM	50	50	17.30	17.22	17.32	17.22	17.25	18.6	0
20	16QAM	100	0	17.25	17.23	17.17	17.30	17.23		
20	64QAM	1	0	17.21	17.26	17.24	17.12	17.23		
20	64QAM	1	49	17.20	17.22	17.44	17.12	17.16		
20	64QAM	1	99	17.34	17.30	17.38	17.26	17.36	18.6	0
20	64QAM	50	0	17.31	17.20	17.33	17.23	17.18		
20	64QAM	50	24	17.27	17.32	17.30	17.29	17.27		
20	64QAM	50	50	17.40	17.27	17.37	17.37	17.35		
20	64QAM	100	0	17.31	17.38	17.23	17.21	17.19	18.6	0
20	256QAM	1	0	17.36	17.42	17.50	17.29	17.43		
20	256QAM	1	49	17.14	17.27	17.25	17.24	17.19		
20	256QAM	1	99	17.33	17.44	17.47	17.27	17.37		
20	256QAM	50	0	17.11	17.15	17.24	17.17	17.12	18	0.6
20	256QAM	50	24	17.12	17.01	17.16	17.08	17.03		
20	256QAM	50	50	17.08	17.09	17.21	17.11	17.10		
20	256QAM	100	0	17.08	17.10	17.12	16.98	17.04		
Channel										
				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.35	17.29	17.43	17.29	17.40	19	0
15	QPSK	1	37	17.27	17.23	17.41	17.28	17.27		
15	QPSK	1	74	17.30	17.34	17.32	17.27	17.34		
15	QPSK	36	0	17.25	17.28	17.44	17.29	17.29		
15	QPSK	36	20	17.22	17.09	17.32	17.20	17.35	18.6	0
15	QPSK	36	39	17.24	17.30	17.31	17.23	17.23		
15	QPSK	75	0	17.31	17.16	17.33	17.17	17.13		
15	16QAM	1	0	17.23	17.25	17.30	17.12	17.10		
15	16QAM	1	37	17.09	17.20	17.34	17.26	17.34	18.6	0
15	16QAM	1	74	17.23	17.19	17.08	17.26	17.37		
15	16QAM	36	0	17.14	17.27	17.13	17.10	17.11		
15	16QAM	36	20	17.07	17.02	17.23	17.17	17.22		
15	16QAM	36	39	17.24	17.13	17.28	17.10	17.21	18.6	0
15	16QAM	75	0	17.12	17.19	17.06	17.21	17.11		
15	64QAM	1	0	17.15	17.13	17.16	17.01	17.13		
15	64QAM	1	37	17.06	17.15	17.34	17.00	17.05		
15	64QAM	1	74	17.21	17.26	17.29	17.16	17.32	18.6	0
15	64QAM	36	0	17.17	17.12	17.26	17.19	17.07		
15	64QAM	36	20	17.15	17.23	17.15	17.21	17.16		
15	64QAM	36	39	17.37	17.13	17.24	17.29	17.26		
15	64QAM	75	0	17.21	17.31	17.10	17.07	17.10	18.6	0
15	256QAM	1	0	17.22	17.37	17.41	17.21	17.34		
15	256QAM	1	37	17.04	17.18	17.20	17.11	17.14		
15	256QAM	1	74	17.20	17.32	17.36	17.23	17.28		
15	256QAM	36	0	16.96	17.00	17.14	17.05	17.00	18	0.6
15	256QAM	36	20	17.02	16.98	17.06	17.03	16.95		
15	256QAM	36	39	16.99	17.03	17.13	17.00	17.00		
15	256QAM	75	0	17.04	17.01	17.01	16.85	16.89		
Channel										
				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.37	17.37	17.46	17.29	17.36	18.60	0
10	QPSK	1	25	17.24	17.28	17.43	17.30	17.30		
10	QPSK	1	49	17.19	17.30	17.33	17.29	17.29		
10	QPSK	25	0	17.24	17.26	17.41	17.31	17.25		
10	QPSK	25	12	17.19	17.09	17.31	17.18	17.27	18.6	0
10	QPSK	25	25	17.20	17.22	17.38	17.17	17.24		
10	QPSK	50	0	17.28	17.18	17.36	17.15	17.16		
10	16QAM	1	0	17.27	17.24	17.26	17.13	17.19		
10	16QAM	1	25	17.10	17.19	17.35	17.21	17.23	18.6	0
10	16QAM	1	49	17.26	17.25	17.08	17.27	17.29		
10	16QAM	25	0	17.18	17.29	17.12	17.09	17.10		
10	16QAM	25	12	17.13	17.01	17.29	17.21	17.21		
10	16QAM	25	25	17.22	17.08	17.20	17.18	17.21	18.6	0
10	16QAM	50	0	17.13	17.08	17.13	17.23	17.12		
10	64QAM	1	0	17.15	17.21	17.11	16.98	17.14		
10	64QAM	1	25	17.11	17.08	17.34	17.01	17.10		
10	64QAM	1	49	17.27	17.15	17.24	17.19	17.24	18.6	0
10	64QAM	25	0	17.26	17.17	17.28	17.11	17.10		
10	64QAM	25	12	17.16	17.20	17.09	17.19	17.14		
10	64QAM	25	25	17.25	17.22	17.28	17.24	17.22		
10	64QAM	50	0	17.16	17.26	17.09	17.13	17.08	18	0.6
10	256QAM	1	0	17.27	17.32	17.45	17.17	17.35		
10	256QAM	1	25	17.11	17.21	17.20	17.19	17.10		
10	256QAM	1	49	17.23	17.36	17.44	17.21	17.28		
10	256QAM	25	0	17.04	17.08	17.11	17.06	17.07	18	0.6
10	256QAM	25	12	17.05	16.90	17.04	16.99	16.92		
10	256QAM	25	25	16.98	17.02	17.12	17.06	17.02		
10	256QAM	50	0	17.02	17.02	17.05	16.93	16.90		
Channel										
				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	17.34	17.32	17.40	17.36	17.36	18.60	0
5	QPSK	1	12	17.18	17.22	17.35	17.25	17.36		
5	QPSK	1	24	17.24	17.26	17.33	17.32	17.30		
5	QPSK	12	0	17.36	17.18	17.48	17.31	17.23		
5	QPSK	12	7	17.17	17.18	17.26	17.15	17.31	18.6	0
5	QPSK	12	13	17.19	17.29	17.39	17.23	17.25		
5	QPSK	25	0	17.25	17.24	17.32	17.19	17.22		
5	16QAM	1	0	17.26	17.18	17.28	17.09	17.11		
5	16QAM	1	12	17.17	17.24	17.31	17.21	17.25	18.6	0
5	16QAM	1	24	17.29	17.21	17.13	17.24	17.38		
5	16QAM	12	0	17.18	17.35	17.20	17.12	17.16		
5	16QAM	12	7	17.14	17.03	17.30	17.10	17.23		
5	16QAM	12	13	17.22	17.11	17.22	17.08	17.13	18.6	0
5	16QAM	25	0	17.19	17.16	17.10	17.16	17.17		
5	64QAM	1	0	17.09	17.11	17.16	17.06	17.12		
5	64QAM	1	12	17.09	17.15	17.40	17.05	17.12		
5	64QAM	1	24	17.30	17.22	17.26	17.14	17.26	18.6	0
5	64QAM	12	0	17.16	17.11	17.27	17.20	17.14		
5	64QAM	12	7	17.22	17.20	17.14	17.18	17.16		
5	64QAM	12	13	17.28	17.24	17.27	17.29	17.30		
5	64QAM	25	0	17.19	17.30	17.16	17.18	17.09	18	0.6
5	256QAM	1	0	17.28	17.37	17.39	17.23	17.36		
5	256QAM	1	12	17.11	17.20	17.17	17.18	17.05		
5	256QAM	1	24	17.24	17.30	17.40	17.13	17.33		
5	256QAM	12	0	16.99	17.03	17.20	17.05	17.00	18	0.6
5	256QAM	12	7	17.07	16.89	17.05	17.04	16.93		
5	256QAM	12	13	16.94	16.99	17.06	17.06	16.95		
5	256QAM	25	0	16.96	16.98	16.99	16.86	16.97		

Band 41 HPUE Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.31	19.41	19.43	19.32	19.30	20.2	0
20	QPSK	1	49	19.22	19.21	19.31	19.28	19.26		
20	QPSK	1	99	19.24	19.38	19.30	19.23	19.20		
20	QPSK	50	0	19.25	19.27	19.39	19.29	19.24		
20	QPSK	50	24	19.29	19.24	19.29	19.25	19.23	20.2	0
20	QPSK	50	50	19.24	19.19	19.26	19.15	19.16		
20	QPSK	100	0	19.23	19.25	19.27	19.21	19.24		
20	16QAM	1	0	19.28	19.26	19.30	19.27	19.29		
20	16QAM	1	49	19.35	19.30	19.35	19.34	19.30	20.2	0
20	16QAM	1	99	19.29	19.23	19.30	19.20	19.22		
20	16QAM	50	0	19.17	19.38	19.21	19.26	19.19		
20	16QAM	50	24	19.23	19.25	19.20	19.30	19.24		
20	16QAM	50	50	19.21	19.22	19.30	19.19	19.24	20.2	0
20	16QAM	100	0	19.18	19.24	19.26	19.19	19.22		
20	64QAM	1	0	19.23	19.27	19.28	19.20	19.16		





### Reduced Power Mode for DSI 3

GSM850 Ant0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.64	32.76	32.68	33.50	23.64	23.76	23.68	24.50
GPRS 1 Tx slot	32.57	32.72	32.66	33.50	23.57	23.72	23.66	24.50
GPRS 2 Tx slots	30.09	30.15	30.05	31.00	24.09	24.15	24.05	25.00
GPRS 3 Tx slots	28.60	28.67	28.59	29.50	24.34	24.41	24.33	25.24
GPRS 4 Tx slots	27.05	27.14	27.04	28.00	24.05	24.14	24.04	25.00
EDGE 1 Tx slot	25.95	26.05	25.93	27.00	16.95	17.05	16.93	18.00
EDGE 2 Tx slots	25.05	25.13	25.09	26.00	19.05	19.13	19.09	20.00
EDGE 3 Tx slots	23.34	23.42	23.33	24.50	19.08	19.16	19.07	20.24
EDGE 4 Tx slots	21.62	21.74	21.67	23.00	18.62	18.74	18.67	20.00

GSM1900 Ant0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.6		1850.2	1880	1909.6	
GSM 1 Tx slot	24.12	24.18	24.06	24.90	15.12	15.18	15.06	15.90
GPRS 1 Tx slot	24.07	24.12	24.03	24.90	15.07	15.12	15.03	15.90
GPRS 2 Tx slots	20.86	20.95	20.91	21.90	14.86	14.95	14.91	15.90
GPRS 3 Tx slots	19.21	19.25	19.15	20.10	14.95	14.99	14.89	15.84
GPRS 4 Tx slots	17.82	17.93	17.89	18.90	14.82	14.93	14.89	15.90
EDGE 1 Tx slot	23.67	23.82	23.73	24.90	14.67	14.82	14.73	15.90
EDGE 2 Tx slots	20.87	20.95	20.89	21.90	14.87	14.95	14.89	15.90
EDGE 3 Tx slots	18.65	18.76	18.62	20.10	14.39	14.50	14.36	15.84
EDGE 4 Tx slots	17.73	17.85	17.79	18.90	14.73	14.85	14.79	15.90

Band	WCDMA II Ant0			Tune-up Limit (dBm)	WCDMA IV Ant0			Tune-up Limit (dBm)	WCDMA V Ant0			Tune-up Limit (dBm)	
	Rx Channel	9282	9400		9538	1312	1413		1513	4132	4182		4233
Frequency (MHz)	9682	9800	9938		1537	1638	1738		4357	4407	4468		
	1852.4	1880	1907.6		1712.4	1732.6	1752.6		836.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	13.53	13.61	13.57	15.00	14.72	14.78	14.74	15.90	23.10	23.19	23.06	24.00
3GPP Rel 99	RMC 12.2Kbps	13.56	13.63	13.60	15.00	14.79	14.83	14.81	15.90	23.17	23.23	23.15	24.00
3GPP Rel 6	HSDPA Subtest-1	12.59	12.69	12.59	14.00	13.75	13.89	13.78	14.90	22.05	22.16	22.21	23.00
3GPP Rel 6	HSDPA Subtest-2	12.69	12.79	12.60	14.00	13.95	14.00	13.77	14.90	22.20	22.33	22.27	23.00
3GPP Rel 6	HSDPA Subtest-3	12.06	12.23	12.16	13.50	13.28	13.49	13.40	14.40	21.68	21.85	21.76	22.50
3GPP Rel 6	HSDPA Subtest-4	11.99	12.31	12.17	13.50	13.17	13.52	13.38	14.40	21.55	21.71	21.70	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	12.65	12.61	12.58	14.00	13.88	13.84	13.83	14.90	22.23	22.21	22.17	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	12.50	12.59	12.73	14.00	13.71	13.84	13.89	14.90	22.14	22.14	22.21	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	11.91	12.08	11.93	13.50	13.17	13.29	13.09	14.40	21.50	21.66	21.50	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	11.96	12.06	12.10	13.50	13.21	13.23	13.28	14.40	21.52	21.76	21.80	22.50
3GPP Rel 6	HSUPA Subtest-1	12.49	12.55	12.52	14.00	13.68	13.72	13.67	14.90	21.98	22.21	22.15	23.00
3GPP Rel 6	HSUPA Subtest-2	10.65	10.85	10.62	12.00	11.84	12.11	11.82	12.90	20.36	20.24	20.23	21.00
3GPP Rel 6	HSUPA Subtest-3	11.71	11.56	11.42	13.00	12.91	12.74	12.60	13.90	21.22	21.23	21.08	22.00
3GPP Rel 6	HSUPA Subtest-4	10.42	10.63	10.82	12.00	11.60	11.83	12.02	12.90	20.08	20.32	20.35	21.00
3GPP Rel 6	HSUPA Subtest-5	12.46	12.56	12.53	14.00	13.62	13.80	13.74	14.90	22.14	22.17	22.02	23.00



Band 2 Ant 0																
BW (MHz)	Modulation	RS Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Time-up (min)	MFR (dB)							
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.	Ch. 4/Freq.	2000W								
20	QPSK	1	0	12.79	12.67	12.75										
20	QPSK	1	0	12.81	12.72	12.59										
20	QPSK	1	99	12.60	12.68	12.82										
20	QPSK	50	0	12.68	12.77	12.84										
20	QPSK	25	24	12.63	12.75	12.82										
20	QPSK	50	50	12.51	12.60	12.47										
20	QPSK	100	0	12.59	12.65	12.62										
20	QPSK	50	50	12.27	12.32	12.66										
20	16QAM	1	49	12.54	12.60	12.51										
20	16QAM	1	99	12.52	12.62	12.60										
20	16QAM	1	99	12.52	12.61	12.61										
20	16QAM	50	24	12.56	12.62	12.60										
20	16QAM	50	50	12.51	12.67	12.65										
20	16QAM	50	50	12.56	12.62	12.62										
20	16QAM	1	0	12.51	12.66	12.62										
20	16QAM	1	49	12.52	12.61	12.61										
20	16QAM	50	0	12.52	12.61	12.59										
20	16QAM	50	0	12.52	12.61	12.59										
20	16QAM	50	24	12.51	12.67	12.65										
20	16QAM	50	50	12.48	12.58	12.49										
20	256QAM	1	49	12.53	12.57	12.46										
20	256QAM	1	99	12.48	12.72	12.60										
20	256QAM	1	99	12.53	12.61	12.65										
20	256QAM	50	24	12.42	12.57	12.53										
20	256QAM	50	24	12.50	12.62	12.48										
20	256QAM	100	0	12.49	12.60	12.46										
Channel				18975	18980	19120										
Frequency (MHz)				18975	18980	19025										
15	QPSK	1	0	12.73	12.60	12.69										
15	QPSK	1	24	12.63	12.67	12.67										
15	QPSK	1	74	12.57	12.63	12.54										
15	QPSK	36	0	12.64	12.71	12.58										
15	QPSK	36	0	12.68	12.68	12.61										
15	QPSK	36	39	12.44	12.52	12.39										
15	QPSK	75	0	12.54	12.62	12.57										
15	16QAM	1	37	12.53	12.62	12.57										
15	16QAM	1	37	12.56	12.58	12.47										
15	16QAM	1	74	12.51	12.62	12.46										
15	16QAM	36	39	12.55	12.54	12.54										
15	16QAM	36	39	12.51	12.54	12.58										
15	16QAM	75	0	12.51	12.54	12.59										
15	16QAM	1	0	12.57	12.59	12.54										
15	16QAM	1	37	12.52	12.61	12.56										
15	16QAM	1	74	12.45	12.53	12.44										
15	16QAM	36	39	12.45	12.58	12.42										
15	16QAM	36	39	12.55	12.59	12.59										
15	16QAM	75	0	12.49	12.63	12.42										
15	256QAM	1	37	12.45	12.48	12.39										
15	256QAM	1	74	12.40	12.67	12.58										
15	256QAM	1	74	12.45	12.65	12.65										
15	256QAM	36	39	12.38	12.48	12.48										
15	256QAM	36	39	12.42	12.57	12.53										
15	256QAM	36	39	12.44	12.53	12.39										
15	256QAM	75	0	12.48	12.58	12.44										
Channel				18955	18960	18905										
Frequency (MHz)				18955	18960	18905										
10	QPSK	1	0	12.60	12.62	12.69										
10	QPSK	1	25	12.62	12.64	12.57										
10	QPSK	1	49	12.52	12.64	12.54										
10	QPSK	25	0	12.67	12.72	12.61										
10	QPSK	25	24	12.55	12.69	12.62										
10	QPSK	25	24	12.42	12.56	12.41										
10	16QAM	1	0	12.53	12.60	12.61										
10	16QAM	1	25	12.48	12.63	12.46										
10	16QAM	1	25	12.48	12.63	12.46										
10	16QAM	1	49	12.47	12.67	12.47										
10	16QAM	1	25	12.56	12.63	12.53										
10	16QAM	25	12	12.49	12.58	12.52										
10	16QAM	25	12	12.55	12.63	12.52										
10	16QAM	50	0	12.50	12.59	12.55										
10	16QAM	1	0	12.56	12.58	12.58										
10	16QAM	1	49	12.47	12.67	12.47										
10	16QAM	1	49	12.47	12.67	12.44										
10	16QAM	25	25	12.57	12.64	12.54										
10	16QAM	50	0	12.43	12.55	12.45										
10	16QAM	50	0	12.53	12.59	12.52										
10	256QAM	1	25	12.50	12.50	12.42										
10	256QAM	1	49	12.44	12.67	12.46										
10	256QAM	1	49	12.47	12.67	12.47										
10	256QAM	25	24	12.45	12.62	12.45										
10	256QAM	25	24	12.43	12.65	12.46										
10	256QAM	50	0	12.53	12.59	12.52										
10	256QAM	50	0	12.53	12.59	12.52										
10	256QAM	50	24	12.42	12.62	12.42										
10	256QAM	50	24	12.45	12.65	12.46										
10	256QAM	50	25	12.45	12.58	12.49										
10	256QAM	50	25	12.45	12.58	12.49										
10	256QAM	100	0	12.49	12.61	12.45										
Channel				18925	18930	18975										
Frequency (MHz)				18925	18930	18975										
5	QPSK	1	0	12.61	12.72	12.61										
5	QPSK	1	12	12.63	12.67	12.58										
5	QPSK	1	24	12.57	12.62	12.56										
5	QPSK	12	0	12.62	12.71	12.58										
5	QPSK	12	7	12.58	12.72	12.56										
5	QPSK	12	13	12.43	12.55	12.41										
5	16QAM	1	0	12.55	12.63	12.62										
5	16QAM	1	12	12.53	12.60	12.62										
5	16QAM	1	12	12.47	12.63	12.45										
5	16QAM	1	24	12.48	12.67	12.48										
5	16QAM	12	0	12.56	12.68	12.62										
5	16QAM	12	7	12.47	12.60	12.58										
5	16QAM	25	0	12.52	12.59	12.58										
5	16QAM	25	0	12.47	12.62	12.59										
5	16QAM	1	0	12.52	12.57	12.56										
5	16QAM	1	24	12.45	12.67	12.44										
5	16QAM	12	0	12.57	12.65	12.42										
5	16QAM	12	13	12.53	12.62	12.54										
5	16QAM	25	0	12.50	12.59	12.55										
5	256QAM	1	24	12.44	12.68	12.42										
5	256QAM	1	24	12.48	12.64	12.59										
5	256QAM	12	7	12.33	12.48	12.40										
5	256QAM	12	13	12.42	12.56	12.42										
5	256QAM	25	25	12.48	12.63	12.51										
Channel				18915	18920	18965										
Frequency (MHz)				18915	18920	18965										
3	QPSK	1	0	12.52	12.63	12.71										
3	QPSK	1	8	12.63	12.68	12.86										
3	QPSK	1	14	12.62	12.61	12.55										
3	QPSK	8	0	12.60	12.71	12.59										
3	QPSK	8	4	12.58	12.68	12.89										
3	QPSK	8	7	12.48	12.53	12.49										
3	16QAM	1	0	12.52	12.63	12.58										
3	16QAM	1	8	12.49	12.64	12.43										
3	16QAM	1	8	12.47	12.69	12.46					</					



### Band 12 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)
Channel								
				705.5	711	717		
10	QPSK	1	0	22.84	22.84	22.86		
10	QPSK	1	25	22.81	22.77	22.83	24	0
10	QPSK	1	49	22.61	22.70	22.59		
10	QPSK	25	0	21.87	21.74	21.54		
10	QPSK	25	25	21.68	21.70	21.85	23	1
10	QPSK	25	50	21.55	21.65	21.80		
10	QPSK	50	0	21.71	21.69	21.63		
10	16QAM	1	25	21.54	21.71	21.87	23	1
10	16QAM	1	49	21.73	21.70	21.52		
10	16QAM	25	0	20.71	20.84	20.80		
10	16QAM	25	25	20.75	20.58	20.70	22	2
10	16QAM	25	50	20.59	20.72	20.70		
10	16QAM	50	0	20.69	20.75	20.82		
10	64QAM	1	0	20.78	20.73	20.59		
10	64QAM	1	25	20.92	20.93	20.81	22	2
10	64QAM	1	49	20.71	20.89	20.85		
10	64QAM	25	0	19.58	19.77	19.83		
10	64QAM	25	25	19.58	19.63	19.58	21	3
10	64QAM	25	50	19.68	19.81	19.85		
10	64QAM	50	0	19.47	19.61	19.58		
10	256QAM	1	0	17.76	17.85	17.73		
10	256QAM	1	25	17.88	17.87	17.85	19	5
10	256QAM	1	49	17.88	17.84	17.81		
10	256QAM	25	0	17.88	17.91	17.85		
10	256QAM	25	25	17.71	17.82	17.87	19	5
10	256QAM	25	50	17.88	17.75	17.80		
10	256QAM	50	0	17.93	17.95	17.83		
Channel								
				2305	2315	2315		
				731.5	737.5	743.5		
5	QPSK	1	0	22.58	22.78	22.53		
5	QPSK	1	24	22.47	22.67	22.48	24	0
5	QPSK	12	0	21.83	21.86	21.81		
5	QPSK	12	7	21.83	21.59	21.90	23	1
5	QPSK	25	0	21.41	21.41	21.47		
5	16QAM	1	0	21.66	21.57	21.48		
5	16QAM	1	12	21.42	21.37	21.37	23	1
5	16QAM	1	24	21.24	21.23	21.42		
5	16QAM	12	0	20.59	20.79	20.72		
5	16QAM	12	7	20.62	20.57	20.65	22	2
5	16QAM	12	14	20.59	20.79	20.76		
5	16QAM	25	0	20.47	20.61	20.59		
5	64QAM	1	0	20.69	20.70	20.45	22	2
5	64QAM	1	24	20.55	20.73	20.82		
5	64QAM	12	0	19.52	19.68	19.49		
5	64QAM	12	7	19.53	19.53	19.49	21	3
5	64QAM	12	13	19.25	19.55	19.47		
5	64QAM	25	0	19.49	19.51	19.45		
5	256QAM	1	0	17.70	17.83	17.81		
5	256QAM	1	12	17.84	17.85	17.75	19	5
5	256QAM	1	24	17.44	17.51	17.51		
5	256QAM	12	0	17.83	17.69	17.89	19	5
5	256QAM	12	13	17.83	17.69	17.89		
5	256QAM	25	0	17.64	17.84	17.68		
Channel								
				2405	2415	2415		
				809.7	815.5	821.3		
14	QPSK	1	0	22.24	22.39	22.32		
14	QPSK	1	3	22.32	22.60	22.59	24	0
14	QPSK	1	5	22.47	22.59	22.44		
14	QPSK	3	0	22.57	22.62	22.56		
14	QPSK	3	1	22.51	22.68	22.59	23	1
14	16QAM	1	0	21.60	21.61	21.43		
14	16QAM	1	3	21.62	21.63	21.56	23	1
14	16QAM	1	5	21.81	21.63	21.52		
14	16QAM	3	0	21.48	21.55	21.50		
14	16QAM	3	1	21.48	21.66	21.53	23	1
14	16QAM	3	2	21.60	21.63	21.48		
14	16QAM	6	0	20.61	20.76	20.71	22	2
14	64QAM	1	0	20.62	20.59	20.59		
14	64QAM	1	3	20.51	20.57	20.61	22	2
14	64QAM	1	5	20.52	20.71	20.52		
14	64QAM	3	0	20.81	20.64	20.48		
14	64QAM	3	3	20.69	20.59	20.75	21	3
14	64QAM	3	5	20.62	20.74	20.54		
14	256QAM	1	0	17.61	17.87	17.88		
14	256QAM	1	3	17.66	17.83	17.80	19	5
14	256QAM	1	5	17.79	17.79	17.79		
14	256QAM	3	0	17.94	17.82	17.74		
14	256QAM	3	1	17.81	17.87	17.81	19	5
14	256QAM	3	2	17.41	17.49	17.43		
14	256QAM	3	5	17.39	17.68	17.68		
14	256QAM	5	0	17.60	17.84	17.67	19	5

### Band 13 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)
Channel								
				762	762	762		
10	QPSK	1	0	22.87	22.87	22.87		
10	QPSK	1	25	22.81	22.81	22.81	24	0
10	QPSK	1	49	22.88	22.88	22.88		
10	QPSK	25	0	21.87	21.87	21.87		
10	QPSK	25	25	21.88	21.88	21.88	23	1
10	QPSK	25	50	21.85	21.85	21.85		
10	16QAM	1	25	21.89	21.89	21.89		
10	16QAM	1	49	21.82	21.82	21.82	23	1
10	16QAM	25	0	20.87	20.87	20.87		
10	16QAM	25	25	20.88	20.88	20.88	22	2
10	16QAM	25	50	20.85	20.85	20.85		
10	64QAM	1	0	20.85	20.78	20.72		
10	64QAM	1	25	21.10	21.10	21.10	22	2
10	64QAM	1	49	20.90	20.90	20.97		
10	64QAM	25	0	19.74	19.74	19.74	21	3
10	64QAM	25	25	19.74	19.74	19.74		
10	64QAM	25	50	19.75	19.75	19.75		
10	256QAM	1	0	17.80	17.80	17.80		
10	256QAM	1	25	17.86	17.86	17.86	19	5
10	256QAM	1	49	18.12	18.12	18.12		
10	256QAM	25	0	17.82	17.82	17.82		
10	256QAM	25	25	17.73	17.84	17.87	19	5
10	256QAM	25	50	17.88	17.75	17.80		
10	256QAM	50	0	17.93	17.92	17.82		
Channel								
				2305	2320	2335		
				778.5	782	784.5		
5	QPSK	1	0	22.90	22.93	22.83		
5	QPSK	1	12	22.97	22.90	22.81	24	0
5	QPSK	12	0	21.81	21.74	21.79		
5	QPSK	12	7	21.78	21.81	21.82	23	1
5	QPSK	12	13	21.67	21.77	21.71		
5	QPSK	25	0	21.68	21.70	21.79		
5	16QAM	1	0	21.74	21.78	21.72		
5	16QAM	1	12	21.74	21.79	21.78	23	1
5	16QAM	1	24	21.59	21.78	21.76		
5	16QAM	12	0	20.88	20.89	20.94		
5	16QAM	12	7	20.89	20.83	20.89	22	2
5	16QAM	12	13	20.80	20.89	20.85		
5	64QAM	1	0	20.77	20.74	20.78		
5	64QAM	1	24	20.75	20.77	20.80	22	2
5	64QAM	12	0	19.79	19.78	19.78		
5	64QAM	12	7	19.80	19.83	19.83	21	3
5	64QAM	12	13	19.58	19.52	19.54		
5	64QAM	25	0	19.71	19.83	19.87		
5	256QAM	1	0	17.84	17.86	17.86		
5	256QAM	1	12	17.92	17.92	17.83	19	5
5	256QAM	1	24	18.00	18.05	18.04		
5	256QAM	12	0	17.70	17.88	17.88		
5	256QAM	12	7	17.80	17.82	17.88	19	5
5	256QAM	12	13	17.84	17.77	17.85		
5	256QAM	25	0	17.70	17.78	17.77		

### Band 17 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)
Channel								
				709	710	711		
10	QPSK	1	0	22.70	22.82	22.75		
10	QPSK	1	25	22.88	22.81	22.74	24	0
10	QPSK	1	49	22.80	22.74	22.60		
10	QPSK	25	0	21.82	21.74	21.86		
10	QPSK	25	25	21.87	21.81	21.83	23	1
10	QPSK	25	50	21.81	21.69	21.87		
10	QPSK	50	0	21.82				



### Band 26 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MPE (dB)
Channel								
Frequency (MHz)				811.5	811.5	811.5		
15	QPSK	1	0	22.86	22.87	22.81	23.5	0
15	QPSK	1	24	22.86	22.77	22.81		
15	QPSK	1	74	22.86	22.73	22.82		
15	QPSK	36	0	21.85	21.84	21.72	23	0.5
15	QPSK	36	24	21.89	21.89	21.88		
15	QPSK	36	39	21.85	21.69	21.59		
15	QPSK	75	0	21.87	21.82	21.55		
15	16QAM	1	0	21.87	21.84	21.69	23	0.5
15	16QAM	1	37	21.55	21.60	21.80		
15	16QAM	1	74	21.88	21.73	21.58		
15	16QAM	36	0	20.81	20.81	20.78		
15	16QAM	36	20	20.85	20.59	20.74	22	1.5
15	16QAM	36	39	20.72	20.81	20.85		
15	16QAM	75	0	20.84	20.75	20.87		
15	64QAM	1	0	20.58	20.61	20.68		
15	64QAM	1	37	20.63	20.39	20.59	22	1.5
15	64QAM	1	74	20.77	20.73	20.81		
15	64QAM	36	0	19.87	19.67	19.71		
15	64QAM	36	20	19.54	19.23	19.55	21	2.5
15	64QAM	36	39	19.87	19.65	19.54		
15	64QAM	75	0	19.49	19.74	19.59		
15	256QAM	1	0	17.77	17.86	17.77	19	4.5
15	256QAM	1	37	17.78	17.78	17.86		
15	256QAM	1	74	17.83	17.84	17.87		
15	256QAM	36	0	17.57	17.75	17.87		
15	256QAM	36	20	17.63	17.77	17.56	19	4.5
15	256QAM	36	39	17.87	17.79	17.84		
15	256QAM	75	0	17.85	17.74	17.85		
Channel								
Frequency (MHz)				819	811.5	814		
10	QPSK	1	0	22.82	22.82	22.77	23.5	0
10	QPSK	1	24	22.86	22.77	22.81		
10	QPSK	1	49	22.87	22.82	22.87		
10	QPSK	25	0	21.53	21.75	21.88	23	0.5
10	QPSK	25	24	21.61	21.61	21.41		
10	QPSK	25	26	21.55	21.61	21.52		
10	16QAM	1	0	21.63	21.61	21.41	23	0.5
10	16QAM	1	26	21.57	21.61	21.46		
10	16QAM	1	28	21.48	21.48	21.51		
10	16QAM	12	0	20.57	20.70	20.75	22	1.5
10	16QAM	12	7	20.48	20.53	20.69		
10	16QAM	12	12	20.66	20.66	20.66		
10	16QAM	50	0	20.59	20.52	20.81		
10	64QAM	1	0	20.82	20.75	20.57	22	1.5
10	64QAM	1	24	20.79	20.36	20.86		
10	64QAM	1	49	20.70	20.72	20.57		
10	64QAM	25	0	19.85	19.88	19.66	21	2.5
10	64QAM	25	12	19.45	19.58	19.41		
10	64QAM	25	25	19.47	19.58	19.40		
10	64QAM	50	0	19.35	19.68	19.46		
10	256QAM	1	25	17.75	17.65	17.75	19	4.5
10	256QAM	1	49	17.84	17.66	17.81		
10	256QAM	36	0	17.63	17.68	17.48		
10	256QAM	36	20	17.52	17.70	17.51	19	4.5
10	256QAM	25	25	17.59	17.75	17.59		
10	256QAM	75	0	17.40	17.48	17.48		
Channel								
Frequency (MHz)				819.5	811.5	814.5		
5	QPSK	1	0	22.15	22.21	22.13	23.5	0
5	QPSK	1	14	22.54	22.68	22.71		
5	QPSK	1	24	22.80	22.84	22.58		
5	QPSK	12	0	21.83	21.83	21.40	23	0.5
5	QPSK	12	13	21.80	21.81	21.83		
5	QPSK	36	0	21.89	21.68	21.44		
5	16QAM	1	0	21.59	21.52	21.50	23	0.5
5	16QAM	1	14	21.48	21.48	21.48		
5	16QAM	1	49	21.59	21.65	21.48		
5	16QAM	12	0	20.78	20.73	20.72	22	1.5
5	16QAM	12	7	20.45	20.55	20.66		
5	16QAM	12	12	20.66	20.66	20.66		
5	64QAM	1	0	20.52	20.72	20.59	22	1.5
5	64QAM	1	24	20.76	20.52	20.83		
5	64QAM	1	24	20.68	20.70	20.77		
5	64QAM	12	0	19.54	19.61	19.56		
5	64QAM	12	7	19.43	19.43	19.44		
5	64QAM	12	12	19.44	19.48	19.45		
5	64QAM	25	0	19.41	19.62	19.47		
5	256QAM	1	25	17.68	17.63	17.63	19	4.5
5	256QAM	1	49	17.89	17.71	17.73		
5	256QAM	1	24	17.86	17.86	17.77		
5	256QAM	36	0	17.58	17.68	17.49		
5	256QAM	36	20	17.63	17.68	17.46	19	4.5
5	256QAM	25	25	17.53	17.70	17.58		
5	256QAM	75	0	17.41	17.68	17.53		
Channel								
Frequency (MHz)				869.5	869.5	870.5		
3	QPSK	1	0	22.54	22.74	22.5	23.5	0
3	QPSK	1	8	22.85	22.81	22.76		
3	QPSK	1	14	22.85	22.86	22.48		
3	QPSK	3	0	21.81	21.74	21.66	23	0.5
3	QPSK	3	4	21.80	21.58	21.37		
3	QPSK	8	7	21.89	21.87	21.44		
3	16QAM	1	0	21.82	21.68	21.45	23	0.5
3	16QAM	1	8	21.80	21.51	21.49		
3	16QAM	3	0	20.83	20.82	20.57	22	1.5
3	16QAM	3	4	20.74	20.71	20.85		
3	16QAM	8	0	20.54	20.59	20.69		
3	64QAM	1	0	20.76	20.34	20.95	22	1.5
3	64QAM	1	14	20.71	20.71	20.73		
3	64QAM	3	0	19.83	19.82	19.85	21	2.5
3	64QAM	3	4	19.43	19.43	19.44		
3	64QAM	8	7	19.46	19.50	19.46		
3	64QAM	15	0	19.39	19.62	19.45		
3	256QAM	1	0	17.84	17.83	17.68	19	4.5
3	256QAM	1	8	17.85	17.68	17.80		
3	256QAM	1	14	17.86	17.86	17.75		
3	256QAM	3	0	17.81	17.84	17.47		
3	256QAM	3	4	17.89	17.72	17.43	19	4.5
3	256QAM	8	7	17.53	17.76	17.52		
3	256QAM	15	0	17.40	17.64	17.53		
Channel								
Frequency (MHz)				874.7	874.7	874.7		
1.4	QPSK	1	0	22.82	22.73	22.82	23.5	0
1.4	QPSK	1	3	22.58	22.83	22.73		
1.4	QPSK	1	5	22.85	22.60	22.58		
1.4	QPSK	1	8	22.82	22.78	22.88		
1.4	QPSK	3	1	22.53	22.60	22.72	23	0.5
1.4	QPSK	3	3	22.53	22.65	22.49		
1.4	16QAM	1	0	21.80	21.80	21.81	23	0.5
1.4	16QAM	1	3	21.58	21.64	21.49		
1.4	16QAM	1	5	21.58	21.68	21.49		
1.4	16QAM	3	0	21.57	21.58	21.48	23	0.5
1.4	16QAM	3	1	21.45	21.52	21.85		
1.4	16QAM	3	3	21.58	21.64	21.44		
1.4	16QAM	6	0	20.74	20.72	20.66	22	1.5
1.4	64QAM	1	0	20.49	20.39	20.66	22	1.5
1.4	64QAM	1	8	20.88	20.83	20.59		
1.4	64QAM	1	5	20.59	20.66	20.52	22	1.5
1.4	64QAM	3	0	20.53	20.29	20.58		
1.4	64QAM	3	1	20.70	20.63	20.91		
1.4	64QAM	3	3	20.71	20.74	20.75		
1.4	64QAM	8	0	19.87	19.69	19.69	21	2.5
1.4	256QAM	1	0	17.72	17.88	17.69	19	4.5
1.4	256QAM	1	3	17.85	17.83	17.79		
1.4	256QAM	1	5	17.79	17.77	17.86		
1.4	256QAM	3	0	17.65	17.88	17.47	19	4.5
1.4	256QAM	3	1	17.89	17.74	17.51		
1.4	256QAM	3	3	17.82	17.68	17.58		
1.4	256QAM	8	0	17.38	17.53	17.51	19	4.5

### Band 66 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MPE (dB)
Channel								
Frequency (MHz)				1700	1745	1775		
20	QPSK	1	0	15.32	15.30	15.25	16	0
20	QPSK	1	49	15.28	15.32	15.20		
20	QPSK	1	99	15.24	15.28	15.17		
20	QPSK	50	0	15.25	15.34	15.26		
20	QPSK	50	24	15.23	15.30</			



Band 38 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150	20.7	0		
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.88	20.00	19.95				
20	QPSK	1	49	19.72	19.81	19.73	20.7	0		
20	QPSK	1	99	19.66	19.75	19.70				
20	QPSK	50	0	19.90	19.95	19.78				
20	QPSK	50	24	19.78	19.86	19.74	20.7	0		
20	QPSK	50	50	19.62	19.68	19.56				
20	QPSK	100	0	19.75	19.79	19.66				
20	16QAM	1	0	19.73	19.75	19.57	20.7	0		
20	16QAM	1	49	19.61	19.74	19.70				
20	16QAM	1	99	19.64	19.71	19.64				
20	16QAM	50	0	19.63	19.77	19.74	20.7	0		
20	16QAM	50	24	19.59	19.73	19.68				
20	16QAM	50	50	19.61	19.77	19.71				
20	16QAM	100	0	19.55	19.69	19.60	20.7	0		
20	84QAM	1	0	19.66	19.69	19.58				
20	84QAM	1	49	19.64	19.75	19.67				
20	84QAM	1	99	19.62	19.65	19.66	20.7	0		
20	84QAM	50	0	19.65	19.73	19.61				
20	84QAM	50	24	19.66	19.70	19.58				
20	84QAM	50	50	19.73	19.74	19.75	20.7	0		
20	84QAM	100	0	19.56	19.67	19.64				
20	256QAM	1	0	18.23	18.33	18.24				
20	256QAM	1	49	18.28	18.30	18.36	19	1.7		
20	256QAM	1	99	18.37	18.28	18.34				
20	256QAM	50	0	18.25	18.18	18.07				
20	256QAM	50	24	18.01	18.28	18.12	19	1.7		
20	256QAM	50	50	18.11	18.17	18.15				
20	256QAM	100	0	18.08	18.21	18.14				
Channel				37825	38000	38175	20.7	0		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.80	19.95	19.87				
15	QPSK	1	37	19.68	19.78	19.68	20.7	0		
15	QPSK	1	74	19.57	19.68	19.66				
15	QPSK	36	0	19.87	19.90	19.69				
15	QPSK	36	20	19.74	19.81	19.71	20.7	0		
15	QPSK	36	39	19.56	19.64	19.50				
15	QPSK	75	0	19.72	19.73	19.60				
15	16QAM	1	0	19.68	19.69	19.52	20.7	0		
15	16QAM	1	37	19.54	19.70	19.66				
15	16QAM	1	74	19.57	19.67	19.60				
15	16QAM	36	0	19.57	19.71	19.69	20.7	0		
15	16QAM	36	20	19.54	19.70	19.61				
15	16QAM	36	39	19.53	19.73	19.66				
15	16QAM	75	0	19.52	19.61	19.53	20.7	0		
15	84QAM	1	0	19.58	19.63	19.50				
15	84QAM	1	37	19.56	19.69	19.63				
15	84QAM	1	74	19.54	19.59	19.60	20.7	0		
15	84QAM	36	0	19.61	19.67	19.52				
15	84QAM	36	20	19.63	19.66	19.49				
15	84QAM	36	39	19.65	19.67	19.66	20.7	0		
15	84QAM	75	0	19.53	19.58	19.58				
15	256QAM	1	0	18.16	18.27	18.16				
15	256QAM	1	37	18.22	18.24	18.30	19	1.7		
15	256QAM	1	74	18.29	18.22	18.29				
15	256QAM	36	0	18.18	18.12	17.99				
15	256QAM	36	20	17.93	18.21	18.08	19	1.7		
15	256QAM	36	39	18.03	18.11	18.08				
15	256QAM	75	0	18.01	18.14	18.10				
Channel				37800	38000	38200	20.7	0		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.85	19.96	19.91				
10	QPSK	1	25	19.66	19.75	19.69	20.7	0		
10	QPSK	1	49	19.61	19.70	19.66				
10	QPSK	25	0	19.87	19.89	19.70				
10	QPSK	25	12	19.73	19.81	19.71	20.7	0		
10	QPSK	25	25	19.59	19.61	19.47				
10	QPSK	50	0	19.68	19.70	19.61				
10	16QAM	1	0	19.65	19.71	19.48	20.7	0		
10	16QAM	1	25	19.58	19.68	19.66				
10	16QAM	1	49	19.59	19.65	19.58				
10	16QAM	25	0	19.55	19.73	19.71	20.7	0		
10	16QAM	25	12	19.54	19.66	19.60				
10	16QAM	25	25	19.54	19.72	19.67				
10	16QAM	50	0	19.48	19.61	19.57	20.7	0		
10	84QAM	1	0	19.58	19.61	19.50				
10	84QAM	1	25	19.60	19.70	19.62				
10	84QAM	1	49	19.54	19.59	19.58	20.7	0		
10	84QAM	25	0	19.59	19.64	19.58				
10	84QAM	25	12	19.63	19.63	19.53				
10	84QAM	25	25	19.70	19.69	19.70	20.7	0		
10	84QAM	50	0	19.52	19.63	19.61				
10	256QAM	1	0	18.14	18.24	18.19				
10	256QAM	1	25	18.25	18.24	18.29	19	1.7		
10	256QAM	1	49	18.28	18.23	18.31				
10	256QAM	25	0	18.21	18.10	17.99				
10	256QAM	25	12	17.96	18.20	18.09	19	1.7		
10	256QAM	25	25	18.07	18.13	18.08				
10	256QAM	50	0	18.01	18.15	18.10				
Channel				37775	38000	38225	20.7	0		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.84	19.96	19.88				
5	QPSK	1	12	19.69	19.77	19.69	20.7	0		
5	QPSK	1	24	19.60	19.68	19.64				
5	QPSK	12	0	19.84	19.89	19.71				
5	QPSK	12	7	19.73	19.80	19.66	20.7	0		
5	QPSK	12	13	19.57	19.60	19.49				
5	QPSK	25	0	19.71	19.70	19.61				
5	16QAM	1	0	19.65	19.70	19.52	20.7	0		
5	16QAM	1	12	19.56	19.69	19.62				
5	16QAM	1	24	19.58	19.65	19.58				
5	16QAM	12	0	19.59	19.72	19.66	20.7	0		
5	16QAM	12	7	19.55	19.66	19.62				
5	16QAM	12	13	19.54	19.71	19.64				
5	16QAM	25	0	19.50	19.61	19.52	20.7	0		
5	84QAM	1	0	19.61	19.60	19.52				
5	84QAM	1	12	19.58	19.69	19.61				
5	84QAM	1	24	19.54	19.61	19.59	20.7	0		
5	84QAM	12	0	19.59	19.69	19.57				
5	84QAM	12	7	19.61	19.65	19.50				
5	84QAM	12	13	19.68	19.70	19.69	20.7	0		
5	84QAM	25	0	19.50	19.64	19.57				
5	256QAM	1	0	18.17	18.28	18.21				
5	256QAM	1	12	18.22	18.25	18.29	19	1.7		
5	256QAM	1	24	18.33	18.21	18.29				
5	256QAM	12	0	18.20	18.13	18.00				
5	256QAM	12	7	17.98	18.25	18.05	19	1.7		
5	256QAM	12	13	18.06	18.12	18.11				
5	256QAM	25	0	18.00	18.15	18.06				

Band 38 HPUE Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150	22.3	0		
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.61	21.78	21.68				
20	QPSK	1	49	21.56	21.71	21.58	22.3	0		
20	QPSK	1	99	21.57	21.65	21.52				
20	QPSK	50	0	21.63	21.74	21.58				
20	QPSK	50	24	21.54	21.72	21.62	22.3	0		
20	QPSK	50	50	21.48	21.57	21.44				
20	QPSK	100	0	21.53	21.63	21.53				
20	16QAM	1	0	21.43	21.55	21.46	22.3	0		
20	16QAM	1	49	21.48	21.55	21.48				
20	16QAM	1	99	21.43	21.50	21.40				
20	16QAM	50	0	21.46	21.61	21.50	22.3	0		
20	16QAM	50	24	21.48	21.56	21.44				
20	16QAM	50	50	21.42	21.56	21.45				
20	16QAM	100	0	21.47	21.58	21.43	22.3	0		
20	84QAM	1	0	21.44	21.59	21.40				
20	84QAM	1	49	21.48	21.60	21.51				

## Band 41 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.97	19.93	20.03	20.00	19.88	20.7	0
20	QPSK	1	49	19.81	19.80	19.89	19.81	19.82		
20	QPSK	1	99	19.68	19.75	19.82	19.77	19.69		
20	QPSK	50	0	19.85	19.95	19.99	19.86	19.91		
20	QPSK	50	24	19.81	19.85	19.92	19.80	19.89		
20	QPSK	50	50	19.67	19.67	19.73	19.64	19.69	20.7	0
20	QPSK	100	0	19.70	19.78	19.84	19.73	19.80		
20	16QAM	1	0	19.67	19.78	19.81	19.66	19.77		
20	16QAM	1	49	19.68	19.66	19.80	19.75	19.72	20.7	0
20	16QAM	1	99	19.72	19.73	19.78	19.71	19.68		
20	16QAM	50	0	19.78	19.69	19.82	19.77	19.76		
20	16QAM	50	24	19.72	19.66	19.79	19.72	19.74	20.7	0
20	16QAM	50	50	19.77	19.69	19.81	19.75	19.72		
20	16QAM	100	0	19.58	19.62	19.73	19.67	19.68		
20	64QAM	1	0	19.63	19.72	19.75	19.63	19.69		
20	64QAM	1	49	19.74	19.69	19.82	19.76	19.72	20.7	0
20	64QAM	1	99	19.67	19.68	19.74	19.70	19.66		
20	64QAM	50	0	19.66	19.68	19.79	19.65	19.74		
20	64QAM	50	24	19.62	19.69	19.76	19.62	19.71	20.7	0
20	64QAM	50	50	19.69	19.77	19.81	19.78	19.76		
20	64QAM	100	0	19.64	19.67	19.74	19.69	19.68		
20	256QAM	1	0	18.17	18.30	18.41	18.31	18.18	19	1.7
20	256QAM	1	49	18.25	18.32	18.34	18.41	18.28		
20	256QAM	1	99	18.36	18.43	18.32	18.41	18.37		
20	256QAM	50	0	18.23	18.29	18.25	18.13	18.17	19	1.7
20	256QAM	50	24	18.09	18.10	18.37	18.18	18.15		
20	256QAM	50	50	18.11	18.19	18.22	18.23	18.12		
20	256QAM	100	0	18.20	18.16	18.29	18.20	17.99		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.89	19.81	19.92	19.89	19.73	21	0
15	QPSK	1	37	19.72	19.71	19.75	19.75	19.67		
15	QPSK	1	74	19.65	19.65	19.79	19.66	19.54		
15	QPSK	36	0	19.72	19.84	19.85	19.81	19.78	20.7	0
15	QPSK	36	20	19.71	19.73	19.87	19.68	19.75		
15	QPSK	36	39	19.60	19.56	19.63	19.49	19.60		
15	QPSK	75	0	19.63	19.64	19.75	19.63	19.76		
15	16QAM	1	0	19.56	19.74	19.66	19.61	19.68	20.7	0
15	16QAM	1	37	19.63	19.62	19.66	19.69	19.66		
15	16QAM	1	74	19.67	19.62	19.71	19.64	19.55		
15	16QAM	36	0	19.63	19.59	19.79	19.72	19.71	20.7	0
15	16QAM	36	20	19.59	19.55	19.67	19.62	19.60		
15	16QAM	36	39	19.72	19.56	19.76	19.62	19.59		
15	16QAM	75	0	19.45	19.58	19.64	19.57	19.59		
15	64QAM	1	0	19.49	19.62	19.67	19.50	19.54	20.7	0
15	64QAM	1	37	19.70	19.56	19.71	19.70	19.63		
15	64QAM	1	74	19.57	19.56	19.65	19.58	19.58		
15	64QAM	36	0	19.55	19.56	19.72	19.61	19.63	20.7	0
15	64QAM	36	20	19.51	19.64	19.72	19.56	19.57		
15	64QAM	36	39	19.61	19.68	19.75	19.67	19.65		
15	64QAM	75	0	19.60	19.46	19.70	19.62	19.56		
15	256QAM	1	0	18.05	18.15	18.35	18.20	18.10	19	1.7
15	256QAM	1	37	18.21	18.21	18.20	18.31	18.13		
15	256QAM	1	74	18.30	18.37	18.21	18.30	18.27		
15	256QAM	36	0	18.15	18.18	18.14	18.01	18.13	19	1.7
15	256QAM	36	20	17.95	17.98	18.27	18.04	18.04		
15	256QAM	36	39	18.06	18.12	18.17	18.14	18.07		
15	256QAM	75	0	18.06	18.05	18.18	18.14	17.89		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.87	19.78	19.89	19.88	19.82	20.7	0
10	QPSK	1	25	19.76	19.68	19.77	19.76	19.72		
10	QPSK	1	49	19.65	19.72	19.72	19.71	19.63		
10	QPSK	25	0	19.75	19.89	19.93	19.72	19.78	20.7	0
10	QPSK	25	12	19.72	19.73	19.85	19.65	19.80		
10	QPSK	25	25	19.63	19.57	19.67	19.54	19.60		
10	QPSK	50	0	19.58	19.68	19.81	19.63	19.72		
10	16QAM	1	0	19.55	19.75	19.66	19.58	19.66	20.7	0
10	16QAM	1	25	19.64	19.61	19.74	19.71	19.59		
10	16QAM	1	49	19.64	19.68	19.65	19.64	19.59		
10	16QAM	25	0	19.72	19.64	19.67	19.73	19.62	20.7	0
10	16QAM	25	12	19.61	19.57	19.67	19.58	19.62		
10	16QAM	25	25	19.70	19.64	19.68	19.61	19.62		
10	16QAM	50	0	19.44	19.49	19.65	19.59	19.64		
10	64QAM	1	0	19.55	19.69	19.61	19.60	19.55	20.7	0
10	64QAM	1	25	19.69	19.55	19.68	19.73	19.66		
10	64QAM	1	49	19.80	19.60	19.63	19.57	19.62		
10	64QAM	25	0	19.54	19.53	19.70	19.52	19.63	20.7	0
10	64QAM	25	12	19.55	19.61	19.66	19.49	19.66		
10	64QAM	25	25	19.58	19.68	19.71	19.74	19.65		
10	64QAM	50	0	19.49	19.56	19.65	19.61	19.56		
10	256QAM	1	0	18.14	18.18	18.28	18.24	18.04	19	1.7
10	256QAM	1	25	18.11	18.24	18.23	18.33	18.23		
10	256QAM	1	49	18.27	18.37	18.27	18.34	18.30		
10	256QAM	25	0	18.08	18.21	18.13	18.05	18.11	19	1.7
10	256QAM	25	12	17.98	18.02	18.32	18.15	18.08		
10	256QAM	25	25	17.96	18.15	18.12	18.13	18.05		
10	256QAM	50	0	18.16	18.02	18.23	18.10	17.96		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.89	19.87	19.94	19.89	19.82	20.70	0
5	QPSK	1	12	19.68	19.77	19.78	19.66	19.79		
5	QPSK	1	24	19.63	19.67	19.79	19.69	19.60		
5	QPSK	12	0	19.73	19.90	19.94	19.72	19.77	20.7	0
5	QPSK	12	7	19.67	19.77	19.82	19.68	19.80		
5	QPSK	12	13	19.52	19.55	19.59	19.56	19.55		
5	QPSK	25	0	19.65	19.65	19.77	19.66	19.67		
5	16QAM	1	0	19.59	19.70	19.72	19.52	19.67	20.7	0
5	16QAM	1	12	19.53	19.56	19.69	19.62	19.58		
5	16QAM	1	24	19.63	19.66	19.70	19.66	19.55		
5	16QAM	12	0	19.71	19.58	19.77	19.74	19.63	20.7	0
5	16QAM	12	7	19.67	19.63	19.67	19.64	19.71		
5	16QAM	12	13	19.74	19.59	19.70	19.67	19.63		
5	16QAM	25	0	19.53	19.52	19.59	19.64	19.60	20.7	0
5	64QAM	1	0	19.56	19.69	19.63	19.56	19.54		
5	64QAM	1	12	19.64	19.62	19.67	19.65	19.57	20.7	0
5	64QAM	1	24	19.57	19.56	19.65	19.67	19.61		
5	64QAM	12	0	19.57	19.53	19.74	19.59	19.66	20.7	0
5	64QAM	12	7	19.56	19.55	19.66	19.58	19.59		
5	64QAM	12	13	19.55	19.64	19.78	19.71	19.71		
5	64QAM	25	0	19.51	19.54	19.63	19.64	19.57		
5	256QAM	1	0	18.09	18.25	18.30	18.23	18.05	19	1.7
5	256QAM	1	12	18.14	18.20	18.25	18.29	18.18		

GSM850 Ant1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8	33.50	23.86	23.94	23.91	24.50
GSM 1 Tx slot	32.86	32.84	32.91	33.50	23.84	23.92	23.77	24.50
GPRS 1 Tx slot	32.84	32.92	32.77	33.50	23.84	23.92	23.77	24.50
GPRS 2 Tx slots	30.15	30.29	30.17	31.00	24.15	24.29	24.17	25.00
GPRS 3 Tx slots	28.62	28.74	28.64	29.50	24.36	24.48	24.38	25.24
GPRS 4 Tx slots	26.68	26.76	26.69	28.00	23.68	23.76	23.69	25.00
EDGE 1 Tx slot	25.82	25.93	25.86	27.00	16.82	16.93	16.86	18.00
EDGE 2 Tx slots	25.06	25.13	24.99	26.00	19.06	19.13	18.99	20.00
EDGE 3 Tx slots	23.34	23.41	23.27	24.50	19.08	19.15	19.01	20.24
EDGE 4 Tx slots	21.68	21.81	21.70	23.00	18.68	18.81	18.70	20.00

GSM1900 Ant1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8	28.80	16.42	16.49	16.46	17.80
GSM 1 Tx slot	25.42	25.49	25.46	28.80	16.42	16.49	16.46	17.80
GPRS 1 Tx slot	25.36	25.45	25.31	26.80	16.36	16.45	16.31	17.80
GPRS 2 Tx slots	22.46	22.57	22.50	23.80	16.46	16.57	16.50	17.80
GPRS 3 Tx slots	20.77	20.85	20.80	22.00	16.51	16.59	16.54	17.74
GPRS 4 Tx slots	19.28	19.41	19.31	20.80	16.28	16.41	16.31	17.80
EDGE 1 Tx slot	24.10	24.16	24.11	25.00	15.10	15.16	15.11	16.00
EDGE 2 Tx slots	22.56	22.68	22.57	23.80	16.56	16.68	16.57	17.80
EDGE 3 Tx slots	20.71	20.80	20.65	22.00	16.45	16.54	16.39	17.74
EDGE 4 Tx slots	19.59	19.62	19.48	20.80	16.59	16.62	16.48	17.80

Band	WCDMA II Ant1			Tune-up Limit (dBm)	WCDMA IV Ant1			Tune-up Limit (dBm)	WCDMA V Ant1			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
Frequency (MHz)	9662	9800	9938	17.12.4	1732.6	1752.6	1752.6	4357	4407	4468	826.4	836.4	846.6
3GPP Rel 99	AMR 12.2Kbps	17.21	17.29	17.17	18.70	17.14	17.22	17.13	18.40	23.34	23.38	23.30	24.00
3GPP Rel 99	RMC 12.2Kbps	17.31	17.35	17.24	18.70	17.23	17.27	17.11	18.40	23.37	23.42	23.35	24.00
3GPP Rel 6	HSDPA Subtest-1	16.29	16.28	16.17	17.70	16.23	16.25	16.13	17.40	22.29	22.37	22.27	23.00
3GPP Rel 6	HSDPA Subtest-2	16.33	16.39	16.04	17.70	16.20	16.32	15.99	17.40	22.29	22.43	22.13	23.00
3GPP Rel 6	HSDPA Subtest-3	15.80	15.90	15.88	17.20	15.65	15.84	15.78	16.90	21.81	21.91	21.79	22.50
3GPP Rel 6	HSDPA Subtest-4	15.80	15.89	15.78	17.20	15.57	15.85	15.74	16.90	21.73	21.86	21.94	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	16.23	16.32	16.23	17.70	16.14	16.25	16.14	17.40	22.33	22.38	22.23	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	16.29	16.27	16.32	17.70	16.26	16.17	16.19	17.40	22.32	22.33	22.33	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	15.58	15.76	15.59	17.20	15.50	15.61	15.44	16.90	21.70	21.83	21.72	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	15.56	15.85	15.67	17.20	15.44	15.71	15.60	16.90	21.57	21.89	21.65	22.50
3GPP Rel 6	HSUPA Subtest-1	16.26	16.32	16.33	17.70	16.13	16.18	16.20	17.40	22.33	22.35	22.37	23.00
3GPP Rel 6	HSUPA Subtest-2	14.42	14.46	14.34	15.70	14.29	14.37	14.27	15.40	20.47	20.49	20.34	21.00
3GPP Rel 6	HSUPA Subtest-3	15.33	15.34	15.21	16.70	15.22	15.22	15.14	16.40	21.48	21.32	21.27	22.00
3GPP Rel 6	HSUPA Subtest-4	14.19	14.44	14.37	15.70	14.11	14.38	14.28	15.40	20.18	20.42	20.43	21.00
3GPP Rel 6	HSUPA Subtest-5	16.21	16.27	16.13	17.70	16.14	16.18	16.03	17.40	22.24	22.37	22.24	23.00



Band 2 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.50	17.50	17.47			
20	QPSK	1	49	17.36	17.45	17.38	18.8	0	
20	QPSK	50	0	17.41	17.50	17.35			
20	QPSK	50	24	17.34	17.44	17.29			
20	QPSK	50	50	17.37	17.42	17.29	18.8	0	
20	QPSK	100	0	17.33	17.48	17.36			
20	QPSK	100	0	17.34	17.42	17.29			
20	HQAM	1	49	17.35	17.44	17.27	18.8	0	
20	HQAM	1	99	17.23	17.36	17.25			
20	HQAM	50	0	17.27	17.39	17.29			
20	HQAM	50	24	17.32	17.42	17.34	18.8	0	
20	HQAM	50	50	17.34	17.41	17.32			
20	HQAM	100	0	17.31	17.38	17.28			
20	HQAM	1	0	17.34	17.45	17.35	18.8	0	
20	HQAM	1	49	17.40	17.42	17.36			
20	HQAM	50	0	17.35	17.42	17.31			
20	HQAM	50	24	17.29	17.39	17.26	18.8	0	
20	HQAM	50	50	17.32	17.41	17.32			
20	HQAM	100	0	17.32	17.45	17.35			
20	HQAM	1	49	16.73	16.81	16.79	18	0.8	
20	HQAM	1	99	16.77	16.84	16.73			
20	HQAM	50	0	16.73	16.79	16.70			
20	HQAM	50	24	16.87	16.89	16.89	18	0.8	
20	HQAM	50	50	16.78	16.77	16.83			
20	HQAM	100	0	16.75	16.79	16.80			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.42	17.50	17.29			
15	QPSK	1	37	17.38	17.44	17.27	18.8	0	
15	QPSK	1	74	17.36	17.41	17.31			
15	QPSK	36	0	17.33	17.42	17.26			
15	QPSK	36	20	17.20	17.36	17.33	18.8	0	
15	QPSK	36	36	17.29	17.34	17.22			
15	QPSK	75	0	17.26	17.44	17.31			
15	QPSK	75	0	17.26	17.36	17.22			
15	HQAM	1	37	17.29	17.35	17.20	18.8	0	
15	HQAM	1	74	16.87	16.91	16.87			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	17.36	17.21			
15	HQAM	36	0	17.20	17.31	17.22			
15	HQAM	36	20	17.24	17.39	17.29	18.8	0	
15	HQAM	36	36	17.26	17.32	17.26			
15	HQAM	75	0	17.26	17.33	17.29			
15	HQAM	1	0	17.26	17.37	17.28	18.8	0	
15	HQAM	1	37	17.23	1				



Band 7 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)		2510	2510	2560					
20	QPSK	1	0	14.95	15.10	14.94			
20	QPSK	1	49	14.94	14.88	14.83	16.5	0	
20	QPSK	1	99	14.94	14.88	14.83			
20	QPSK	50	0	14.95	15.03	14.84			
20	QPSK	50	24	14.95	14.89	14.83	16.5	0	
20	QPSK	50	50	14.91	14.85	14.88			
20	QPSK	100	0	14.94	14.96	14.86			
20	HQAM	1	0	14.72	14.92	14.86			
20	HQAM	1	49	14.70	14.87	14.80	16.5	0	
20	HQAM	1	99	14.68	14.84	14.82			
20	HQAM	50	0	14.92	14.88	14.84			
20	HQAM	50	24	14.79	14.96	14.75	16.5	0	
20	HQAM	50	50	14.74	14.91	14.86			
20	HQAM	100	0	14.80	14.90	14.82			
20	HQAM	1	0	14.90	14.87	14.74			
20	HQAM	1	49	14.85	14.92	14.75	16.5	0	
20	HQAM	1	99	14.72	14.89	14.71			
20	HQAM	50	24	14.76	14.98	14.81	16.5	0	
20	HQAM	50	50	14.72	14.91	14.74			
20	HQAM	100	0	14.85	14.75	14.83			
20	SSBQAM	1	49	14.86	14.86	14.87	16.5	0	
20	SSBQAM	1	99	14.86	14.88	14.75			
20	SSBQAM	1	99	14.78	14.91	14.74			
20	SSBQAM	50	0	14.72	14.82	14.83			
20	SSBQAM	50	24	14.81	14.79	14.80	16.5	0	
20	SSBQAM	50	50	14.84	14.87	14.89			
20	SSBQAM	100	0	14.87	14.92	14.85			
Channel									
Frequency (MHz)		2507.5	2535	2562.5					
15	QPSK	1	0	14.88	15.03	14.85			
15	QPSK	1	49	14.77	14.95	14.73	16.5	0	
15	QPSK	1	99	14.81	14.74	14.72			
15	QPSK	50	0	14.87	14.90	14.70			
15	QPSK	50	24	14.68	14.97	14.62	16.5	0	
15	QPSK	50	50	14.81	14.81	14.77			
15	QPSK	75	0	14.81	14.88	14.75			
15	HQAM	1	0	14.63	14.88	14.81			
15	HQAM	1	37	14.58	14.74	14.51	16.5	0	
15	HQAM	1	74	14.67	14.84	14.75			
15	HQAM	36	0	14.80	14.93	14.58			
15	HQAM	36	20	14.68	14.91	14.62	16.5	0	
15	HQAM	36	50	14.69	14.79	14.73			
15	HQAM	75	0	14.75	14.81	14.71			
15	HQAM	1	0	14.76	14.82	14.69			
15	HQAM	1	37	14.77	14.89	14.73	16.5	0	
15	HQAM	1	74	14.67	14.82	14.75			
15	HQAM	36	0	14.78	14.88	14.70			
15	HQAM	36	20	14.62	14.79	14.73	16.5	0	
15	HQAM	36	50	14.63	14.87	14.61			
15	HQAM	75	0	14.74	14.72	14.69			
15	HQAM	1	0	14.76	14.86	14.81			
15	SSBQAM	1	37	14.80	14.78	14.70	16.5	0	
15	SSBQAM	1	74	14.72	14.85	14.62			
15	SSBQAM	50	0	14.74	14.89	14.86			
15	SSBQAM	50	20	14.48	14.72	14.69	16.5	0	
15	SSBQAM	50	39	14.65	14.74	14.75			
15	SSBQAM	75	0	14.63	14.74	14.75			
Channel									
Frequency (MHz)		2508.0	2510.0	2514.0					
10	QPSK	1	0	14.67	14.99	14.83			
10	QPSK	1	25	14.76	14.80	14.79	16.5	0	
10	QPSK	1	49	14.88	14.79	14.78			
10	QPSK	25	0	14.99	14.97	14.89			
10	QPSK	25	12	14.87	14.97	14.79	16.5	0	
10	QPSK	25	25	14.88	14.79	14.78			
10	HQAM	1	0	14.70	14.78	14.80			
10	HQAM	1	0	14.57	14.92	14.59			
10	HQAM	1	25	14.80	14.77	14.84	16.5	0	
10	HQAM	1	49	14.64	14.86	14.81			
10	HQAM	25	0	14.83	14.90	14.84			
10	HQAM	25	12	14.88	14.87	14.64	16.5	0	
10	HQAM	25	25	14.87	14.82	14.88			
10	HQAM	50	0	14.76	14.82	14.73			
10	HQAM	1	0	14.78	14.81	14.63			
10	HQAM	1	25	14.76	14.70	14.71	16.5	0	
10	HQAM	1	49	14.87	14.76	14.74			
10	HQAM	25	0	14.75	14.80	14.63			
10	HQAM	25	12	14.74	14.85	14.75	16.5	0	
10	HQAM	25	25	14.83	14.87	14.69			
10	HQAM	50	0	14.78	14.83	14.74			
10	SSBQAM	1	25	14.73	14.73	14.69	16.5	0	
10	SSBQAM	1	49	14.72	14.79	14.68			
10	SSBQAM	50	0	14.68	14.82	14.65			
10	SSBQAM	25	12	14.87	14.89	14.72	16.5	0	
10	SSBQAM	25	25	14.49	14.76	14.70			
10	SSBQAM	50	0	14.70	14.74	14.70			
Channel									
Frequency (MHz)		2507.5	2510.0	2514.0					
5	QPSK	1	0	14.87	14.99	14.83			
5	QPSK	1	12	14.72	14.90	14.80	16.5	0	
5	QPSK	1	24	14.88	14.75	14.80			
5	QPSK	12	0	14.85	14.95	14.71			
5	QPSK	12	7	14.74	14.93	14.87	16.5	0	
5	HQAM	1	0	14.58	14.81	14.85			
5	HQAM	1	12	14.65	14.83	14.82	16.5	0	
5	HQAM	1	24	14.63	14.71	14.77			
5	HQAM	12	0	14.80	14.91	14.66			
5	HQAM	12	7	14.75	14.91	14.71	16.5	0	
5	HQAM	12	13	14.62	14.84	14.82			
5	HQAM	25	0	14.71	14.81	14.78			
5	HQAM	1	0	14.81	14.78	14.66			
5	HQAM	1	12	14.81	14.79	14.61	16.5	0	
5	HQAM	1	24	14.84	14.81	14.72			
5	HQAM	12	0	14.73	14.89	14.72			
5	HQAM	12	7	14.64	14.78	14.77	16.5	0	
5	HQAM	12	13	14.68	14.86	14.68			
5	HQAM	25	0	14.81	14.72	14.71			
5	SSBQAM	1	0	14.71	14.78	14.80			
5	SSBQAM	1	12	14.81	14.79	14.63	16.5	0	
5	SSBQAM	1	24	14.60	14.77	14.64			
5	SSBQAM	12	0	14.70	14.84	14.56			
5	SSBQAM	12	7	14.46	14.73	14.67	16.5	0	
5	SSBQAM	25	0	14.71	14.78	14.78			

Band 2 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)		704	707.5	711					
10	QPSK	1	0	22.87	23.09	23.04			
10	QPSK	1	25	22.83	23.06	23.03	24	0	
10	QPSK	1	49	22.84	23.05	23.03			
10	QPSK	25	0	22.88	22.15	21.95			
10	QPSK	25	12	22.83	22.06	21.96	23	1	
10	QPSK	25	25	22.10	22.12	21.92			
10	QPSK	50	0	21.94	22.11	21.92			
10	HQAM	1	0	22.04	22.02	22.02			
10	HQAM	1	25	21.90	22.03	21.97	23	1	
10	HQAM	1	49	22.02	22.08	22.01			
10	HQAM	1	49	21.98	22.22	21.98			
10	HQAM	25	12	21.13	21.10	21.08	22	2	
10	HQAM	25	25	20.95	21.20	21.08			
10	HQAM	50	0	20.95	21.10	20.97			
10	HQAM	1	0	21.10	21.22	21.09			
10	HQAM	1	25	21.23	21.52	21.27	22	2	
10	HQAM	1	49	20.97	21.30	21.14			
10	HQAM	25	0	20.94	20.17	20.94			
10	HQAM	25	12	19.86	20.08	19.95	21	3	
10	HQAM	50	0	19.87	20.08	19.97			
10	ZSSBQAM	1	0	18.27	18.35	18.46			
10	ZSSBQAM	1	25	18.07	18.28	18.15	19	5	
10	ZSSBQAM	1	49	18.21	18.26	18.27			



Band 25 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Low Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.87	17.82	17.91				
20	QPSK	1	48	17.87	17.82	17.91	18.8	0		
20	QPSK	1	96	17.44	17.50	17.44				
20	QPSK	50	0	17.50	17.54	17.42				
20	QPSK	50	24	17.43	17.43	17.43	18.8	0		
20	QPSK	50	50	17.40	17.46	17.38				
20	QPSK	100	0	17.42	17.50	17.47				
20	15QAM	50	0	17.42	17.46	17.38	18.8	0		
20	15QAM	1	48	17.38	17.48	17.33				
20	15QAM	1	96	17.29	17.43	17.39				
20	15QAM	50	0	17.34	17.46	17.38	18.8	0		
20	15QAM	50	24	17.40	17.51	17.41				
20	15QAM	50	50	17.40	17.40	17.40				
20	15QAM	100	0	17.38	17.45	17.39	18.8	0		
20	84QAM	1	0	17.37	17.50	17.38				
20	84QAM	1	48	17.45	17.51	17.42	18.8	0		
20	84QAM	1	96	17.41	17.41	17.37				
20	84QAM	50	0	17.38	17.51	17.45				
20	84QAM	50	24	17.35	17.48	17.34	18.8	0		
20	84QAM	50	50	17.30	17.45	17.38				
20	84QAM	100	0	17.37	17.50	17.41				
20	256QAM	1	48	16.81	16.98	16.85				
20	256QAM	1	96	16.80	16.91	16.86	18.8	0.8		
20	256QAM	1	192	16.77	16.85	16.75				
20	256QAM	50	0	16.84	16.95	16.88				
20	256QAM	50	24	16.91	16.93	16.78	18.8	0.8		
20	256QAM	50	50	16.84	16.85	16.88				
20	256QAM	100	0	16.87	16.87	16.87	18.8	0.8		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.46	17.38	17.41				
15	QPSK	1	32	17.39	17.45	17.33	18.8	0		
15	QPSK	1	64	17.36	17.38	17.39				
15	QPSK	36	0	17.38	17.43	17.39				
15	QPSK	36	24	17.40	17.44	17.31	18.8	0		
15	QPSK	36	39	17.31	17.37	17.24				
15	QPSK	75	0	17.36	17.44	17.36				
15	15QAM	1	0	17.30	17.38	17.28	18.8	0		
15	15QAM	1	32	17.35	17.41	17.28				
15	15QAM	1	64	16.81	16.86	16.85				
15	15QAM	36	0	17.25	17.33	17.24	18.8	0		
15	15QAM	36	20	17.27	17.41	17.28				
15	15QAM	36	39	16.85	16.98	16.85				
15	15QAM	75	0	17.26	17.34	17.31				
15	84QAM	1	0	17.28	17.38	17.35				
15	84QAM	1	32	17.42	17.42	17.35	18.8	0		
15	84QAM	1	64	17.33	17.42	17.32				
15	84QAM	36	0	17.23	17.37	17.34	18.8	0		
15	84QAM	36	24	16.81	16.88	16.82				
15	84QAM	36	39	17.31	17.34	17.31				
15	84QAM	75	0	17.31	17.43	17.32				
15	256QAM	1	48	16.86	16.86	16.86				
15	256QAM	1	96	16.69	16.85	16.75	18.8	0.8		
15	256QAM	1	192	16.74	16.87	16.78				
15	256QAM	50	0	16.84	16.84	16.87				
15	256QAM	50	24	16.77	16.85	16.66	18.8	0.8		
15	256QAM	50	39	16.71	16.82	16.79				
15	256QAM	75	0	16.76	16.82	16.83				
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.85	17.80	17.90				
10	QPSK	1	25	17.43	17.50	17.31	18.8	0		
10	QPSK	1	48	17.32	17.39	17.32				
10	QPSK	25	0	17.30	17.40	17.35				
10	QPSK	25	12	17.37	17.37	17.32	18.8	0		
10	QPSK	25	25	17.33	17.38	17.27				
10	15QAM	1	0	17.20	17.30	17.28	18.8	0		
10	15QAM	1	24	17.34	17.34	17.26				
10	15QAM	1	48	16.81	16.81	16.81				
10	15QAM	25	0	17.22	17.33	17.29	18.8	0		
10	15QAM	25	12	17.25	17.40	17.31				
10	15QAM	25	24	17.27	17.45	17.30	18.8	0		
10	15QAM	50	0	17.35	17.41	17.29				
10	84QAM	1	0	17.25	17.39	17.34				
10	84QAM	1	25	17.31	17.45	17.29	18.8	0		
10	84QAM	1	48	17.37	17.40	17.30				
10	84QAM	25	0	17.25	17.41	17.32	18.8	0		
10	84QAM	25	12	17.32	17.46	17.35				
10	84QAM	25	25	17.25	17.34	17.33				
10	84QAM	50	0	17.30	17.45	17.30				
10	256QAM	1	28	16.69	16.87	16.76				
10	256QAM	1	49	16.70	16.81	16.81	18.8	0.8		
10	256QAM	1	98	16.75	16.84	16.81				
10	256QAM	25	12	16.78	16.88	16.88				
10	256QAM	25	25	16.74	16.82	16.75	18.8	0.8		
10	256QAM	50	0	16.82	16.82	16.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.51	18.50	18.51				
5	QPSK	1	12	17.36	17.47	17.29	18.8	0		
5	QPSK	1	24	17.37	17.44	17.41				
5	QPSK	12	0	17.44	17.48	17.40				
5	QPSK	12	7	17.39	17.40	17.30	18.8	0		
5	QPSK	12	13	17.31	17.42	17.31				
5	QPSK	25	0	17.35	17.41	17.40				
5	15QAM	1	0	17.20	17.44	17.27	18.8	0		
5	15QAM	1	12	17.34	17.43	17.22				
5	15QAM	1	24	17.26	17.31	17.25	18.8	0		
5	15QAM	12	0	17.27	17.37	17.33				
5	15QAM	12	7	17.31	17.46	17.27	18.8	0		
5	15QAM	12	14	17.34	17.44	17.28				
5	15QAM	25	0	17.24	17.35	17.33	18.8	0		
5	84QAM	1	0	17.27	17.37	17.25				
5	84QAM	1	12	17.32	17.42	17.23	18.8	0		
5	84QAM	1	24	17.34	17.41	17.28				
5	84QAM	12	0	17.24	17.39	17.34	18.8	0		
5	84QAM	12	7	17.32	17.43	17.23				
5	84QAM	12	13	17.22	17.40	17.27				
5	84QAM	25	0	17.30	17.43	17.31				
5	256QAM	1	0	16.75	16.85	16.72				
5	256QAM	1	12	16.73	16.77	16.76	18.8	0.8		
5	256QAM	1	24	16.73	16.88	16.60				
5	256QAM	12	0	16.84	16.88	16.71				
5	256QAM	12	7	16.76	16.88	16.64	18.8	0.8		
5	256QAM	12	13	16.78	16.78	16.75				
5	256QAM	25	0	16.82	16.82	16.80				
Channel										
Frequency (MHz)										
3	QPSK	1	0	17.47	17.56	17.45				
3	QPSK	1	8	17.41	17.48	17.41	18.8	0		
3	QPSK	1	14	17.37	17.46	17.41				
3	QPSK	8	0	17.44	17.48	17.40				
3	QPSK	8	4	17.38	17.37	17.34	18.8	0		
3	QPSK	8	7	17.36	17.34	17.31				
3	QPSK	15	0	17.35	17.41	17.40				
3	15QAM	1	0	17.36	17.44	17.30	18.8	0		
3	15QAM	1	8	17.31	17.43	17.27				
3	15QAM	1	16	17.22	17.38	17.28	18.8	0		
3	15QAM	8	0	17.30	17.44	17.33				
3	15QAM	8	4	17.31	17.40	17.31	18.8	0		
3	15QAM	8	7	17.27	17.38	17.28				
3	15QAM	15	0	17.29	17.41	17.24				
3	84QAM	1	0	17.31	17.38	17.30				
3	84QAM	1	8	17.32	17.47	17.31	18.8	0		



Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	17.87	18.11	17.93	19.3	0	
20	QPSK	1	49	17.86	17.94	17.79			
20	QPSK	1	99	17.78	17.85	17.83			
20	QPSK	50	0	18.05	18.08	17.89	19.3	0	
20	QPSK	50	24	17.96	17.97	17.86			
20	QPSK	50	50	17.86	17.93	17.75			
20	QPSK	100	0	17.95	18.02	17.88	19.3	0	
20	16QAM	1	0	17.76	17.90	17.70			
20	16QAM	1	49	17.78	17.90	17.85			
20	16QAM	1	99	17.69	17.82	17.74			
20	16QAM	50	0	17.76	17.91	17.82	19.3	0	
20	16QAM	50	24	17.78	17.97	17.81			
20	16QAM	50	50	17.86	17.99	17.87			
20	16QAM	100	0	17.82	17.85	17.58	19.3	0	
20	64QAM	1	0	17.85	17.86	17.94			
20	64QAM	1	49	17.72	17.86	17.88			
20	64QAM	1	99	17.85	17.87	17.80			
20	64QAM	50	0	17.78	17.97	17.85	19.3	0	
20	64QAM	50	24	17.77	17.89	17.73			
20	64QAM	50	50	17.80	17.97	17.81			
20	64QAM	100	0	17.76	17.86	17.90	18	1.3	
20	256QAM	1	0	17.35	17.45	17.21			
20	256QAM	1	49	17.24	17.22	17.18			
20	256QAM	1	99	17.35	17.43	17.24			
20	256QAM	50	0	17.07	17.20	17.13	18	1.3	
20	256QAM	50	24	16.96	17.08	17.02			
20	256QAM	50	50	17.00	17.14	17.05			
20	256QAM	100	0	17.03	17.05	16.90			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	17.81	18.05	17.85	19.3	0	
15	QPSK	1	37	17.81	17.90	17.70			
15	QPSK	1	74	17.71	17.80	17.80			
15	QPSK	36	0	17.97	18.00	17.82	19.3	0	
15	QPSK	36	20	17.88	17.88	17.81			
15	QPSK	36	39	17.82	17.85	17.67			
15	QPSK	75	0	17.89	17.97	17.83	19.3	0	
15	16QAM	1	0	17.68	17.67	17.64			
15	16QAM	1	37	17.69	17.62	17.81			
15	16QAM	1	74	17.62	17.78	17.67			
15	16QAM	36	0	17.70	17.83	17.73	19.3	0	
15	16QAM	36	20	17.70	17.89	17.76			
15	16QAM	36	39	17.82	17.92	17.79			
15	16QAM	75	0	17.77	17.81	17.51	19.3	0	
15	64QAM	1	0	17.78	17.81	17.88			
15	64QAM	1	37	17.69	17.83	17.80			
15	64QAM	1	74	17.82	17.80	17.72			
15	64QAM	36	0	17.74	17.91	17.80	19.3	0	
15	64QAM	36	20	17.69	17.83	17.68			
15	64QAM	36	39	17.76	17.92	17.74			
15	64QAM	75	0	17.70	17.82	17.86	18	1.3	
15	256QAM	1	0	17.27	17.42	17.12			
15	256QAM	1	37	17.18	17.14	17.10			
15	256QAM	1	74	17.28	17.38	17.18			
15	256QAM	36	0	17.01	17.13	17.09	18	1.3	
15	256QAM	36	20	16.88	17.00	16.96			
15	256QAM	36	39	16.92	17.05	16.97			
15	256QAM	75	0	16.95	16.99	16.85			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	17.84	18.08	17.87	19.3	0	
10	QPSK	1	25	17.79	17.88	17.75			
10	QPSK	1	49	17.73	17.78	17.74			
10	QPSK	25	0	17.98	18.01	17.86	19.3	0	
10	QPSK	25	12	17.88	17.91	17.77			
10	QPSK	25	25	17.80	17.86	17.67			
10	QPSK	50	0	17.89	17.96	17.83	19.3	0	
10	16QAM	1	0	17.68	17.85	17.61			
10	16QAM	1	25	17.69	17.84	17.82			
10	16QAM	1	49	17.65	17.75	17.68			
10	16QAM	25	0	17.71	17.85	17.78	19.3	0	
10	16QAM	25	12	17.74	17.91	17.73			
10	16QAM	25	25	17.77	17.94	17.79			
10	16QAM	50	0	17.78	17.77	17.49	19.3	0	
10	64QAM	1	0	17.79	17.77	17.87			
10	64QAM	1	25	17.64	17.80	17.83			
10	64QAM	1	49	17.81	17.79	17.76			
10	64QAM	25	0	17.73	17.90	17.81	19.3	0	
10	64QAM	25	12	17.71	17.81	17.66			
10	64QAM	25	25	17.72	17.90	17.75			
10	64QAM	50	0	17.72	17.82	17.81	18	1.3	
10	256QAM	1	0	17.31	17.39	17.13			
10	256QAM	1	25	17.17	17.18	17.09			
10	256QAM	1	49	17.28	17.37	17.18			
10	256QAM	25	0	17.01	17.13	17.06	18	1.3	
10	256QAM	25	12	16.92	17.01	16.98			
10	256QAM	25	25	16.93	17.05	17.02			
10	256QAM	50	0	16.95	17.02	16.82			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	17.80	18.05	17.88	19.3	0	
5	QPSK	1	12	17.83	17.88	17.71			
5	QPSK	1	24	17.74	17.76	17.74			
5	QPSK	12	0	17.97	18.02	17.81	19.3	0	
5	QPSK	12	7	17.89	17.92	17.79			
5	QPSK	12	13	17.78	17.89	17.71			
5	QPSK	25	0	17.88	17.93	17.83	19.3	0	
5	16QAM	1	0	17.73	17.85	17.64			
5	16QAM	1	12	17.71	17.86	17.81			
5	16QAM	1	24	17.61	17.77	17.66			
5	16QAM	12	0	17.73	17.85	17.77	19.3	0	
5	16QAM	12	7	17.74	17.93	17.73			
5	16QAM	12	13	17.81	17.96	17.80			
5	16QAM	25	0	17.78	17.80	17.53	19.3	0	
5	64QAM	1	0	17.77	17.81	17.90			
5	64QAM	1	12	17.65	17.77	17.84			
5	64QAM	1	24	17.81	17.81	17.74			
5	64QAM	12	0	17.71	17.89	17.81	19.3	0	
5	64QAM	12	7	17.69	17.84	17.64			
5	64QAM	12	13	17.77	17.89	17.75			
5	64QAM	25	0	17.73	17.78	17.85	18	1.3	
5	256QAM	1	0	17.28	17.38	17.18			
5	256QAM	1	12	17.18	17.14	17.11			
5	256QAM	1	24	17.28	17.38	17.17			
5	256QAM	12	0	17.02	17.14	17.07	18	1.3	
5	256QAM	12	7	16.91	17.00	16.96			
5	256QAM	12	13	16.93	17.05	17.01			
5	256QAM	25	0	16.96	16.98	16.84			

Band 38 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.00	20.17	19.99	20.9	0	
20	QPSK	1	49	19.90	20.01	19.89			
20	QPSK	1	99	19.96	19.97	19.82			
20	QPSK	50	0	20.00	20.14	19.86	20.9	0	
20	QPSK	50	24	20.01	19.99	19.95			
20	QPSK	50	50	19.79	19.96	19.88			
20	QPSK	100	0	19.96	20.06	19.91	20.9	0	
20	16QAM	1	0	19.88	19.88	19.78			
20	16QAM	1	49	19.93	19.96	19.87			
20	16QAM	1	99	19.78	19.84	19.79			
20	16QAM	50	0	19.83	19.90	19.99	20.9	0	
20	16QAM	50	24	19.82	19.97	19.92			
20	16QAM	50	50	19.86	19.96	19.96			
20	16QAM	100	0	19.84	19.97	19.70	20.9	0	
20	64QAM	1	0	19.91	19.97	20.02			
20	64QAM	1	49	19.75	19.91	19.93			
20	64QAM	1	99	19.89	19.95	19.87			
20	64QAM	50	0	19.89	19.96	19.91			



### Band 41 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.04	17.93	18.17	18.00	18.01		
20	QPSK	1	49	17.96	17.89	18.03	17.84	18.00	19.3	0
20	QPSK	1	99	18.00	17.86	17.93	17.88	18.04		
20	QPSK	50	0	18.04	18.08	18.13	17.93	17.95		
20	QPSK	50	24	18.10	18.03	18.02	17.91	18.01		
20	QPSK	50	50	17.92	17.89	17.99	17.84	17.98	19.3	0
20	QPSK	100	0	17.96	17.99	18.08	17.96	17.98		
20	16QAM	1	0	17.95	17.81	17.95	17.78	17.94		
20	16QAM	1	49	17.94	17.86	17.99	17.89	17.99	19.3	0
20	16QAM	1	99	17.78	17.78	17.87	17.79	17.78		
20	16QAM	50	0	17.94	17.83	17.97	17.89	17.93		
20	16QAM	50	24	17.97	17.86	18.00	17.89	18.02	19.3	0
20	16QAM	50	50	18.02	17.90	18.03	17.91	17.94		
20	16QAM	100	0	17.89	17.87	17.91	17.66	17.94		
20	64QAM	1	0	17.99	17.89	17.93	17.97	18.00		
20	64QAM	1	49	17.98	17.77	17.90	17.93	17.97	19.3	0
20	64QAM	1	99	18.00	17.88	17.92	17.84	17.90		
20	64QAM	50	0	17.93	17.84	18.00	17.89	17.93		
20	64QAM	50	24	17.92	17.80	17.96	17.81	18.03	19.3	0
20	64QAM	50	50	17.94	17.83	18.00	17.84	17.98		
20	64QAM	100	0	18.01	17.83	17.93	17.93	17.91	19.3	0
20	256QAM	1	0	17.36	17.42	17.50	17.29	17.43		
20	256QAM	1	49	17.14	17.27	17.25	17.24	17.19	18	1.3
20	256QAM	1	99	17.33	17.44	17.47	17.27	17.37		
20	256QAM	50	0	17.11	17.15	17.24	17.17	17.12		
20	256QAM	50	24	17.12	17.01	17.16	17.08	17.03	18	1.3
20	256QAM	50	50	17.08	17.09	17.21	17.11	17.10		
20	256QAM	100	0	17.08	17.10	17.12	16.98	17.04		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
15				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.98	17.78	18.06	17.94	17.95		
15	QPSK	1	37	17.89	17.76	17.89	17.76	17.87	19	0
15	QPSK	1	74	17.93	17.78	17.84	17.82	17.97		
15	QPSK	36	0	17.90	17.96	18.09	17.82	17.85		
15	QPSK	36	20	18.00	17.95	17.89	17.82	17.89		
15	QPSK	36	39	17.86	17.77	17.89	17.69	17.87	19.3	0
15	QPSK	75	0	17.91	17.85	18.02	17.88	17.91		
15	16QAM	1	0	17.84	17.78	17.86	17.63	17.90		
15	16QAM	1	37	17.89	17.82	17.89	17.84	17.91	19.3	0
15	16QAM	1	74	17.70	17.75	17.81	17.71	17.69		
15	16QAM	36	0	17.79	17.71	17.87	17.77	17.87		
15	16QAM	36	20	17.86	17.82	17.88	17.76	17.92	19.3	0
15	16QAM	36	39	17.88	17.80	17.91	17.81	17.80		
15	16QAM	75	0	17.82	17.75	17.86	17.61	17.80		
15	64QAM	1	0	17.91	17.82	17.84	17.84	17.88		
15	64QAM	1	37	17.91	17.63	17.62	17.90	17.90	19.3	0
15	64QAM	1	74	17.86	17.79	17.79	17.72	17.86		
15	64QAM	36	0	17.89	17.71	17.97	17.83	17.87		
15	64QAM	36	20	17.86	17.68	17.86	17.67	17.99	19.3	0
15	64QAM	36	39	17.84	17.79	17.96	17.72	17.93		
15	64QAM	75	0	17.88	17.77	17.79	17.79	17.81		
15	256QAM	1	0	17.27	17.31	17.36	17.21	17.33		
15	256QAM	1	37	17.04	17.18	17.20	17.11	17.14	18	1.3
15	256QAM	1	74	17.20	17.32	17.36	17.23	17.28		
15	256QAM	36	0	16.96	17.00	17.14	17.05	17.00		
15	256QAM	36	20	17.02	16.98	17.06	17.03	16.95	18	1.3
15	256QAM	36	39	16.99	17.03	17.13	17.00	17.00		
15	256QAM	75	0	17.04	17.01	17.01	16.85	16.89		
Channel										
Frequency (MHz)				39700	40160	40620	41080	41540		
10				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.94	17.79	18.12	17.93	17.92		
10	QPSK	1	25	17.83	17.80	18.00	17.70	17.87	19.30	0
10	QPSK	1	49	17.92	17.81	17.84	17.78	17.98		
10	QPSK	25	0	17.98	17.95	18.00	17.84	17.81		
10	QPSK	25	12	18.06	17.94	17.93	17.79	17.95		
10	QPSK	25	25	17.86	17.77	17.90	17.78	17.84	19.3	0
10	QPSK	50	0	17.87	17.87	18.01	17.89	17.86		
10	16QAM	1	0	17.91	17.70	17.80	17.68	17.81		
10	16QAM	1	25	17.83	17.73	17.89	17.75	17.86	19.3	0
10	16QAM	1	49	17.66	17.74	17.79	17.75	17.73		
10	16QAM	25	0	17.80	17.77	17.87	17.86	17.90		
10	16QAM	25	12	17.90	17.82	17.97	17.83	17.92	19.3	0
10	16QAM	25	25	17.98	17.78	17.90	17.83	17.85		
10	16QAM	50	0	17.75	17.72	17.77	17.60	17.80		
10	64QAM	1	0	17.93	17.75	17.83	17.83	17.87		
10	64QAM	1	25	17.84	17.69	17.78	17.83	17.90	19.3	0
10	64QAM	1	49	17.95	17.84	17.80	17.80	17.79		
10	64QAM	25	0	17.84	17.73	17.88	17.75	17.78		
10	64QAM	25	12	17.86	17.69	17.86	17.70	17.95	19.3	0
10	64QAM	25	25	17.88	17.78	17.92	17.73	17.84		
10	64QAM	50	0	17.88	17.73	17.83	17.81	17.78		
10	256QAM	1	0	17.24	17.37	17.45	17.19	17.29		
10	256QAM	1	25	17.11	17.21	17.20	17.19	17.10	18	1.3
10	256QAM	1	49	17.23	17.36	17.44	17.21	17.28		
10	256QAM	25	0	17.04	17.08	17.11	17.06	17.07		
10	256QAM	25	12	17.05	16.90	17.04	16.99	16.92	18	1.3
10	256QAM	25	25	16.98	17.02	17.12	17.06	17.02		
10	256QAM	50	0	17.02	17.02	17.05	16.93	16.90		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41565		
5				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	17.93	17.81	18.05	17.92	17.89		
5	QPSK	1	12	17.90	17.79	17.91	17.80	17.94	19.30	0
5	QPSK	1	24	17.93	17.80	17.84	17.76	17.98		
5	QPSK	12	0	17.99	18.02	18.01	17.78	17.90		
5	QPSK	12	7	18.02	17.89	17.97	17.81	17.95		
5	QPSK	12	13	17.85	17.74	17.93	17.80	17.86	19.3	0
5	QPSK	25	0	17.88	17.91	18.01	17.85	17.90		
5	16QAM	1	0	17.88	17.76	17.82	17.73	17.85		
5	16QAM	1	12	17.83	17.81	17.87	17.77	17.95	19.3	0
5	16QAM	1	24	17.69	17.72	17.77	17.75	17.67		
5	16QAM	12	0	17.81	17.78	17.91	17.82	17.85		
5	16QAM	12	7	17.85	17.77	17.91	17.77	17.98	19.3	0
5	16QAM	12	13	17.93	17.82	17.93	17.81	17.81		
5	16QAM	25	0	17.78	17.79	17.85	17.56	17.89		
5	64QAM	1	0	17.90	17.76	17.84	17.88	17.88		
5	64QAM	1	12	17.87	17.65	17.85	17.84	17.94	19.3	0
5	64QAM	1	24	17.85	17.75	17.79	17.72	17.81		
5	64QAM	12	0	17.82	17.72	17.91	17.77	17.83		
5	64QAM	12	7	17.89	17.70	17.87	17.70	17.97	19.3	0
5	64QAM	12	13	17.79	17.79	17.95	17.72	17.94		
5	64QAM	25	0	17.88	17.76	17.84	17.86	17.80		
5	256QAM	1	0	17.28	17.27	17.40	17.24	17.36		
5	256QAM	1	12	17.11	17.20					



## Reduced Power Mode for DSI 6

GSM850 ANT0	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	32.64	32.76	32.68	33.50	23.64	23.76	23.68	24.50	
GPRS 1 Tx slot	32.57	32.72	32.66	33.50	23.57	23.72	23.66	24.50	
GPRS 2 Tx slots	30.09	30.15	30.05	31.00	24.09	24.15	24.05	25.00	
GPRS 3 Tx slots	28.60	28.67	28.59	29.50	24.34	24.41	24.33	25.24	
GPRS 4 Tx slots	27.05	27.14	27.04	28.00	24.05	24.14	24.04	25.00	
EDGE 1 Tx slot	25.95	26.05	25.93	27.00	16.95	17.05	16.93	18.00	
EDGE 2 Tx slots	25.05	25.13	25.09	26.00	19.05	19.13	19.09	20.00	
EDGE 3 Tx slots	23.34	23.42	23.33	24.50	19.08	19.16	19.07	20.24	
EDGE 4 Tx slots	21.62	21.74	21.67	23.00	18.62	18.74	18.67	20.00	

GSM1900 ANT0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	TX Channel	512	661		810	512	661		810
	Frequency (MHz)	1850.2	1890		1930.8	1850.2	1890.00		1930.80
GSM 1 Tx slot	29.68	29.75	29.72	30.50	20.68	20.75	20.72	21.50	
GPRS 1 Tx slot	29.60	29.73	29.66	30.50	20.60	20.73	20.66	21.50	
GPRS 2 Tx slots	26.71	26.83	26.74	28.00	20.71	20.83	20.74	22.00	
GPRS 3 Tx slots	25.27	25.35	25.26	26.50	21.01	21.09	21.00	22.24	
GPRS 4 Tx slots	23.77	23.84	23.73	25.00	20.77	20.84	20.73	22.00	
EDGE 1 Tx slot	24.69	24.84	24.75	26.00	15.69	15.84	15.75	17.00	
EDGE 2 Tx slots	23.76	23.86	23.78	25.00	17.76	17.86	17.78	19.00	
EDGE 3 Tx slots	22.38	22.51	22.38	23.50	18.12	18.25	18.12	19.24	
EDGE 4 Tx slots	20.72	20.84	20.72	22.00	17.72	17.84	17.72	19.00	

Band	WCDMA II ANT0			Tune-up Limit (dBm)	WCDMA IV ANT0			Tune-up Limit (dBm)	WCDMA V ANT0			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
	Rx Channel	9662.00	9800.00		9938.00	1537.00	1638.00		1738.00	4357.00	4407.00		4458.00
Frequency (MHz)	1852.40	1880.00	1907.60	1712.40	1732.60	1752.60	826.40	836.40	846.60				
3GPP Rel 99	AMR 12.2Kbps	21.05	21.10	21.08	22.20	20.57	20.68	20.62	22.00	23.10	23.19	23.06	24.00
3GPP Rel 99	RMC 12.2Kbps	21.12	21.15	21.07	22.20	20.62	20.80	20.66	22.00	23.17	23.23	23.15	24.00
3GPP Rel 6	HSDPA Subtest-1	20.04	20.21	20.05	21.20	19.56	19.75	19.61	21.00	22.05	22.16	22.21	23.00
3GPP Rel 6	HSDPA Subtest-2	20.08	20.26	20.22	21.20	19.58	19.68	19.40	21.00	22.20	22.33	22.27	23.00
3GPP Rel 6	HSDPA Subtest-3	19.50	19.80	19.63	20.70	19.07	19.24	19.10	20.50	21.68	21.85	21.76	22.50
3GPP Rel 6	HSDPA Subtest-4	19.54	19.77	19.74	20.70	19.05	19.30	19.10	20.50	21.55	21.71	21.70	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.19	20.23	20.06	21.20	19.74	19.68	19.62	21.00	22.23	22.21	22.17	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.01	20.05	20.21	21.20	19.49	19.52	19.59	21.00	22.14	22.14	22.21	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.44	19.51	19.42	20.70	18.96	19.00	19.02	20.50	21.50	21.66	21.60	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.48	19.59	19.57	20.70	19.00	19.22	19.01	20.50	21.52	21.76	21.60	22.50
3GPP Rel 6	HSUPA Subtest-1	20.12	20.13	20.04	21.20	19.50	19.76	19.58	21.00	21.98	22.21	22.15	23.00
3GPP Rel 6	HSUPA Subtest-2	18.23	18.36	18.21	19.20	17.78	17.76	17.77	19.00	20.36	20.24	20.23	21.00
3GPP Rel 6	HSUPA Subtest-3	19.15	19.16	19.04	20.20	18.72	18.64	18.63	20.00	21.22	21.23	21.08	22.00
3GPP Rel 6	HSUPA Subtest-4	17.99	18.15	18.28	19.20	17.56	17.76	17.77	19.00	20.08	20.32	20.35	21.00
3GPP Rel 6	HSUPA Subtest-5	19.97	20.06	20.00	21.20	19.61	19.69	19.49	21.00	22.14	22.17	22.02	23.00



Band 2 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Turn-up (dB)	MPR (dB)
Channel	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
20	QPSK	1	0	21.17	21.21	21.27			
20	QPSK	1	8	20.92	20.91	20.75			
20	QPSK	1	16	21.09	21.23	21.07			22.1
20	QPSK	50	0	21.16	21.23	21.14			
20	QPSK	50	8	21.14	21.14	21.08			
20	QPSK	50	16	21.04	21.07	21.06			22.1
20	QPSK	100	0	21.21	21.19	21.13			
20	QPSK	100	8	21.13	21.07	21.04			
20	QPSK	1	49	21.00	21.08	21.03			22.1
20	QPSK	1	57	21.31	21.10	21.00			
20	QPSK	1	65	20.92	20.90	20.88			
20	QPSK	50	24	20.87	20.71	20.83			22
20	QPSK	50	32	20.80	20.77	20.85			
20	QPSK	50	40	20.92	20.92	20.95			
20	QPSK	1	8	20.73	20.76	20.65			
20	QPSK	1	16	20.84	20.80	20.82			22
20	QPSK	1	24	20.82	20.80	20.88			
20	QPSK	50	8	19.82	19.74	19.61			
20	QPSK	50	16	19.82	19.82	19.82			
20	QPSK	50	24	19.82	19.82	19.87			
20	QPSK	50	32	19.82	19.82	19.87			
20	QPSK	100	0	19.82	19.87	19.83			21
20	QPSK	100	8	19.82	19.87	19.83			
20	QPSK	1	49	17.83	17.83	17.78			19
20	QPSK	1	57	17.83	17.83	17.78			
20	QPSK	50	24	17.83	17.83	17.78			19
20	QPSK	50	32	17.83	17.83	17.78			
20	QPSK	100	0	17.83	17.82	17.72			19
20	QPSK	100	8	17.83	17.82	17.72			
	Channel			18915	18900	18925	Turn-up (dB)	MPR (dB)	
	Frequency (MHz)			18917	18902	18925			
15	QPSK	1	0	21.11	21.20	21.22			
15	QPSK	1	8	21.14	21.21	21.16			22.1
15	QPSK	1	16	21.04	21.16	21.09			
15	QPSK	36	0	21.12	21.16	21.09			
15	QPSK	36	8	21.11	21.16	21.02			
15	QPSK	36	16	21.01	21.01	21.06			22.1
15	QPSK	75	0	20.96	21.06	21.06			
15	QPSK	75	8	21.07	21.06	21.01			
15	QPSK	1	37	20.93	21.04	20.95			22.1
15	QPSK	1	45	20.92	20.90	20.86			
15	QPSK	50	24	20.82	20.87	20.81			
15	QPSK	50	32	20.83	20.84	20.59			22
15	QPSK	50	40	20.82	20.82	20.85			
15	QPSK	100	0	20.44	20.50	20.50			
15	QPSK	100	8	20.44	20.56	20.56			22
15	QPSK	1	8	20.76	20.79	20.68			22
15	QPSK	1	16	20.74	20.78	20.68			
15	QPSK	1	24	20.58	20.52	20.51			
15	QPSK	36	0	19.85	19.70	19.55			
15	QPSK	36	8	19.85	19.85	19.85			
15	QPSK	36	16	19.85	19.85	19.53			21
15	QPSK	75	0	19.39	19.63	19.48			
15	QPSK	75	8	19.39	19.63	19.48			
15	QPSK	75	16	19.39	19.63	19.48			
15	QPSK	1	37	17.78	17.78	17.66			19
15	QPSK	1	45	17.78	17.77	17.77			
15	QPSK	50	24	17.78	17.77	17.78			19
15	QPSK	50	32	17.78	17.78	17.66			
15	QPSK	100	0	17.52	17.48	17.43			19
15	QPSK	100	8	17.52	17.48	17.58			
15	QPSK	100	16	17.52	17.48	17.43			
	Channel			18955	18960	18950	Turn-up (dB)	MPR (dB)	
	Frequency (MHz)			18955	18960	18950			

Band 4 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Turn-up (dB)	MPR (dB)
Channel	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
20	QPSK	1	0	20.73	20.94	20.89			
20	QPSK	1	8	20.69	20.97	20.65			22.2
20	QPSK	1	16	20.77	20.79	20.71			
20	QPSK	50	0	20.77	20.85	20.82			
20	QPSK	50	8	20.73	20.75	20.75			
20	QPSK	50	16	20.87	20.70	20.83			22.2
20	QPSK	100	0	20.59	20.81	20.79			
20	QPSK	100	8	20.78	20.77	20.78			
20	QPSK	1	49	20.72	20.68	20.67			22.2
20	QPSK	1	57	20.66	20.72	20.62			
20	QPSK	50	24	20.69	20.67	20.65			
20	QPSK	50	32	20.57	20.70	20.58			22
20	QPSK	50	40	20.64	20.70	20.62			
20	QPSK	100	0	20.66	20.72	20.64			
20	QPSK	100	8	20.66	20.68	20.71			
20	QPSK	1	49	20.56	20.58	20.71			22
20	QPSK	1	57	20.59	20.67	20.55			
20	QPSK	50	24	20.58	20.73	20.62			21
20	QPSK	50	32	20.59	20.72	20.64			
20	QPSK	100	0	20.66	20.78	20.59			
20	QPSK	100	8	20.66	20.78	20.62			
20	QPSK	1	49	17.83	17.81	17.81			19
20	QPSK	1	57	17.86	17.76	17.86			
20	QPSK	50	24	17.79	17.77	17.73			19
20	QPSK	50	32	17.69	17.72	17.68			
20	QPSK	100	0	17.57	17.60	17.67			19
20	QPSK	100	8	17.57	17.60	17.67			
	Channel			20525	20512	20525	Turn-up (dB)	MPR (dB)	
	Frequency (MHz)			17175	17175	17175			
15	QPSK	1	0	20.89	20.90	20.82			
15	QPSK	1	8	20.82	20.82	20.79			22.2
15	QPSK	1	16	20.70	20.74	20.63			
15	QPSK	36	0	20.71	20.82	20.77			
15	QPSK	36	8	20.73	20.79	20.69			22.2
15	QPSK	36	16	20.51	20.56	20.57			
15	QPSK	75	0	20.55	20.78	20.55			
15	QPSK	75	8	20.68	20.68	20.52			
15	QPSK	1	37	20.58	20.84	20.59			22.2
15	QPSK	1	45	20.57	20.79	20.57			
15	QPSK	50	24	20.65	20.62	20.56			22
15	QPSK	50	32	20.50	20.64	20.59			
15	QPSK	100	0	20.58	20.71	20.54			22
15	QPSK	100	8	20.59	20.74	20.62			
15	QPSK	1	49	20.58	20.54	20.51			22
15	QPSK	1	57	20.58	20.57	20.51			
15	QPSK	36	0	19.88	19.77	19.65			
15	QPSK	36	8	19.87	19.78	19.67			21
15	QPSK	36	16	19.87	19.85	19.70			
15	QPSK	75	0	19.48	19.88	19.59			21
15	QPSK	75	8	19.48	19.88	19.59			
15	QPSK	75	16	19.48	19.88	19.59			
15	QPSK	1	37	17.78	17.78	17.77			19
15	QPSK	1	45	17.84	17.88	17.85			
15	QPSK	50	24	17.78	17.77	17.77			19
15	QPSK	50	32	17.50	17.57	17.54			19
15	QPSK	100	0	17.68	17.76	17.76			19
15	QPSK	100	8	17.63	17.67	17.67			
	Channel			17115	17125	17120	Turn-up (dB)	MPR (dB)	
	Frequency (MHz)			17115	17125	17120			

Band 5 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Turn-up (dB)	MPR (dB)
Channel	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
10	QPSK	1	0	22.72	22.84	22.67			
10	QPSK	1	8	22.81	22.80	22.80			24
10	QPSK	1	16	22.81	22.71	22.67			
10	QPSK	25	0	21.77	21.81	21.57			
10	QPSK	25	8	21.78	21.77	21.67			
10	QPSK	25	16	21.71	21.71	21.68			23
10	QPSK	50	0	21.64	21.58	21.63			
10	QPSK	50	8	21.74	21.76				



Band 12 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (min)	MPE (dB)	MPE (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.84	22.84	22.86				
10	QPSK	1	25	22.91	22.91	22.93	24	0		
10	QPSK	1	49	22.81	22.76	22.59				
10	QPSK	25	0	21.87	21.74	21.54				
10	QPSK	25	6	21.68	21.73	21.95	23	1		
10	QPSK	25	25	21.68	21.64	21.83				
10	QPSK	50	0	21.55	21.65	21.80				
10	QPSK	50	6	21.71	21.69	21.63	23	1		
10	16QAM	1	25	21.54	21.71	21.87				
10	16QAM	1	49	21.73	21.70	21.52				
10	16QAM	25	0	20.71	20.84	20.92	22	2		
10	16QAM	25	12	20.75	20.58	20.70				
10	16QAM	25	20	20.59	20.72	20.70				
10	16QAM	50	0	20.59	20.75	20.82				
10	64QAM	1	0	20.78	20.73	20.59				
10	64QAM	1	25	20.92	20.93	20.81	22	2		
10	64QAM	1	49	20.71	20.80	20.85				
10	64QAM	25	0	19.58	19.77	19.83				
10	64QAM	25	12	19.58	19.63	19.56	21	3		
10	64QAM	25	20	19.68	19.61	19.55				
10	64QAM	50	0	19.47	19.61	19.58				
10	256QAM	1	0	17.75	17.85	17.70	19	5		
10	256QAM	1	25	17.88	17.87	17.85				
10	256QAM	1	49	17.88	17.94	17.81				
10	256QAM	25	0	17.68	17.81	17.85				
10	256QAM	25	12	17.51	17.62	17.57	19	5		
10	256QAM	25	20	17.48	17.75	17.80				
10	256QAM	50	0	17.60	17.85	17.83				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.90	22.95	22.95				
5	QPSK	1	25	23.15	23.05	22.88	24	0		
5	QPSK	1	49	22.94	22.89	22.74				
5	QPSK	12	0	21.83	21.66	21.51				
5	QPSK	12	6	21.63	21.69	21.90	23	1		
5	QPSK	12	13	21.63	21.56	21.50				
5	QPSK	25	0	21.41	21.41	21.47				
5	16QAM	1	25	21.66	21.57	21.48	23	1		
5	16QAM	1	49	21.42	21.57	21.57				
5	16QAM	1	24	21.24	22.03	21.42				
5	16QAM	12	7	20.82	20.57	20.65	22	2		
5	16QAM	12	13	20.59	20.79	20.72				
5	16QAM	25	0	20.47	20.61	20.59				
5	64QAM	1	0	20.69	20.70	20.45	22	2		
5	64QAM	1	25	20.71	20.89	20.85				
5	64QAM	1	49	20.58	20.73	20.82				
5	64QAM	12	0	19.52	19.68	19.49				
5	64QAM	12	6	19.63	19.53	19.45	21	3		
5	64QAM	12	13	19.52	19.55	19.47				
5	64QAM	25	0	19.40	19.51	19.45				
5	256QAM	1	0	17.70	17.63	17.81	19	5		
5	256QAM	1	24	17.84	17.85	17.75				
5	256QAM	12	7	17.44	17.51	17.51				
5	256QAM	12	13	17.63	17.69	17.89	19	5		
5	256QAM	25	0	17.64	17.84	17.88				
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.51	22.53	22.52				
14	QPSK	1	24	22.49	22.52	22.48	24	0		
14	QPSK	1	48	22.53	22.58	22.55				
14	QPSK	8	0	21.27	21.22	21.14				
14	QPSK	8	4	21.27	21.62	21.44	23	1		
14	QPSK	8	7	21.60	21.53	21.53				
14	16QAM	1	8	21.63	21.68	21.83	23	1		
14	16QAM	1	8	21.50	21.66	21.83				
14	16QAM	8	4	20.60	20.62	20.67	22	2		
14	16QAM	8	4	20.70	20.68	20.62				
14	16QAM	16	0	20.54	20.65	20.58				
14	64QAM	1	0	20.69	20.58	20.52	22	2		
14	64QAM	1	14	20.70	20.80	20.76				
14	64QAM	8	0	19.54	19.74	19.53				
14	64QAM	8	4	19.46	19.55	19.45	21	3		
14	64QAM	8	7	19.59	19.51	19.45				
14	64QAM	16	0	19.35	19.55	19.45				
14	256QAM	1	0	17.71	17.62	17.63	19	5		
14	256QAM	1	14	17.79	17.81	17.77				
14	256QAM	8	4	17.39	17.58	17.50				
14	256QAM	8	4	17.57	17.66	17.73	19	5		
14	256QAM	16	0	17.64	17.84	17.88				
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.51	22.53	22.52				
14	QPSK	1	5	22.47	22.59	22.44	24	0		
14	QPSK	1	11	22.52	22.57	22.55				
14	QPSK	3	1	22.51	22.68	22.59				
14	QPSK	3	3	22.52	22.64	22.46	23	1		
14	16QAM	1	0	21.60	21.61	21.40				
14	16QAM	1	3	21.81	21.53	21.52				
14	16QAM	1	5	21.48	21.55	21.50	23	1		
14	16QAM	3	1	21.63	21.68	21.51				
14	16QAM	6	0	20.61	20.76	20.71	22	2		
14	16QAM	6	0	20.62	20.59	20.59				
14	16QAM	6	3	20.51	20.57	20.61				
14	64QAM	1	5	20.52	20.71	20.52	22	2		
14	64QAM	3	0	20.81	20.64	20.48				
14	64QAM	3	0	20.69	20.50	20.75				
14	64QAM	3	3	20.52	20.74	20.54	21	3		
14	64QAM	8	0	19.41	19.47	19.48				
14	256QAM	1	0	17.66	17.63	17.60	19	5		
14	256QAM	1	3	17.79	17.78	17.79				
14	256QAM	3	0	17.94	17.82	17.74				
14	256QAM	3	0	17.51	17.67	17.51				
14	256QAM	3	1	17.41	17.49	17.43				
14	256QAM	3	0	17.39	17.66	17.68	19	5		
14	256QAM	6	0	17.60	17.64	17.57				

Band 13 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (min)	MPE (dB)	MPE (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.87	22.85	24	0		
10	QPSK	1	25	22.91	22.91	22.93				
10	QPSK	1	49	22.88	22.84	22.60				
10	QPSK	25	0	21.87	21.87	21.86				
10	QPSK	25	6	21.68	21.68	21.93	23	1		
10	QPSK	25	25	21.68	21.69	21.87				
10	QPSK	50	0	21.52	21.71	21.64				
10	16QAM	1	25	21.59	21.87	21.82				
10	16QAM	1	25	21.57	21.67	21.59	23	1		
10	16QAM	1	49	21.80	21.89	21.85				
10	16QAM	25	0	20.80	20.85	20.78				
10	16QAM	25	12	20.57	20.57	20.83	22	2		
10	16QAM	25	20	20.60	20.74	20.65				
10	16QAM	50	0	20.59	20.75	20.86				
10	64QAM	1	0	20.72	20.78	20.72	22	2		
10	64QAM	1	25	21.10	20.94	20.80				
10	64QAM	1	49	20.92	20.77	20.70	22	2		
10	64QAM	25	0	19.71	19.75	19.62				
10	64QAM	25	12	19.64	19.53	19.46	21	3		
10	64QAM	25	20	19.54	19.66	19.57				
10	256QAM	1	0	17.68	17.60	17.78	19	5		
10	256QAM	1	25	17.89	17.81	17.73				
10	256QAM	1	49	17.91	17.87	17.83				
10	256QAM	25	0	17.64	17.71	17.59				
10	256QAM	25	12	17.63	17.64	17.54	19	5		
10	256QAM	25	20	17.51	17.70	17.63				
10	256QAM	50	0	17.54	17.69	17.60				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.90	22.76	22.67	24	0		
5	QPSK	1	12	22.95	22.72	22.66				
5	QPSK	1	24	22.77	22.73	22.81				
5	QPSK	12	0	21.81	21.74	21.79				
5	QPSK	12	6	21.78	21.81	21.82	23	1		
5	QPSK	12	13	21.62	21.77	21.71				
5	QPSK	25	0	21.66	21.70	21.79				
5	16QAM	1	0	21.74	21.78	21.72	23	1		
5	16QAM	1	12	21.74	21.79	21.76				
5	16QAM	1	24	21.69	21.78	21.76				
5	16QAM	12	7	20.88	20.83	20.69	22	2		
5	16QAM	12	13	20.63	20.60	20.77				
5	16QAM	25	0	20.79	20.79	20.76				
5	64QAM	1	0	20.77	20.74	20.78				
5	64QAM	1	24	20.75	20.77	20.80	22	2		
5	64QAM	12	0	19.79	19.78	19.79				
5	64QAM	12	6	19.60	19.53	19.53	21	3		
5	64QAM	12	13	19.58	19.52	19.54				
5	64QAM	25	0	19.71	19.63	19.67				
5	256QAM	1	0	17.64	17.66	17.66	19	5		
5	256QAM	1	12	17.92	17.80	17.83				
5	256QAM	1	24	18.00	18.05	18.04				
5										



Band 26 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)				811.5	811.5	841.5				
15	QPSK	1	0	22.86	22.87	22.81	24	0		
15	QPSK	1	20	22.88	22.78	22.84				
15	QPSK	1	74	22.88	22.73	22.82				
15	QPSK	36	0	21.85	21.84	21.72				
15	QPSK	36	20	21.89	21.78	21.88				
15	QPSK	36	39	21.85	21.69	21.59	23	1		
15	QPSK	75	0	21.87	21.85	21.55				
15	16QAM	1	0	21.87	21.84	21.60	23	1		
15	16QAM	1	37	21.55	21.60	21.80				
15	16QAM	1	74	21.88	21.73	21.58				
15	16QAM	36	0	20.81	20.81	20.78				
15	16QAM	36	20	20.85	20.59	20.74	22	2		
15	16QAM	36	39	20.72	20.81	20.85				
15	16QAM	75	0	20.84	20.75	20.87				
15	64QAM	1	0	20.58	20.65	20.68				
15	64QAM	1	37	20.63	20.59	20.59	22	2		
15	64QAM	1	74	20.77	20.75	20.81				
15	64QAM	36	0	19.67	19.67	19.71				
15	64QAM	36	20	19.54	19.51	19.55	21	3		
15	64QAM	36	39	19.67	19.65	19.54				
15	64QAM	75	0	19.49	19.74	19.59				
15	256QAM	1	0	17.77	17.78	17.77				
15	256QAM	1	37	17.75	17.75	17.85	19	5		
15	256QAM	1	74	17.83	18.04	17.87				
15	256QAM	36	0	17.58	17.75	17.57				
15	256QAM	36	20	17.63	17.77	17.58	19	5		
15	256QAM	36	39	17.67	17.79	17.64				
15	256QAM	75	0	17.62	17.74	17.66				
Channel										
Frequency (MHz)				815	811.5	844	Turn-up (dB)	MFR (dB)		
10	QPSK	1	0	22.62	22.62	22.77	24	0		
10	QPSK	1	20	22.66	22.71	22.81				
10	QPSK	1	49	22.67	22.62	22.67				
10	QPSK	25	0	21.53	21.75	21.88				
10	QPSK	25	20	21.61	21.46	21.41	23	1		
10	QPSK	25	26	21.55	21.61	21.52				
10	16QAM	1	0	21.63	21.61	21.41				
10	16QAM	1	28	21.57	21.68	21.51	23	1		
10	16QAM	1	49	20.71	20.70	20.71				
10	16QAM	25	12	20.48	20.53	20.69	22	2		
10	16QAM	25	13	20.46	20.53	20.69				
10	16QAM	50	0	20.59	20.62	20.61				
10	64QAM	1	0	20.62	20.75	20.57	22	2		
10	64QAM	1	20	20.79	20.66	20.68				
10	64QAM	1	49	20.70	20.72	20.67				
10	64QAM	25	0	19.67	19.69	19.66	21	3		
10	64QAM	25	13	19.45	19.48	19.44				
10	64QAM	25	26	19.47	19.52	19.40				
10	64QAM	50	0	19.85	19.88	19.46				
10	256QAM	1	0	17.73	17.73	17.73	19	5		
10	256QAM	1	25	17.75	17.65	17.75				
10	256QAM	1	49	17.84	18.05	17.81				
10	256QAM	36	0	17.63	17.68	17.48				
10	256QAM	36	20	17.52	17.70	17.51	19	5		
10	256QAM	36	26	17.59	17.75	17.59				
10	256QAM	75	0	17.40	17.48	17.48				
Channel										
Frequency (MHz)				815.5	811.5	846.5	Turn-up (dB)	MFR (dB)		
5	QPSK	1	0	22.15	22.17	22.13	24	0		
5	QPSK	1	24	22.54	22.66	22.71				
5	QPSK	1	24	22.60	22.64	22.58				
5	QPSK	12	0	21.63	21.63	21.40	23	1		
5	QPSK	12	13	21.60	21.61	21.63				
5	16QAM	1	0	21.59	21.52	21.50				
5	16QAM	1	14	21.48	21.48	21.48	23	1		
5	16QAM	1	30	20.78	20.79	20.78				
5	16QAM	12	6	20.78	20.73	20.72				
5	16QAM	12	7	20.45	20.55	20.65	22	2		
5	16QAM	25	0	20.66	20.65	20.68				
5	16QAM	25	0	20.52	20.51	20.55				
5	64QAM	1	0	20.62	20.72	20.59	22	2		
5	64QAM	1	8	20.78	20.82	20.83				
5	64QAM	1	24	20.68	20.70	20.77				
5	64QAM	12	0	19.54	19.61	19.56	21	3		
5	64QAM	12	13	19.44	19.48	19.45				
5	64QAM	25	0	19.41	19.62	19.47				
5	256QAM	1	0	17.68	17.63	17.63	19	5		
5	256QAM	1	12	17.69	17.71	17.73				
5	256QAM	1	24	17.86	17.86	17.77				
5	256QAM	12	6	17.56	17.65	17.69	19	5		
5	256QAM	12	7	17.53	17.62	17.46				
5	256QAM	12	13	17.53	17.70	17.58	19	5		
5	256QAM	25	0	17.41	17.46	17.53				
Channel										
Frequency (MHz)				867.5	868.5	970.5	Turn-up (dB)	MFR (dB)		
3	QPSK	1	0	22.54	22.74	22.75	24	0		
3	QPSK	1	8	22.65	22.61	22.76				
3	QPSK	1	14	22.85	22.66	22.48				
3	QPSK	8	0	21.51	21.74	21.66	23	1		
3	QPSK	8	4	21.60	21.50	21.37				
3	QPSK	8	7	21.59	21.67	21.44				
3	16QAM	1	0	21.52	21.66	21.45	23	1		
3	16QAM	1	6	21.60	21.51	21.49				
3	16QAM	1	8	21.48	21.46	21.50				
3	16QAM	8	0	20.83	20.82	20.87	22	2		
3	16QAM	8	4	20.74	20.71	20.85				
3	16QAM	8	4	20.53	20.50	20.60				
3	16QAM	15	0	20.50	20.63	20.63				
3	64QAM	1	0	20.54	20.73	20.55	22	2		
3	64QAM	1	8	20.75	20.84	20.59				
3	64QAM	1	14	20.71	20.71	20.73				
3	64QAM	8	0	19.63	19.65	19.65	21	3		
3	64QAM	8	4	19.43	19.43	19.44				
3	64QAM	8	7	19.46	19.50	19.46				
3	256QAM	1	0	17.65	17.62	17.65	19	5		
3	256QAM	1	8	17.65	17.68	17.68				
3	256QAM	1	14	17.86	17.86	17.75				
3	256QAM	8	0	17.61	17.64	17.47	19	5		
3	256QAM	8	4	17.60	17.72	17.43				
3	256QAM	15	0	17.53	17.76	17.52				
3	256QAM	15	6	17.40	17.64	17.52				
Channel										
Frequency (MHz)				867.7	868.5	970.3	Turn-up (dB)	MFR (dB)		
1.4	QPSK	1	0	22.62	22.71	22.65	24	0		
1.4	QPSK	1	3	22.58	22.63	22.73				
1.4	QPSK	1	5	22.65	22.60	22.58				
1.4	QPSK	1	8	22.62	22.70	22.58				
1.4	QPSK	3	1	22.53	22.60	22.72				
1.4	QPSK	3	3	22.53	22.65	22.49	23	1		
1.4	16QAM	1	0	21.60	21.60	21.61				
1.4	16QAM	1	0	21.83	21.66	21.35	23	1		
1.4	16QAM	1	3	21.58	21.64	21.49				
1.4	16QAM	1	3	21.58	21.66	21.49				
1.4	16QAM	3	0	21.57	21.56	21.48				
1.4	16QAM	3	1	21.45	21.52	21.55				
1.4	16QAM	3	1	21.58	21.66	21.44				
1.4	16QAM	6	0	20.74	20.72	20.66	22	2		
1.4	64QAM	1	0	20.49	20.74	20.66				
1.4	64QAM	1	8	20.68	20.83	20.56	22	2		
1.4	64QAM	1	5	20.59	20.66	20.52				
1.4	64QAM	3	0	20.63	20.76	20.56				
1.4	64QAM	3	0	20.70	20.69	20.91				
1.4	64QAM	3	3							



Band 38 Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.77	21.92	21.86	23.2	0		
20	QPSK	1	49	21.85	21.81	21.73				
20	QPSK	1	99	21.69	21.78	21.67				
20	QPSK	50	0	21.80	21.85	21.74	23	0.2		
20	QPSK	50	24	21.75	21.75	21.73				
20	QPSK	50	50	21.63	21.74	21.64				
20	QPSK	100	0	21.61	21.82	21.80	23	0.2		
20	16QAM	1	0	21.77	21.79	21.68				
20	16QAM	1	49	21.65	21.76	21.62				
20	16QAM	1	99	21.71	21.73	21.68	22	1.2		
20	16QAM	50	0	21.23	21.22	21.25				
20	16QAM	50	24	21.06	21.15	21.08				
20	16QAM	50	50	21.14	21.28	21.16	22	1.2		
20	16QAM	100	0	21.12	21.18	21.08				
20	16QAM	100	0	21.28	21.31	21.19				
20	84QAM	1	49	21.32	21.47	21.37	22	1.2		
20	84QAM	1	99	21.16	21.18	21.23				
20	84QAM	50	0	20.11	20.19	20.19				
20	84QAM	50	24	19.94	20.01	19.99	21	2.2		
20	84QAM	50	50	20.02	20.07	19.99				
20	84QAM	100	0	20.00	20.18	20.08				
20	256QAM	1	0	18.19	18.29	18.21	19	4.2		
20	256QAM	1	49	18.18	18.24	18.25				
20	256QAM	1	99	18.37	18.47	18.29				
20	256QAM	50	0	18.13	18.17	17.98	19	4.2		
20	256QAM	50	24	18.00	18.22	18.00				
20	256QAM	50	50	18.12	18.28	18.16				
20	256QAM	100	0	17.95	18.21	18.08				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.73	21.87	21.79	23.2	0		
15	QPSK	1	37	21.78	21.74	21.68				
15	QPSK	1	74	21.65	21.74	21.63				
15	QPSK	36	0	21.72	21.78	21.69	23	0.2		
15	QPSK	36	20	21.72	21.68	21.69				
15	QPSK	36	39	21.57	21.68	21.58				
15	QPSK	75	0	21.54	21.75	21.75	23	0.2		
15	16QAM	1	0	21.71	21.70	21.57				
15	16QAM	1	37	21.61	21.67	21.57				
15	16QAM	1	74	21.64	21.70	21.64	22	1.2		
15	16QAM	36	0	21.09	21.10	21.12				
15	16QAM	36	20	20.93	21.06	21.01				
15	16QAM	36	39	21.08	21.22	21.06	22	1.2		
15	16QAM	75	0	21.03	21.06	20.94				
15	16QAM	75	0	21.19	21.18	21.13				
15	84QAM	1	0	21.22	21.32	21.24	22	1.2		
15	84QAM	1	37	21.11	21.14	21.19				
15	84QAM	36	0	20.08	20.07	20.12				
15	84QAM	36	20	19.82	19.95	19.84	21	2.2		
15	84QAM	36	39	19.92	20.02	19.86				
15	84QAM	75	0	19.88	20.09	19.95				
15	256QAM	1	0	18.07	18.20	18.12	19	4.2		
15	256QAM	1	37	18.09	18.10	18.17				
15	256QAM	1	74	18.31	18.33	18.26				
15	256QAM	36	0	18.02	18.02	17.84	19	4.2		
15	256QAM	36	20	17.90	18.18	17.86				
15	256QAM	36	39	18.03	18.21	18.10				
15	256QAM	75	0	17.82	18.09	18.00				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	21.69	21.84	21.78	23.2	0		
10	QPSK	1	25	21.80	21.74	21.65				
10	QPSK	1	49	21.65	21.72	21.58				
10	QPSK	25	0	21.77	21.76	21.69	23	0.2		
10	QPSK	25	12	21.68	21.68	21.65				
10	QPSK	25	25	21.56	21.65	21.59				
10	QPSK	50	0	21.56	21.76	21.71	23	0.2		
10	16QAM	1	0	21.73	21.73	21.62				
10	16QAM	1	25	21.61	21.69	21.54				
10	16QAM	1	49	21.63	21.64	21.64	22	1.2		
10	16QAM	25	0	21.12	21.18	21.15				
10	16QAM	25	12	21.02	21.11	20.96				
10	16QAM	25	25	21.05	21.16	21.02	22	1.2		
10	16QAM	50	0	20.98	21.13	20.93				
10	16QAM	50	0	21.16	21.17	21.10				
10	84QAM	1	25	21.29	21.41	21.29	22	1.2		
10	84QAM	1	49	21.08	21.14	21.16				
10	84QAM	25	0	20.02	20.08	20.08				
10	84QAM	25	12	19.82	19.90	19.94	21	2.2		
10	84QAM	25	25	19.92	19.94	19.95				
10	84QAM	50	0	19.95	20.10	20.05				
10	256QAM	1	0	18.08	18.21	18.08	19	4.2		
10	256QAM	1	25	18.03	18.14	18.18				
10	256QAM	1	49	18.25	18.40	18.22				
10	256QAM	25	0	18.05	18.09	17.87	19	4.2		
10	256QAM	25	12	17.86	18.14	17.85				
10	256QAM	25	25	18.05	18.23	18.02				
10	256QAM	50	0	17.90	18.13	17.98				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.70	21.86	21.81	23.2	0		
5	QPSK	1	12	21.81	21.74	21.65				
5	QPSK	1	24	21.60	21.74	21.63				
5	QPSK	12	0	21.73	21.79	21.68	23	0.2		
5	QPSK	12	7	21.66	21.67	21.64				
5	QPSK	12	13	21.57	21.70	21.58				
5	QPSK	25	0	21.55	21.76	21.73	23	0.2		
5	16QAM	1	0	21.74	21.75	21.63				
5	16QAM	1	12	21.57	21.68	21.53				
5	16QAM	1	24	21.65	21.69	21.61	22	1.2		
5	16QAM	12	0	21.16	21.14	21.16				
5	16QAM	12	7	20.94	21.07	20.97				
5	16QAM	12	13	21.04	21.14	21.07	22	1.2		
5	16QAM	25	0	20.99	21.04	20.94				
5	16QAM	25	0	21.24	21.25	21.07				
5	84QAM	1	12	21.25	21.43	21.25	22	1.2		
5	84QAM	1	24	21.06	21.03	21.14				
5	84QAM	12	0	20.05	20.05	20.07				
5	84QAM	12	7	19.86	19.86	19.86	21	2.2		
5	84QAM	12	13	19.90	20.00	19.92				
5	84QAM	25	0	19.96	20.04	19.99				
5	256QAM	1	0	18.12	18.16	18.13	19	4.2		
5	256QAM	1	12	18.12	18.12	18.13				
5	256QAM	1	24	18.31	18.40	18.19				
5	256QAM	12	0	17.99	18.11	17.85	19	4.2		
5	256QAM	12	7	17.88	18.19	17.92				
5	256QAM	12	13	17.99	18.14	18.12				
5	256QAM	25	0	17.81	18.16	17.94				

Band 38 HPUE Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.54	23.66	23.62	24.8	0		
20	QPSK	1	49	23.59	23.60	23.50				
20	QPSK	1	99	23.49	23.49	23.39				
20	QPSK	50	0	23.59	23.64	23.54	24.8	0		
20	QPSK	50	24	23.54	23.54	23.48				
20	QPSK	50	50	23.44	23.49	23.44				
20	QPSK	100	0	23.41	23.55	23.52	24.8	0		
20	16QAM	1	0	23.56	23.57	23.41				
20	16QAM	1	49	23.40	23.51	23.34				
20	16QAM	1	99	23.51	23.55	23.50	24.8	0		
20	16QAM	50	0	23.08	23.10	23.21				
20	16QAM	50	24	22.91	23.08	23.01				
20	16QAM	50	50	23.00	23.21	23.06	24.8	0		
20	16QAM	100	0	22.98	23.08	23.03				
20	16QAM	100	0	23.20	23.18	23.07				

### Band 41 Ant 0

Channel	Frequency (MHz)	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)
20	QPSK 1	21.90	21.81	21.95	21.91	21.80	23.2	0
20	QPSK 1	21.79	21.89	21.88	21.77	21.78		
20	QPSK 1	21.79	21.75	21.84	21.70	21.80		
20	QPSK 50	21.85	21.86	21.91	21.78	21.78		
20	QPSK 50	21.73	21.79	21.80	21.78	21.75		
20	QPSK 50	21.70	21.69	21.82	21.70	21.70		
20	QPSK 100	21.73	21.69	21.86	21.85	21.74		
20	16QAM 1	21.71	21.80	21.85	21.73	21.71		
20	16QAM 1	21.75	21.69	21.81	21.67	21.72		
20	16QAM 1	21.71	21.75	21.82	21.76	21.72		
20	16QAM 50	21.21	21.31	21.27	21.42	21.20		
20	16QAM 50	21.16	21.24	21.28	21.21	21.18		
20	16QAM 50	21.19	21.30	21.35	21.29	21.20		
20	16QAM 100	21.17	21.27	21.25	21.21	21.18		
20	64QAM 1	21.29	21.36	21.39	21.25	21.33		
20	64QAM 1	21.32	21.40	21.35	21.30	21.37		
20	64QAM 1	21.15	21.25	21.30	21.28	21.21		
20	64QAM 50	20.18	20.27	20.23	20.28	20.21		
20	64QAM 50	19.97	20.08	20.17	20.08	19.98		
20	64QAM 50	20.03	20.09	20.13	20.07	19.99		
20	64QAM 100	20.07	20.15	20.28	20.20	20.09		
20	256QAM 1	18.17	18.30	18.41	18.31	18.18		
20	256QAM 1	18.25	18.32	18.34	18.41	18.28		
20	256QAM 1	18.36	18.43	18.32	18.41	18.37		
20	256QAM 50	18.23	18.29	18.25	18.13	18.17		
20	256QAM 50	18.09	18.10	18.37	18.18	18.15		
20	256QAM 50	18.11	18.19	18.22	18.23	18.12		
20	256QAM 100	18.20	18.16	18.29	18.20	17.99		
Channel	Frequency (MHz)	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)
15	QPSK 1	21.75	21.69	21.89	21.78	21.76	23	0
15	QPSK 1	21.71	21.82	21.74	21.64	21.70		
15	QPSK 1	21.65	21.69	21.77	21.65	21.68		
15	QPSK 36	21.82	21.71	21.87	21.75	21.70		
15	QPSK 36	21.70	21.69	21.75	21.72	21.70		
15	QPSK 36	21.58	21.57	21.70	21.56	21.63		
15	QPSK 75	21.68	21.59	21.79	21.81	21.65		
15	16QAM 1	21.59	21.68	21.79	21.61	21.63		
15	16QAM 1	21.71	21.58	21.74	21.64	21.63		
15	16QAM 1	21.60	21.70	21.68	21.66	21.66		
15	16QAM 36	21.09	21.26	21.14	21.33	21.13		
15	16QAM 36	21.04	21.16	21.23	21.15	21.06		
15	16QAM 36	21.12	21.19	21.22	21.16	21.15		
15	16QAM 75	21.03	21.18	21.17	21.14	21.07		
15	64QAM 1	21.16	21.26	21.29	21.20	21.24		
15	64QAM 1	21.24	21.26	21.25	21.19	21.22		
15	64QAM 1	21.04	21.21	21.21	21.21	21.11		
15	64QAM 36	20.05	20.24	20.16	20.16	20.10		
15	64QAM 36	19.84	19.99	20.09	20.01	19.90		
15	64QAM 36	19.96	19.98	20.02	19.92	19.85		
15	64QAM 75	19.95	20.01	20.21	20.16	20.05		
15	256QAM 1	18.05	18.15	18.35	18.20	18.10		
15	256QAM 1	18.21	18.21	18.20	18.31	18.13		
15	256QAM 1	18.30	18.37	18.21	18.30	18.27		
15	256QAM 36	18.15	18.18	18.14	18.01	18.13		
15	256QAM 36	18.05	18.14	18.27	18.04	18.04		
15	256QAM 36	18.06	18.12	18.17	18.14	18.07		
15	256QAM 75	18.06	18.05	18.18	18.14	17.89		
Channel	Frequency (MHz)	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)
10	QPSK 1	21.80	21.70	21.92	21.79	21.67	23.20	0
10	QPSK 1	21.69	21.83	21.82	21.71	21.74		
10	QPSK 1	21.73	21.68	21.74	21.58	21.76		
10	QPSK 25	21.80	21.75	21.79	21.74	21.64		
10	QPSK 25	21.69	21.66	21.76	21.68	21.65		
10	QPSK 25	21.63	21.65	21.78	21.65	21.66		
10	QPSK 50	21.65	21.63	21.77	21.79	21.65		
10	16QAM 1	21.63	21.71	21.75	21.65	21.66		
10	16QAM 1	21.61	21.56	21.70	21.56	21.66		
10	16QAM 1	21.63	21.66	21.75	21.71	21.65		
10	16QAM 25	21.07	21.21	21.18	21.39	21.12		
10	16QAM 25	21.02	21.12	21.25	21.07	21.08		
10	16QAM 25	21.13	21.24	21.30	21.16	21.13		
10	16QAM 50	21.02	21.22	21.21	21.07	21.12		
10	64QAM 1	21.19	21.32	21.27	21.19	21.24		
10	64QAM 1	21.25	21.26	21.26	21.17	21.28		
10	64QAM 1	21.03	21.13	21.18	21.18	21.09		
10	64QAM 25	20.10	20.21	20.17	20.11	20.17		
10	64QAM 25	19.91	20.02	20.13	20.01	19.90		
10	64QAM 25	19.99	20.02	20.01	19.97	19.94		
10	64QAM 50	20.00	20.10	20.22	20.06	20.04		
10	256QAM 1	18.14	18.18	18.28	18.24	18.04		
10	256QAM 1	18.11	18.24	18.23	18.33	18.23		
10	256QAM 1	18.27	18.37	18.27	18.34	18.30		
10	256QAM 25	18.08	18.21	18.13	18.05	18.11		
10	256QAM 25	17.98	18.02	18.32	18.15	18.08		
10	256QAM 25	17.96	18.15	18.12	18.13	18.05		
10	256QAM 50	18.16	18.02	18.23	18.10	17.96		
Channel	Frequency (MHz)	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)
5	QPSK 1	21.83	21.72	21.85	21.85	21.65	23.20	0
5	QPSK 1	21.69	21.78	21.82	21.72	21.68		
5	QPSK 1	21.73	21.66	21.74	21.56	21.73		
5	QPSK 12	21.81	21.76	21.79	21.74	21.66		
5	QPSK 12	21.69	21.72	21.69	21.67	21.68		
5	QPSK 12	21.61	21.57	21.69	21.66	21.66		
5	QPSK 25	21.67	21.57	21.76	21.75	21.70		
5	16QAM 1	21.67	21.70	21.81	21.69	21.65		
5	16QAM 1	21.67	21.60	21.69	21.62	21.68		
5	16QAM 1	21.62	21.62	21.77	21.69	21.67		
5	16QAM 12	21.13	21.20	21.13	21.29	21.14		
5	16QAM 12	21.09	21.17	21.19	21.11	21.04		
5	16QAM 12	21.05	21.18	21.28	21.20	21.10		
5	16QAM 25	21.04	21.20	21.13	21.18	21.10		
5	64QAM 1	21.24	21.23	21.32	21.11	21.21		
5	64QAM 1	21.20	21.26	21.21	21.20	21.23		
5	64QAM 1	21.07	21.19	21.18	21.18	21.17		
5	64QAM 12	20.11	20.14	20.19	20.12	20.13		
5	64QAM 12	19.91	19.93	20.14	20.01	19.85		
5	64QAM 12	19.99	20.04	20.04	19.98	19.89		
5	64QAM 25	20.02	20.02	20.20	20.12	20.02		
5	256QAM 1	18.09	18.25	18.30	18.23	18.05		
5	256QAM 1	18.14	18.20	18.25	18.29	18.18		
5	256QAM 1	18.31	18.38	18.23	18.27	18.24		
5	256QAM 12	18.08	18.25	18.13	18.09	18.06		
5	256QAM 12	18.01	18.00	18.33	18.04	18.12		
5	256QAM 12	18.08	18.09	18.13	18.18	18.06		
5	256QAM 25	18.15	18.10	18.22	18.13	17.86		

### Band 41 HPUE Ant 0

Channel	Frequency (MHz)	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)
20	QPSK 1	23.94	23.82	23.98	23.94	23.80	24.8	0
20	QPSK 1	23.77	23.88	23.91	23.77	23.78		
20	QPSK 1	23.82	23.80	23.82	23.66	23.82		
20	QPSK 50	23.87	23.90	23.92	23.85	23.82		
20	QPSK 50	23.72	23.83	23.84	23.79	23.71		
20	QPSK 50	23.74	23.75	23.79	23.75	23.69		
20	QPSK 100	23.70	23.71	23.85	23.84	23.76		
20	16QAM 1	23.70	23.83	23.85	23.70	23.70		
20	16QAM 1	23.77	23.69	23.78	23.62	23.72		
20	16QAM 1	23.68	23.81	23.83	23.79	23.73		
20	16QAM 50	23.40	23.55	23.42	23.61	23.46		
20	16QAM 50	23.43	23.46	23.54	23.47	23.36		
20	16QAM 50	23.37	23.50	23.51	23.52	23.41		
20	16QAM 100	23.37	23.51	23.46	23.41	23.34		
20	64QAM 1	23.49	23.57	23.62	23.43	23.52		
20	64QAM 1	23.53	23.56	23.51	23.54	23.63		
20	64QAM 1	23.32	23.47	23.53	23.48	23.37		
20	64QAM 50	22.33	22.46	22.42	22.49	22.43		
20	64QAM 50	22.23	22.30	22.42	22.26	22.22		
20	64QAM 50	22.27	22.25	22.30	22.24	22.15		
20	64QAM 100	22.25	22.27	22.46	22.35	22.27		
20	256QAM 1	20.39	20.54	20.61	20.50	20.35		
20	256QAM 1	20.42	20.52	20.51	20.59	20.52		
20	256QAM 1	20.59	20.59	20.52	20.60	20.57		
20	256QAM 50	20.43	20.53	20.48	20.37	20.37		
20	256QAM 50	20.40	20.32	20.59	20.36	20.40		
20	256QAM 50	20.32	20.42	20.45	20.46	20.31		
20	256QAM 100	20.45	20.35					



GSM850 Ant1	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)	32.86	32.94	32.91	33.50	23.86	23.94	23.91	24.50
GSM 1 Tx slot	32.84	32.92	32.77	33.50	23.84	23.92	23.77	24.50
GPRS 1 Tx slots	30.15	30.29	30.17	31.00	24.15	24.29	24.17	25.00
GPRS 2 Tx slots	28.62	28.74	28.64	29.50	24.36	24.48	24.38	25.24
GPRS 3 Tx slots	26.68	26.76	26.69	28.00	23.68	23.76	23.69	25.00
GPRS 4 Tx slots	25.82	25.93	25.86	27.00	16.82	16.93	16.86	18.00
EDGE 1 Tx slot	25.06	25.13	24.99	26.00	19.06	19.13	18.99	20.00
EDGE 2 Tx slots	23.34	23.41	23.27	24.50	19.08	19.15	19.01	20.24
EDGE 3 Tx slots	21.68	21.81	21.70	23.00	18.68	18.81	18.70	20.00
EDGE 4 Tx slots								

GSM1900 Ant1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.20	1880.00	1909.80	
Frequency (MHz)	28.21	29.28	29.24	30.50	20.21	20.28	20.24	21.50
GSM 1 Tx slot	29.12	29.23	29.15	30.50	20.12	20.23	20.15	21.50
GPRS 1 Tx slots	26.11	26.17	26.06	27.00	20.11	20.17	20.06	21.00
GPRS 2 Tx slots	24.42	24.54	24.41	25.50	20.16	20.28	20.15	21.24
GPRS 3 Tx slots	22.75	22.88	22.74	24.00	19.75	19.88	19.74	21.00
GPRS 4 Tx slots	24.05	24.20	24.10	25.00	15.05	15.20	15.10	16.00
EDGE 1 Tx slot	23.08	23.21	23.09	24.00	17.08	17.21	17.09	18.00
EDGE 2 Tx slots	21.79	21.88	21.78	23.00	17.53	17.62	17.52	18.74
EDGE 3 Tx slots	20.06	20.15	20.01	21.00	17.08	17.15	17.01	18.00
EDGE 4 Tx slots								

Band	TX Channel	WCDMA II Ant1			Tune-up Limit (dBm)	WCDMA IV Ant1			Tune-up Limit (dBm)	WCDMA V Ant1			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
	Frequency (MHz)	9662.00	9800.00	9938.00		1537.00	1638.00	1738.00		4357.00	4407.00	4458.00	
	3GPP Rel 99	1852.40	1880.00	1907.60		1712.40	1732.60	1752.60		826.40	836.40	846.60	
3GPP Rel 99	AMR 12.2Kbps	20.98	21.03	20.83	22.00	20.92	20.89	20.75	22.10	23.34	23.38	23.30	24.00
3GPP Rel 99	RMC 12.2Kbps	21.02	21.07	20.91	22.00	20.94	20.96	20.84	22.10	23.37	23.42	23.35	24.00
3GPP Rel 6	HSDPA Subtest-1	19.98	19.97	19.88	21.00	19.83	19.91	19.75	21.10	22.29	22.37	22.27	23.00
3GPP Rel 6	HSDPA Subtest-2	19.97	20.10	19.76	21.00	19.88	19.91	19.72	21.10	22.29	22.43	22.13	23.00
3GPP Rel 6	HSDPA Subtest-3	19.53	19.57	19.54	20.50	19.45	19.48	19.43	20.60	21.81	21.91	21.79	22.50
3GPP Rel 6	HSDPA Subtest-4	19.29	19.59	19.55	20.50	19.25	19.44	19.41	20.60	21.73	21.86	21.94	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	19.87	19.96	19.91	21.00	19.82	19.88	19.86	21.10	22.33	22.38	22.23	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.91	20.01	20.05	21.00	19.86	19.96	19.93	21.10	22.32	22.33	22.33	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.30	19.50	19.36	20.50	19.24	19.40	19.30	20.60	21.70	21.83	21.72	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.32	19.61	19.46	20.50	19.22	19.31	19.36	20.60	21.57	21.89	21.65	22.50
3GPP Rel 6	HSUPA Subtest-1	20.00	20.05	20.04	21.00	19.85	19.79	19.86	21.10	22.22	22.38	22.37	23.00
3GPP Rel 6	HSUPA Subtest-2	18.03	18.07	18.07	19.00	17.90	17.96	18.00	19.10	20.47	20.49	20.34	21.00
3GPP Rel 6	HSUPA Subtest-3	19.04	19.06	18.91	20.00	19.00	18.98	18.88	20.10	21.48	21.32	21.27	22.00
3GPP Rel 6	HSUPA Subtest-4	17.94	18.05	17.95	19.00	17.89	17.94	17.91	19.10	20.18	20.42	20.43	21.00
3GPP Rel 6	HSUPA Subtest-5	20.00	19.94	19.80	21.00	19.95	19.87	19.76	21.10	22.24	22.37	22.24	23.00



Band 2 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Time-up limit (sec)	MPE (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.75	21.94	21.81				
20	QPSK	1	49	21.83	21.76	21.76		22	0	
20	QPSK	50	0	20.99	20.93	20.95				
20	QPSK	50	24	20.78	20.86	20.82		22	0	
20	QPSK	50	50	20.70	20.80	20.68				
20	QPSK	100	0	20.79	20.80	20.86				
20	QPSK	100	50	20.83	20.92	20.73				
20	HQAM	1	49	20.87	20.89	20.83		22	0	
20	HQAM	1	99	20.85	20.84	20.82				
20	HQAM	50	0	19.98	19.97	19.98				
20	HQAM	50	24	19.74	20.00	19.87		21	1	
20	HQAM	50	50	19.97	19.74	19.89				
20	HQAM	100	0	19.82	19.85	19.89				
20	HQAM	100	50	19.63	19.73	19.52				
20	HQAM	1	49	19.64	19.59	19.65		21	1	
20	HQAM	50	0	19.65	19.64	19.63				
20	HQAM	50	24	18.60	18.96	18.74				
20	HQAM	50	50	18.79	18.78	18.76		20	2	
20	HQAM	100	0	18.68	18.70	18.77				
20	HQAM	100	50	18.74	18.56	18.76				
20	SSQAM	1	49	16.72	16.85	16.80		18	4	
20	SSQAM	1	99	16.69	16.72	16.67				
20	SSQAM	50	0	16.84	16.84	16.79				
20	SSQAM	50	24	16.88	16.86	16.69		18	4	
20	SSQAM	50	50	16.78	16.81	16.84				
20	SSQAM	100	0	16.77	16.81	16.82				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.83	21.78	21.89				
15	QPSK	1	37	21.82	21.87	21.82		22	0	
15	QPSK	1	74	21.85	21.72	21.84				
15	QPSK	96	0	20.83	20.90	20.76				
15	QPSK	96	20	20.64	20.73	20.69		22	0	
15	QPSK	96	39	20.56	20.65	20.59				
15	QPSK	75	0	20.76	20.69	20.77				
15	QPSK	75	20	20.75	20.78	20.62		22	0	
15	HQAM	1	37	20.53	20.75	20.72				
15	HQAM	1	74	20.54	20.65	20.64				
15	HQAM	36	0	19.84	19.78	19.71				
15	HQAM	36	20	19.70	19.97	19.74		21	1	
15	HQAM	36	39	19.68	19.86	19.83				
15	HQAM	75	0	19.70	19.70	19.80				
15	HQAM	75	20	19.47	19.67	19.48		21	1	
15	HQAM	75	39	19.66	19.78	19.67				
15	HQAM	1	74	19.49	19.53	19.53				
15	HQAM	36	0	18.49	18.75	18.67				
15	HQAM	36	20	18.67	18.69	18.69		20	2	
15	HQAM	36	39	18.54	18.77	18.55				
15	HQAM	75	0	18.62	18.68	18.72				
15	SSQAM	1	37	16.84	16.78	16.70		18	4	
15	SSQAM	1	74	16.68	16.83	16.67				
15	SSQAM	50	0	16.84	16.84	16.79				
15	SSQAM	50	24	16.72	16.77	16.59		18	4	
15	SSQAM	50	39	16.83	16.76	16.72				
15	SSQAM	75	0	16.73	16.74	16.73				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.85	21.73	21.81				
10	QPSK	1	49	21.52	21.65	21.60		22	0	
10	QPSK	25	0	20.84	20.86	20.86				
10	QPSK	25	12	20.66	20.82	20.68		22	0	
10	QPSK	25	25	20.67	20.73	20.64				
10	HQAM	1	0	20.72	20.81	20.63				
10	HQAM	1	25	20.84	20.78	20.79		22	0	
10	HQAM	25	0	20.66	20.78	20.67				
10	HQAM	25	12	19.89	19.82	19.83				
10	HQAM	25	12	19.65	19.84	19.79		21	1	
10	HQAM	25	25	19.78	19.88	19.83				
10	HQAM	50	0	19.68	19.81	19.87				
10	HQAM	50	25	19.58	19.76	19.81		21	1	
10	HQAM	1	49	19.50	19.56	19.55				
10	HQAM	25	0	18.53	18.70	18.63				
10	HQAM	25	12	18.78	18.82	18.83		20	2	
10	HQAM	25	25	18.66	18.72	18.64				
10	HQAM	50	0	18.61	18.68	18.67				
10	SSQAM	1	49	16.84	16.84	16.68		18	4	
10	SSQAM	1	99	16.84	16.85	16.52				
10	SSQAM	50	0	16.84	16.79	16.83				
10	SSQAM	50	25	16.71	16.84	16.61		18	4	
10	SSQAM	25	0	16.71	16.76	16.71				
10	SSQAM	25	25	16.71	16.76	16.71				
10	SSQAM	50	0	16.77	16.83	16.68				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.83	21.78	21.89				
5	QPSK	1	12	21.85	21.70	21.55		22	0	
5	QPSK	1	24	21.48	21.66	21.56				
5	QPSK	12	0	20.48	20.66	20.56				
5	QPSK	12	7	20.65	20.72	20.71		22	0	
5	QPSK	12	13	20.69	20.85	20.57				
5	HQAM	1	0	20.71	20.84	20.67				
5	HQAM	1	0	20.76	20.84	20.59		22	0	
5	HQAM	12	0	19.86	19.75	19.75				
5	HQAM	12	7	19.69	19.83	19.76		21	1	
5	HQAM	12	13	19.78	19.62	19.76				
5	HQAM	25	0	19.74	19.78	19.80				
5	HQAM	1	0	19.41	19.62	19.26		21	1	
5	HQAM	1	12	19.69	19.67	19.64				
5	HQAM	1	24	19.49	19.49	19.49				
5	HQAM	12	0	18.55	18.80	18.61				
5	HQAM	12	7	18.72	18.85	18.61		20	2	
5	HQAM	12	13	18.71	18.68	18.62				
5	HQAM	25	0	18.64	18.69	18.69				
5	SSQAM	1	0	16.67	16.73	16.66				
5	SSQAM	1	12	16.69	16.72	16.68		18	4	
5	SSQAM	1	24	16.67	16.57	16.56				
5	SSQAM	12	0	16.69	16.81	16.67				
5	SSQAM	12	7	16.69	16.79	16.61		18	4	
5	SSQAM	25	0	16.69	16.69	16.61				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.87	21.80	21.82				
3	QPSK	1	8	21.63	21.70	21.61		22	0	
3	QPSK	1	14	21.59	21.72	21.60				
3	QPSK	3	0	20.83	20.83	20.83				
3	QPSK	3	4	20.64	20.71	20.64		22	0	
3	QPSK	3	7	20.59	20.77	20.60				
3	HQAM	1	0	20.70	20.84	20.64				
3	HQAM	1	0	20.81	20.91	20.64		22	0	
3	HQAM	3	0	20.63	20.73	20.66				
3	HQAM	3	4	19.89	19.83	19.78				
3	HQAM	3	8	19.61	19.86	19.78		21	1	
3	HQAM	3	14	19.69	19.69	19.74				
3	HQAM	15	0	19.75	19.77	19.81				
3	HQAM	1	0	19.47	19.58	19.47		21	1	
3	HQAM	1	0	19.55	19.59	19.49				
3	HQAM	1	14	19.55	19.51	19.51				
3	HQAM	3	0	18.63	18.76	18.62				
3	HQAM	3	7	18.74	18.91	18.84		20	2	
3	HQAM	3	7	18.70	18.70	18.60				
3	HQAM	15	0	18.71	18.67	18.65				
3	SSQAM	1	8	16.60	16.74	16.70		18	4	
3	SSQAM	3	0	16.67	16.66	16.66				
3	SSQAM	3	8	16.83	16.83	16.72				
3	SSQAM	4	0	16.83	16.82	16.82		18	4	
3	SSQAM	3	7	16.69	16.75	16.71				
3	SSQAM	15	0	16.75	16.83	16.53				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.87	21.80	21.82				
1.4	QPSK	1	3	21.67	21.74	21.80		22	0	
1.4	QPSK	1	5	21.65	21.88	21.82				
1.4	QPSK	3	0	21.78	21.79	21.80				
1.4	QPSK	3	1	21.58	21.80	21.76				
1.4	QPSK	3	1	21.53	21.77	21.70		22	0	
1.4	QPSK	9	0	20.69	20.88	20.75				
1.4	HQAM	1	0	20.66	20.74	20.60				
1.4	HQAM	1	0	20.70	20.77	20.65		22	0	
1.4	HQAM	1	5	20.67	20.68	20.59				
1.4	HQAM	3	0	20.71	20.87	20.64				
1.4	HQAM	3	1	20.66	20.81	20.67				
1.4	HQAM	3	3	20.58	20.82	20.78				
1.4	HQAM	6	0	19.89	19.88	19.87		21	1	
1.4	HQAM	1	0	19.61	19.76	19.67				
1.4	HQAM	1	3	19.81	19.66	19.86				
1.4	HQAM	1	5	19.89	19.79	19.89		21	1	
1.4	HQAM	3	0	19.66	19.76	19.66				
1.4	HQAM	3	1	19.58	19.85	19.61				
1.4	HQAM	3	3	19.49	19.57	19.58				
1.4	HQAM	3	6	18.76	18.86	18.86		20	2	
1.4	HQAM	3	0	18.76	18.86	18.86				
1.4	SSQAM	1	0	16.77	16.81	16.80				
1.4	SSQAM	1	3	16.69	16.86					



Band 7 Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)				
Channel												
Frequency (MHz)			2510	2515	2520							
20	QPSK	1	0	18.80	18.98	18.23	20.4	0				
20	QPSK	1	49	18.79	18.88	18.83						
20	QPSK	50	0	18.88	18.94	18.80						
20	QPSK	50	24	18.78	18.82	18.73						
20	QPSK	50	50	18.81	18.84	18.79						
20	QPSK	100	0	18.80	18.85	18.75						
20	HQAM	1	49	18.70	18.79	18.72	20.4	0				
20	HQAM	1	99	18.78	18.81	18.78						
20	HQAM	5	0	18.82	18.82	18.82						
20	HQAM	50	24	18.83	18.82	18.78						
20	HQAM	50	50	18.72	18.71	18.66						
20	HQAM	100	0	18.87	18.74	18.73						
20	HQAM	1	0	18.82	18.87	18.83						
20	HQAM	1	49	18.73	18.87	18.86	20.4	0				
20	HQAM	50	0	18.72	18.85	18.73						
20	HQAM	50	24	18.87	18.83	18.86						
20	HQAM	50	50	18.87	18.83	18.81						
20	HQAM	100	0	18.77	18.81	18.86	20	0.4				
20	ZSSBAM	1	49	18.70	18.82	18.79						
20	ZSSBAM	1	99	18.63	18.66	18.65	18	2.4				
20	ZSSBAM	50	24	18.83	18.82	18.82						
20	ZSSBAM	50	24	18.85	18.70	18.75	18	2.4				
20	ZSSBAM	50	50	18.71	18.70	18.64						
20	ZSSBAM	100	0	20.65	21.00	21.35						
Channel												
Frequency (MHz)			2507.5	2515	2522.5	Turn-up limit (dBm)	MPE (dB)					
15	QPSK	1	0	18.74	18.94	18.87	20.4	0				
15	QPSK	1	49	18.83	18.81	18.82						
15	QPSK	1	74	18.73	18.78	18.74						
15	QPSK	36	0	18.81	18.81	18.88						
15	QPSK	36	24	18.78	18.78	18.84						
15	QPSK	36	39	18.69	18.72	18.68	20.4	0				
15	QPSK	75	0	18.86	18.74	18.84						
15	HQAM	1	49	18.72	18.74	18.69	20.4	0				
15	HQAM	1	97	18.62	18.72	18.59						
15	HQAM	36	24	18.87	18.86	18.82						
15	HQAM	36	20	18.62	18.75	18.70	20.4	0				
15	HQAM	39	24	18.87	18.86	18.82						
15	HQAM	75	0	18.84	18.88	18.80						
15	HQAM	1	0	18.84	18.87	18.80	20.4	0				
15	HQAM	37	18.80	18.78	18.80							
15	HQAM	1	74	18.49	18.47	18.57						
15	HQAM	36	0	18.86	18.71	18.87						
15	HQAM	36	39	18.81	18.80	18.80	20	0.4				
15	HQAM	36	39	18.81	18.80	18.80						
15	HQAM	75	0	18.87	18.77	18.60						
15	ZSSBAM	1	49	18.66	18.76	18.64						
15	ZSSBAM	1	97	18.64	18.73	18.70	18	2.4				
15	ZSSBAM	1	74	18.43	18.60	18.51						
15	ZSSBAM	39	24	18.87	18.86	18.82						
15	ZSSBAM	36	20	18.59	18.68	18.50	18	2.4				
15	ZSSBAM	36	39	18.62	18.61	18.54						
15	ZSSBAM	75	0	18.86	18.62	18.54						
Channel												
Frequency (MHz)			2505	2515	2525	Turn-up limit (dBm)	MPE (dB)					
10	QPSK	1	0	18.73	18.84	18.69	20.4	0				
10	QPSK	1	25	18.85	18.85	18.71						
10	QPSK	1	49	18.69	18.81	18.70						
10	QPSK	25	0	18.87	18.86	18.67						
10	QPSK	25	12	18.82	18.88	18.68	20.4	0				
10	QPSK	25	25	18.89	18.73	18.68						
10	HQAM	1	49	18.66	18.86	18.64	20.4	0				
10	HQAM	1	25	18.59	18.65	18.64						
10	HQAM	25	0	18.86	18.71	18.86						
10	HQAM	25	12	18.59	18.75	18.69	20.4	0				
10	HQAM	25	25	18.87	18.87	18.86						
10	HQAM	50	0	18.53	18.65	18.68						
10	HQAM	1	0	18.47	18.59	18.41	20.4	0				
10	HQAM	1	25	18.65	18.83	18.25						
10	HQAM	1	49	18.41	18.48	18.50						
10	HQAM	25	0	18.65	18.81	18.69						
10	HQAM	25	12	18.64	18.78	18.61						
10	HQAM	25	25	18.77	18.78	18.60	20	0.4				
10	HQAM	50	0	18.66	18.72	18.59						
10	ZSSBAM	1	25	18.62	18.71	18.69	18	2.4				
10	ZSSBAM	1	49	18.64	18.61	18.51						
10	ZSSBAM	25	0	18.67	18.77	18.61						
10	ZSSBAM	25	12	18.54	18.69	18.62	18	2.4				
10	ZSSBAM	25	25	18.62	18.62	18.51						
10	ZSSBAM	50	0	18.58	18.62	18.54						
Channel												
Frequency (MHz)			2077.5	2110	2142.5	Turn-up limit (dBm)	MPE (dB)					
5	QPSK	1	0	18.73	18.84	18.69	20.4	0				
5	QPSK	1	12	18.81	18.83	18.74						
5	QPSK	1	24	18.73	18.83	18.73						
5	QPSK	12	0	18.83	18.85	18.74						
5	QPSK	12	7	18.85	18.88	18.68	20.4	0				
5	HQAM	1	0	18.66	18.74	18.59	20.4	0				
5	HQAM	1	12	18.60	18.71	18.60						
5	HQAM	12	13	18.65	18.67	18.61	20.4	0				
5	HQAM	12	0	18.70	18.76	18.73						
5	HQAM	12	7	18.63	18.70	18.70	20.4	0				
5	HQAM	25	0	18.85	18.67	18.61						
5	HQAM	25	0	18.82	18.68	18.62						
5	HQAM	1	0	18.48	18.58	18.48	20.4	0				
5	HQAM	1	12	18.66	18.78	18.62						
5	HQAM	1	24	18.48	18.43	18.48						
5	HQAM	12	0	18.68	18.80	18.69						
5	HQAM	12	7	18.71	18.75	18.52	20	0.4				
5	HQAM	12	13	18.75	18.74	18.62						
5	HQAM	25	0	18.71	18.76	18.55						
5	ZSSBAM	1	0	18.48	18.78	18.75						
5	ZSSBAM	1	12	18.59	18.78	18.71	18	2.4				
5	ZSSBAM	1	24	18.69	18.52	18.45						
5	ZSSBAM	1	0	18.45	18.75	18.63						
5	ZSSBAM	12	7	18.59	18.71	18.59	18	2.4				
5	ZSSBAM	12	13	18.66	18.59	18.51						
5	ZSSBAM	25	0	18.63	18.65	18.64						

Band 12 Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)				
Channel												
Frequency (MHz)			704	707.5	711							
10	QPSK	1	0	22.07	23.09	23.04	24	0				
10	QPSK	1	25	22.03	22.09	22.99						
10	QPSK	1	49	22.84	23.05	22.93						
10	QPSK	25	0	22.08	22.15	21.85						
10	QPSK	25	12	22.03	22.02	21.96						
10	QPSK	25	25	22.10	22.12	21.92	23	1				
10	HQAM	1	49	21.94	22.11	21.92						
10	HQAM	1	25	21.90	22.03	21.97	23	1				
10	HQAM	1	49	22.02	22.08	22.01						
10	HQAM	1	25	21.98	22.22	21.98						
10	HQAM	25	12	21.13	21.10	21.08	22	2				
10	HQAM	25	25	20.95	21.20	21.08						
10	HQAM	50	0	20.95	21.10	21.09						
10	HQAM	1	0	21.30	21.22	21.09						
10	HQAM	1	25	21.23	21.32	21.27	22	2				
10	HQAM	1	49	20.97	21.20	21.14						
10	HQAM	25	0	20.04	20.17	20.04						
10	HQAM	25	12	19.96	20.08	19.95	21	3				
10	HQAM	25	25	20.01	20.11	19.98						
10	HQAM	50	0	19.87	20.08	19.97						
10	ZSSBAM	1	0	18.21	18.35	18.14						
10	ZSSBAM	1	25	18.07	18.28	18.15	19	5				
10	ZSSBAM	1	49	18.21	18.26	18.27						
10	ZSSBAM	1	0	18.21	18.35	18.14						
10	ZSSBAM	25	12	18.00	18.08	17.92	19	5				
10	ZSSBAM	25	25	18.08	18.18	18.07						
10	ZSSBAM	50	0	17.89	18.01	17.99						
Channel												
Frequency (MHz)			7015	707.5	713.5	Turn-up limit (dBm)	MPE (dB)					
5	QPSK	1	0	22.84	23.06	22.83	24	0				
5	QPSK	1	24	22.79	23.01	22.90						
5	QPSK	12	0	21.98	22.10	21.88						
5	QPSK	12	13	21.96	22.05	21.89	23	1				
5	HQAM	1	0	21.87	22.03	21.89						
5	HQAM	1	0	21.03	21.02	21.89						
5	HQAM	1	12	21.82	21.99	21.89	23	1				
5	HQAM	1	12	21.81	21.91	21.88						
5	HQAM	1	12	21.87	21.85	21.81	23	1				
5	HQAM	1	12	21.74	21.68	21.74						
5	HQAM	1	12	21.86	21.86	21.82						
5	HQAM	12	7	20.99	21.12	20.96	22	2				
5	HQAM	25	0	20.85	20.99	20.82						
5	HQAM	1	0	21.01	21.08	20.96						
5	HQAM	1	24	20.97	21.04	21.04	22	2				
5	HQAM	1	24	20.57	21.15	21.03						
5	HQAM	12	0	19.89	20.08	19.91						
5	HQAM	12	0	19.87	19.86	19.86						
5	HQAM	12										



Band 25 Ant 1												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.80	20.81	20.88						
20	QPSK	1	49	20.78	20.80	20.85	22	0				
20	QPSK	1	99	20.71	20.84	20.74						
20	QPSK	50	0	20.71	20.85	20.83						
20	QPSK	50	24	20.75	20.79	20.89						
20	QPSK	50	50	20.66	20.78	20.69						
20	QPSK	100	0	20.76	20.83	20.86						
20	QPSK	100	0	20.75	20.89	20.80						
20	16QAM	1	49	20.75	20.77	20.85	22	0				
20	16QAM	1	99	20.62	20.77	20.69						
20	16QAM	50	0	20.62	20.94	20.92						
20	16QAM	50	24	20.79	20.83	20.91	21	1				
20	16QAM	100	0	20.82	20.79	20.86						
20	16QAM	100	0	20.87	20.95	20.88						
20	64QAM	1	0	19.58	19.79	19.59						
20	64QAM	1	49	19.73	19.94	19.62	21	1				
20	64QAM	50	0	19.83	19.98	19.88						
20	64QAM	50	0	19.86	19.82	19.81						
20	64QAM	50	24	19.86	19.90	19.81						
20	64QAM	100	0	19.86	19.79	19.74	20	2				
20	64QAM	100	0	19.78	19.77	19.85						
20	256QAM	1	0	19.81	19.96	19.86						
20	256QAM	1	49	19.81	19.91	19.86						
20	256QAM	50	0	19.81	19.95	19.88	18	4				
20	256QAM	50	24	19.84	19.93	19.79						
20	256QAM	100	0	19.84	19.85	19.88	18	4				
20	256QAM	100	0	19.87	19.99	19.78						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.72	20.81	20.82						
15	QPSK	1	31	20.76	20.81	20.86	22	0				
15	QPSK	1	74	20.62	20.78	20.66						
15	QPSK	36	0	20.86	20.80	20.75						
15	QPSK	36	39	20.71	20.74	20.81						
15	QPSK	36	39	20.63	20.69	20.65	22	0				
15	QPSK	75	0	20.69	20.67	20.72						
15	16QAM	1	0	20.71	20.86	20.73						
15	16QAM	1	37	20.68	20.73	20.81	22	0				
15	16QAM	1	74	20.61	20.75	20.66						
15	16QAM	36	0	19.90	19.84	19.78						
15	16QAM	36	29	19.74	20.00	19.78	21	1				
15	16QAM	50	0	19.83	19.95	19.88						
15	16QAM	75	0	19.78	19.78	19.86						
15	64QAM	1	0	19.50	19.72	19.53	21	1				
15	64QAM	1	31	19.83	19.89	19.81						
15	64QAM	1	74	19.51	19.55	19.51						
15	64QAM	36	0	19.86	19.79	19.72						
15	64QAM	36	39	19.87	19.87	19.87	20	2				
15	64QAM	36	39	19.72	19.84	19.85						
15	64QAM	75	0	19.69	19.66	19.80						
15	256QAM	1	37	19.69	19.86	19.75	18	4				
15	256QAM	1	74	19.61	19.87	19.72						
15	256QAM	50	0	19.81	19.88	19.77						
15	256QAM	50	24	19.78	19.85	19.86	18	4				
15	256QAM	36	39	19.71	19.82	19.79						
15	256QAM	75	0	19.76	19.76	19.83	18	4				
Channel												
Frequency (MHz)												
20	QPSK	0	0	20.60	20.60	20.60						
10	QPSK	1	25	20.78	20.78	20.68	22	0				
10	QPSK	1	49	20.62	20.78	20.66						
10	QPSK	36	0	20.71	20.71	20.81						
10	QPSK	36	39	20.61	20.67	20.62	22	0				
10	QPSK	75	0	20.72	20.72	20.72						
10	16QAM	1	0	20.70	20.82	20.74						
10	16QAM	1	29	20.67	20.72	20.80	22	0				
10	16QAM	50	0	19.69	19.84	19.81						
10	16QAM	50	0	19.97	19.87	19.89						
10	16QAM	25	12	19.88	19.97	19.83	21	1				
10	16QAM	50	24	19.85	19.84	19.84						
10	64QAM	1	0	19.73	19.88	19.84						
10	64QAM	1	0	19.85	19.85	19.88	21	1				
10	64QAM	1	49	19.55	19.61	19.62						
10	64QAM	25	0	19.81	19.79	19.70						
10	64QAM	50	0	19.84	19.84	19.84						
10	64QAM	50	24	19.74	19.78	19.85	20	2				
10	64QAM	100	0	19.85	19.72	19.71						
10	256QAM	1	29	19.82	19.84	19.83						
10	256QAM	1	49	19.55	19.61	19.62						
10	256QAM	25	0	19.81	19.79	19.70						
10	256QAM	50	0	19.84	19.84	19.84						
10	256QAM	50	24	19.74	19.78	19.85	20	2				
10	256QAM	100	0	19.85	19.85	19.84						
10	256QAM	100	0	19.78	19.86	19.88	18	4				
10	256QAM	12	0	19.85	19.84	19.84						
10	256QAM	25	12	19.78	19.88	19.88	18	4				
10	256QAM	25	25	19.74	19.82	19.75						
10	256QAM	50	0	19.85	19.85	19.89						
Channel												
Frequency (MHz)												
20	QPSK	0	0	20.65	20.65	20.65						
5	QPSK	1	0	20.73	20.84	20.83	22	0				
5	QPSK	1	12	20.74	20.81	20.81						
5	QPSK	1	24	20.65	20.76	20.75						
5	QPSK	12	0	20.64	20.78	20.69						
5	QPSK	12	7	20.69	20.71	20.81	22	0				
5	QPSK	12	13	20.63	20.73	20.63						
5	QPSK	25	0	20.71	20.77	20.74						
5	16QAM	1	0	20.71	20.78	20.74	22	0				
5	16QAM	1	12	20.68	20.69	20.61						
5	16QAM	1	24	20.68	20.74	20.81						
5	16QAM	12	0	19.85	19.86	19.84						
5	16QAM	12	7	19.67	19.81	19.83	21	1				
5	16QAM	12	13	19.85	19.82	19.80						
5	16QAM	25	0	19.78	19.86	19.85						
5	64QAM	1	0	19.47	19.71	19.45	21	1				
5	64QAM	1	12	19.82	19.86	19.83						
5	64QAM	1	24	19.57	19.55	19.54						
5	64QAM	12	0	19.89	19.83	19.87	20	2				
5	64QAM	12	7	19.77	19.87	19.89						
5	64QAM	12	13	19.75	19.76	19.86						
5	64QAM	25	0	19.86	19.83	19.75						
5	256QAM	1	0	19.75	19.88	19.78	18	4				
5	256QAM	1	12	19.73	19.77	19.76						
5	256QAM	12	0	19.84	19.88	19.71						
5	256QAM	12	7	19.78	19.78	19.64	18	4				
5	256QAM	12	13	19.78	19.78	19.54						
5	256QAM	25	0	19.77	19.76	19.89						
Channel												
Frequency (MHz)												
20	QPSK	0	0	20.65	20.65	20.65						
3	QPSK	1	8	20.75	20.81	20.83	22	0				
3	QPSK	1	14	20.68	20.76	20.66						



Band 38 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	22.33	22.37	22.28	23	0	0		
20	QPSK	1	49	22.15	22.31	22.20					
20	QPSK	1	99	22.19	22.26	22.23					
20	QPSK	50	0	21.22	21.29	21.25					
20	QPSK	50	24	21.25	21.25	21.20	22	1			
20	QPSK	50	50	21.10	21.23	21.11					
20	QPSK	100	0	21.18	21.21	21.15					
20	16QAM	1	0	21.28	21.39	21.12					
20	16QAM	1	49	21.23	21.37	21.38	22	1	24.6	0	
20	16QAM	1	99	21.27	21.26	21.15					
20	16QAM	50	0	20.37	20.41	20.45					
20	16QAM	50	24	20.18	20.23	20.27					
20	16QAM	50	50	20.23	20.43	20.28	21	2	24	0.6	
20	16QAM	100	0	20.27	20.32	20.01					
20	64QAM	1	0	20.37	20.40	20.37					
20	64QAM	1	49	20.26	20.36	20.33					
20	64QAM	1	99	20.28	20.32	20.20	21	2	24	0.6	
20	64QAM	50	0	19.26	19.41	19.27					
20	64QAM	50	24	19.16	19.22	19.17					
20	64QAM	50	50	19.28	19.40	19.32					
20	64QAM	100	0	19.30	19.33	19.23	20	3	23	1.6	
20	256QAM	1	0	17.35	17.46	17.23					
20	256QAM	1	49	17.27	17.19	17.24					
20	256QAM	1	99	17.32	17.43	17.18					
20	256QAM	50	0	17.11	17.19	17.16	18	5	21	3.6	
20	256QAM	50	24	16.90	17.07	17.08					
20	256QAM	50	50	17.05	17.10	17.03					
20	256QAM	100	0	17.02	17.11	16.91					
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	22.29	22.30	22.14	23	0	24.6	0	
15	QPSK	1	37	22.10	22.27	22.11					
15	QPSK	1	74	22.07	22.15	22.10					
15	QPSK	36	0	21.15	21.13	21.13					
15	QPSK	36	20	21.12	21.13	21.12	22	1	24.6	0	
15	QPSK	36	39	21.05	21.17	21.01					
15	QPSK	75	0	21.14	21.08	21.07					
15	16QAM	1	0	21.17	21.32	21.07					
15	16QAM	1	37	21.10	21.29	21.29	22	1	24.6	0	
15	16QAM	1	74	21.16	21.11	21.11					
15	16QAM	36	0	20.30	20.37	20.38					
15	16QAM	36	20	20.14	20.19	20.13					
15	16QAM	36	39	20.14	20.32	20.13	21	2	24	0.6	
15	16QAM	75	0	20.24	20.17	19.92					
15	64QAM	1	0	20.32	20.25	20.24					
15	64QAM	1	37	20.21	20.32	20.29					
15	64QAM	1	74	20.15	20.18	20.17	21	2	24	0.6	
15	64QAM	36	0	19.12	19.26	19.22					
15	64QAM	36	20	19.05	19.18	19.02					
15	64QAM	36	39	19.19	19.28	19.20					
15	64QAM	75	0	19.17	19.29	19.19	20	3	23	1.6	
15	256QAM	1	0	17.21	17.39	17.09					
15	256QAM	1	37	17.20	17.14	17.13					
15	256QAM	1	74	17.25	17.29	17.10					
15	256QAM	36	0	17.07	17.09	17.03	18	5	21	3.6	
15	256QAM	36	20	16.81	16.96	16.98					
15	256QAM	36	39	16.96	16.97	16.98					
15	256QAM	75	0	16.89	16.98	16.87					
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2575	2595	2615					
10	QPSK	1	0	22.21	22.22	22.16	23	0	24.6	0	
10	QPSK	1	25	22.08	22.28	22.08					
10	QPSK	1	49	22.10	22.13	22.09					
10	QPSK	25	0	21.15	21.15	21.16					
10	QPSK	25	12	21.15	21.11	21.11	22	1	24.6	0	
10	QPSK	25	25	20.98	21.14	21.05					
10	QPSK	50	0	21.08	21.08	21.05					
10	16QAM	1	0	21.15	21.33	21.08					
10	16QAM	1	25	21.09	21.26	21.31	22	1	24.6	0	
10	16QAM	1	49	21.16	21.20	21.03					
10	16QAM	25	0	20.33	20.28	20.38					
10	16QAM	25	12	20.11	20.17	20.17					
10	16QAM	25	25	20.17	20.35	20.11	21	2	24	0.6	
10	16QAM	50	0	20.23	20.23	19.91					
10	64QAM	1	0	20.29	20.34	20.31					
10	64QAM	1	25	20.17	20.28	20.26					
10	64QAM	1	49	20.21	20.24	20.17	21	2	24	0.6	
10	64QAM	25	0	19.19	19.35	19.16					
10	64QAM	25	12	19.05	19.09	19.04					
10	64QAM	25	25	19.24	19.32	19.21					
10	64QAM	50	0	19.19	19.27	19.17	20	3	23	1.6	
10	256QAM	1	0	17.22	17.32	17.19					
10	256QAM	1	25	17.23	17.15	17.18					
10	256QAM	1	49	17.29	17.39	17.08					
10	256QAM	25	0	17.03	17.07	17.06	18	5	21	3.6	
10	256QAM	25	12	16.82	17.01	16.97					
10	256QAM	25	25	16.91	17.04	16.94					
10	256QAM	50	0	16.89	17.07	16.80					
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2572.5	2595	2617.5					
5	QPSK	1	0	22.21	22.26	22.20	23	0	24.6	0	
5	QPSK	1	12	22.12	22.28	22.07					
5	QPSK	1	24	22.10	22.20	22.10					
5	QPSK	12	0	21.08	21.15	21.21					
5	QPSK	12	7	21.11	21.20	21.11	22	1	24.6	0	
5	QPSK	12	13	21.06	21.18	20.97					
5	QPSK	25	0	21.11	21.08	21.11					
5	16QAM	1	0	21.22	21.33	21.01					
5	16QAM	1	12	21.14	21.28	21.23	22	1	24.6	0	
5	16QAM	1	24	21.22	21.14	21.05					
5	16QAM	12	0	20.34	20.27	20.36					
5	16QAM	12	7	20.12	20.16	20.16					
5	16QAM	12	13	20.11	20.37	20.16	21	2	24	0.6	
5	16QAM	25	0	20.20	20.22	19.95					
5	64QAM	1	0	20.30	20.32	20.32					
5	64QAM	1	12	20.23	20.32	20.26					
5	64QAM	1	24	20.23	20.27	20.10	21	2	24	0.6	
5	64QAM	12	0	19.19	19.30	19.22					
5	64QAM	12	7	19.12	19.19	19.04					
5	64QAM	12	13	19.21	19.32	19.20					
5	64QAM	25	0	19.25	19.19	19.11	20	3	23	1.6	
5	256QAM	1	0	17.32	17.39	17.11					
5	256QAM	1	12	17.17	17.13	17.20					
5	256QAM	1	24	17.29	17.34	17.05					
5	256QAM	12	0	17.03	17.15	17.08	18	5	21	3.6	
5	256QAM	12	7	16.80	16.97	16.93					
5	256QAM	12	13	17.00	17.00	16.91					
5	256QAM	25	0	16.88	17.05	16.81					

Band 38 HPUE Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2580	2595	2610					
20	QPSK	1	0	24.42	24.45	24.40	24.6	0	24.6	0	
20	QPSK	1	49	24.23	24.41	24.34					
20	QPSK	1	99	24.25	24.33	24.30					
20	QPSK	50	0	23.32	23.42	23.34					
20	QPSK	50	24	23.32	23.34	23.27	24.6	0	24.6	0	
20	QPSK	50	50	23.17	23.33	23.17					
20	QPSK	100	0	23.32	23.33	23.27					
20	16QAM	1	0	23.38	23.53	23.21					
20	16QAM	1	49	23.37	23.45	23.50	24.6	0	24.6	0	
20	16QAM	1	99	23.37	23.35	23.29					
20	16QAM	50	0	22.51	22.58	22.55					
20	16QAM	50	24	22.35	22.33	22.42					
20	16QAM	50	50	22.35	22.56	22.32	24	0.6	24	0.6	
20	16QAM	100	0	22.37	22.46	22.16					
20	64QAM	1	0	22.52	22.53	22.52					
20	64QAM	1	49	22.31	22.44	22.39					
20	64QAM	1	99	22.43	22.43	22.33	24	0.6	24	0.6	
20	64QAM	50	0	21.34	21.51	21.35					
20	64QAM	50	24	21.26	21.34	21.25					
20	64QAM	50	50	21.35	21.52	21.48					
20	64QAM	100	0	21.39	21.50	21.29	23	1.6	23	1.6	
20	256QAM	1	0	19.45	19.52	19.36					
20	256QAM	1	49	19.35	19.29	19.36					
20	256QAM	1	99	19.48	19.54	19.28					
20	256QAM	50	0	19.20	19.29	19.22	21	3.6	21	3.6	
20	256QAM	50	24	19.11	19.21	19.20					
20	256QAM	50	50	19.16	19.15	19.14					
20	256QAM	100	0	19.14	19.17	19.13					
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2577.5	2595	2612.5					
15	QPSK	1	0	24.34	24.41	24.28	24.6	0	24.6	0	
15	QPSK	1	37	24.16	24.28	24.22					
15	QPSK	1	74	24.12	24.24	24.21					
15	QPSK	36	0	23.22	23.28	23.22					
15	QPSK	36	20	23.25	23.20	23.22	24.6	0	24.6	0	
15	QPSK	36	39	23.03	23.19	23.04					
15	QPSK	75	0	23.26	23.19	23.19					
15	16QAM	1	0	23.35	23.42	23.16					
15	16QAM	1	37	2							



### Band 41 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.25	22.37	22.39	22.32	22.28	23	0
20	QPSK	1	49	22.27	22.18	22.32	22.23	22.18		
20	QPSK	1	99	22.14	22.25	22.29	22.24	22.25		
20	QPSK	50	0	21.29	21.31	21.36	21.28	21.33	22	1
20	QPSK	50	24	21.22	21.29	21.31	21.24	21.17		
20	QPSK	50	50	21.29	21.17	21.32	21.16	21.24		
20	QPSK	100	0	21.20	21.26	21.33	21.20	21.30	22	1
20	16QAM	1	0	21.35	21.38	21.39	21.20	21.31		
20	16QAM	1	49	21.40	21.33	21.44	21.49	21.39		
20	16QAM	1	99	21.27	21.32	21.31	21.17	21.23	21	2
20	16QAM	50	0	20.33	20.43	20.43	20.56	20.31		
20	16QAM	50	24	20.17	20.28	20.32	20.35	20.19		
20	16QAM	50	50	20.34	20.28	20.45	20.33	20.38	21	2
20	16QAM	100	0	20.31	20.32	20.38	20.12	20.30		
20	64QAM	1	0	20.37	20.43	20.52	20.42	20.39		
20	64QAM	1	49	20.26	20.29	20.37	20.40	20.31	21	2
20	64QAM	1	99	20.24	20.30	20.32	20.21	20.29		
20	64QAM	50	0	19.32	19.34	19.43	19.37	19.33		
20	64QAM	50	24	19.24	19.21	19.28	19.27	19.24	20	3
20	64QAM	50	50	19.29	19.31	19.42	19.42	19.36		
20	64QAM	100	0	19.28	19.31	19.37	19.32	19.25		
20	256QAM	1	0	17.36	17.42	17.50	17.29	17.43	18	5
20	256QAM	1	49	17.14	17.27	17.25	17.24	17.19		
20	256QAM	1	99	17.33	17.44	17.47	17.27	17.37		
20	256QAM	50	0	17.11	17.15	17.24	17.17	17.12	18	5
20	256QAM	50	24	17.12	17.01	17.16	17.08	17.03		
20	256QAM	50	50	17.08	17.09	17.21	17.11	17.10		
20	256QAM	100	0	17.08	17.10	17.12	16.98	17.04		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.06	22.14	22.25	22.09	22.14	23	0
15	QPSK	1	37	22.03	22.00	22.13	22.01	22.12		
15	QPSK	1	74	21.86	21.77	21.97	21.79	21.88		
15	QPSK	36	0	21.24	21.28	21.33	21.19	21.23	22	1
15	QPSK	36	20	21.07	21.16	21.19	21.12	21.03		
15	QPSK	36	39	21.23	21.04	21.24	21.12	21.20		
15	QPSK	75	0	21.12	21.16	21.24	21.10	21.18	22	1
15	16QAM	1	0	21.22	21.30	21.32	21.09	21.16		
15	16QAM	1	37	21.36	21.30	21.34	21.38	21.28		
15	16QAM	1	74	21.22	21.21	21.16	21.04	21.16	21	2
15	16QAM	36	0	20.19	20.32	20.30	20.49	20.26		
15	16QAM	36	20	20.03	20.18	20.18	20.21	20.08		
15	16QAM	36	39	20.27	20.23	20.40	20.24	20.34	21	2
15	16QAM	75	0	20.18	20.18	20.24	20.02	20.15		
15	64QAM	1	0	20.29	20.37	20.38	20.39	20.31		
15	64QAM	1	37	20.21	20.23	20.29	20.26	20.23	21	2
15	64QAM	1	74	20.18	20.16	20.23	20.07	20.22		
15	64QAM	36	0	19.28	19.24	19.33	19.25	19.25		
15	64QAM	36	20	19.20	19.12	19.20	19.23	19.15	20	3
15	64QAM	36	39	19.18	19.26	19.35	19.28	19.24		
15	64QAM	75	0	19.24	19.21	19.30	19.25	19.20		
15	256QAM	1	0	17.27	17.31	17.36	17.21	17.33	18	5
15	256QAM	1	37	17.04	17.18	17.20	17.11	17.14		
15	256QAM	1	74	17.20	17.32	17.36	17.23	17.28		
15	256QAM	36	0	16.96	17.00	17.14	17.05	17.00	18	5
15	256QAM	36	20	17.02	16.98	17.06	17.03	16.95		
15	256QAM	36	39	16.99	17.03	17.13	17.00	17.00		
15	256QAM	75	0	17.04	17.01	17.01	16.85	16.89		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.06	22.10	22.19	22.06	22.07	23.00	0
10	QPSK	1	25	22.01	21.96	22.17	21.99	22.02		
10	QPSK	1	49	21.88	21.81	21.99	21.79	21.84		
10	QPSK	25	0	21.20	21.23	21.24	21.20	21.18	22	1
10	QPSK	25	12	21.09	21.25	21.21	21.12	21.09		
10	QPSK	25	25	21.15	21.13	21.26	21.07	21.16		
10	QPSK	50	0	21.10	21.23	21.24	21.12	21.15	22	1
10	16QAM	1	0	21.31	21.25	21.33	21.06	21.28		
10	16QAM	1	25	21.30	21.27	21.33	21.43	21.36		
10	16QAM	1	49	21.12	21.29	21.18	21.10	21.18	21	2
10	16QAM	25	0	20.21	20.30	20.30	20.48	20.18		
10	16QAM	25	12	20.07	20.18	20.26	20.28	20.14		
10	16QAM	25	25	20.21	20.18	20.41	20.26	20.23	21	2
10	16QAM	50	0	20.26	20.29	20.31	20.02	20.25		
10	64QAM	1	0	20.33	20.35	20.47	20.28	20.34		
10	64QAM	1	25	20.20	20.15	20.28	20.32	20.19	21	2
10	64QAM	1	49	20.11	20.16	20.21	20.07	20.24		
10	64QAM	25	0	19.24	19.25	19.30	19.26	19.24		
10	64QAM	25	12	19.16	19.16	19.14	19.23	19.10	20	3
10	64QAM	25	25	19.20	19.22	19.32	19.38	19.23		
10	64QAM	50	0	19.21	19.23	19.22	19.27	19.12		
10	256QAM	1	0	17.24	17.37	17.45	17.19	17.29	18	5
10	256QAM	1	25	17.11	17.21	17.20	17.19	17.10		
10	256QAM	1	49	17.23	17.36	17.44	17.21	17.28		
10	256QAM	25	0	17.04	17.08	17.11	17.06	17.07	18	5
10	256QAM	25	12	17.05	16.90	17.04	16.99	16.92		
10	256QAM	25	25	16.98	17.02	17.12	17.06	17.02		
10	256QAM	50	0	17.02	17.02	17.05	16.93	16.90		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.09	22.17	22.22	22.05	22.08	23.00	0
5	QPSK	1	12	22.11	21.96	22.09	22.01	22.12		
5	QPSK	1	24	21.92	21.83	21.92	21.78	21.84		
5	QPSK	12	0	21.18	21.27	21.30	21.20	21.28	22	1
5	QPSK	12	7	21.16	21.17	21.25	21.12	21.13		
5	QPSK	12	13	21.22	21.12	21.19	21.11	21.09		
5	QPSK	25	0	21.10	21.12	21.19	21.07	21.21	22	1
5	16QAM	1	0	21.27	21.24	21.35	21.09	21.26		
5	16QAM	1	12	21.35	21.23	21.31	21.39	21.27		
5	16QAM	1	24	21.14	21.26	21.24	21.10	21.13	21	2
5	16QAM	12	0	20.24	20.35	20.36	20.50	20.24		
5	16QAM	12	7	20.06	20.17	20.28	20.32	20.09		
5	16QAM	12	13	20.28	20.17	20.37	20.18	20.26	21	2
5	16QAM	25	0	20.17	20.18	20.24	20.01	20.18		
5	64QAM	1	0	20.31	20.39	20.45	20.34	20.35		
5	64QAM	1	12	20.16	20.18	20.26	20.29	20.22	21	2
5	64QAM	1	24	20.19	20.27	20.25	20.17	20.23		
5	64QAM	12	0	19.27	19.29	19.32	19.24	19.30		
5	64QAM	12	7	19.19	19.13	19.22	19.17	19.14	20	3
5	64QAM	12	13	19.16	19.25	19.36	19.33	19.29		
5	64QAM	25	0	19.25	19.25	19.22	19.27	19.13		
5	256QAM	1	0	17.28	17.27	17.40	17.24	17.36	18	5
5	256QAM	1	12	17.11	17.20	17.17	17.18	17.05		
5	256QAM	1	24	17.24	17.30	17.40	17.13	17.33		
5	256QAM	12	0	16.99	17.03	17.20	17.05	17.00	18	5
5	256QAM	12	7	17.07	16.89	17.05	17.04	16.93		
5	256QAM	12	13	16.94	16.99	17.06	17.06	16.95		
5	256QAM	25	0	16.96	16.98	16.99	16.86	16.97		



## Uplink CA Power

Ant0

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	22.19	24.00		
21100	21298	QPSK	1	99	1	0	22.24	24.00		
21350	21152	QPSK	1	0	1	99	22.11	24.00		

Ant1

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	21.51	23.00		
21100	21298	QPSK	1	99	1	0	21.54	23.00		
21350	21152	QPSK	1	0	1	99	21.47	23.00		

Ant0

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	22.80	24.00		
37901	38099	QPSK	1	99	1	0	22.96	24.00		
38150	37952	QPSK	1	0	1	99	22.89	24.00		

Ant1

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	21.89	23.00		
37901	38099	QPSK	1	99	1	0	21.97	23.00		
38150	37952	QPSK	1	0	1	99	21.94	23.00		

Ant0

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.37	24.00		
40185	40383	QPSK	1	99	1	0	22.18	24.00		
40620	40818	QPSK	1	99	1	0	22.45	24.00		
41055	41253	QPSK	1	99	1	0	22.39	24.00		
41490	41292	QPSK	1	0	1	99	22.31	24.00		

Ant1

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.89	23.00		
40185	40383	QPSK	1	99	1	0	21.91	23.00		
40620	40818	QPSK	1	99	1	0	21.98	23.00		
41055	41253	QPSK	1	99	1	0	21.82	23.00		
41490	41292	QPSK	1	0	1	99	21.95	23.00		

Ant0 DS13										
CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	19.03	19.10		
21100	21298	QPSK	1	99	1	0	18.18	19.10		
21350	21152	QPSK	1	0	1	99	18.12	19.10		

Ant0 DS16										
CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	19.51	21.10		
21100	21298	QPSK	1	99	1	0	19.59	21.10		
21350	21152	QPSK	1	0	1	99	19.49	21.10		

Ant0 DS13										
CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	19.68	20.70		
37901	38099	QPSK	1	99	1	0	19.72	20.70		
38150	37952	QPSK	1	0	1	99	19.60	20.70		

Ant0 DS16										
CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	21.66	23.20		
37901	38099	QPSK	1	99	1	0	21.78	23.20		
38150	37952	QPSK	1	0	1	99	21.71	23.20		

Ant0 DS13										
CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.68	20.70		
40185	40383	QPSK	1	99	1	0	19.64	20.70		
40620	40818	QPSK	1	99	1	0	19.86	20.70		
41055	41253	QPSK	1	99	1	0	19.79	20.70		
41490	41292	QPSK	1	0	1	99	19.83	20.70		

Ant0 DS16										
CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.72	23.20		
40185	40383	QPSK	1	99	1	0	21.69	23.20		
40620	40818	QPSK	1	99	1	0	21.84	23.20		
41055	41253	QPSK	1	99	1	0	21.81	23.20		
41490	41292	QPSK	1	0	1	99	21.74	23.20		



Ant1 DS12

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	14.58	15.90
21100	21298	QPSK	1	99	1	0	14.71	15.90
21350	21152	QPSK	1	0	1	99	14.64	15.90

Ant1 DS16

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.89	20.40
21100	21298	QPSK	1	99	1	0	18.90	20.40
21350	21152	QPSK	1	0	1	99	18.82	20.40

Ant1 DS13

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	15.00	16.50
21100	21298	QPSK	1	99	1	0	15.02	16.50
21350	21152	QPSK	1	0	1	99	15.08	16.50

Ant1 DS12

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	17.10	18.60
37901	38099	QPSK	1	99	1	0	17.23	18.60
38150	37952	QPSK	1	0	1	99	17.18	18.60

Ant1 DS13

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	17.78	19.30
37901	38099	QPSK	1	99	1	0	17.89	19.30
38150	37952	QPSK	1	0	1	99	17.83	19.30

Ant1 DS12

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.34	18.60
40185	40383	QPSK	1	99	1	0	17.38	18.60
40620	40818	QPSK	1	99	1	0	17.46	18.60
41055	41253	QPSK	1	99	1	0	17.41	18.60
41490	41292	QPSK	1	0	1	99	17.33	18.60

Ant1 DS13

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.02	19.30
40185	40383	QPSK	1	99	1	0	17.84	19.30
40620	40818	QPSK	1	99	1	0	18.11	19.30
41055	41253	QPSK	1	99	1	0	17.97	19.30
41490	41292	QPSK	1	0	1	99	17.93	19.30



## Downlink CA Power

2CA DL

CA List	PCC										SCC					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)	
CA_2C	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	22.59	22.66	
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	21.79	21.84	
CA_5A-41A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.80	22.84	
	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.29	23.35	
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.91	23.00	
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.34	22.39	
CA_7B	Band 7	Ant 0	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.3	3193	4x4MIMO	22.65	22.77	
	Band 7	Ant 1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.3	3193	4x4MIMO	21.85	21.93	
CA_7A-26A	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.72	22.77	
	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.85	22.87	
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		21.81	21.93	
	Band 26	Ant 1	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.85	23.06	
CA_7A-32A	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 32	20M	1474.5	10140		22.63	22.77	
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 32	20M	1474.5	10140		21.78	21.93	
CA_7A-42A	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.67	22.77	
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	21.82	21.93	
CA_26A-41A	Band 42	Ant 2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.27	23.41	
	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.80	22.87	
	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		23.22	23.35	
	Band 26	Ant 1	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.94	23.06	
CA_38C	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.34	22.39	
	Band 38	Ant 0	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	23.10	23.29	
CA_41A-42A	Band 38	Ant 1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	22.21	22.37	
	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.29	23.35	
CA_66B	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.29	22.39	
	Band 42	Ant 2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.28	23.41	
	Band 66	Ant 0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	22.87	22.94	
CA_66C	Band 66	Ant 1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	21.92	21.95	
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	22.84	22.94	
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	21.84	21.95	



### 3CA DL

3CA List	POC											SCC1					SCC2				Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq (MHz)	Channel		Band	(MHz)	Freq (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)	
CA_2A-4A-6A	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO		22.53	22.66
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		22.61	22.81
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 4	20M	1980	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.77	22.84
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO		21.74	21.84
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		21.83	21.91
CA_2A-4A-7A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.91	23.00
	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.50	22.66
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		22.62	22.81
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.59	22.77
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.68	21.84
CA_2A-6A-6A	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		21.83	21.91
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		21.73	21.93
	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO		22.54	22.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		22.73	22.84
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO		22.74	22.84
CA_2A-7C	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO		21.77	21.84
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		22.82	23.00
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO		21.81	21.95
	Band 2	Ant 0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		22.57	22.66
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		22.69	22.77
CA_2A-7A-7A	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		21.71	21.84
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		21.75	21.93
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO		22.49	22.66
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		22.70	22.77
	Band 2	Ant 1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO		21.74	21.84
CA_4A-7C	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1980	900	4x4MIMO		21.82	21.93
	Band 4	Ant 0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		22.69	22.81
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		22.62	22.77
	Band 4	Ant 1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		21.80	21.91
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO		21.73	21.93
CA_5A-7A-6A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.67	22.84
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO		22.61	22.77
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO		22.73	22.94
	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.93	23.00
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO		21.77	21.93
CA_7A-6A-6A	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO		21.84	21.95
	Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		22.59	22.77
	Band 66	Ant 0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		22.75	22.94
	Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO		21.76	21.93
	Band 66	Ant 1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO		21.76	21.95
CA_41A-41A-41A	Band 41	Ant 0	20M	2993	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO		23.18	23.35
	Band 41	Ant 1	20M	2993	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO		22.25	22.39
CA_41A-42C	Band 41	Ant 0	20M	2993	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO		23.17	23.35
	Band 41	Ant 1	20M	2993	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO		22.30	22.39
	Band 42	Ant 2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO		23.27	23.41
CA_41C-42A	Band 41	Ant 0	20M	2993	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		23.26	23.35
	Band 41	Ant 1	20M	2993	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO		22.22	22.39
CA_42D	Band 42	Ant 2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO		23.23	23.41
	Band 42	Ant 2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO		23.33	23.41



4CA DL

Configure	PCC									SCC1				SCC2				SCC3				Power				
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)
CA_41C-41C	Band 41	Ant 0	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	23.21	23.35
	Band 41	Ant 1	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	22.21	22.39
CA_41E	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 41	20M	2652.4	41214	4xMIMO	23.21	23.35
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 41	20M	2632.6	41016	4xMIMO	Band 41	20M	2652.4	41214	4xMIMO	22.26	22.39
CA_41A-41D	Band 41	Ant 0	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2640.4	41094	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	23.22	23.35
	Band 41	Ant 1	20M	2506	39750	QPSK	1	0	4xMIMO	Band 41	20M	2640.4	41094	4xMIMO	Band 41	20M	2660.2	41292	4xMIMO	Band 41	20M	2680	41490	4xMIMO	22.20	22.39
CA_41A-41A-41C	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	23.27	23.35
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO	Band 41	20M	2525.8	39948	4xMIMO	22.33	22.39
CA_41C-42C	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	23.17	23.35
	Band 41	Ant 1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	22.24	22.39
	Band 42	Ant 2	20M	3500	42590	QPSK	1	0	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO	23.34	23.41



5CA DL

Configure	PCC						SCC1				SCC2				SCC3				SCC4				Power					
	LTE	BW	BW	UL	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)
CA_SA-7C-66A-66A	Band 5	Ant 0	10M	836.5	20525	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	22.74	22.84
	Band 7	Ant 0	20M	2535	21100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.66	22.77
	Band 66	Ant 0	10M	1715	132022	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.82	22.94
	Band 5	Ant 1	10M	836.5	20525	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	22.95	23
CA_41C-41D	Band 7	Ant 1	20M	2535	21100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.94	21.93
	Band 66	Ant 1	10M	1715	132022	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	21.84	21.95
CA_41C-41D	Band 41	Ant 0	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	23.18	23.35
	Band 41	Ant 1	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	22.28	22.39



### Full Power Mode

n5 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.62	22.66	22.54			
20	PI2 BPSK	1	50	22.45	22.58	22.51	24.0	0.0	
20	PI2 BPSK	1	104	22.29	22.36	22.28			
20	PI2 BPSK	50	0	22.01	22.18	22.04	23.5	0.5	
20	PI2 BPSK	50	28	22.53	22.64	22.55	24.0	0.0	
20	PI2 BPSK	50	56	22.02	22.11	22.01			
20	PI2 BPSK	100	0	22.10	22.19	22.05	23.5	0.5	
20	QPSK	1	1	22.63	22.72	22.71			
20	QPSK	1	53	22.90	22.63	22.55	24.0	0.0	
20	QPSK	1	104	22.37	22.47	22.34			
20	QPSK	50	0	21.52	21.58	21.45	23.0	1.0	
20	QPSK	50	28	22.55	22.67	22.62	24.0	0.0	
20	QPSK	50	56	21.49	21.54	21.46			
20	QPSK	100	0	21.84	21.69	21.60	23.0	1.0	
20	16QAM	1	1	21.37	21.51	21.44	23.0	1.0	
20	64QAM	1	1	20.04	20.08	19.96	21.5	2.5	
20	256QAM	1	1	17.90	18.02	17.92	19.5	4.5	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.52	22.60	22.59	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	836.5	841			
10	QPSK	1	1	22.50	22.65	22.64	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.52	22.57	22.63	24.0	0.0	

n7 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	23.37	23.42	23.32			
40	PI2 BPSK	1	108	23.15	23.26	23.18	24.0	0.0	
40	PI2 BPSK	1	214	23.26	23.39	23.23			
40	PI2 BPSK	108	0	22.84	22.95	22.93	23.5	0.5	
40	PI2 BPSK	108	54	23.29	23.42	23.18	24.0	0.0	
40	PI2 BPSK	108	108	22.80	22.95	22.85			
40	PI2 BPSK	216	0	22.76	22.90	22.91	23.5	0.5	
40	QPSK	1	1	23.34	23.49	23.40			
40	QPSK	1	108	23.25	23.34	23.34	24.0	0.0	
40	QPSK	1	214	23.23	23.36	23.27			
40	QPSK	108	0	22.29	22.49	22.35	23.0	1.0	
40	QPSK	108	54	23.26	23.41	23.38	24.0	0.0	
40	QPSK	108	108	22.23	22.45	22.23	23.0	1.0	
40	QPSK	216	0	22.42	22.45	22.28			
40	16QAM	1	1	22.62	22.76	22.71	23.0	1.0	
40	64QAM	1	1	20.70	20.75	20.71	21.5	2.5	
40	256QAM	1	1	18.86	18.83	18.77	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.26	23.41	23.33	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	23.24	23.34	23.31	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	23.29	23.42	23.29	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.25	23.43	23.30	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.30	23.44	23.27	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.28	23.39	23.31	24.0	0.0	

n66 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.34	22.45	22.41			
40	PI2 BPSK	1	108	22.24	22.36	22.24	24.0	0.0	
40	PI2 BPSK	1	214	22.27	22.32	22.24			
40	PI2 BPSK	108	0	21.76	21.86	21.73	23.5	0.5	
40	PI2 BPSK	108	54	22.18	22.31	22.19	24.0	0.0	
40	PI2 BPSK	108	108	21.80	21.90	21.81			
40	PI2 BPSK	216	0	21.83	21.92	21.81	23.5	0.5	
40	QPSK	1	1	22.33	22.49	22.38			
40	QPSK	1	108	22.31	22.41	22.30	24.0	0.0	
40	QPSK	1	214	22.33	22.37	22.33			
40	QPSK	108	0	21.30	21.41	21.30	23.0	1.0	
40	QPSK	108	54	22.32	22.37	22.25	24.0	0.0	
40	QPSK	108	108	21.24	21.38	21.25	23.0	1.0	
40	QPSK	216	0	21.36	21.43	21.35			
40	16QAM	1	1	21.07	21.17	21.08	23.0	1.0	
40	64QAM	1	1	19.82	19.92	19.81	21.5	2.5	
40	256QAM	1	1	17.61	17.66	17.59	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.23	22.37	22.31	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.21	22.34	22.27	24.0	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.24	22.44	22.30	24.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.24	22.34	22.29	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.20	22.41	22.29	24.0	0.0	



n38 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.06	23.14	22.99		
40	PI/2 BPSK	1	53	22.91	23.13	22.87	24.0	0.0
40	PI/2 BPSK	1	104	23.04	23.00	23.00		
40	PI/2 BPSK	50	0	22.47	22.55	22.54	23.5	0.5
40	PI/2 BPSK	50	28	22.99	23.02	22.88	24.0	0.0
40	PI/2 BPSK	50	56	22.44	22.50	22.42		
40	PI/2 BPSK	100	0	22.47	22.60	22.51	23.5	0.5
40	QPSK	1	1	23.06	23.19	23.03		
40	QPSK	1	53	22.95	22.99	22.91	24.0	0.0
40	QPSK	1	104	22.89	23.03	22.92		
40	QPSK	50	0	21.99	22.03	21.87	23.0	1.0
40	QPSK	50	28	22.92	23.03	23.01	24.0	0.0
40	QPSK	50	56	21.87	22.06	21.99	23.0	1.0
40	QPSK	100	0	22.00	22.10	21.93		
40	16QAM	1	1	21.88	21.96	21.97	23.0	1.0
40	64QAM	1	1	20.46	20.54	20.47	21.5	2.5
40	256QAM	1	1	18.14	18.29	18.16	19.5	4.5
Channel				517092	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	23.07	23.07	23.00	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.95	23.14	22.97	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	23.02	23.15	22.97	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	23.00	23.05	22.89	24.0	0.0

n41 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.01	23.09	23.08		
100	PI/2 BPSK	1	137	23.04	23.12	23.10	24.0	0.0
100	PI/2 BPSK	1	271	23.08	23.07	22.98		
100	PI/2 BPSK	135	0	22.48	22.49	22.40	23.5	0.5
100	PI/2 BPSK	135	69	23.04	23.15	22.99	24.0	0.0
100	PI/2 BPSK	135	138	22.38	22.52	22.46		
100	PI/2 BPSK	270	0	22.54	22.55	22.37	23.5	0.5
100	QPSK	1	1	23.15	23.21	23.08		
100	QPSK	1	137	23.02	23.05	22.99	24.0	0.0
100	QPSK	1	271	23.07	23.17	23.07		
100	QPSK	135	0	21.94	21.95	21.87	23.0	1.0
100	QPSK	135	69	23.15	23.21	23.02	24.0	0.0
100	QPSK	135	138	21.98	21.97	21.85		
100	QPSK	270	0	21.91	21.98	21.93	23.0	1.0
100	16QAM	1	1	22.04	21.99	21.92	23.0	1.0
100	64QAM	1	1	20.47	20.44	20.34	21.5	2.5
100	256QAM	1	1	18.78	18.90	18.72	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.00	23.07	22.99	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.09	23.13	23.03	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.01	23.15	23.04	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.06	23.10	23.04	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.07	23.17	23.03	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.10	23.12	22.95	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.01	23.08	23.03	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.06	23.17	23.00	24.0	0.0



n2 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dbr)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2-BPSK	1	1	22.55	22.58	22.55			
30	PI2-BPSK	1	53	22.31	22.42	22.31	24.0	0.0	
30	PI2-BPSK	1	104	22.31	22.37	22.31			
30	PI2-BPSK	50	0	21.20	21.89	21.20	23.5	0.5	
30	PI2-BPSK	50	28	21.25	21.35	21.25	24.0	0.0	
30	PI2-BPSK	50	56	21.43	21.46	21.43	23.5	0.5	
30	PI2-BPSK	100	0	21.78	21.81	21.78			
30	QPSK	1	1	22.55	22.55	22.55			
30	QPSK	1	53	22.31	22.40	22.31	24.0	0.0	
30	QPSK	1	104	22.34	22.43	22.34			
30	QPSK	50	0	21.28	21.42	21.28	23.0	1.0	
30	QPSK	50	28	21.25	21.31	21.25	24.0	0.0	
30	QPSK	50	56	21.31	21.34	21.31	23.0	1.0	
30	QPSK	100	0	21.27	21.41	21.27			
30	HQAM	1	1	21.58	21.60	21.58	23.0	1.0	
30	HQAM	1	1	18.29	18.84	18.71	21.5	2.5	
30	HQAM	1	1	18.27	18.71	18.46	18.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.25	22.37	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.28	22.35	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.22	22.40	22.38	24.0	0.0	

n5 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dbr)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2-BPSK	1	1	22.80	22.85	22.80			
30	PI2-BPSK	1	53	22.80	22.83	22.82	24.0	0.0	
30	PI2-BPSK	1	104	22.75	22.82	22.78			
30	PI2-BPSK	50	0	22.40	22.52	22.40	23.5	0.5	
30	PI2-BPSK	50	28	22.48	22.51	22.48	23.5	0.5	
30	PI2-BPSK	50	56	22.42	22.47	22.43	23.5	0.5	
30	PI2-BPSK	100	0	22.40	22.51	22.45			
30	QPSK	1	1	22.81	22.85	22.81			
30	QPSK	1	53	22.80	22.84	22.81	24.0	0.0	
30	QPSK	1	104	22.77	22.80	22.84			
30	QPSK	50	0	21.82	21.95	21.81	23.0	1.0	
30	QPSK	50	28	21.88	21.95	21.81	24.0	0.0	
30	QPSK	50	56	21.85	21.82	21.81	23.0	1.0	
30	QPSK	100	0	21.82	22.00	21.81			
30	HQAM	1	1	21.83	21.89	21.82	23.0	1.0	
30	HQAM	1	1	20.53	20.58	20.50	21.5	2.5	
30	HQAM	1	1	18.24	18.28	18.22	18.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.80	22.85	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	22.95	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.87	22.84	22.73	24.0	0.0	

n7 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dbr)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2-BPSK	1	1	22.60	22.75	22.77			
40	PI2-BPSK	1	104	22.67	22.78	22.72	24.0	0.0	
40	PI2-BPSK	1	214	22.58	22.67	22.65			
40	PI2-BPSK	100	0	22.12	22.28	22.19	23.5	0.5	
40	PI2-BPSK	100	56	22.14	22.19	22.15	24.0	0.0	
40	PI2-BPSK	100	108	22.13	22.28	22.23	23.5	0.5	
40	PI2-BPSK	216	0	22.23	22.37	22.18			
40	QPSK	1	1	22.64	22.67	22.70			
40	QPSK	1	104	22.71	22.81	22.70	24.0	0.0	
40	QPSK	1	214	22.52	22.77	22.84			
40	QPSK	100	0	21.88	21.81	21.89	23.0	1.0	
40	QPSK	100	56	21.84	22.01	21.81	24.0	0.0	
40	QPSK	100	108	21.75	21.79	21.74	23.0	1.0	
40	QPSK	216	0	21.77	21.82	21.72			
40	HQAM	1	1	21.86	21.72	21.87	23.0	1.0	
40	HQAM	1	1	20.27	20.34	20.25	21.5	2.5	
40	HQAM	1	1	18.26	18.23	18.23	18.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.70	22.75	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.72	22.80	22.73	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2-BPSK	1	1	22.73	22.75	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.78	22.84	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.82	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.81	22.72	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.75	22.85	22.70	24.0	0.0	

n66 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dbr)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2-BPSK	1	1	22.80	22.85	22.78			
40	PI2-BPSK	1	104	22.77	22.80	22.74	24.0	0.0	
40	PI2-BPSK	1	214	22.68	22.67	22.79			
40	PI2-BPSK	100	0	22.28	22.31	22.20	23.0	0.5	
40	PI2-BPSK	100	56	22.30	22.30	22.25	24.0	0.0	
40	PI2-BPSK	100	108	22.32	22.43	22.34	23.5	0.5	
40	PI2-BPSK	216	0	22.30	22.40	22.30			
40	QPSK	1	1	22.84	22.85	22.82			
40	QPSK	1	104	22.78	22.80	22.87	24.0	0.0	
40	QPSK	1	214	22.60	22.61	22.68			
40	QPSK	100	0	21.75	21.80	21.73	23.0	1.0	
40	QPSK	100	56	21.71	21.80	21.61	24.0	0.0	
40	QPSK	100	108	21.62	21.50	21.61	23.0	1.0	
40	QPSK	216	0	21.56	22.01	21.91			
40	HQAM	1	1	21.50	21.71	21.50	23.0	1.0	
40	HQAM	1	1	20.25	20.20	20.21	21.5	2.5	
40	HQAM	1	1	18.21	18.11	18.16	18.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.71	22.55	22.64	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.75	22.80	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.71	22.60	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.78	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.70	22.50	22.68	24.0	0.0	



n38 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.41	22.45	22.31		
40	PI/2 BPSK	1	53	22.36	22.42	22.37	24.0	0.0
40	PI/2 BPSK	1	104	22.28	22.34	22.21		
40	PI/2 BPSK	50	0	21.71	21.84	21.70	23.5	0.5
40	PI/2 BPSK	50	28	22.36	22.42	22.31	24.0	0.0
40	PI/2 BPSK	50	56	21.78	21.80	21.67		
40	PI/2 BPSK	100	0	21.77	21.86	21.75	23.5	0.5
40	QPSK	1	1	22.46	22.50	22.39		
40	QPSK	1	53	22.24	22.39	22.25	24.0	0.0
40	QPSK	1	104	22.37	22.44	22.36		
40	QPSK	50	0	21.30	21.35	21.27	23.0	1.0
40	QPSK	50	28	22.43	22.44	22.33	24.0	0.0
40	QPSK	50	56	21.19	21.32	21.28		
40	QPSK	100	0	21.26	21.38	21.35	23.0	1.0
40	16QAM	1	1	21.40	21.48	21.35	23.0	1.0
40	64QAM	1	1	19.70	19.84	19.81	21.5	2.5
40	256QAM	1	1	17.86	18.02	17.83	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.44	22.42	22.30	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.36	22.27	22.36	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.34	22.38	22.27	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.32	22.47	22.35	24.0	0.0

n41 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.45	22.49	22.41		
100	PI/2 BPSK	1	137	22.38	22.41	22.38	24.0	0.0
100	PI/2 BPSK	1	271	22.30	22.44	22.32		
100	PI/2 BPSK	135	0	21.78	21.85	21.71	23.5	0.5
100	PI/2 BPSK	135	69	22.37	22.44	22.40	24.0	0.0
100	PI/2 BPSK	135	138	21.84	21.88	21.76		
100	PI/2 BPSK	270	0	21.84	21.94	21.88	23.5	0.5
100	QPSK	1	1	22.43	22.52	22.39		
100	QPSK	1	137	22.28	22.38	22.31	24.0	0.0
100	QPSK	1	271	22.32	22.47	22.43		
100	QPSK	135	0	21.31	21.43	21.35	23.0	1.0
100	QPSK	135	69	22.35	22.46	22.34	24.0	0.0
100	QPSK	135	138	21.28	21.33	21.23		
100	QPSK	270	0	21.36	21.40	21.34	23.0	1.0
100	16QAM	1	1	21.19	21.23	21.12	23.0	1.0
100	64QAM	1	1	19.85	19.99	19.84	21.5	2.5
100	256QAM	1	1	17.62	17.69	17.57	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.34	22.39	22.27	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.30	22.47	22.28	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.31	22.44	22.30	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.38	22.48	22.26	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.35	22.39	22.33	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.38	22.49	22.26	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.40	22.37	22.33	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.39	22.42	22.31	24.0	0.0



### Part270 n77 Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.41	22.50	22.46		
100	PI/2 BPSK	1	137	22.34	22.44	22.40	24.0	0.0
100	PI/2 BPSK	1	271	22.44	22.48	22.41		
100	PI/2 BPSK	135	0	21.88	21.97	21.92	23.5	0.5
100	PI/2 BPSK	135	69	22.44	22.52	22.46	24.0	0.0
100	PI/2 BPSK	135	138	21.87	22.00	21.97		
100	PI/2 BPSK	270	0	21.99	22.03	21.90	23.5	0.5
100	QPSK	1	1	22.52	22.57	22.47		
100	QPSK	1	137	22.44	22.55	22.43	24.0	0.0
100	QPSK	1	271	22.35	22.46	22.38		
100	QPSK	135	0	21.36	21.48	21.38	23.0	1.0
100	QPSK	135	69	22.47	22.51	22.46	24.0	0.0
100	QPSK	135	138	21.37	21.44	21.33		
100	QPSK	270	0	21.34	21.47	21.41	23.0	1.0
100	16QAM	1	1	21.62	21.66	21.54	23.0	1.0
100	64QAM	1	1	19.52	19.73	19.62	21.5	2.5
100	256QAM	1	1	17.53	17.60	17.50	19.5	4.5
Channel				648688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.45	22.51	22.45	24.0	0.0
Channel				648334	656000	662688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.42	22.46	22.45	24.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.46	22.53	22.42	24.0	0.0
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.41	22.50	22.45	24.0	0.0
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.43	22.54	22.39	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.42	22.49	22.35	24.0	0.0
Channel				647688	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.43	22.52	22.40	24.0	0.0
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.42	22.45	22.38	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.43	22.47	22.40	24.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.47	22.55	22.38	24.0	0.0

### Part270 n77 PC2 Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.42	25.50	25.46		
100	PI/2 BPSK	1	137	25.33	25.43	25.33	27.0	0.0
100	PI/2 BPSK	1	271	25.37	25.48	25.40		
100	PI/2 BPSK	135	0	24.94	24.98	24.87	26.5	0.5
100	PI/2 BPSK	135	69	25.42	25.48	25.39	27.0	0.0
100	PI/2 BPSK	135	138	24.82	24.93	24.90		
100	PI/2 BPSK	270	0	24.89	24.99	24.85	26.5	0.5
100	QPSK	1	1	25.49	25.54	25.51		
100	QPSK	1	137	25.40	25.53	25.40	27.0	0.0
100	QPSK	1	271	25.37	25.47	25.42		
100	QPSK	135	0	24.41	24.47	24.41	26.0	1.0
100	QPSK	135	69	25.32	25.45	25.35	27.0	0.0
100	QPSK	135	138	24.37	24.45	24.32		
100	QPSK	270	0	24.41	24.48	24.42	26.0	1.0
100	16QAM	1	1	24.46	24.52	24.42	26.0	1.0
100	64QAM	1	1	22.73	22.87	22.82	24.5	2.5
100	256QAM	1	1	20.53	20.61	20.56	22.5	4.5
Channel				648688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.38	25.42	25.36	27.0	0.0
Channel				648334	656000	662688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.35	25.52	25.42	27.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	25.39	25.40	25.41	27.0	0.0
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.42	25.45	25.49	27.0	0.0
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	25.42	25.49	25.44	27.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.46	25.48	25.46	27.0	0.0
Channel				647688	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	25.45	25.43	25.47	27.0	0.0
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.44	25.41	25.38	27.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	25.34	25.51	25.40	27.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.42	25.39	25.40	27.0	0.0



Part270 n78 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.37			24.0	0.0
100	PI/2 BPSK	1	137	22.29				
100	PI/2 BPSK	1	271	22.32				
100	PI/2 BPSK	135	0	21.79			23.5	0.5
100	PI/2 BPSK	135	69	22.40			24.0	0.0
100	PI/2 BPSK	135	138	21.88				
100	PI/2 BPSK	270	0	21.91			23.5	0.5
100	QPSK	1	1	22.42				
100	QPSK	1	137	22.34			24.0	0.0
100	QPSK	1	271	22.31				
100	QPSK	135	0	21.23			23.0	1.0
100	QPSK	135	69	22.38			24.0	0.0
100	QPSK	135	138	21.37				
100	QPSK	270	0	21.41			23.0	1.0
100	16QAM	1	1	21.66			23.0	1.0
100	64QAM	1	1	19.81			21.5	2.5
100	256QAM	1	1	17.75			19.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.31	22.28	22.39	24.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.30	22.33	22.39	24.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.32	22.35	22.30	24.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.33	22.31	22.33	24.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.37	22.35	22.35	24.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.32	22.37	22.37	24.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.30	22.34	22.39	24.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.36	22.28	22.39	24.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.28	22.40	22.33	24.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.31	22.39	22.33	24.0	0.0

Part270 n78 PC2 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	25.44			27.0	0.0
100	PI/2 BPSK	1	137	25.41				
100	PI/2 BPSK	1	271	25.35				
100	PI/2 BPSK	135	0	24.91			26.5	0.5
100	PI/2 BPSK	135	69	25.39			27.0	0.0
100	PI/2 BPSK	135	138	24.92				
100	PI/2 BPSK	270	0	24.95			26.5	0.5
100	QPSK	1	1	25.48				
100	QPSK	1	137	25.38			27.0	0.0
100	QPSK	1	271	25.45				
100	QPSK	135	0	24.32			26.0	1.0
100	QPSK	135	69	25.43			27.0	0.0
100	QPSK	135	138	24.38				
100	QPSK	270	0	24.41			26.0	1.0
100	16QAM	1	1	24.22			26.0	1.0
100	64QAM	1	1	23.09			24.5	2.5
100	256QAM	1	1	20.83			22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.43	25.41	25.46	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.35	25.37	25.37	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.35	25.42	25.42	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.43	25.44	25.39	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.40	25.35	25.43	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.43	25.40	25.37	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.44	25.41	25.43	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.35	25.43	25.37	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.42	25.39	25.38	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.44	25.42	25.41	27.0	0.0



### Part270 n77 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.83	20.87	20.82		
100	PI/2 BPSK	1	137	20.70	20.79	20.74	21.5	0.0
100	PI/2 BPSK	1	271	20.25	20.35	20.29		
100	PI/2 BPSK	135	0	20.25	20.32	20.24	21.0	0.5
100	PI/2 BPSK	135	69	20.61	20.69	20.64	21.5	0.0
100	PI/2 BPSK	135	138	19.88	19.96	19.90		
100	PI/2 BPSK	270	0	20.10	20.15	20.05	21.0	0.5
100	QPSK	1	1	20.95	20.95	20.79		
100	QPSK	1	137	20.71	20.77	20.73	21.5	0.0
100	QPSK	1	271	20.35	20.41	20.37		
100	QPSK	135	0	19.77	19.86	19.79	20.5	1.0
100	QPSK	135	69	20.64	20.68	20.58	21.5	0.0
100	QPSK	135	138	19.37	19.46	19.41		
100	QPSK	270	0	19.60	19.67	19.62	20.5	1.0
100	16QAM	1	1	19.90	19.94	19.86	20.5	1.0
100	64QAM	1	1	18.39	18.43	18.38	19.0	2.5
100	256QAM	1	1	16.08	16.16	16.07	17.0	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.46	20.51	20.45	21.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.47	20.48	20.46	21.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.44	20.53	20.49	21.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.43	20.50	20.48	21.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.44	20.47	20.46	21.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.45	20.50	20.47	21.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.45	20.51	20.46	21.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.44	20.52	20.48	21.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	20.45	20.48	20.44	21.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	20.44	20.47	20.45	21.5	0.0

### Part270 n77 PC2 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.70	23.78	23.69		
100	PI/2 BPSK	1	137	23.59	23.67	23.58	24.5	0.0
100	PI/2 BPSK	1	271	23.19	23.26	23.20		
100	PI/2 BPSK	135	0	23.22	23.29	23.21	24.0	0.5
100	PI/2 BPSK	135	69	23.52	23.61	23.54	24.5	0.0
100	PI/2 BPSK	135	138	22.84	22.91	22.83		
100	PI/2 BPSK	270	0	22.99	23.06	22.99	24.0	0.5
100	QPSK	1	1	23.71	23.82	23.79		
100	QPSK	1	137	23.43	23.53	23.48	24.5	0.0
100	QPSK	1	271	23.11	23.16	23.07		
100	QPSK	135	0	22.71	22.79	22.73	23.5	1.0
100	QPSK	135	69	23.54	23.63	23.53	24.5	0.0
100	QPSK	135	138	22.29	22.37	22.30		
100	QPSK	270	0	22.49	22.56	22.48	23.5	1.0
100	16QAM	1	1	22.50	22.54	22.46	23.5	1.0
100	64QAM	1	1	20.72	20.77	20.73	22.0	2.5
100	256QAM	1	1	18.57	18.66	18.58	20.0	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.87	22.89	22.82	24.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.88	22.87	22.83	24.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.81	22.91	22.80	24.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.84	22.87	22.81	24.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.84	22.91	22.79	24.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.83	22.92	22.81	24.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.81	22.90	22.79	24.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.82	22.92	22.78	24.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.85	22.91	22.80	24.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.85	22.89	22.82	24.5	0.0



Part270 n78 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.17				
100	PI/2 BPSK	1	137		23.13		24.0	0.0	
100	PI/2 BPSK	1	271		23.04				
100	PI/2 BPSK	135	0		22.53		23.5	0.5	
100	PI/2 BPSK	135	69		23.12		24.0	0.0	
100	PI/2 BPSK	135	138		22.58				
100	PI/2 BPSK	270	0		22.62		23.5	0.5	
100	QPSK	1	1		23.20				
100	QPSK	1	137		23.16		24.0	0.0	
100	QPSK	1	271		23.07				
100	QPSK	135	0		22.05		23.0	1.0	
100	QPSK	135	69		23.11		24.0	0.0	
100	QPSK	135	138		22.07				
100	QPSK	270	0		22.12		23.0	1.0	
100	16QAM	1	1		22.34		23.0	1.0	
100	64QAM	1	1		20.21		21.5	2.5	
100	256QAM	1	1		18.67		19.5	4.5	
90	QPSK	1	1	649668	650000	650334	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dBm)	(dB)	
				23.09	23.16	23.07	24.0	0.0	
80	QPSK	1	1	649334	650000	650668	Tune-up limit	MPR	
				3740.01	3750	3760.02	(dBm)	(dB)	
				23.12	23.05	23.08	24.0	0.0	
70	QPSK	1	1	649000	650000	651000	Tune-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
				23.12	23.14	23.06	24.0	0.0	
60	QPSK	1	1	648668	650000	651334	Tune-up limit	MPR	
				3730.02	3750	3770.01	(dBm)	(dB)	
				23.06	23.06	23.15	24.0	0.0	
50	QPSK	1	1	648334	650000	651668	Tune-up limit	MPR	
				3725.01	3750	3775.02	(dBm)	(dB)	
				23.16	23.15	23.10	24.0	0.0	
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR	
				3720	3750	3780	(dBm)	(dB)	
				23.11	23.12	23.10	24.0	0.0	
30	QPSK	1	1	647668	650000	652334	Tune-up limit	MPR	
				3715.02	3750	3785.01	(dBm)	(dB)	
				23.05	23.17	23.10	24.0	0.0	
20	QPSK	1	1	647334	650000	652668	Tune-up limit	MPR	
				3710.01	3750	3790.02	(dBm)	(dB)	
				23.15	23.10	23.13	24.0	0.0	
15	QPSK	1	1	647168	650000	652834	Tune-up limit	MPR	
				3707.62	3750	3792.51	(dBm)	(dB)	
				23.16	23.06	23.13	24.0	0.0	
10	QPSK	1	1	647000	650000	653000	Tune-up limit	MPR	
				3705	3750	3795	(dBm)	(dB)	
				23.13	23.11	23.11	24.0	0.0	

Part270 n78 PC2 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		26.12				
100	PI/2 BPSK	1	137		25.99		27.0	0.0	
100	PI/2 BPSK	1	271		25.92				
100	PI/2 BPSK	135	0		25.46		26.5	0.5	
100	PI/2 BPSK	135	69		25.91		27.0	0.0	
100	PI/2 BPSK	135	138		25.43				
100	PI/2 BPSK	270	0		25.55		26.5	0.5	
100	QPSK	1	1		26.16				
100	QPSK	1	137		26.03		27.0	0.0	
100	QPSK	1	271		25.95				
100	QPSK	135	0		25.02		26.0	1.0	
100	QPSK	135	69		25.99		27.0	0.0	
100	QPSK	135	138		24.97				
100	QPSK	270	0		25.00		26.0	1.0	
100	16QAM	1	1		24.94		26.0	1.0	
100	64QAM	1	1		22.73		24.5	2.5	
100	256QAM	1	1		20.92		22.5	4.5	
90	QPSK	1	1	649668	650000	650334	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dBm)	(dB)	
				26.14	26.09	26.11	27.0	0.0	
80	QPSK	1	1	649334	650000	650668	Tune-up limit	MPR	
				3740.01	3750	3760.02	(dBm)	(dB)	
				26.15	26.13	26.13	27.0	0.0	
70	QPSK	1	1	649000	650000	651000	Tune-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
				26.04	26.12	26.05	27.0	0.0	
60	QPSK	1	1	648668	650000	651334	Tune-up limit	MPR	
				3730.02	3750	3770.01	(dBm)	(dB)	
				26.07	26.03	26.12	27.0	0.0	
50	QPSK	1	1	648334	650000	651668	Tune-up limit	MPR	
				3725.01	3750	3775.02	(dBm)	(dB)	
				26.05	26.05	26.13	27.0	0.0	
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR	
				3720	3750	3780	(dBm)	(dB)	
				26.09	26.07	26.14	27.0	0.0	
30	QPSK	1	1	647668	650000	652334	Tune-up limit	MPR	
				3715.02	3750	3785.01	(dBm)	(dB)	
				26.06	26.14	26.14	27.0	0.0	
20	QPSK	1	1	647334	650000	652668	Tune-up limit	MPR	
				3710.01	3750	3790.02	(dBm)	(dB)	
				26.10	26.08	26.15	27.0	0.0	
15	QPSK	1	1	647168	650000	652834	Tune-up limit	MPR	
				3707.52	3750	3792.51	(dBm)	(dB)	
				26.13	26.10	26.05	27.0	0.0	
10	QPSK	1	1	647000	650000	653000	Tune-up limit	MPR	
				3705	3750	3795	(dBm)	(dB)	
				26.08	26.03	26.10	27.0	0.0	



Part270 n77 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.05	20.13	20.07		
100	PI/2 BPSK	1	137	20.08	20.16	20.09	21.0	0.0
100	PI/2 BPSK	1	271	19.82	19.68	19.62		
100	PI/2 BPSK	135	0	19.44	19.53	19.47	20.5	0.5
100	PI/2 BPSK	135	69	19.67	19.76	19.72	21.0	0.0
100	PI/2 BPSK	135	138	19.07	19.11	19.01		
100	PI/2 BPSK	270	0	19.22	19.29	19.20	20.5	0.5
100	QPSK	1	1	20.09	20.19	20.11		
100	QPSK	1	137	20.01	20.09	20.01	21.0	0.0
100	QPSK	1	271	19.81	19.65	19.57		
100	QPSK	135	0	18.86	18.92	18.84	20.0	1.0
100	QPSK	135	69	19.71	19.80	19.75	21.0	0.0
100	QPSK	135	138	18.55	18.64	18.56	20.0	1.0
100	QPSK	270	0	18.66	18.76	18.71		
100	16QAM	1	1	19.33	19.42	19.37	20.0	1.0
100	64QAM	1	1	17.43	17.48	17.38	18.5	2.5
100	256QAM	1	1	15.41	15.49	15.42	16.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.80	19.95	19.84	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	19.81	19.93	19.85	21.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.79	19.93	19.84	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	19.81	19.89	19.85	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	19.82	19.95	19.85	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.81	19.90	19.82	21.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.82	19.92	19.83	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	19.81	19.94	19.83	21.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	19.83	19.93	19.86	21.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.83	19.94	19.83	21.0	0.0

Part270 n77 PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.96	23.04	23.00		
100	PI/2 BPSK	1	137	22.94	23.01	22.95	24.0	0.0
100	PI/2 BPSK	1	271	22.73	22.81	22.71		
100	PI/2 BPSK	135	0	22.38	22.43	22.34	23.5	0.5
100	PI/2 BPSK	135	69	22.77	22.86	22.78	24.0	0.0
100	PI/2 BPSK	135	138	22.06	22.15	22.10		
100	PI/2 BPSK	270	0	22.19	22.27	22.17	23.5	0.5
100	QPSK	1	1	23.01	23.09	23.07		
100	QPSK	1	137	22.87	22.94	22.85	24.0	0.0
100	QPSK	1	271	22.80	22.89	22.82		
100	QPSK	135	0	21.91	21.95	21.87	23.0	1.0
100	QPSK	135	69	22.75	22.83	22.73	24.0	0.0
100	QPSK	135	138	21.48	21.54	21.48	23.0	1.0
100	QPSK	270	0	21.70	21.76	21.70		
100	16QAM	1	1	21.88	21.96	21.92	23.0	1.0
100	64QAM	1	1	20.34	20.41	20.33	21.5	2.5
100	256QAM	1	1	18.34	18.39	18.29	19.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.80	22.84	22.54	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	22.85	22.82	22.52	24.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.85	22.85	22.57	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	22.89	22.83	22.56	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	22.81	22.85	22.57	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.82	22.82	22.56	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.81	22.84	22.53	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	22.83	22.80	22.57	24.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.84	22.82	22.56	24.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.81	22.84	22.56	24.0	0.0



Part270 n78 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	23.08					
100	PI/2 BPSK	1	137	23.05			24.0	0.0	
100	PI/2 BPSK	1	271	22.89					
100	PI/2 BPSK	135	0	22.53			23.5	0.5	
100	PI/2 BPSK	135	69	23.05			24.0	0.0	
100	PI/2 BPSK	135	138	22.45					
100	PI/2 BPSK	270	0	22.52			23.5	0.5	
100	QPSK	1	1	23.19					
100	QPSK	1	137	23.12			24.0	0.0	
100	QPSK	1	271	22.92					
100	QPSK	135	0	22.01			23.0	1.0	
100	QPSK	135	69	23.09			24.0	0.0	
100	QPSK	135	138	21.92					
100	QPSK	270	0	22.01			23.0	1.0	
100	16QAM	1	1	22.12			23.0	1.0	
100	64QAM	1	1	20.53			21.5	2.5	
100	256QAM	1	1	18.64			19.5	4.5	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	23.03	23.02	23.15	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	23.13	23.11	23.09	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	23.05	23.07	23.05	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	23.05	23.04	23.13	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	23.12	23.14	23.13	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	23.05	23.13	23.10	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	23.13	23.15	23.07	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	23.12	23.08	23.15	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.62	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	23.12	23.12	23.11	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	23.14	23.05	23.09	24.0	0.0	

Part270 n78 PC2 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	25.97					
100	PI/2 BPSK	1	137	26.02			27.0	0.0	
100	PI/2 BPSK	1	271	25.81					
100	PI/2 BPSK	135	0	25.48			26.5	0.5	
100	PI/2 BPSK	135	69	25.94			27.0	0.0	
100	PI/2 BPSK	135	138	25.34					
100	PI/2 BPSK	270	0	25.42			26.5	0.5	
100	QPSK	1	1	26.04					
100	QPSK	1	137	25.96			27.0	0.0	
100	QPSK	1	271	25.77					
100	QPSK	135	0	25.07			26.0	1.0	
100	QPSK	135	69	25.96			27.0	0.0	
100	QPSK	135	138	24.88					
100	QPSK	270	0	24.94			26.0	1.0	
100	16QAM	1	1	24.92			26.0	1.0	
100	64QAM	1	1	22.63			24.5	2.5	
100	256QAM	1	1	20.77			22.5	4.5	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	25.98	25.99	25.99	27.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	25.98	25.93	25.93	27.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	26.01	26.00	25.91	27.0	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	25.98	26.00	25.92	27.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	25.98	25.93	25.95	27.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	25.98	25.96	25.90	27.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	25.93	25.98	26.01	27.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	26.01	25.92	25.93	27.0	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	26.00	25.97	25.94	27.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	25.99	25.95	25.99	27.0	0.0	



Part270 n77 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.03	22.09	22.08		
100	PI/2 BPSK	1	137	21.84	21.99	21.91	23.0	0.0
100	PI/2 BPSK	1	271	21.86	21.87	21.80		
100	PI/2 BPSK	135	0	21.29	21.45	21.41	22.5	0.5
100	PI/2 BPSK	135	69	21.79	21.93	21.83	23.0	0.0
100	PI/2 BPSK	135	138	21.38	21.32	21.31		
100	PI/2 BPSK	270	0	21.37	21.54	21.38	22.5	0.5
100	QPSK	1	1	22.12	22.22	22.08		
100	QPSK	1	137	22.10	22.11	22.01	23.0	0.0
100	QPSK	1	271	21.90	22.08	22.00		
100	QPSK	135	0	20.82	20.96	20.82	22.0	1.0
100	QPSK	135	69	21.87	21.89	21.81	23.0	0.0
100	QPSK	135	138	20.87	20.86	20.82	22.0	1.0
100	QPSK	270	0	20.87	20.96	20.82		
100	16QAM	1	1	21.08	21.09	21.04	22.0	1.0
100	64QAM	1	1	19.51	19.50	19.55	20.5	2.5
100	256QAM	1	1	17.14	17.10	17.00	18.5	4.5
Channel				646868	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	23.0	0.0
90	QPSK	1	1	22.00	22.00	22.01	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.0	0.0
80	QPSK	1	1	22.00	22.10	21.90	23.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	23.0	0.0
70	QPSK	1	1	22.02	22.15	22.00	23.0	0.0
Channel				648868	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	23.0	0.0
60	QPSK	1	1	22.08	22.07	22.02	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	23.0	0.0
50	QPSK	1	1	22.00	22.12	22.02	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.0	0.0
40	QPSK	1	1	21.99	22.15	21.96	23.0	0.0
Channel				647868	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.0	0.0
30	QPSK	1	1	22.07	22.14	21.97	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	QPSK	1	1	22.05	22.19	22.01	23.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51	23.0	0.0
15	QPSK	1	1	22.02	22.16	21.98	23.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	23.0	0.0
10	QPSK	1	1	22.03	22.11	22.04	23.0	0.0

Part270 n77 PC2 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.94	24.87	24.89		
100	PI/2 BPSK	1	137	24.81	24.88	24.79	26.0	0.0
100	PI/2 BPSK	1	271	24.70	24.93	24.84		
100	PI/2 BPSK	135	0	24.27	24.33	24.27	25.5	0.5
100	PI/2 BPSK	135	69	24.72	24.82	24.73	26.0	0.0
100	PI/2 BPSK	135	138	24.06	24.17	24.14		
100	PI/2 BPSK	270	0	24.20	24.33	24.30	25.5	0.5
100	QPSK	1	1	24.97	25.06	25.00		
100	QPSK	1	137	24.81	24.91	24.89	26.0	0.0
100	QPSK	1	271	24.82	24.84	24.71		
100	QPSK	135	0	23.83	23.91	23.82	25.0	1.0
100	QPSK	135	69	24.91	24.92	24.77	26.0	0.0
100	QPSK	135	138	23.71	23.77	23.59	25.0	1.0
100	QPSK	270	0	23.80	23.82	23.77		
100	16QAM	1	1	23.86	24.02	23.87	25.0	1.0
100	64QAM	1	1	22.29	22.33	22.40	23.5	2.5
100	256QAM	1	1	20.03	20.28	20.13	21.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	23.0	0.0
90	QPSK	1	1	24.87	24.98	24.94	26.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.0	0.0
80	QPSK	1	1	24.84	24.94	24.93	26.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	23.0	0.0
70	QPSK	1	1	24.92	24.92	24.87	26.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	23.0	0.0
60	QPSK	1	1	24.89	24.95	24.94	26.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	23.0	0.0
50	QPSK	1	1	24.92	25.03	24.99	26.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.0	0.0
40	QPSK	1	1	24.94	25.00	24.92	26.0	0.0
Channel				647868	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.0	0.0
30	QPSK	1	1	24.82	25.03	24.88	26.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	QPSK	1	1	24.90	24.92	24.91	26.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	23.0	0.0
15	QPSK	1	1	24.93	24.98	24.93	26.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	23.0	0.0
10	QPSK	1	1	24.84	24.95	24.87	26.0	0.0



Part270 n78 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.03				
100	PI/2 BPSK	1	137		22.95		24.0	0.0	
100	PI/2 BPSK	1	271		22.88				
100	PI/2 BPSK	135	0		22.55		23.5	0.5	
100	PI/2 BPSK	135	69		22.95		24.0	0.0	
100	PI/2 BPSK	135	138		22.40				
100	PI/2 BPSK	270	0		22.42		23.5	0.5	
100	QPSK	1	1		23.07				
100	QPSK	1	137		23.03		24.0	0.0	
100	QPSK	1	271		22.79				
100	QPSK	135	0		22.02		23.0	1.0	
100	QPSK	135	69		23.05		24.0	0.0	
100	QPSK	135	138		21.88				
100	QPSK	270	0		21.83		23.0	1.0	
100	16QAM	1	1		21.92		23.0	1.0	
100	64QAM	1	1		20.38		21.5	2.5	
100	256QAM	1	1		18.16		19.5	4.5	
	Channel			649668	650000	650334	Tune-up limit	MPR	
	Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		22.89	23.02	22.97	24.0	0.0
	Channel			649334	650000	650668	Tune-up limit	MPR	
	Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		22.89	22.97	22.97	24.0	0.0
	Channel			649000	650000	651000	Tune-up limit	MPR	
	Frequency (MHz)			3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		22.88	22.97	22.99	24.0	0.0
	Channel			648668	650000	651334	Tune-up limit	MPR	
	Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		23.00	22.96	22.98	24.0	0.0
	Channel			648334	650000	651668	Tune-up limit	MPR	
	Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		22.88	22.98	23.03	24.0	0.0
	Channel			648000	650000	652000	Tune-up limit	MPR	
	Frequency (MHz)			3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		23.02	23.01	22.94	24.0	0.0
	Channel			647668	650000	652334	Tune-up limit	MPR	
	Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		23.01	23.04	22.94	24.0	0.0
	Channel			647334	650000	652668	Tune-up limit	MPR	
	Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		22.99	22.95	23.02	24.0	0.0
	Channel			647168	650000	652834	Tune-up limit	MPR	
	Frequency (MHz)			3707.82	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		22.93	22.93	22.99	24.0	0.0
	Channel			647000	650000	653000	Tune-up limit	MPR	
	Frequency (MHz)			3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		22.96	22.99	23.04	24.0	0.0

Part270 n78 PC2 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		25.95				
100	PI/2 BPSK	1	137		26.03		27.0	0.0	
100	PI/2 BPSK	1	271		25.94				
100	PI/2 BPSK	135	0		25.53		26.5	0.5	
100	PI/2 BPSK	135	69		25.99		27.0	0.0	
100	PI/2 BPSK	135	138		25.27				
100	PI/2 BPSK	270	0		25.38		26.5	0.5	
100	QPSK	1	1		26.10				
100	QPSK	1	137		25.99		27.0	0.0	
100	QPSK	1	271		25.90				
100	QPSK	135	0		25.00		26.0	1.0	
100	QPSK	135	69		26.07		27.0	0.0	
100	QPSK	135	138		24.69				
100	QPSK	270	0		24.86		26.0	1.0	
100	16QAM	1	1		24.97		26.0	1.0	
100	64QAM	1	1		23.33		24.5	2.5	
100	256QAM	1	1		21.34		22.5	4.5	
	Channel			649668	650000	650334	Tune-up limit	MPR	
	Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		26.04	26.02	26.00	27.0	0.0
	Channel			649334	650000	650668	Tune-up limit	MPR	
	Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		26.05	25.95	25.95	27.0	0.0
	Channel			649000	650000	651000	Tune-up limit	MPR	
	Frequency (MHz)			3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		26.00	25.98	26.03	27.0	0.0
	Channel			648668	650000	651334	Tune-up limit	MPR	
	Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		26.05	26.05	25.95	27.0	0.0
	Channel			648334	650000	651668	Tune-up limit	MPR	
	Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		26.02	26.06	26.01	27.0	0.0
	Channel			648000	650000	652000	Tune-up limit	MPR	
	Frequency (MHz)			3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		26.03	26.02	25.97	27.0	0.0
	Channel			647668	650000	652334	Tune-up limit	MPR	
	Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		26.06	26.00	26.05	27.0	0.0
	Channel			647334	650000	652668	Tune-up limit	MPR	
	Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		26.04	26.05	26.01	27.0	0.0
	Channel			647168	650000	652834	Tune-up limit	MPR	
	Frequency (MHz)			3707.82	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		26.01	25.96	25.97	27.0	0.0
	Channel			647000	650000	653000	Tune-up limit	MPR	
	Frequency (MHz)			3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		26.03	25.97	25.98	27.0	0.0



### Reduced Power Mode for DSI 2

#### n5 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.52	22.69	22.84	24.0	0.0
20	PI2 BPSK	1	53	22.45	22.58	22.51		
20	PI2 BPSK	1	104	22.29	22.36	22.28		
20	PI2 BPSK	50	0	22.01	22.16	22.04	23.5	0.5
20	PI2 BPSK	50	28	22.53	22.64	22.55	24.0	0.0
20	PI2 BPSK	50	56	22.02	22.11	22.01		
20	PI2 BPSK	100	0	22.10	22.19	22.05	23.5	0.5
20	QPSK	1	1	22.63	22.72	22.71		
20	QPSK	1	53	22.50	22.63	22.55	24.0	0.0
20	QPSK	1	104	22.37	22.47	22.34		
20	QPSK	50	0	21.52	21.58	21.45	23.0	1.0
20	QPSK	50	28	22.55	22.67	22.62	24.0	0.0
20	QPSK	50	56	21.49	21.54	21.48		
20	QPSK	100	0	21.64	21.69	21.60	23.0	1.0
20	16QAM	1	1	21.37	21.51	21.44	23.0	1.0
20	16QAM	1	1	20.04	20.08	19.96	21.5	2.5
20	256QAM	1	1	17.90	18.02	17.92	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.52	22.60	22.59	24.0	0.0
Channel				165200	167200	169200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.50	22.65	22.64	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.52	22.57	22.63	24.0	0.0

#### n7 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	23.37	23.42	23.32		
40	PI2 BPSK	1	108	23.15	23.26	23.18	24.0	0.0
40	PI2 BPSK	1	214	23.28	23.39	23.23		
40	PI2 BPSK	108	0	22.84	22.95	22.93	23.5	0.5
40	PI2 BPSK	108	54	23.29	23.42	23.18	24.0	0.0
40	PI2 BPSK	108	108	22.80	22.95	22.85		
40	PI2 BPSK	216	0	22.76	22.90	22.91	23.5	0.5
40	QPSK	1	1	23.34	23.49	23.40		
40	QPSK	1	108	23.25	23.34	23.34	24.0	0.0
40	QPSK	1	214	23.23	23.36	23.27		
40	QPSK	108	0	22.26	22.49	22.35	23.0	1.0
40	QPSK	108	54	23.26	23.41	23.38	24.0	0.0
40	QPSK	108	108	22.23	22.45	22.23		
40	QPSK	216	0	22.42	22.45	22.26	23.0	1.0
40	16QAM	1	1	22.82	22.76	22.71	23.0	1.0
40	16QAM	1	1	20.76	20.75	20.71	21.5	2.5
40	256QAM	1	1	18.65	18.83	18.77	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.26	23.41	23.35	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.24	23.34	23.31	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	23.28	23.42	23.29	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.25	23.43	23.30	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.30	23.44	23.27	24.0	0.0
Channel				500600	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.28	23.39	23.31	24.0	0.0

#### n66 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.34	22.45	22.41		
40	PI2 BPSK	1	108	22.24	22.36	22.24	24.0	0.0
40	PI2 BPSK	1	214	22.27	22.32	22.24		
40	PI2 BPSK	108	0	21.76	21.86	21.73	23.5	0.5
40	PI2 BPSK	108	54	22.18	22.31	22.19	24.0	0.0
40	PI2 BPSK	108	108	21.90	21.90	21.81		
40	PI2 BPSK	216	0	21.83	21.92	21.81	23.5	0.5
40	QPSK	1	1	22.33	22.49	22.38		
40	QPSK	1	108	22.31	22.41	22.30	24.0	0.0
40	QPSK	1	214	22.33	22.37	22.33		
40	QPSK	108	0	21.30	21.41	21.30	23.0	1.0
40	QPSK	108	54	22.32	22.37	22.25	24.0	0.0
40	QPSK	108	108	21.24	21.38	21.25		
40	QPSK	216	0	21.36	21.43	21.35	23.0	1.0
40	16QAM	1	1	21.07	21.17	21.08	23.0	1.0
40	16QAM	1	1	19.92	19.92	19.81	21.5	2.5
40	256QAM	1	1	17.61	17.65	17.59	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.23	22.37	22.31	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.21	22.34	22.27	24.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.24	22.44	22.30	24.0	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.24	22.34	22.29	24.0	0.0
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.20	22.41	22.25	24.0	0.0



n38 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.06	23.14	22.99		
40	PI/2 BPSK	1	53	22.91	23.13	22.87	24.0	0.0
40	PI/2 BPSK	1	104	23.04	23.00	23.00		
40	PI/2 BPSK	50	0	22.47	22.55	22.54	23.5	0.5
40	PI/2 BPSK	50	28	22.99	23.02	22.88	24.0	0.0
40	PI/2 BPSK	50	56	22.44	22.50	22.42	23.5	0.5
40	PI/2 BPSK	100	0	22.47	22.60	22.51		
40	QPSK	1	1	23.06	23.19	23.03		
40	QPSK	1	53	22.95	22.99	22.91	24.0	0.0
40	QPSK	1	104	22.89	23.03	22.92		
40	QPSK	50	0	21.99	22.03	21.87	23.0	1.0
40	QPSK	50	28	22.92	23.03	23.01	24.0	0.0
40	QPSK	50	56	21.87	22.06	21.99	23.0	1.0
40	QPSK	100	0	22.00	22.10	21.93		
40	16QAM	1	1	21.88	21.96	21.97	23.0	1.0
40	64QAM	1	1	20.46	20.54	20.47	21.5	2.5
40	256QAM	1	1	18.14	18.29	18.16	19.5	4.5
Channel				517092	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	23.07	23.07	23.00	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.95	23.14	22.97	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	23.02	23.15	22.97	24.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	23.00	23.05	22.89	24.0	0.0

n41 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.01	23.09	23.08		
100	PI/2 BPSK	1	137	23.04	23.12	23.10	24.0	0.0
100	PI/2 BPSK	1	271	23.08	23.07	22.98		
100	PI/2 BPSK	135	0	22.48	22.49	22.40	23.5	0.5
100	PI/2 BPSK	135	69	23.04	23.15	22.99	24.0	0.0
100	PI/2 BPSK	135	138	22.38	22.52	22.46	23.5	0.5
100	PI/2 BPSK	270	0	22.54	22.55	22.37		
100	QPSK	1	1	23.15	23.21	23.08		
100	QPSK	1	137	23.02	23.05	22.99	24.0	0.0
100	QPSK	1	271	23.07	23.17	23.07		
100	QPSK	135	0	21.94	21.95	21.87	23.0	1.0
100	QPSK	135	69	23.15	23.21	23.02	24.0	0.0
100	QPSK	135	138	21.98	21.97	21.85	23.0	1.0
100	QPSK	270	0	21.91	21.98	21.93		
100	16QAM	1	1	22.04	21.99	21.92	23.0	1.0
100	64QAM	1	1	20.47	20.44	20.34	21.5	2.5
100	256QAM	1	1	18.78	18.90	18.72	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.00	23.07	22.99	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.09	23.13	23.03	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.01	23.15	23.04	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.06	23.10	23.04	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.07	23.17	23.03	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.10	23.12	22.95	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.01	23.08	23.03	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.06	23.17	23.00	24.0	0.0



n2 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2-BPSK	1	1	15.45	15.92	15.96		
30	PI2-BPSK	1	53	15.84	15.94	15.96	17.3	0.0
30	PI2-BPSK	1	104	15.84	15.91	15.96		
30	PI2-BPSK	50	0	15.80	15.98	15.96	17.3	0.0
30	PI2-BPSK	50	28	15.80	15.86	15.91	17.3	0.0
30	PI2-BPSK	50	56	15.82	15.81	15.92	17.3	0.0
30	PI2-BPSK	100	0	15.86	15.88	15.91		
30	QPSK	1	1	15.91	15.92	15.93		
30	QPSK	1	53	15.83	15.96	15.96	17.3	0.0
30	QPSK	1	104	15.92	15.90	15.95		
30	QPSK	50	0	15.82	15.91	15.92	17.3	0.0
30	QPSK	50	28	15.82	15.81	15.96	17.3	0.0
30	QPSK	50	56	15.87	15.90	15.85	17.3	0.0
30	QPSK	100	0	15.94	15.97	15.92		
30	HQAM	1	1	15.91	15.90	15.92	17.3	0.0
30	HQAM	1	1	15.93	15.94	15.92	17.3	0.0
30	HQAM	1	1	15.94	15.91	15.96	17.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.83	15.98	15.95	17.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.94	15.94	15.92	17.3	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	15.91	15.95	15.95	17.3	0.0

n5 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2-BPSK	1	1	21.42	21.43	21.45		
30	PI2-BPSK	1	53	21.38	21.48	21.45	22.8	0.0
30	PI2-BPSK	1	104	21.43	21.43	21.44		
30	PI2-BPSK	50	0	21.33	21.46	21.37	22.8	0.0
30	PI2-BPSK	50	28	21.38	21.46	21.42	22.8	0.0
30	PI2-BPSK	50	56	21.36	21.43	21.34	22.8	0.0
30	PI2-BPSK	100	0	21.33	21.46	21.41		
30	QPSK	1	1	21.39	21.55	21.54		
30	QPSK	1	53	21.38	21.48	21.49	22.8	0.0
30	QPSK	1	104	21.40	21.52	21.37		
30	QPSK	50	0	21.36	21.44	21.43	22.8	0.0
30	QPSK	50	28	21.41	21.48	21.41	22.8	0.0
30	QPSK	50	56	21.41	21.45	21.35	22.8	0.0
30	QPSK	100	0	21.33	21.46	21.34		
30	HQAM	1	1	21.42	21.46	21.45	22.8	0.0
30	HQAM	1	1	20.93	20.98	20.99	21.5	1.3
30	HQAM	1	1	18.94	18.98	18.92	18.5	3.3
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.42	21.45	21.35	22.8	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.44	21.45	21.27	22.8	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	21.34	21.40	21.30	22.8	0.0

n7 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2-BPSK	1	1	14.03	14.05	14.03		
40	PI2-BPSK	1	104	14.08	14.01	14.02	16.1	0.0
40	PI2-BPSK	1	214	14.02	14.09	14.10		
40	PI2-BPSK	100	0	14.05	14.09	14.10	16.1	0.0
40	PI2-BPSK	100	56	14.01	14.08	14.11	16.1	0.0
40	PI2-BPSK	100	108	14.04	14.02	14.15	16.1	0.0
40	PI2-BPSK	216	0	14.00	14.02	14.14		
40	QPSK	1	1	14.08	14.05	14.07		
40	QPSK	1	104	14.01	14.03	14.12	16.1	0.0
40	QPSK	1	214	14.05	14.02	14.14		
40	QPSK	100	0	14.07	14.01	14.17	16.1	0.0
40	QPSK	100	56	14.06	14.06	14.01	16.1	0.0
40	QPSK	100	108	14.00	14.08	14.03	16.1	0.0
40	QPSK	216	0	14.08	14.00	14.15		
40	HQAM	1	1	14.04	14.06	14.00	16.1	0.0
40	HQAM	1	1	14.04	14.06	14.10	16.1	0.0
40	HQAM	1	1	14.03	14.07	14.04	16.1	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.03	14.05	14.02	16.1	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	14.08	14.09	14.02	16.1	0.0
Channel								
Frequency (MHz)								
20	PI2-BPSK	1	1	14.05	14.08	14.14	16.1	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.02	14.09	14.12	16.1	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.02	14.09	14.10	16.1	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	14.05	14.03	14.03	16.1	0.0

n66 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2-BPSK	1	1	15.83	15.82	15.84		
40	PI2-BPSK	1	104	15.83	15.82	15.83	17.4	0.0
40	PI2-BPSK	1	214	15.83	15.82	15.84		
40	PI2-BPSK	100	0	15.88	15.87	15.96	17.4	0.0
40	PI2-BPSK	100	56	15.78	15.82	15.84	17.4	0.0
40	PI2-BPSK	100	108	15.88	15.82	15.82	17.4	0.0
40	PI2-BPSK	216	0	15.84	15.82	15.82		
40	QPSK	1	1	15.91	15.92	15.97		
40	QPSK	1	104	15.85	15.89	15.98	17.4	0.0
40	QPSK	1	214	15.84	15.87	15.96		
40	QPSK	100	0	15.84	15.88	15.99	17.4	0.0
40	QPSK	100	56	15.85	15.88	15.81	17.4	0.0
40	QPSK	100	108	15.82	15.92	15.92	17.4	0.0
40	QPSK	216	0	15.81	15.82	15.92		
40	HQAM	1	1	15.82	15.82	15.83	17.4	0.0
40	HQAM	1	1	15.78	15.82	15.98	17.4	0.0
40	HQAM	1	1	15.95	15.82	15.96	17.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.86	15.98	15.98	17.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.78	15.87	15.94	17.4	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.83	15.82	15.83	17.4	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.83	15.82	15.84	17.4	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	15.78	15.82	15.94	17.4	0.0



n38 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	14.75	14.91	14.70		
40	PI/2 BPSK	1	53	14.79	14.88	14.70	16.0	0.0
40	PI/2 BPSK	1	104	14.72	14.92	14.79		
40	PI/2 BPSK	50	0	14.77	14.85	14.77	16.0	0.0
40	PI/2 BPSK	50	28	14.74	14.88	14.80	16.0	0.0
40	PI/2 BPSK	50	56	14.83	14.92	14.79		
40	PI/2 BPSK	100	0	14.73	14.86	14.74	16.0	0.0
40	QPSK	1	1	14.92	15.00	14.84		
40	QPSK	1	53	14.83	14.86	14.72	16.0	0.0
40	QPSK	1	104	14.77	14.87	14.76		
40	QPSK	50	0	14.79	14.79	14.72	16.0	0.0
40	QPSK	50	28	14.74	14.87	14.77	16.0	0.0
40	QPSK	50	56	14.82	14.82	14.77	16.0	0.0
40	QPSK	100	0	14.71	14.77	14.75		
40	16QAM	1	1	14.82	14.93	14.75	16.0	0.0
40	64QAM	1	1	14.72	14.84	14.72	16.0	0.0
40	256QAM	1	1	14.78	14.87	14.72	16.0	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.80	14.80	14.89	16.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2680	2695	2610		
20	QPSK	1	1	14.85	14.87	14.87	16.0	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	14.89	14.77	14.82	16.0	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	14.64	14.78	14.57	16.0	0.0

n41 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.89	14.97	14.79		
100	PI/2 BPSK	1	137	14.90	14.96	14.80	16.0	0.0
100	PI/2 BPSK	1	271	14.84	14.98	14.87		
100	PI/2 BPSK	135	0	14.84	14.91	14.85	16.0	0.0
100	PI/2 BPSK	135	69	14.86	14.96	14.84	16.0	0.0
100	PI/2 BPSK	135	138	14.86	15.00	14.86		
100	PI/2 BPSK	270	0	14.86	14.97	14.86	16.0	0.0
100	QPSK	1	1	14.97	15.06	14.93		
100	QPSK	1	137	14.90	15.01	14.78	16.0	0.0
100	QPSK	1	271	14.88	14.95	14.80		
100	QPSK	135	0	14.83	14.92	14.82	16.0	0.0
100	QPSK	135	69	14.87	14.94	14.84	16.0	0.0
100	QPSK	135	138	14.87	14.93	14.82		
100	QPSK	270	0	14.84	14.92	14.88	16.0	0.0
100	16QAM	1	1	14.92	15.01	14.90	16.0	0.0
100	64QAM	1	1	14.83	14.98	14.78	16.0	0.0
100	256QAM	1	1	14.91	14.92	14.83	16.0	0.0
Channel				509200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.91	14.98	14.88	16.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.85	14.99	14.88	16.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.83	14.95	14.81	16.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.93	15.03	14.89	16.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.88	14.98	14.81	16.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.91	14.94	14.80	16.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.91	14.95	14.80	16.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.82	14.98	14.87	16.0	0.0



Part270 n77 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	10.50	10.57	10.42			
100	PI/2 BPSK	1	137	10.50	10.54	10.41	11.6	0.0	
100	PI/2 BPSK	1	271	10.46	10.54	10.37			
100	PI/2 BPSK	135	0	10.49	10.54	10.37	11.6	0.0	
100	PI/2 BPSK	135	69	10.49	10.53	10.39	11.6	0.0	
100	PI/2 BPSK	135	138	10.49	10.55	10.36			
100	PI/2 BPSK	270	0	10.51	10.55	10.37	11.6	0.0	
100	QPSK	1	1	10.47	10.61	10.48			
100	QPSK	1	137	10.46	10.52	10.41	11.6	0.0	
100	QPSK	1	271	10.49	10.57	10.39			
100	QPSK	135	0	10.45	10.52	10.40	11.6	0.0	
100	QPSK	135	69	10.47	10.57	10.41	11.6	0.0	
100	QPSK	135	138	10.51	10.52	10.40	11.6	0.0	
100	QPSK	270	0	10.48	10.53	10.37			
100	16QAM	1	1	10.47	10.57	10.37	11.6	0.0	
100	64QAM	1	1	10.48	10.55	10.39	11.6	0.0	
100	256QAM	1	1	10.46	10.55	10.37	11.6	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	11.6	0.0	
90	QPSK	1	1	10.53	10.55	10.42			
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	11.6	0.0	
80	QPSK	1	1	10.48	10.54	10.41			
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	11.6	0.0	
70	QPSK	1	1	10.45	10.54	10.38			
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	11.6	0.0	
60	QPSK	1	1	10.47	10.55	10.39			
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	11.6	0.0	
50	QPSK	1	1	10.49	10.52	10.40			
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	11.6	0.0	
40	QPSK	1	1	10.48	10.52	10.39			
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	11.6	0.0	
30	QPSK	1	1	10.48	10.55	10.40			
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	11.6	0.0	
20	QPSK	1	1	10.50	10.57	10.39			
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	3840	3972.51	11.6	0.0	
15	QPSK	1	1	10.49	10.53	10.40			
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	11.6	0.0	
10	QPSK	1	1	10.48	10.57	10.40			

Part270 n77 PC2 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	13.50	13.56	13.42			
100	PI/2 BPSK	1	137	13.52	13.53	13.43	14.6	0.0	
100	PI/2 BPSK	1	271	13.46	13.51	13.38			
100	PI/2 BPSK	135	0	13.51	13.57	13.37	14.6	0.0	
100	PI/2 BPSK	135	69	13.52	13.50	13.40	14.6	0.0	
100	PI/2 BPSK	135	138	13.52	13.53	13.35			
100	PI/2 BPSK	270	0	13.48	13.53	13.40	14.6	0.0	
100	QPSK	1	1	13.49	13.59	13.50			
100	QPSK	1	137	13.44	13.50	13.42	14.6	0.0	
100	QPSK	1	271	13.50	13.58	13.40			
100	QPSK	135	0	13.44	13.51	13.40	14.6	0.0	
100	QPSK	135	69	13.49	13.57	13.41	14.6	0.0	
100	QPSK	135	138	13.49	13.51	13.40	14.6	0.0	
100	QPSK	270	0	13.51	13.53	13.35			
100	16QAM	1	1	13.49	13.58	13.38	14.6	0.0	
100	64QAM	1	1	13.48	13.54	13.40	14.6	0.0	
100	256QAM	1	1	13.45	13.56	13.37	14.6	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	14.6	0.0	
90	QPSK	1	1	13.48	13.52	13.36			
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	14.6	0.0	
80	QPSK	1	1	13.47	13.52	13.35			
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	14.6	0.0	
70	QPSK	1	1	13.48	13.53	13.35			
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	14.6	0.0	
60	QPSK	1	1	13.46	13.55	13.39			
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	14.6	0.0	
50	QPSK	1	1	13.46	13.55	13.38			
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	14.6	0.0	
40	QPSK	1	1	13.50	13.53	13.34			
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	14.6	0.0	
30	QPSK	1	1	13.46	13.56	13.39			
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	14.6	0.0	
20	QPSK	1	1	13.47	13.54	13.35			
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51	14.6	0.0	
15	QPSK	1	1	13.50	13.52	13.39			
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	14.6	0.0	
10	QPSK	1	1	13.47	13.55	13.38			



Part270 n78 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	10.48			11.6	0.0
100	PI/2 BPSK	1	137	10.46				
100	PI/2 BPSK	1	271	10.48				
100	PI/2 BPSK	135	0	10.49			11.6	0.0
100	PI/2 BPSK	135	69	10.49			11.6	0.0
100	PI/2 BPSK	135	138	10.50			11.6	0.0
100	PI/2 BPSK	270	0	10.47				
100	QPSK	1	1	10.58				
100	QPSK	1	137	10.45			11.6	0.0
100	QPSK	1	271	10.52				
100	QPSK	135	0	10.46			11.6	0.0
100	QPSK	135	69	10.51			11.6	0.0
100	QPSK	135	138	10.45			11.6	0.0
100	QPSK	270	0	10.44				
100	16QAM	1	1	10.49			11.6	0.0
100	64QAM	1	1	10.49			11.6	0.0
100	256QAM	1	1	10.51			11.6	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	10.46	10.47	10.28	11.6	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	10.43	10.49	10.33	11.6	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	10.46	10.49	10.32	11.6	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	10.43	10.48	10.31	11.6	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	10.41	10.50	10.31	11.6	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	10.41	10.49	10.32	11.6	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	10.44	10.48	10.30	11.6	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	10.45	10.45	10.32	11.6	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
15	QPSK	1	1	10.46	10.47	10.33	11.6	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	10.41	10.48	10.29	11.6	0.0

Part270 n78 PC2 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	13.49				
100	PI/2 BPSK	1	137	13.49			14.6	0.0
100	PI/2 BPSK	1	271	13.46				
100	PI/2 BPSK	135	0	13.49			14.6	0.0
100	PI/2 BPSK	135	69	13.44			14.6	0.0
100	PI/2 BPSK	135	138	13.46			14.6	0.0
100	PI/2 BPSK	270	0	13.46				
100	QPSK	1	1	13.54				
100	QPSK	1	137	13.43			14.6	0.0
100	QPSK	1	271	13.50				
100	QPSK	135	0	13.44			14.6	0.0
100	QPSK	135	69	13.54			14.6	0.0
100	QPSK	135	138	13.43			14.6	0.0
100	QPSK	270	0	13.47				
100	16QAM	1	1	13.50			14.6	0.0
100	64QAM	1	1	13.49			14.6	0.0
100	256QAM	1	1	13.48			14.6	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	13.40	13.46	13.36	14.6	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	13.38	13.45	13.32	14.6	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	13.37	13.43	13.32	14.6	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	13.41	13.44	13.35	14.6	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	13.41	13.44	13.33	14.6	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	13.38	13.47	13.32	14.6	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	13.38	13.47	13.33	14.6	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	13.35	13.45	13.36	14.6	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
15	QPSK	1	1	13.37	13.47	13.36	14.6	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	13.36	13.43	13.34	14.6	0.0



Part270 n77 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	13.83	13.68	13.57	14.7	0.0
100	PI/2 BPSK	1	137	13.83	13.64	13.55		
100	PI/2 BPSK	1	271	13.82	13.63	13.51		
100	PI/2 BPSK	135	0	13.84	13.72	13.48	14.7	0.0
100	PI/2 BPSK	135	69	13.84	13.65	13.53	14.7	0.0
100	PI/2 BPSK	135	138	13.86	13.64	13.49	14.7	0.0
100	PI/2 BPSK	270	0	13.84	13.70	13.57		
100	QPSK	1	1	13.82	13.75	13.62		
100	QPSK	1	137	13.86	13.63	13.55	14.7	0.0
100	QPSK	1	271	13.82	13.74	13.51		
100	QPSK	135	0	13.58	13.67	13.53		
100	QPSK	135	69	13.61	13.74	13.66	14.7	0.0
100	QPSK	135	138	13.80	13.67	13.51	14.7	0.0
100	QPSK	270	0	13.86	13.69	13.51		
100	16QAM	1	1	13.85	13.70	13.52		
100	64QAM	1	1	13.83	13.68	13.54	14.7	0.0
100	256QAM	1	1	13.58	13.70	13.48	14.7	0.0
Channel				648668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	13.64	13.67	13.53	14.7	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	13.62	13.70	13.57	14.7	0.0
Channel				649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	13.61	13.71	13.55	14.7	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	13.62	13.68	13.52	14.7	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	13.64	13.65	13.52	14.7	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	13.64	13.70	13.51	14.7	0.0
Channel				647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	13.65	13.70	13.52	14.7	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	13.65	13.66	13.53	14.7	0.0
Channel				647168	656000	664834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	13.60	13.67	13.53	14.7	0.0
Channel				647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	13.61	13.65	13.54	14.7	0.0

Part270 n77 PC2 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.60	16.64	16.58	17.7	0.0
100	PI/2 BPSK	1	137	16.62	16.60	16.54		
100	PI/2 BPSK	1	271	16.57	16.57	16.45		
100	PI/2 BPSK	135	0	16.60	16.70	16.47	17.7	0.0
100	PI/2 BPSK	135	69	16.63	16.63	16.49	17.7	0.0
100	PI/2 BPSK	135	138	16.64	16.58	16.46	17.7	0.0
100	PI/2 BPSK	270	0	16.62	16.66	16.56		
100	QPSK	1	1	16.59	16.71	16.67		
100	QPSK	1	137	16.52	16.60	16.54	17.7	0.0
100	QPSK	1	271	16.59	16.68	16.48		
100	QPSK	135	0	16.54	16.66	16.50		
100	QPSK	135	69	16.60	16.68	16.61	17.7	0.0
100	QPSK	135	138	16.55	16.62	16.46	17.7	0.0
100	QPSK	270	0	16.61	16.67	16.47		
100	16QAM	1	1	16.63	16.65	16.50		
100	64QAM	1	1	16.59	16.67	16.52	17.7	0.0
100	256QAM	1	1	16.55	16.65	16.43	17.7	0.0
Channel				649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	16.60	16.64	16.54	17.7	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	16.58	16.64	16.52	17.7	0.0
Channel				649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	16.62	16.66	16.53	17.7	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	16.62	16.67	16.51	17.7	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	16.60	16.64	16.53	17.7	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	16.60	16.66	16.52	17.7	0.0
Channel				647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	16.61	16.62	16.51	17.7	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	16.62	16.63	16.52	17.7	0.0
Channel				647168	656000	664834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	16.58	16.65	16.50	17.7	0.0
Channel				647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	16.58	16.67	16.50	17.7	0.0



Part270 n78 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	13.99			14.9	0.0
100	PI/2 BPSK	1	137	13.93				
100	PI/2 BPSK	1	271	13.94				
100	PI/2 BPSK	135	0	14.00			14.9	0.0
100	PI/2 BPSK	135	69	13.93			14.9	0.0
100	PI/2 BPSK	135	138	13.91			14.9	0.0
100	PI/2 BPSK	270	0	14.02				
100	QPSK	1	1	14.05			14.9	0.0
100	QPSK	1	137	13.93				
100	QPSK	1	271	14.03				
100	QPSK	135	0	13.95			14.9	0.0
100	QPSK	135	69	14.01			14.9	0.0
100	QPSK	135	138	13.97			14.9	0.0
100	QPSK	270	0	13.98				
100	16QAM	1	1	14.02			14.9	0.0
100	64QAM	1	1	14.00			14.9	0.0
100	256QAM	1	1	14.01			14.9	0.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	13.82	13.88	13.75	14.9	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	13.81	13.89	13.70	14.9	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	13.80	13.91	13.76	14.9	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	13.70	13.90	13.74	14.9	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	13.81	13.89	13.73	14.9	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	13.81	13.91	13.72	14.9	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	13.83	13.89	13.74	14.9	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	13.82	13.91	13.70	14.9	0.0
Channel				647000	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	13.81	13.88	13.73	14.9	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	13.82	13.87	13.73	14.9	0.0

Part270 n78 PC2 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	16.62				
100	PI/2 BPSK	1	137	16.59			17.9	0.0
100	PI/2 BPSK	1	271	16.62				
100	PI/2 BPSK	135	0	16.60			17.9	0.0
100	PI/2 BPSK	135	69	16.51			17.9	0.0
100	PI/2 BPSK	135	138	16.60			17.9	0.0
100	PI/2 BPSK	270	0	16.63				
100	QPSK	1	1	16.66			17.9	0.0
100	QPSK	1	137	16.54				
100	QPSK	1	271	16.58				
100	QPSK	135	0	16.53			17.9	0.0
100	QPSK	135	69	16.58			17.9	0.0
100	QPSK	135	138	16.57			17.9	0.0
100	QPSK	270	0	16.55				
100	16QAM	1	1	16.60			17.9	0.0
100	64QAM	1	1	16.62			17.9	0.0
100	256QAM	1	1	16.56			17.9	0.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	16.52	16.58	16.45	17.9	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	16.54	16.55	16.44	17.9	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	16.54	16.55	16.43	17.9	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	16.50	16.54	16.44	17.9	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	16.48	16.58	16.44	17.9	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	16.51	16.56	16.43	17.9	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	16.50	16.58	16.41	17.9	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	16.54	16.57	16.42	17.9	0.0
Channel				647000	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	16.51	16.55	16.43	17.9	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	16.54	16.55	16.40	17.9	0.0



Part270 n77 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	13.73	13.80	13.66			
100	PI/2 BPSK	1	137	13.76	13.72	13.67	15.1	0.0	
100	PI/2 BPSK	1	271	13.71	13.73	13.63			
100	PI/2 BPSK	135	0	13.73	13.64	13.61	15.1	0.0	
100	PI/2 BPSK	135	69	13.71	13.73	13.63	15.1	0.0	
100	PI/2 BPSK	135	138	13.78	13.77	13.59	15.1	0.0	
100	PI/2 BPSK	270	0	13.71	13.60	13.65			
100	QPSK	1	1	13.77	13.69	13.82			
100	QPSK	1	137	13.69	13.74	13.68	15.1	0.0	
100	QPSK	1	271	13.75	13.62	13.58			
100	QPSK	135	0	13.71	13.79	13.66	15.1	0.0	
100	QPSK	135	69	13.69	13.64	13.75	15.1	0.0	
100	QPSK	135	138	13.70	13.79	13.61	15.1	0.0	
100	QPSK	270	0	13.78	13.60	13.60			
100	16QAM	1	1	13.77	13.79	13.58	15.1	0.0	
100	64QAM	1	1	13.75	13.82	13.63	15.1	0.0	
100	256QAM	1	1	13.74	13.61	13.63	15.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	13.71	13.76	13.65	15.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	13.71	13.76	13.65	15.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	13.72	13.80	13.65	15.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	13.71	13.77	13.62	15.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	13.72	13.76	13.63	15.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	13.75	13.80	13.61	15.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	13.76	13.77	13.62	15.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	13.71	13.76	13.64	15.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	3840	3972.51			
15	QPSK	1	1	13.74	13.75	13.63	15.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	13.72	13.78	13.62	15.1	0.0	

Part270 n77 PC2 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	16.66	16.70	16.59			
100	PI/2 BPSK	1	137	16.65	16.60	16.59	18.1	0.0	
100	PI/2 BPSK	1	271	16.62	16.63	16.54			
100	PI/2 BPSK	135	0	16.64	16.77	16.51	18.1	0.0	
100	PI/2 BPSK	135	69	16.63	16.62	16.55	18.1	0.0	
100	PI/2 BPSK	135	138	16.69	16.65	16.51	18.1	0.0	
100	PI/2 BPSK	270	0	16.62	16.72	16.56			
100	QPSK	1	1	16.68	16.61	16.71			
100	QPSK	1	137	16.59	16.63	16.61	18.1	0.0	
100	QPSK	1	271	16.64	16.75	16.51			
100	QPSK	135	0	16.60	16.67	16.54	18.1	0.0	
100	QPSK	135	69	16.61	16.76	16.64	18.1	0.0	
100	QPSK	135	138	16.62	16.72	16.51	18.1	0.0	
100	QPSK	270	0	16.68	16.69	16.50			
100	16QAM	1	1	16.68	16.67	16.46	18.1	0.0	
100	64QAM	1	1	16.65	16.75	16.52	18.1	0.0	
100	256QAM	1	1	16.66	16.70	16.54	18.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.69	16.70	16.52	18.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.69	16.70	16.47	18.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.68	16.73	16.52	18.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.69	16.73	16.49	18.1	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	16.71	16.48	18.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.68	16.71	16.49	18.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.69	16.72	16.48	18.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.67	16.68	16.50	18.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	16.67	16.68	16.49	18.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.67	16.69	16.51	18.1	0.0	



Part270 n78 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	13.51					
100	PI/2 BPSK	1	137	13.46			14.7	0.0	
100	PI/2 BPSK	1	271	13.45					
100	PI/2 BPSK	135	0	13.53			14.7	0.0	
100	PI/2 BPSK	135	69	13.44			14.7	0.0	
100	PI/2 BPSK	135	138	13.42			14.7	0.0	
100	PI/2 BPSK	270	0	13.52					
100	QPSK	1	1	13.58					
100	QPSK	1	137	13.42			14.7	0.0	
100	QPSK	1	271	13.56					
100	QPSK	135	0	13.46			14.7	0.0	
100	QPSK	135	69	13.56			14.7	0.0	
100	QPSK	135	138	13.46			14.7	0.0	
100	QPSK	270	0	13.51					
100	16QAM	1	1	13.52			14.7	0.0	
100	64QAM	1	1	13.47			14.7	0.0	
100	256QAM	1	1	13.47			14.7	0.0	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	13.40	13.48	13.35	14.7	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	13.41	13.49	13.33	14.7	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	13.45	13.50	13.39	14.7	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	13.41	13.46	13.33	14.7	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	13.43	13.50	13.32	14.7	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	13.44	13.46	13.32	14.7	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	13.41	13.45	13.32	14.7	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	13.41	13.50	13.35	14.7	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.82	3750	3792.51			
15	QPSK	1	1	13.44	13.49	13.32	14.7	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	13.44	13.49	13.38	14.7	0.0	

Part270 n78 PC2 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	16.45					
100	PI/2 BPSK	1	137	16.38			17.7	0.0	
100	PI/2 BPSK	1	271	16.37					
100	PI/2 BPSK	135	0	16.47			17.7	0.0	
100	PI/2 BPSK	135	69	16.37			17.7	0.0	
100	PI/2 BPSK	135	138	16.32			17.7	0.0	
100	PI/2 BPSK	270	0	16.45					
100	QPSK	1	1	16.51					
100	QPSK	1	137	16.35			17.7	0.0	
100	QPSK	1	271	16.49					
100	QPSK	135	0	16.36			17.7	0.0	
100	QPSK	135	69	16.46			17.7	0.0	
100	QPSK	135	138	16.38			17.7	0.0	
100	QPSK	270	0	16.42					
100	16QAM	1	1	16.41			17.7	0.0	
100	64QAM	1	1	16.39			17.7	0.0	
100	256QAM	1	1	16.38			17.7	0.0	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.34	16.38	16.27	17.7	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	16.31	16.39	16.27	17.7	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.31	16.38	16.25	17.7	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	16.31	16.39	16.25	17.7	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	16.33	16.35	16.28	17.7	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.30	16.35	16.27	17.7	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	16.32	16.36	16.24	17.7	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.31	16.39	16.27	17.7	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.82	3750	3792.51			
15	QPSK	1	1	16.34	16.39	16.29	17.7	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.35	16.37	16.30	17.7	0.0	



Part270 n77 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.03	22.09	22.08	23.0	0.0
100	PI/2 BPSK	1	137	21.84	21.99	21.91		
100	PI/2 BPSK	1	271	21.86	21.87	21.80		
100	PI/2 BPSK	135	0	21.29	21.45	21.41		
100	PI/2 BPSK	135	69	21.79	21.93	21.83		
100	PI/2 BPSK	135	138	21.38	21.32	21.31		
100	PI/2 BPSK	270	0	21.37	21.54	21.38		
100	QPSK	1	1	22.12	22.22	22.08		
100	QPSK	1	137	22.10	22.11	22.01		
100	QPSK	1	271	21.90	22.08	22.00		
100	QPSK	135	0	20.82	20.96	20.82	22.0	1.0
100	QPSK	135	69	21.87	21.89	21.81	23.0	0.0
100	QPSK	135	138	20.87	20.86	20.82	22.0	1.0
100	QPSK	270	0	20.87	20.96	20.82		
100	16QAM	1	1	21.08	21.09	21.04	22.0	1.0
100	64QAM	1	1	19.51	19.50	19.55	20.5	2.5
100	256QAM	1	1	17.14	17.10	17.02	18.5	4.5
Channel				648688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	23.0	0.0
90	QPSK	1	1	22.03	22.03	22.01	23.0	0.0
Channel				648334	656000	662688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.0	0.0
80	QPSK	1	1	22.09	22.10	21.99	23.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	23.0	0.0
70	QPSK	1	1	22.02	22.15	22.00	23.0	0.0
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	23.0	0.0
60	QPSK	1	1	22.08	22.07	22.02	23.0	0.0
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	23.0	0.0
50	QPSK	1	1	22.08	22.12	22.02	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.0	0.0
40	QPSK	1	1	21.99	22.15	21.96	23.0	0.0
Channel				647868	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.0	0.0
30	QPSK	1	1	22.07	22.14	21.97	23.0	0.0
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	QPSK	1	1	22.05	22.19	22.01	23.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51	23.0	0.0
15	QPSK	1	1	22.02	22.16	21.98	23.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	23.0	0.0
10	QPSK	1	1	22.03	22.11	22.04	23.0	0.0

Part270 n77 PC2 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.94	24.87	24.89	26.0	0.0
100	PI/2 BPSK	1	137	24.81	24.88	24.79		
100	PI/2 BPSK	1	271	24.70	24.93	24.84		
100	PI/2 BPSK	135	0	24.27	24.33	24.27		
100	PI/2 BPSK	135	69	24.72	24.82	24.73		
100	PI/2 BPSK	135	138	24.06	24.17	24.14		
100	PI/2 BPSK	270	0	24.20	24.33	24.30		
100	QPSK	1	1	24.97	25.06	25.00		
100	QPSK	1	137	24.81	24.91	24.89		
100	QPSK	1	271	24.82	24.84	24.71		
100	QPSK	135	0	23.83	23.91	23.82	25.0	1.0
100	QPSK	135	69	24.91	24.92	24.77	26.0	0.0
100	QPSK	135	138	23.71	23.77	23.59	25.0	1.0
100	QPSK	270	0	23.80	23.82	23.77		
100	16QAM	1	1	23.86	24.02	23.87	25.0	1.0
100	64QAM	1	1	22.29	22.33	22.40	23.5	2.5
100	256QAM	1	1	20.03	20.28	20.13	21.5	4.5
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	26.0	0.0
90	QPSK	1	1	24.87	24.98	24.94	26.0	0.0
Channel				649334	656000	662688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	26.0	0.0
80	QPSK	1	1	24.84	24.94	24.93	26.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	26.0	0.0
70	QPSK	1	1	24.92	24.92	24.87	26.0	0.0
Channel				648688	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	26.0	0.0
60	QPSK	1	1	24.89	24.95	24.94	26.0	0.0
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	26.0	0.0
50	QPSK	1	1	24.92	25.03	24.99	26.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	26.0	0.0
40	QPSK	1	1	24.94	25.00	24.92	26.0	0.0
Channel				647868	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	26.0	0.0
30	QPSK	1	1	24.82	25.03	24.88	26.0	0.0
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	26.0	0.0
20	QPSK	1	1	24.90	24.92	24.91	26.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	26.0	0.0
15	QPSK	1	1	24.93	24.98	24.93	26.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	26.0	0.0
10	QPSK	1	1	24.84	24.95	24.87	26.0	0.0



Part270 n78 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		23.03				
100	PI/2 BPSK	1	137		22.95		24.0	0.0	
100	PI/2 BPSK	1	271		22.88				
100	PI/2 BPSK	135	0		22.55		23.5	0.5	
100	PI/2 BPSK	135	69		22.95		24.0	0.0	
100	PI/2 BPSK	135	138		22.40				
100	PI/2 BPSK	270	0		22.42		23.5	0.5	
100	QPSK	1	1		23.07				
100	QPSK	1	137		23.03		24.0	0.0	
100	QPSK	1	271		22.79				
100	QPSK	135	0		22.02		23.0	1.0	
100	QPSK	135	69		23.05		24.0	0.0	
100	QPSK	135	138		21.88				
100	QPSK	270	0		21.83		23.0	1.0	
100	16QAM	1	1		21.92		23.0	1.0	
100	64QAM	1	1		20.38		21.5	2.5	
100	256QAM	1	1		18.16		19.5	4.5	
	Channel			649668	650000	650334	Tune-up limit	MPR	
	Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		22.89	23.02	22.97	24.0	0.0
	Channel			649334	650000	650668	Tune-up limit	MPR	
	Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		22.89	22.97	22.97	24.0	0.0
	Channel			649000	650000	651000	Tune-up limit	MPR	
	Frequency (MHz)			3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		22.88	22.97	22.99	24.0	0.0
	Channel			648668	650000	651334	Tune-up limit	MPR	
	Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		23.00	22.96	22.98	24.0	0.0
	Channel			648334	650000	651668	Tune-up limit	MPR	
	Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		22.88	22.98	23.03	24.0	0.0
	Channel			648000	650000	652000	Tune-up limit	MPR	
	Frequency (MHz)			3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		23.02	23.01	22.94	24.0	0.0
	Channel			647668	650000	652334	Tune-up limit	MPR	
	Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		23.01	23.04	22.94	24.0	0.0
	Channel			647334	650000	652668	Tune-up limit	MPR	
	Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		22.99	22.95	23.02	24.0	0.0
	Channel			647168	650000	652834	Tune-up limit	MPR	
	Frequency (MHz)			3707.82	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		22.93	22.93	22.99	24.0	0.0
	Channel			647000	650000	653000	Tune-up limit	MPR	
	Frequency (MHz)			3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		22.96	22.99	23.04	24.0	0.0

Part270 n78 PC2 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		25.95				
100	PI/2 BPSK	1	137		26.03		27.0	0.0	
100	PI/2 BPSK	1	271		25.94				
100	PI/2 BPSK	135	0		25.53		26.5	0.5	
100	PI/2 BPSK	135	69		25.99		27.0	0.0	
100	PI/2 BPSK	135	138		25.27				
100	PI/2 BPSK	270	0		25.38		26.5	0.5	
100	QPSK	1	1		26.10				
100	QPSK	1	137		25.99		27.0	0.0	
100	QPSK	1	271		25.90				
100	QPSK	135	0		25.00		26.0	1.0	
100	QPSK	135	69		26.07		27.0	0.0	
100	QPSK	135	138		24.69				
100	QPSK	270	0		24.86		26.0	1.0	
100	16QAM	1	1		24.97		26.0	1.0	
100	64QAM	1	1		23.33		24.5	2.5	
100	256QAM	1	1		21.34		22.5	4.5	
	Channel			649668	650000	650334	Tune-up limit	MPR	
	Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		26.04	26.02	26.00	27.0	0.0
	Channel			649334	650000	650668	Tune-up limit	MPR	
	Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		26.05	25.95	25.95	27.0	0.0
	Channel			649000	650000	651000	Tune-up limit	MPR	
	Frequency (MHz)			3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		26.00	25.98	26.03	27.0	0.0
	Channel			648668	650000	651334	Tune-up limit	MPR	
	Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		26.05	26.05	25.95	27.0	0.0
	Channel			648334	650000	651668	Tune-up limit	MPR	
	Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		26.02	26.06	26.01	27.0	0.0
	Channel			648000	650000	652000	Tune-up limit	MPR	
	Frequency (MHz)			3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		26.03	26.02	25.97	27.0	0.0
	Channel			647668	650000	652334	Tune-up limit	MPR	
	Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		26.06	26.00	26.05	27.0	0.0
	Channel			647334	650000	652668	Tune-up limit	MPR	
	Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		26.04	26.05	26.01	27.0	0.0
	Channel			647168	650000	652834	Tune-up limit	MPR	
	Frequency (MHz)			3707.82	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		26.01	25.96	25.97	27.0	0.0
	Channel			647000	650000	653000	Tune-up limit	MPR	
	Frequency (MHz)			3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		26.03	25.97	25.98	27.0	0.0



Reduced Power Mode for DSI 3

n5 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				165000	167000	169000			
				834	836.5	839			
20	PI2 BPSK	1	1	22.62	22.66	22.54			
20	PI2 BPSK	1	53	22.45	22.58	22.51	24.0	0.0	
20	PI2 BPSK	1	164	22.29	22.36	22.28			
20	PI2 BPSK	50	0	22.01	22.16	22.04	23.5	0.5	
20	PI2 BPSK	50	28	22.53	22.84	22.55	24.0	0.0	
20	PI2 BPSK	50	58	22.02	22.11	22.01			
20	PI2 BPSK	100	0	22.10	22.19	22.05	23.5	0.5	
20	QPSK	1	1	22.83	22.72	22.71			
20	QPSK	1	53	22.50	22.63	22.55	24.0	0.0	
20	QPSK	1	164	22.37	22.47	22.34			
20	QPSK	50	0	21.52	21.58	21.45	23.0	1.0	
20	QPSK	50	28	22.55	22.67	22.62	24.0	0.0	
20	QPSK	50	58	21.49	21.54	21.46			
20	QPSK	100	0	21.84	21.69	21.60	23.0	1.0	
20	16QAM	1	1	21.37	21.51	21.44	23.0	1.0	
20	64QAM	1	1	20.04	20.08	19.96	21.5	2.5	
20	256QAM	1	1	17.90	18.02	17.92	19.5	4.5	
Channel									
Frequency (MHz)				169300	167300	168300			
				831.5	836.5	841.5			
15	QPSK	1	1	22.52	22.60	22.59	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	168800			
				829	836.5	844			
10	QPSK	1	1	22.50	22.65	22.64	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	169300			
				826.5	836.5	846.5			
5	QPSK	1	1	22.52	22.57	22.63	24.0	0.0	

n7 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				505000	507000	510000			
				2520	2535	2550			
40	PI2 BPSK	1	1	17.89	17.97	17.92			
40	PI2 BPSK	1	108	17.87	18.04	17.91	19.2	0.0	
40	PI2 BPSK	1	214	17.87	17.99	17.92			
40	PI2 BPSK	108	0	17.80	18.04	17.98	19.2	0.0	
40	PI2 BPSK	108	54	17.89	18.01	17.97	19.2	0.0	
40	PI2 BPSK	108	108	17.89	17.97	17.99			
40	PI2 BPSK	216	0	17.80	17.98	17.98	19.2	0.0	
40	QPSK	1	1	17.93	18.08	18.04			
40	QPSK	1	108	17.82	18.04	17.96	19.2	0.0	
40	QPSK	1	214	17.80	17.98	18.00			
40	QPSK	108	0	17.80	18.01	17.93	19.2	0.0	
40	QPSK	108	54	17.88	18.05	17.92	19.2	0.0	
40	QPSK	108	108	17.82	18.01	17.93			
40	QPSK	216	0	17.82	18.00	17.93	19.2	0.0	
40	16QAM	1	1	17.78	18.01	17.98	19.2	0.0	
40	64QAM	1	1	17.88	18.03	17.99	19.2	0.0	
40	256QAM	1	1	17.83	18.00	17.95	19.2	0.0	
Channel									
Frequency (MHz)				503000	507000	511000			
				2515	2535	2555			
30	QPSK	1	1	17.80	17.94	17.97	19.2	0.0	
Channel									
Frequency (MHz)				502600	507000	511500			
				2512.5	2535	2577.5			
20	QPSK	1	1	17.85	17.99	17.97	19.2	0.0	
Channel									
Frequency (MHz)				502000	507000	512000			
				2510	2535	2560			
20	PI2 BPSK	1	1	17.88	18.00	17.90	19.2	0.0	
Channel									
Frequency (MHz)				501500	507000	512500			
				2507.5	2535	2582.5			
15	QPSK	1	1	17.82	18.03	17.99	19.2	0.0	
Channel									
Frequency (MHz)				501000	507000	513000			
				2505	2535	2585			
10	QPSK	1	1	17.80	18.03	17.92	19.2	0.0	
Channel									
Frequency (MHz)				500500	507000	513500			
				2502.5	2535	2587.5			
5	QPSK	1	1	17.87	17.98	17.96	19.2	0.0	

n6 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				346000	348000	350000			
				1730	1745	1760			
40	PI2 BPSK	1	1	13.80	13.93	13.91			
40	PI2 BPSK	1	108	13.82	14.01	13.89	14.9	0.0	
40	PI2 BPSK	1	214	13.84	13.92	13.91			
40	PI2 BPSK	108	0	13.80	13.98	13.86	14.9	0.0	
40	PI2 BPSK	108	54	13.89	13.95	13.95	14.9	0.0	
40	PI2 BPSK	108	108	13.84	13.94	13.88			
40	PI2 BPSK	216	0	13.88	13.95	13.89	14.9	0.0	
40	QPSK	1	1	13.95	14.03	14.00			
40	QPSK	1	108	13.84	14.02	13.95	14.9	0.0	
40	QPSK	1	214	13.80	14.00	13.89			
40	QPSK	108	0	13.85	13.95	13.95	14.9	0.0	
40	QPSK	108	54	13.91	14.03	13.90	14.9	0.0	
40	QPSK	108	108	13.82	13.93	13.86			
40	QPSK	216	0	13.90	13.97	13.93	14.9	0.0	
40	16QAM	1	1	13.84	14.00	13.85	14.9	0.0	
40	64QAM	1	1	13.91	13.97	13.95	14.9	0.0	
40	256QAM	1	1	13.88	14.02	13.87	14.9	0.0	
Channel									
Frequency (MHz)				345000	349000	353000			
				1725	1745	1765			
30	QPSK	1	1	13.90	14.00	13.86	14.9	0.0	
Channel									
Frequency (MHz)				344000	349000	354000			
				1720	1745	1770			
20	QPSK	1	1	13.91	14.01	13.92	14.9	0.0	
Channel									
Frequency (MHz)				343500	349000	354500			
				1717.5	1745	1772.5			
15	QPSK	1	1	13.88	13.94	13.97	14.9	0.0	
Channel									
Frequency (MHz)				343000	349000	355000			
				1715	1745	1775			
10	QPSK	1	1	13.80	13.98	13.96	14.9	0.0	
Channel									
Frequency (MHz)				342600	349000	355500			
				1712.5	1745	1777.5			
5	QPSK	1	1	13.89	13.98	13.92	14.9	0.0	



n38 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	19.60	19.56	19.46		
40	PI/2 BPSK	1	53	19.57	19.57	19.54	20.7	0.0
40	PI/2 BPSK	1	104	19.58	19.60	19.48		
40	PI/2 BPSK	50	0	19.58	19.61	19.43	20.7	0.0
40	PI/2 BPSK	50	28	19.59	19.61	19.50	20.7	0.0
40	PI/2 BPSK	50	56	19.57	19.61	19.44		
40	PI/2 BPSK	100	0	19.46	19.59	19.47	20.7	0.0
40	QPSK	1	1	19.69	19.72	19.63		
40	QPSK	1	53	19.65	19.63	19.56	20.7	0.0
40	QPSK	1	104	19.52	19.65	19.45		
40	QPSK	50	0	19.51	19.58	19.44	20.7	0.0
40	QPSK	50	28	19.60	19.62	19.59	20.7	0.0
40	QPSK	50	56	19.53	19.49	19.56	20.7	0.0
40	QPSK	100	0	19.56	19.61	19.49		
40	16QAM	1	1	19.60	19.64	19.56	20.7	0.0
40	64QAM	1	1	19.67	19.62	19.53	20.7	0.0
40	256QAM	1	1	18.14	18.29	18.16	19.5	1.2
Channel				517092	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	20.7	0.0
30	QPSK	1	1	19.57	19.53	19.57		
Channel				516090	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	20.7	0.0
20	QPSK	1	1	19.52	19.55	19.54		
Channel				515092	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	20.7	0.0
15	QPSK	1	1	19.54	19.52	19.49		
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	20.7	0.0
10	QPSK	1	1	19.57	19.57	19.49		

n41 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.70	19.68	19.59		
100	PI/2 BPSK	1	137	19.70	19.67	19.60	20.7	0.0
100	PI/2 BPSK	1	271	19.66	19.73	19.56		
100	PI/2 BPSK	135	0	19.63	19.72	19.57	20.7	0.0
100	PI/2 BPSK	135	69	19.63	19.71	19.57	20.7	0.0
100	PI/2 BPSK	135	138	19.65	19.65	19.56		
100	PI/2 BPSK	270	0	19.61	19.65	19.56	20.7	0.0
100	QPSK	1	1	19.74	19.79	19.68		
100	QPSK	1	137	19.68	19.72	19.65	20.7	0.0
100	QPSK	1	271	19.65	19.72	19.56		
100	QPSK	135	0	19.65	19.69	19.57	20.7	0.0
100	QPSK	135	69	19.70	19.76	19.65	20.7	0.0
100	QPSK	135	138	19.67	19.64	19.62		
100	QPSK	270	0	19.61	19.65	19.61	20.7	0.0
100	16QAM	1	1	19.70	19.69	19.60	20.7	0.0
100	64QAM	1	1	19.70	19.68	19.61	20.7	0.0
100	256QAM	1	1	18.78	18.90	18.72	19.5	1.2
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	20.7	0.0
90	QPSK	1	1	19.61	19.65	19.62		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	20.7	0.0
80	QPSK	1	1	19.68	19.74	19.59		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	20.7	0.0
70	QPSK	1	1	19.64	19.74	19.57		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	20.7	0.0
60	QPSK	1	1	19.62	19.69	19.60		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	20.7	0.0
50	QPSK	1	1	19.61	19.73	19.54		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	20.7	0.0
40	QPSK	1	1	19.66	19.65	19.58		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	20.7	0.0
30	QPSK	1	1	19.62	19.67	19.62		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	20.7	0.0
20	QPSK	1	1	19.64	19.70	19.62		



n2 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Max Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2-BPSK	1	1	17.58	17.54	17.51			
30	PI2-BPSK	1	53	17.41	17.36	17.33	18.8	0.0	
30	PI2-BPSK	1	104	17.21	17.16	17.13			
30	PI2-BPSK	50	0	17.21	17.17	17.13	18.8	0.0	
30	PI2-BPSK	50	26	17.26	17.22	17.18	18.8	0.0	
30	PI2-BPSK	50	56	17.24	17.20	17.17	18.8	0.0	
30	PI2-BPSK	100	0	17.26	17.16	17.14			
30	QPSK	1	1	17.55	17.50	17.45			
30	QPSK	1	53	17.40	17.30	17.45	18.8	0.0	
30	QPSK	1	104	17.20	17.10	17.41			
30	QPSK	50	0	17.23	17.18	17.50	18.8	0.0	
30	QPSK	50	26	17.28	17.20	17.48	18.8	0.0	
30	QPSK	50	56	17.27	17.17	17.55	18.8	0.0	
30	QPSK	100	0	17.40	17.20	17.41			
30	HQAM	1	1	17.42	17.35	17.41	18.8	0.0	
30	HQAM	1	1	17.29	17.31	17.48	18.8	0.0	
30	HQAM	1	1	17.42	17.51	17.45	18.8	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.55	17.50	17.45	18.8	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.20	17.32	17.40	18.8	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.32	17.48	17.50	18.8	0.0	

n5 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Max Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2-BPSK	1	1	22.80	22.85	22.85			
30	PI2-BPSK	1	53	22.80	22.83	22.82	24.0	0.0	
30	PI2-BPSK	1	104	22.75	22.82	22.85			
30	PI2-BPSK	50	0	22.40	22.32	22.40	23.5	0.0	
30	PI2-BPSK	50	26	22.80	22.81	22.80	23.5	0.0	
30	PI2-BPSK	50	56	22.42	22.47	22.43	23.5	0.0	
30	PI2-BPSK	100	0	22.40	22.31	22.45			
30	QPSK	1	1	22.81	22.80	22.81			
30	QPSK	1	53	22.80	22.84	22.81	24.0	0.0	
30	QPSK	1	104	22.77	22.80	22.84			
30	QPSK	50	0	21.80	21.85	21.81	23.0	1.0	
30	QPSK	50	26	21.80	21.85	21.81	23.0	1.0	
30	QPSK	50	56	21.80	21.82	21.81	23.0	1.0	
30	QPSK	100	0	21.80	22.00	21.81			
30	HQAM	1	1	21.80	21.80	21.80	23.0	1.0	
30	HQAM	1	1	20.85	20.58	20.50	21.5	2.5	
30	HQAM	1	1	18.24	18.20	18.22	18.5	4.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.80	22.85	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	22.85	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.81	22.84	22.83	24.0	0.0	

n7 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Max Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2-BPSK	1	1	15.76	15.86	15.82			
40	PI2-BPSK	1	104	15.76	15.85	15.86	17.4	0.0	
40	PI2-BPSK	1	214	15.84	15.79	15.78			
40	PI2-BPSK	100	0	15.83	15.85	15.79	17.4	0.0	
40	PI2-BPSK	100	56	15.81	15.80	15.71	17.4	0.0	
40	PI2-BPSK	100	108	15.74	15.85	15.78	17.4	0.0	
40	PI2-BPSK	216	0	15.74	15.80	15.81			
40	QPSK	1	1	15.87	15.95	15.90			
40	QPSK	1	104	15.73	15.81	15.77	17.4	0.0	
40	QPSK	1	214	15.76	15.80	15.81			
40	QPSK	100	0	15.79	15.82	15.78	17.4	0.0	
40	QPSK	100	56	15.86	15.86	15.74	17.4	0.0	
40	QPSK	100	108	15.75	15.82	15.78	17.4	0.0	
40	QPSK	216	0	15.75	15.79	15.75			
40	HQAM	1	1	15.77	15.90	15.78	17.4	0.0	
40	HQAM	1	1	15.78	15.83	15.83	17.4	0.0	
40	HQAM	1	1	15.76	15.80	15.78	17.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.81	15.91	15.85	17.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.79	15.86	15.80	17.4	0.0	
Channel									
Frequency (MHz)									
20	PI2-BPSK	1	1	15.80	15.83	15.77	17.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.74	15.83	15.81	17.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.79	15.80	15.82	17.4	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.75	15.81	15.79	17.4	0.0	

n66 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Max Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2-BPSK	1	1	15.36	15.36	15.37			
40	PI2-BPSK	1	104	15.42	15.30	15.41	18.8	0.0	
40	PI2-BPSK	1	214	15.43	15.30	15.41			
40	PI2-BPSK	100	0	15.38	15.30	15.32	18.8	0.0	
40	PI2-BPSK	100	56	15.41	15.40	15.41	18.8	0.0	
40	PI2-BPSK	100	108	15.39	15.37	15.38	18.8	0.0	
40	PI2-BPSK	216	0	15.40	15.34	15.30			
40	QPSK	1	1	15.47	15.50	15.48			
40	QPSK	1	104	15.41	15.44	15.42	18.8	0.0	
40	QPSK	1	214	15.37	15.40	15.33			
40	QPSK	100	0	15.40	15.30	15.37	18.8	0.0	
40	QPSK	100	56	15.35	15.40	15.41	18.8	0.0	
40	QPSK	100	108	15.40	15.41	15.41	18.8	0.0	
40	QPSK	216	0	15.33	15.40	15.34			
40	HQAM	1	1	15.42	15.30	15.32	18.8	0.0	
40	HQAM	1	1	15.34	15.40	15.38	18.8	0.0	
40	HQAM	1	1	15.40	15.41	15.37	18.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.40	15.44	15.33	18.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.36	15.41	15.43	18.8	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.43	15.42	15.38	18.8	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.39	15.42	15.40	18.8	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.36	15.43	15.34	18.8	0.0	



n38 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	14.28	14.48	14.35		
40	PI/2 BPSK	1	53	14.36	14.40	14.40	15.6	0.0
40	PI/2 BPSK	1	104	14.35	14.38	14.30		
40	PI/2 BPSK	50	0	14.43	14.38	14.36	15.6	0.0
40	PI/2 BPSK	50	28	14.27	14.36	14.26	15.6	0.0
40	PI/2 BPSK	50	56	14.36	14.37	14.33		
40	PI/2 BPSK	100	0	14.43	14.42	14.38	15.6	0.0
40	QPSK	1	1	14.44	14.51	14.45		
40	QPSK	1	53	14.33	14.44	14.29	15.6	0.0
40	QPSK	1	104	14.32	14.44	14.29		
40	QPSK	50	0	14.37	14.33	14.35	15.6	0.0
40	QPSK	50	28	14.44	14.47	14.31	15.6	0.0
40	QPSK	50	56	14.32	14.32	14.34		
40	QPSK	100	0	14.40	14.43	14.31	15.6	0.0
40	16QAM	1	1	14.36	14.44	14.30	15.6	0.0
40	64QAM	1	1	14.39	14.34	14.42	15.6	0.0
40	256QAM	1	1	14.35	14.46	14.40	15.6	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.39	14.43	14.33	15.6	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	14.36	14.40	14.31	15.6	0.0
Channel				515002	519000	522498		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	14.43	14.43	14.33	15.6	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	14.35	14.48	14.29	15.6	0.0

n41 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.43	14.53	14.46		
100	PI/2 BPSK	1	137	14.45	14.48	14.46	15.6	0.0
100	PI/2 BPSK	1	271	14.44	14.49	14.44		
100	PI/2 BPSK	135	0	14.47	14.50	14.42	15.6	0.0
100	PI/2 BPSK	135	69	14.41	14.47	14.38	15.6	0.0
100	PI/2 BPSK	135	138	14.45	14.48	14.44		
100	PI/2 BPSK	270	0	14.47	14.48	14.45	15.6	0.0
100	QPSK	1	1	14.53	14.56	14.51		
100	QPSK	1	137	14.48	14.52	14.40	15.6	0.0
100	QPSK	1	271	14.46	14.48	14.38		
100	QPSK	135	0	14.45	14.42	14.45	15.6	0.0
100	QPSK	135	69	14.46	14.50	14.44	15.6	0.0
100	QPSK	135	138	14.46	14.45	14.42		
100	QPSK	270	0	14.47	14.48	14.46	15.6	0.0
100	16QAM	1	1	14.47	14.52	14.42	15.6	0.0
100	64QAM	1	1	14.49	14.43	14.47	15.6	0.0
100	256QAM	1	1	14.42	14.52	14.44	15.6	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.46	14.48	14.42	15.6	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.47	14.50	14.38	15.6	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.41	14.45	14.45	15.6	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.49	14.50	14.41	15.6	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.41	14.42	14.48	15.6	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.44	14.46	14.36	15.6	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.43	14.49	14.40	15.6	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.45	14.53	14.47	15.6	0.0



Part270 n77 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	656000	662000				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	11.43	11.58	11.38	12.5	0.0		
100	PI/2 BPSK	1	137	11.46	11.57	11.38				
100	PI/2 BPSK	1	271	11.43	11.59	11.35				
100	PI/2 BPSK	135	0	11.46	11.60	11.37	12.5	0.0		
100	PI/2 BPSK	135	69	11.43	11.58	11.39	12.5	0.0		
100	PI/2 BPSK	135	138	11.44	11.58	11.36	12.5	0.0		
100	PI/2 BPSK	270	0	11.44	11.55	11.36				
100	QPSK	1	1	11.51	11.63	11.44				
100	QPSK	1	137	11.44	11.54	11.41	12.5	0.0		
100	QPSK	1	271	11.44	11.60	11.37				
100	QPSK	135	0	11.43	11.57	11.35				
100	QPSK	135	69	11.43	11.59	11.38	12.5	0.0		
100	QPSK	135	138	11.47	11.58	11.40	12.5	0.0		
100	QPSK	270	0	11.45	11.57	11.38				
100	16QAM	1	1	11.46	11.56	11.37				
100	64QAM	1	1	11.43	11.56	11.38	12.5	0.0		
100	256QAM	1	1	11.47	11.55	11.33	12.5	0.0		
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01	12.5	0.0		
90	QPSK	1	1	11.43	11.53	11.37	12.5	0.0		
Channel				649334	656000	662688			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02			12.5	0.0
80	QPSK	1	1	11.48	11.60	11.35	12.5	0.0		
Channel				649000	656000	663000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945			12.5	0.0
70	QPSK	1	1	11.47	11.55	11.32	12.5	0.0		
Channel				648688	656000	663334			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01			12.5	0.0
60	QPSK	1	1	11.42	11.57	11.35	12.5	0.0		
Channel				648334	656000	663688			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02			12.5	0.0
50	QPSK	1	1	11.48	11.55	11.40	12.5	0.0		
Channel				648000	656000	664000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960			12.5	0.0
40	QPSK	1	1	11.45	11.55	11.37	12.5	0.0		
Channel				647688	656000	664334			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01			12.5	0.0
30	QPSK	1	1	11.48	11.55	11.41	12.5	0.0		
Channel				647334	656000	664688			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02			12.5	0.0
20	QPSK	1	1	11.48	11.54	11.41	12.5	0.0		
Channel				647168	656000	664834			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51			12.5	0.0
15	QPSK	1	1	11.44	11.58	11.40	12.5	0.0		
Channel				647000	656000	665000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975			12.5	0.0
10	QPSK	1	1	11.44	11.55	11.38	12.5	0.0		

Part270 n77 PC2 Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	656000	662000				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	14.38	14.51	14.30	15.5	0.0		
100	PI/2 BPSK	1	137	14.38	14.46	14.28				
100	PI/2 BPSK	1	271	14.35	14.50	14.24				
100	PI/2 BPSK	135	0	14.35	14.49	14.30	15.5	0.0		
100	PI/2 BPSK	135	69	14.34	14.49	14.27	15.5	0.0		
100	PI/2 BPSK	135	138	14.34	14.48	14.26	15.5	0.0		
100	PI/2 BPSK	270	0	14.38	14.44	14.29				
100	QPSK	1	1	14.42	14.52	14.35				
100	QPSK	1	137	14.34	14.43	14.29	15.5	0.0		
100	QPSK	1	271	14.35	14.51	14.25				
100	QPSK	135	0	14.34	14.47	14.26				
100	QPSK	135	69	14.32	14.50	14.29	15.5	0.0		
100	QPSK	135	138	14.39	14.48	14.29	15.5	0.0		
100	QPSK	270	0	14.38	14.47	14.27				
100	16QAM	1	1	14.35	14.46	14.26				
100	64QAM	1	1	14.34	14.44	14.28	15.5	0.0		
100	256QAM	1	1	14.37	14.50	14.27	15.5	0.0		
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01	15.5	0.0		
90	QPSK	1	1	14.34	14.48	14.32	15.5	0.0		
Channel				649334	656000	662688			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02			15.5	0.0
80	QPSK	1	1	14.32	14.49	14.27	15.5	0.0		
Channel				649000	656000	663000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945			15.5	0.0
70	QPSK	1	1	14.32	14.49	14.30	15.5	0.0		
Channel				648688	656000	663334			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01			15.5	0.0
60	QPSK	1	1	14.33	14.44	14.28	15.5	0.0		
Channel				648334	656000	663688			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02			15.5	0.0
50	QPSK	1	1	14.35	14.45	14.32	15.5	0.0		
Channel				648000	656000	664000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960			15.5	0.0
40	QPSK	1	1	14.37	14.45	14.28	15.5	0.0		
Channel				647688	656000	664334			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01			15.5	0.0
30	QPSK	1	1	14.34	14.46	14.30	15.5	0.0		
Channel				647334	656000	664688			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02			15.5	0.0
20	QPSK	1	1	14.34	14.47	14.27	15.5	0.0		
Channel				647168	656000	664834			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51			15.5	0.0
15	QPSK	1	1	14.33	14.47	14.29	15.5	0.0		
Channel				647000	656000	665000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975			15.5	0.0
10	QPSK	1	1	14.32	14.44	14.31	15.5	0.0		



Part270 n78 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	11.50			12.5	0.0	
100	PI/2 BPSK	1	137	11.52					
100	PI/2 BPSK	1	271	11.52					
100	PI/2 BPSK	135	0	11.54			12.5	0.0	
100	PI/2 BPSK	135	69	11.53			12.5	0.0	
100	PI/2 BPSK	135	138	11.54			12.5	0.0	
100	PI/2 BPSK	270	0	11.47					
100	QPSK	1	1	11.56					
100	QPSK	1	137	11.45			12.5	0.0	
100	QPSK	1	271	11.54					
100	QPSK	135	0	11.52			12.5	0.0	
100	QPSK	135	69	11.55			12.5	0.0	
100	QPSK	135	138	11.50			12.5	0.0	
100	QPSK	270	0	11.52					
100	16QAM	1	1				12.5	0.0	
100	64QAM	1	1	11.49			12.5	0.0	
100	256QAM	1	1	11.43			12.5	0.0	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	11.41	11.53	11.23	12.5	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	11.41	11.48	11.33	12.5	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	11.30	11.51	11.30	12.5	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	11.41	11.51	11.31	12.5	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	11.42	11.49	11.33	12.5	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	11.40	11.47	11.29	12.5	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	11.30	11.51	11.29	12.5	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	11.40	11.48	11.32	12.5	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	11.38	11.48	11.31	12.5	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	11.40	11.52	11.30	12.5	0.0	

Part270 n78 PC2 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	14.44					
100	PI/2 BPSK	1	137	14.38			15.5	0.0	
100	PI/2 BPSK	1	271	14.40					
100	PI/2 BPSK	135	0	14.40			15.5	0.0	
100	PI/2 BPSK	135	69	14.41			15.5	0.0	
100	PI/2 BPSK	135	138	14.40			15.5	0.0	
100	PI/2 BPSK	270	0	14.38					
100	QPSK	1	1	14.46					
100	QPSK	1	137	14.35			15.5	0.0	
100	QPSK	1	271	14.45					
100	QPSK	135	0	14.39			15.5	0.0	
100	QPSK	135	69	14.43			15.5	0.0	
100	QPSK	135	138	14.42			15.5	0.0	
100	QPSK	270	0	14.40					
100	16QAM	1	1				15.5	0.0	
100	64QAM	1	1	14.41			15.5	0.0	
100	256QAM	1	1	14.39			15.5	0.0	
100				14.41			15.5	0.0	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	14.17	14.15	14.19	15.5	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.16	14.20	14.15	15.5	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	14.16	14.16	14.15	15.5	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	14.18	14.17	14.17	15.5	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	14.16	14.18	14.17	15.5	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	14.15	14.19	14.14	15.5	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	14.17	14.20	14.16	15.5	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	14.18	14.16	14.17	15.5	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.19	14.20	14.14	15.5	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.19	14.18	14.18	15.5	0.0	



### Part270 n77 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl/2 BPSK	1	1	15.01	15.09	15.05		
100	Pl/2 BPSK	1	137	15.02	15.11	15.06	16.3	0.0
100	Pl/2 BPSK	1	271	15.01	15.07	15.04		
100	Pl/2 BPSK	135	0	14.96	15.11	15.08	16.3	0.0
100	Pl/2 BPSK	135	69	14.98	15.07	15.02	16.3	0.0
100	Pl/2 BPSK	135	138	15.02	15.12	15.05	16.3	0.0
100	Pl/2 BPSK	270	0	14.98	15.10	15.06		
100	QPSK	1	1	15.05	15.15	15.12		
100	QPSK	1	137	14.98	15.10	15.05	16.3	0.0
100	QPSK	1	271	14.99	15.11	15.06		
100	QPSK	135	0	14.97	15.07	14.98	16.3	0.0
100	QPSK	135	69	15.00	15.12	15.04	16.3	0.0
100	QPSK	135	138	14.97	15.10	15.03		
100	QPSK	270	0	14.97	15.08	14.99	16.3	0.0
100	16QAM	1	1	14.96	15.10	15.02	16.3	0.0
100	64QAM	1	1	14.97	15.12	15.08	16.3	0.0
100	256QAM	1	1	14.98	15.11	15.07	16.3	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.98	15.08	14.99	16.3	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.00	15.09	15.01	16.3	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	15.00	15.09	14.88	16.3	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.01	15.12	14.91	16.3	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.00	15.11	15.00	16.3	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.02	15.11	14.89	16.3	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	14.98	15.09	14.99	16.3	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.01	15.12	15.01	16.3	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	15.00	15.10	14.84	16.3	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	15.01	15.12	14.91	16.3	0.0

### Part270 n77 PC2 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl/2 BPSK	1	1	17.84	17.98	18.00		
100	Pl/2 BPSK	1	137	17.84	18.00	18.04	19.3	0.0
100	Pl/2 BPSK	1	271	17.92	17.96	17.95		
100	Pl/2 BPSK	135	0	17.85	18.03	18.02	19.3	0.0
100	Pl/2 BPSK	135	69	17.88	17.98	17.97	19.3	0.0
100	Pl/2 BPSK	135	138	17.95	18.05	18.03	19.3	0.0
100	Pl/2 BPSK	270	0	17.91	18.00	18.03		
100	QPSK	1	1	17.99	18.09	18.01		
100	QPSK	1	137	17.85	18.04	18.03	19.3	0.0
100	QPSK	1	271	17.90	18.02	18.04		
100	QPSK	135	0	17.87	17.98	17.96	19.3	0.0
100	QPSK	135	69	17.91	18.03	18.01	19.3	0.0
100	QPSK	135	138	17.88	18.02	18.00		
100	QPSK	270	0	17.87	18.02	17.97	19.3	0.0
100	16QAM	1	1	17.89	17.98	18.02	19.3	0.0
100	64QAM	1	1	17.88	18.05	18.02	19.3	0.0
100	256QAM	1	1	17.89	18.04	18.00	19.3	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.88	18.02	17.97	19.3	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.98	18.01	18.01	19.3	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.88	18.01	18.00	19.3	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.88	17.97	17.97	19.3	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.85	18.00	17.98	19.3	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.98	18.00	17.97	19.3	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.87	18.00	18.01	19.3	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.90	18.02	18.02	19.3	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.88	17.96	17.97	19.3	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.89	17.97	17.96	19.3	0.0



Part270 n78 Ant 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		15.16					
100	PI/2 BPSK	1	137		15.22		16.0	0.0		
100	PI/2 BPSK	1	271		15.13					
100	PI/2 BPSK	135	0		15.18		16.0	0.0		
100	PI/2 BPSK	135	69		15.13		16.0	0.0		
100	PI/2 BPSK	135	138		15.18		16.0	0.0		
100	PI/2 BPSK	270	0		15.17					
100	QPSK	1	1		15.24					
100	QPSK	1	137		15.15		16.0	0.0		
100	QPSK	1	271		15.18					
100	QPSK	135	0		15.13		16.0	0.0		
100	QPSK	135	69		15.22		16.0	0.0		
100	QPSK	135	138		15.21					
100	QPSK	270	0		15.16		16.0	0.0		
100	16QAM	1	1		15.19		16.0	0.0		
100	64QAM	1	1		15.23		16.0	0.0		
100	256QAM	1	1		15.21		16.0	0.0		
90	QPSK	1	1	649668	650000	650334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)		
Channel				15.05	15.11	15.06	16.0	0.0		
80	QPSK	1	1	649334	650000	650668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)		
Channel				15.09	15.11	15.09	16.0	0.0		
70	QPSK	1	1	649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)		
Channel				15.09	15.09	15.08	16.0	0.0		
60	QPSK	1	1	648668	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)		
Channel				15.10	15.08	15.09	16.0	0.0		
50	QPSK	1	1	648334	650000	651668	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)		
Channel				15.09	15.09	15.07	16.0	0.0		
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
Channel				15.13	15.07	15.10	16.0	0.0		
30	QPSK	1	1	647668	650000	652334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)		
Channel				15.10	15.10	15.07	16.0	0.0		
20	QPSK	1	1	647334	650000	652668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)		
Channel				15.12	15.09	15.05	16.0	0.0		
15	QPSK	1	1	647168	650000	652834	Tune-up limit	MPR		
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)		
Channel				15.13	15.07	15.04	16.0	0.0		
10	QPSK	1	1	647000	650000	653000	Tune-up limit	MPR		
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)		
Channel				15.13	15.07	15.07	16.0	0.0		

Part270 n78 PC2 Ant 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		17.90					
100	PI/2 BPSK	1	137		17.93		19.0	0.0		
100	PI/2 BPSK	1	271		17.91					
100	PI/2 BPSK	135	0		17.97		19.0	0.0		
100	PI/2 BPSK	135	69		17.92		19.0	0.0		
100	PI/2 BPSK	135	138		18.00					
100	PI/2 BPSK	270	0		17.93		19.0	0.0		
100	QPSK	1	1		18.01					
100	QPSK	1	137		17.99		19.0	0.0		
100	QPSK	1	271		17.99					
100	QPSK	135	0		17.90		19.0	0.0		
100	QPSK	135	69		17.96		19.0	0.0		
100	QPSK	135	138		17.93					
100	QPSK	270	0		17.94		19.0	0.0		
100	16QAM	1	1		17.95		19.0	0.0		
100	64QAM	1	1		17.96		19.0	0.0		
100	256QAM	1	1		17.97		19.0	0.0		
90	QPSK	1	1	649668	650000	650334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)		
Channel				17.87	17.95	17.93	19.0	0.0		
80	QPSK	1	1	649334	650000	650668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)		
Channel				17.91	17.92	17.92	19.0	0.0		
70	QPSK	1	1	649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)		
Channel				17.90	17.94	17.93	19.0	0.0		
60	QPSK	1	1	648668	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)		
Channel				17.90	17.92	17.90	19.0	0.0		
50	QPSK	1	1	648334	650000	651668	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)		
Channel				17.89	17.92	17.93	19.0	0.0		
40	QPSK	1	1	648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
Channel				17.89	17.94	17.93	19.0	0.0		
30	QPSK	1	1	647668	650000	652334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)		
Channel				17.92	17.90	17.91	19.0	0.0		
20	QPSK	1	1	647334	650000	652668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)		
Channel				17.89	17.92	17.90	19.0	0.0		
15	QPSK	1	1	647168	650000	652834	Tune-up limit	MPR		
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)		
Channel				17.91	17.90	17.93	19.0	0.0		
10	QPSK	1	1	647000	650000	653000	Tune-up limit	MPR		
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)		
Channel				17.87	17.92	17.92	19.0	0.0		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.25	17.28	17.20		
100	PI/2 BPSK	1	137	17.25	17.30	17.20	18.3	0.0
100	PI/2 BPSK	1	271	17.23	17.29	17.18		
100	PI/2 BPSK	135	0	17.26	17.26	17.20	18.3	0.0
100	PI/2 BPSK	135	69	17.26	17.29	17.18	18.3	0.0
100	PI/2 BPSK	135	138	17.24	17.26	17.18		
100	PI/2 BPSK	270	0	17.22	17.26	17.17	18.3	0.0
100	QPSK	1	1	17.29	17.33	17.25		
100	QPSK	1	137	17.26	17.26	17.19	18.3	0.0
100	QPSK	1	271	17.25	17.25	17.17		
100	QPSK	135	0	17.21	17.26	17.17	18.3	0.0
100	QPSK	135	69	17.22	17.27	17.22	18.3	0.0
100	QPSK	135	138	17.25	17.21	17.19	18.3	0.0
100	QPSK	270	0	17.20	17.21	17.19	18.3	0.0
100	16QAM	1	1	17.24	17.30	17.19	18.3	0.0
100	64QAM	1	1	17.24	17.25	17.21	18.3	0.0
100	256QAM	1	1	15.41	15.49	15.42	18.5	1.3
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	18.3	0.0
90	QPSK	1	1	17.24	17.25	17.20	18.3	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	18.3	0.0
80	QPSK	1	1	17.23	17.23	17.19	18.3	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	18.3	0.0
70	QPSK	1	1	17.25	17.30	17.18	18.3	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	18.3	0.0
60	QPSK	1	1	17.24	17.23	17.21	18.3	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	18.3	0.0
50	QPSK	1	1	17.23	17.23	17.18	18.3	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	18.3	0.0
40	QPSK	1	1	17.23	17.27	17.17	18.3	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	18.3	0.0
30	QPSK	1	1	17.24	17.25	17.16	18.3	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	18.3	0.0
20	QPSK	1	1	17.23	17.24	17.19	18.3	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	18.3	0.0
15	QPSK	1	1	17.23	17.26	17.16	18.3	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	18.3	0.0
10	QPSK	1	1	17.24	17.24	17.16	18.3	0.0

Part270 n77 PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.11	20.19	20.12		
100	PI/2 BPSK	1	137	20.10	20.18	20.08	21.3	0.0
100	PI/2 BPSK	1	271	20.14	20.20	20.08		
100	PI/2 BPSK	135	0	20.10	20.15	20.14	21.3	0.0
100	PI/2 BPSK	135	69	20.10	20.16	20.13	21.3	0.0
100	PI/2 BPSK	135	138	20.11	20.19	20.10		
100	PI/2 BPSK	270	0	20.14	20.15	20.10	21.3	0.0
100	QPSK	1	1	20.18	20.23	20.17		
100	QPSK	1	137	20.14	20.19	20.13	21.3	0.0
100	QPSK	1	271	20.12	20.18	20.13		
100	QPSK	135	0	20.11	20.14	20.09	21.3	0.0
100	QPSK	135	69	20.12	20.19	20.08	21.3	0.0
100	QPSK	135	138	20.11	20.16	20.13	21.3	0.0
100	QPSK	270	0	20.14	20.17	20.13	21.3	0.0
100	16QAM	1	1	20.09	20.15	20.09	21.3	0.0
100	64QAM	1	1	20.09	20.15	20.13	21.3	0.0
100	256QAM	1	1	18.34	18.39	18.29	19.5	1.8
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	21.3	0.0
90	QPSK	1	1	20.10	20.15	20.10	21.3	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	21.3	0.0
80	QPSK	1	1	20.10	20.17	20.11	21.3	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	21.3	0.0
70	QPSK	1	1	20.15	20.14	20.13	21.3	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	21.3	0.0
60	QPSK	1	1	20.14	20.20	20.08	21.3	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	21.3	0.0
50	QPSK	1	1	20.10	20.14	20.08	21.3	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	21.3	0.0
40	QPSK	1	1	20.13	20.19	20.09	21.3	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	21.3	0.0
30	QPSK	1	1	20.11	20.16	20.08	21.3	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	21.3	0.0
20	QPSK	1	1	20.11	20.17	20.14	21.3	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	21.3	0.0
15	QPSK	1	1	20.12	20.15	20.11	21.3	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	21.3	0.0
10	QPSK	1	1	20.15	20.20	20.12	21.3	0.0



Part270 n78 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	17.04					
100	PI/2 BPSK	1	137	17.03			18.0	0.0	
100	PI/2 BPSK	1	271	17.03					
100	PI/2 BPSK	135	0	17.02			18.0	0.0	
100	PI/2 BPSK	135	69	17.04			18.0	0.0	
100	PI/2 BPSK	135	138	17.02					
100	PI/2 BPSK	270	0	17.03			18.0	0.0	
100	QPSK	1	1	17.10					
100	QPSK	1	137	17.01			18.0	0.0	
100	QPSK	1	271	17.02					
100	QPSK	135	0	17.00			18.0	0.0	
100	QPSK	135	69	17.01			18.0	0.0	
100	QPSK	135	138	16.95					
100	QPSK	270	0	16.96			18.0	0.0	
100	16QAM	1	1	17.05			18.0	0.0	
100	64QAM	1	1	16.98			18.0	0.0	
100	256QAM	1	1	17.01			18.0	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	18.0	0.0	
90	QPSK	1	1	16.95	17.01	16.93			
Channel				648334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	18.0	0.0	
80	QPSK	1	1	16.96	17.02	17.00			
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	18.0	0.0	
70	QPSK	1	1	16.94	17.03	17.02			
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	18.0	0.0	
60	QPSK	1	1	16.95	17.03	17.02			
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	18.0	0.0	
50	QPSK	1	1	16.95	16.99	16.93			
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	18.0	0.0	
40	QPSK	1	1	16.95	16.99	17.01			
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	18.0	0.0	
30	QPSK	1	1	16.93	17.00	16.93			
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	18.0	0.0	
20	QPSK	1	1	16.94	17.03	16.93			
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.62	3750	3792.51	18.0	0.0	
15	QPSK	1	1	16.94	16.99	17.00			
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	18.0	0.0	
10	QPSK	1	1	16.97	16.99	17.03			

Part270 n78 PC2 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	19.97					
100	PI/2 BPSK	1	137	19.93			21.0	0.0	
100	PI/2 BPSK	1	271	19.95					
100	PI/2 BPSK	135	0	19.96			21.0	0.0	
100	PI/2 BPSK	135	69	19.93			21.0	0.0	
100	PI/2 BPSK	135	138	19.91					
100	PI/2 BPSK	270	0	19.95			21.0	0.0	
100	QPSK	1	1	20.00					
100	QPSK	1	137	19.90			21.0	0.0	
100	QPSK	1	271	19.94					
100	QPSK	135	0	19.88			21.0	0.0	
100	QPSK	135	69	19.93			21.0	0.0	
100	QPSK	135	138	19.85					
100	QPSK	270	0	19.86			21.0	0.0	
100	16QAM	1	1	19.97			21.0	0.0	
100	64QAM	1	1	19.89			21.0	0.0	
100	256QAM	1	1	19.93			21.0	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	21.0	0.0	
90	QPSK	1	1	19.88	19.92	19.90			
Channel				648334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	21.0	0.0	
80	QPSK	1	1	19.87	19.92	19.90			
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	21.0	0.0	
70	QPSK	1	1	19.84	19.92	19.89			
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	21.0	0.0	
60	QPSK	1	1	19.84	19.91	19.86			
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	21.0	0.0	
50	QPSK	1	1	19.88	19.91	19.85			
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	21.0	0.0	
40	QPSK	1	1	19.87	19.89	19.89			
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	21.0	0.0	
30	QPSK	1	1	19.89	19.95	19.86			
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	21.0	0.0	
20	QPSK	1	1	19.88	19.91	19.85			
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	21.0	0.0	
15	QPSK	1	1	19.86	19.94	19.87			
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	21.0	0.0	
10	QPSK	1	1	19.87	19.92	19.86			



Part270 n77 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.03	18.17	17.99	19.2	0.0
100	PI/2 BPSK	1	137	18.02	18.15	17.98		
100	PI/2 BPSK	1	271	18.02	18.13	17.98		
100	PI/2 BPSK	135	0	17.98	18.17	17.98		
100	PI/2 BPSK	135	69	17.99	18.13	17.98		
100	PI/2 BPSK	135	138	18.03	18.12	17.99		
100	PI/2 BPSK	270	0	17.97	18.13	17.99		
100	QPSK	1	1	18.06	18.21	18.05		
100	QPSK	1	137	18.02	18.14	18.00		
100	QPSK	1	271	17.98	18.16	17.99		
100	QPSK	135	0	18.02	18.14	17.98		
100	QPSK	135	69	18.02	18.17	17.99		
100	QPSK	135	138	18.00	18.13	17.97		
100	QPSK	270	0	17.99	18.14	18.00		
100	16QAM	1	1	17.99	18.16	18.00		
100	64QAM	1	1	18.03	18.17	18.01		
100	256QAM	1	1	17.14	17.10	17.03		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	19.2	0.0
90	QPSK	1	1	18.02	18.13	17.99	19.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	19.2	0.0
80	QPSK	1	1	17.88	18.12	18.02	19.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	19.2	0.0
70	QPSK	1	1	17.88	18.15	17.97	19.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	19.2	0.0
60	QPSK	1	1	18.02	18.12	18.00	19.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	19.2	0.0
50	QPSK	1	1	18.01	18.17	18.00	19.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	19.2	0.0
40	QPSK	1	1	18.03	18.14	18.02	19.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	19.2	0.0
30	QPSK	1	1	18.03	18.16	17.99	19.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	19.2	0.0
20	QPSK	1	1	18.01	18.16	18.01	19.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51	19.2	0.0
15	QPSK	1	1	18.02	18.14	18.00	19.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	19.2	0.0
10	QPSK	1	1	17.99	18.15	18.01	19.2	0.0

Part270 n77 PC2 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.87	21.08	20.90	22.2	0.0
100	PI/2 BPSK	1	137	20.94	21.08	20.91		
100	PI/2 BPSK	1	271	20.94	21.03	20.89		
100	PI/2 BPSK	135	0	20.88	21.10	20.90		
100	PI/2 BPSK	135	69	20.92	21.01	20.88		
100	PI/2 BPSK	135	138	20.94	21.04	20.90		
100	PI/2 BPSK	270	0	20.87	21.01	20.91		
100	QPSK	1	1	21.00	21.12	20.97		
100	QPSK	1	137	20.94	21.04	20.92		
100	QPSK	1	271	20.90	21.04	20.88		
100	QPSK	135	0	20.90	21.06	20.87		
100	QPSK	135	69	20.91	21.09	20.88		
100	QPSK	135	138	20.94	21.04	20.88		
100	QPSK	270	0	20.92	21.07	20.90		
100	16QAM	1	1	20.92	21.07	20.89		
100	64QAM	1	1	20.91	21.08	20.91		
100	256QAM	1	1	20.03	20.28	20.13		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	22.2	0.0
90	QPSK	1	1	20.88	21.05	20.92	22.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	22.2	0.0
80	QPSK	1	1	20.93	21.05	20.93	22.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	22.2	0.0
70	QPSK	1	1	20.88	21.02	20.90	22.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	22.2	0.0
60	QPSK	1	1	20.89	21.08	20.90	22.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	22.2	0.0
50	QPSK	1	1	20.93	21.04	20.89	22.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	22.2	0.0
40	QPSK	1	1	20.90	21.06	20.90	22.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	22.2	0.0
30	QPSK	1	1	20.89	21.04	20.91	22.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	22.2	0.0
20	QPSK	1	1	20.91	21.05	20.90	22.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	22.2	0.0
15	QPSK	1	1	20.87	21.06	20.94	22.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	22.2	0.0
10	QPSK	1	1	20.93	21.05	20.93	22.2	0.0



Part270 n78 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		18.88					
100	PI/2 BPSK	1	137		18.83		19.8	0.0		
100	PI/2 BPSK	1	271		18.82					
100	PI/2 BPSK	135	0		18.88		19.8	0.0		
100	PI/2 BPSK	135	69		18.81		19.8	0.0		
100	PI/2 BPSK	135	138		18.80					
100	PI/2 BPSK	270	0		18.81		19.8	0.0		
100	QPSK	1	1		18.93					
100	QPSK	1	137		18.85		19.8	0.0		
100	QPSK	1	271		18.89					
100	QPSK	135	0		18.83		19.8	0.0		
100	QPSK	135	69		18.87		19.8	0.0		
100	QPSK	135	138		18.81					
100	QPSK	270	0		18.86		19.8	0.0		
100	16QAM	1	1		18.87		19.8	0.0		
100	64QAM	1	1		18.88		19.8	0.0		
100	256QAM	1	1		18.83		19.5	0.3		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		18.35	18.44	18.35	19.2	0.0	
Channel				649334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		18.35	18.44	18.32	19.2	0.0	
Channel				649000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		18.35	18.46	18.32	19.2	0.0	
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		18.37	18.44	18.31	19.2	0.0	
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		18.35	18.44	18.35	19.2	0.0	
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		18.34	18.50	18.33	19.8	0.0	
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		18.35	18.46	18.35	19.8	0.0	
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		18.33	18.45	18.32	19.8	0.0	
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		18.34	18.46	18.31	19.8	0.0	
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		18.35	18.47	18.34	19.8	0.0	

Part270 n78 PC2 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		21.69					
100	PI/2 BPSK	1	137		21.51		22.8	0.0		
100	PI/2 BPSK	1	271		21.62					
100	PI/2 BPSK	135	0		21.70		22.8	0.0		
100	PI/2 BPSK	135	69		21.64		22.8	0.0		
100	PI/2 BPSK	135	138		21.63					
100	PI/2 BPSK	270	0		21.62		22.8	0.0		
100	QPSK	1	1		21.77					
100	QPSK	1	137		21.63		22.8	0.0		
100	QPSK	1	271		21.68					
100	QPSK	135	0		21.63		22.8	0.0		
100	QPSK	135	69		21.69		22.8	0.0		
100	QPSK	135	138		21.61					
100	QPSK	270	0		21.67		22.8	0.0		
100	16QAM	1	1		21.69		22.8	0.0		
100	64QAM	1	1		21.70		22.8	0.0		
100	256QAM	1	1		21.42		22.5	0.3		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		21.54	21.60	21.50	22.8	0.0	
Channel				649334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		21.48	21.55	21.48	22.8	0.0	
Channel				649000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		21.47	21.59	21.49	22.8	0.0	
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		21.42	21.57	21.48	22.8	0.0	
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		21.53	21.55	21.41	22.8	0.0	
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		21.44	21.52	21.45	22.8	0.0	
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		21.53	21.52	21.44	22.8	0.0	
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		21.44	21.53	21.44	22.8	0.0	
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		21.52	21.55	21.43	22.8	0.0	
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		21.50	21.51	21.44	22.8	0.0	



### Reduced Power Mode for DSI 6

n5 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				16500	16700	16700	834	836.5	839
20	PI2 BPSK	1	1	22.62	22.66	22.54	24.0	0.0	
20	PI2 BPSK	1	53	22.45	22.58	22.51			
20	PI2 BPSK	1	104	22.29	22.36	22.28			
20	PI2 BPSK	50	0	22.01	22.16	22.04	23.5	0.5	
20	PI2 BPSK	50	28	22.53	22.64	22.55	24.0	0.0	
20	PI2 BPSK	50	56	22.02	22.11	22.01	23.5	0.5	
20	PI2 BPSK	100	0	22.10	22.19	22.05			
20	QPSK	1	1	22.63	22.72	22.71			
20	QPSK	1	53	22.50	22.63	22.55	24.0	0.0	
20	QPSK	1	104	22.37	22.47	22.34	23.0	1.0	
20	QPSK	50	0	21.52	21.58	21.45			
20	QPSK	50	28	22.55	22.67	22.62			
20	QPSK	50	56	21.49	21.54	21.46	23.0	1.0	
20	QPSK	100	0	21.64	21.69	21.60	23.0	1.0	
20	16QAM	1	1	21.37	21.51	21.44			
20	64QAM	1	1	20.04	20.08	19.96			
20	256QAM	1	1	17.90	18.02	17.92	19.5	4.5	
Channel									
Frequency (MHz)				16530	16730	16830			
15	QPSK	1	1	22.52	22.60	22.59	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	168800			
10	QPSK	1	1	22.50	22.65	22.64	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	168300			
5	QPSK	1	1	22.52	22.57	22.63	24.0	0.0	

n7 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50000	50700	51000	2520	2535	2550
40	PI2 BPSK	1	1	20.31	20.44	20.40	21.7	0.0	
40	PI2 BPSK	1	108	20.26	20.47	20.29			
40	PI2 BPSK	1	214	20.28	20.48	20.32			
40	PI2 BPSK	108	0	20.28	20.45	20.39	21.7	0.0	
40	PI2 BPSK	108	54	20.33	20.46	20.35	21.7	0.0	
40	PI2 BPSK	108	108	20.31	20.41	20.34	21.7	0.0	
40	PI2 BPSK	216	0	20.34	20.49	20.41			
40	QPSK	1	1	20.38	20.55	20.44			
40	QPSK	1	108	20.29	20.48	20.36	21.7	0.0	
40	QPSK	1	214	20.30	20.47	20.31	21.7	0.0	
40	QPSK	108	0	20.27	20.41	20.32			
40	QPSK	108	54	20.25	20.52	20.41			
40	QPSK	108	108	20.24	20.42	20.38	21.7	0.0	
40	QPSK	216	0	20.34	20.47	20.36	21.7	0.0	
40	16QAM	1	1	20.26	20.40	20.39			
40	64QAM	1	1	20.30	20.47	20.32			
40	256QAM	1	1	18.66	18.83	18.77	19.5	2.2	
Channel									
Frequency (MHz)				50300	50700	51100			
30	QPSK	1	1	20.34	20.43	20.30	21.7	0.0	
Channel									
Frequency (MHz)				502500	507000	511500			
25	QPSK	1	1	20.25	20.41	20.30	21.7	0.0	
Channel									
Frequency (MHz)				502000	507000	512000			
20	PI2 BPSK	1	1	20.25	20.49	20.38	21.7	0.0	
Channel									
Frequency (MHz)				501500	507000	512500			
15	QPSK	1	1	20.30	20.45	20.34	21.7	0.0	
Channel									
Frequency (MHz)				501000	507000	513000			
10	QPSK	1	1	20.27	20.48	20.35	21.7	0.0	
Channel									
Frequency (MHz)				500500	507000	513500			
5	QPSK	1	1	20.24	20.46	20.40	21.7	0.0	

n66 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				34500	34900	35300	1730	1745	1760
40	PI2 BPSK	1	1	18.78	18.95	18.87	20.2	0.0	
40	PI2 BPSK	1	108	18.83	18.95	18.86			
40	PI2 BPSK	1	214	18.75	19.02	18.95			
40	PI2 BPSK	108	0	18.72	19.01	18.93	20.2	0.0	
40	PI2 BPSK	108	54	18.75	19.06	18.90	20.2	0.0	
40	PI2 BPSK	108	108	18.83	18.99	18.86	20.2	0.0	
40	PI2 BPSK	216	0	18.79	18.95	18.84			
40	QPSK	1	1	18.87	19.09	18.99			
40	QPSK	1	108	18.73	19.02	18.95	20.2	0.0	
40	QPSK	1	214	18.78	18.96	18.84	20.2	0.0	
40	QPSK	108	0	18.72	18.98	18.94			
40	QPSK	108	54	18.80	19.06	18.90			
40	QPSK	108	108	18.77	19.03	18.87	20.2	0.0	
40	QPSK	216	0	18.74	19.01	18.89	20.2	0.0	
40	16QAM	1	1	18.81	18.99	18.88			
40	64QAM	1	1	18.81	18.96	18.87			
40	256QAM	1	1	17.61	17.65	17.59	19.5	0.7	
Channel									
Frequency (MHz)				34500	34900	35300			
30	QPSK	1	1	18.75	18.98	18.90	20.2	0.0	
Channel									
Frequency (MHz)				34500	34900	35300			
20	QPSK	1	1	18.75	19.01	18.87	20.2	0.0	
Channel									
Frequency (MHz)				34500	34900	35300			
15	QPSK	1	1	18.75	19.05	18.86	20.2	0.0	
Channel									
Frequency (MHz)				34500	34900	35300			
10	QPSK	1	1	18.81	19.03	18.95	20.2	0.0	
Channel									
Frequency (MHz)				342500	348000	353500			
5	QPSK	1	1	18.73	18.95	18.88	20.2	0.0	



n38 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.13	22.04	21.92		
40	PI/2 BPSK	1	53	22.08	22.12	21.94	23.2	0.0
40	PI/2 BPSK	1	104	22.08	22.05	21.99		
40	PI/2 BPSK	50	0	22.11	22.11	21.95	23.2	0.0
40	PI/2 BPSK	50	28	22.14	22.11	21.95	23.2	0.0
40	PI/2 BPSK	50	56	22.10	22.10	21.88		
40	PI/2 BPSK	100	0	22.14	22.07	21.89	23.2	0.0
40	QPSK	1	1	22.09	22.16	22.09		
40	QPSK	1	53	22.10	22.03	22.01	23.2	0.0
40	QPSK	1	104	22.17	22.01	22.01		
40	QPSK	50	0	21.99	22.03	21.87	23.0	0.2
40	QPSK	50	28	22.12	22.13	22.12	23.2	0.0
40	QPSK	50	56	21.87	22.06	21.99	23.0	0.2
40	QPSK	100	0	22.00	22.10	21.93		
40	16QAM	1	1	21.88	21.96	21.97	23.0	0.2
40	64QAM	1	1	20.46	20.54	20.47	21.5	1.7
40	256QAM	1	1	18.14	18.29	18.16	19.5	3.7
Channel				517092	519000	520998	Tune-up limit	MPR
Frequency (MHz)				2585.01	2595	2604.99	(dBm)	(dB)
30	QPSK	1	1	22.01	22.05	21.83	23.2	0.0
Channel				516000	519000	522000	Tune-up limit	MPR
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)
20	QPSK	1	1	22.04	22.06	21.91	23.2	0.0
Channel				515592	519000	522498	Tune-up limit	MPR
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)
15	QPSK	1	1	22.03	21.99	21.87	23.2	0.0
Channel				515004	519000	522996	Tune-up limit	MPR
Frequency (MHz)				2575.02	2595	2614.98	(dBm)	(dB)
10	QPSK	1	1	22.04	22.00	21.88	23.2	0.0

n41 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.19	22.19	21.99		
100	PI/2 BPSK	1	137	22.14	22.20	22.06	23.2	0.0
100	PI/2 BPSK	1	271	22.23	22.15	22.08		
100	PI/2 BPSK	135	0	22.14	22.15	22.05	23.2	0.0
100	PI/2 BPSK	135	69	22.18	22.19	22.03	23.2	0.0
100	PI/2 BPSK	135	138	22.16	22.16	22.01		
100	PI/2 BPSK	270	0	22.22	22.15	22.01	23.2	0.0
100	QPSK	1	1	22.23	22.27	22.19		
100	QPSK	1	137	22.16	22.16	22.05	23.2	0.0
100	QPSK	1	271	22.22	22.13	22.09		
100	QPSK	135	0	21.94	21.95	21.87	23.0	0.2
100	QPSK	135	69	22.20	22.22	22.17	23.2	0.0
100	QPSK	135	138	21.98	21.97	21.85	23.0	0.2
100	QPSK	270	0	21.91	21.98	21.93		
100	16QAM	1	1	22.04	21.99	21.92	23.0	0.2
100	64QAM	1	1	20.47	20.44	20.34	21.5	1.7
100	256QAM	1	1	18.78	18.90	18.72	19.5	3.7
Channel				508200	518598	528998	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	22.14	22.13	22.04	23.2	0.0
Channel				507204	518598	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	22.21	22.23	22.08	23.2	0.0
Channel				506202	518598	531000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	22.18	22.16	22.05	23.2	0.0
Channel				505200	518598	531996	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	22.23	22.12	22.04	23.2	0.0
Channel				504204	518598	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	22.17	22.12	22.00	23.2	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	22.19	22.15	22.09	23.2	0.0
Channel				502200	518598	534996	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	22.18	22.20	22.02	23.2	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	22.22	22.15	22.05	23.2	0.0



n2 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Middle Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2-BPSK	1	1	20.51	20.58	20.58		
30	PI2-BPSK	1	53	20.58	20.59	20.59	22.3	0.0
30	PI2-BPSK	1	104	20.59	20.59	20.59		
30	PI2-BPSK	50	0	20.59	20.59	20.58	22.3	0.0
30	PI2-BPSK	50	56	20.58	20.58	21.61	22.3	0.0
30	PI2-BPSK	100	0	20.58	20.52	20.58		
30	QPSK	1	53	20.59	20.87	20.58	22.3	0.0
30	QPSK	1	104	20.51	20.59	20.58		
30	QPSK	50	0	20.59	20.58	20.58	22.3	0.0
30	QPSK	50	56	20.53	20.58	20.58	22.3	0.0
30	QPSK	100	0	20.58	20.53	20.58		
30	HQAM	1	1	20.59	20.88	21.00	22.3	0.0
30	HQAM	1	1	19.79	19.84	19.71	21.5	0.8
30	HQAM	1	1	18.57	18.71	18.64	18.5	2.8
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.58	20.52	20.51	22.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.50	20.38	20.36	22.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.82	20.88	20.87	22.3	0.0

n5 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Middle Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2-BPSK	0	1	22.50	22.56	22.56		
30	PI2-BPSK	1	53	22.50	22.53	22.52	24.0	0.0
30	PI2-BPSK	1	104	22.75	22.82	22.69		
30	PI2-BPSK	50	0	22.45	22.52	22.40	23.5	0.0
30	PI2-BPSK	50	56	22.68	22.61	22.69	23.5	0.0
30	PI2-BPSK	100	0	22.42	22.47	22.43	23.5	0.0
30	PI2-BPSK	100	0	22.40	22.51	22.45		
30	QPSK	1	53	22.51	22.58	22.51	24.0	0.0
30	QPSK	1	104	22.77	22.80	22.84		
30	QPSK	50	0	21.82	21.95	21.83	23.0	1.0
30	QPSK	50	56	21.88	21.80	21.88	23.0	1.0
30	QPSK	100	0	21.85	21.82	21.81	23.0	1.0
30	QPSK	100	0	21.82	22.00	21.81		
30	HQAM	1	1	21.63	21.89	21.80	23.0	1.0
30	HQAM	1	1	20.53	20.58	20.50	21.5	2.5
30	HQAM	1	1	18.24	18.28	18.22	18.5	4.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.50	22.85	22.84	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.85	22.95	22.72	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.83	24.83	24.83		
30	QPSK	1	1	22.87	22.84	22.73	24.0	0.0

n7 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Middle Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2-BPSK	1	1	20.34	20.41	20.38		
40	PI2-BPSK	1	104	20.24	20.38	20.29	21.8	0.0
40	PI2-BPSK	1	214	20.31	20.29	20.31		
40	PI2-BPSK	100	0	20.32	20.44	20.34	21.8	0.0
40	PI2-BPSK	100	56	20.30	20.27	20.27	21.8	0.0
40	PI2-BPSK	100	108	20.30	20.42	20.30	21.8	0.0
40	PI2-BPSK	210	0	20.32	20.47	20.30		
40	QPSK	1	1	20.38	20.47	20.29	21.8	0.0
40	QPSK	1	104	20.30	20.33	20.28	21.8	0.0
40	QPSK	1	214	20.34	20.32	20.31		
40	QPSK	100	0	20.34	20.40	20.38	21.8	0.0
40	QPSK	100	56	20.34	20.46	20.36	21.8	0.0
40	QPSK	100	108	20.33	20.34	20.29	21.8	0.0
40	QPSK	210	0	20.35	20.38	20.28		
40	HQAM	1	1	20.35	20.28	20.29	21.8	0.0
40	HQAM	1	1	20.27	20.34	20.25	21.5	0.0
40	HQAM	1	1	19.80	19.93	19.93	19.5	2.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.33	20.43	20.37	21.8	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.30	20.30	20.30	21.8	0.0
Channel								
Frequency (MHz)								
20	PI2-BPSK	1	1	20.28	20.42	20.33	21.8	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.32	20.29	20.30	21.8	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.28	20.30	20.28	21.8	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	20.29	20.41	20.27	21.8	0.0

n66 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Middle Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2-BPSK	1	1	20.82	20.50	20.85		
40	PI2-BPSK	1	104	20.81	20.50	20.93	22.5	0.0
40	PI2-BPSK	1	214	20.82	21.01	20.92		
40	PI2-BPSK	100	0	20.84	20.50	20.92	22.5	0.0
40	PI2-BPSK	100	56	20.87	20.50	20.91	22.5	0.0
40	PI2-BPSK	100	108	20.82	20.50	20.84	22.5	0.0
40	PI2-BPSK	210	0	20.88	21.01	20.90		
40	QPSK	1	1	20.85	20.50	20.90	22.5	0.0
40	QPSK	1	104	20.80	20.50	20.98	22.5	0.0
40	QPSK	1	214	20.83	20.50	20.87		
40	QPSK	100	0	20.88	20.51	20.88	22.5	0.0
40	QPSK	100	56	20.88	20.51	20.87	22.5	0.0
40	QPSK	100	108	20.88	20.51	20.90	22.5	0.0
40	QPSK	210	0	20.83	20.60	20.88		
40	HQAM	1	1	20.82	20.87	20.96	22.5	0.0
40	HQAM	1	1	20.25	20.20	20.27	21.5	1.0
40	HQAM	1	1	18.51	18.11	18.46	18.0	3.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.80	21.00	20.93	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.87	20.50	20.93	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.82	20.40	20.85	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.81	20.50	20.91	22.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	20.87	20.50	20.93	22.5	0.0



n38 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	19.37	19.37	19.38		
40	PI/2 BPSK	1	53	19.33	19.39	19.31	20.9	0.0
40	PI/2 BPSK	1	104	19.36	19.35	19.28		
40	PI/2 BPSK	50	0	19.40	19.38	19.38	20.9	0.0
40	PI/2 BPSK	50	28	19.34	19.48	19.22	20.9	0.0
40	PI/2 BPSK	50	56	19.36	19.36	19.39		
40	PI/2 BPSK	100	0	19.45	19.51	19.30	20.9	0.0
40	QPSK	1	1	19.44	19.55	19.39		
40	QPSK	1	53	19.29	19.53	19.33	20.9	0.0
40	QPSK	1	104	19.38	19.41	19.32		
40	QPSK	50	0	19.43	19.37	19.34	20.9	0.0
40	QPSK	50	28	19.26	19.47	19.31	20.9	0.0
40	QPSK	50	56	19.38	19.44	19.27		
40	QPSK	100	0	19.32	19.41	19.28	20.9	0.0
40	16QAM	1	1	19.32	19.49	19.35	20.9	0.0
40	64QAM	1	1	19.30	19.48	19.35	20.9	0.0
40	256QAM	1	1	17.86	18.02	17.93	19.5	1.4
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	20.0	0.0
30	QPSK	1	1	19.37	19.49	19.30		
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	20.0	0.0
20	QPSK	1	1	19.37	19.45	19.29		
Channel				515592	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	20.0	0.0
15	QPSK	1	1	19.35	19.43	19.24		
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	20.9	0.0
10	QPSK	1	1	19.33	19.49	19.30		

n41 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.41	19.45	19.41		
100	PI/2 BPSK	1	137	19.44	19.49	19.36	20.9	0.0
100	PI/2 BPSK	1	271	19.51	19.44	19.42		
100	PI/2 BPSK	135	0	19.46	19.47	19.44	20.9	0.0
100	PI/2 BPSK	135	69	19.49	19.52	19.36	20.9	0.0
100	PI/2 BPSK	135	138	19.41	19.48	19.44		
100	PI/2 BPSK	270	0	19.50	19.55	19.42	20.9	0.0
100	QPSK	1	1	19.54	19.59	19.47		
100	QPSK	1	137	19.40	19.56	19.44	20.9	0.0
100	QPSK	1	271	19.50	19.44	19.42		
100	QPSK	135	0	19.48	19.50	19.41	20.9	0.0
100	QPSK	135	69	19.39	19.54	19.40	20.9	0.0
100	QPSK	135	138	19.49	19.48	19.38		
100	QPSK	270	0	19.46	19.52	19.35	20.9	0.0
100	16QAM	1	1	19.41	19.53	19.40	20.9	0.0
100	64QAM	1	1	19.50	19.55	19.40	20.9	0.0
100	256QAM	1	1	17.02	17.09	17.57	19.5	1.4
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	20.0	0.0
90	QPSK	1	1	19.42	19.51	19.43		
Channel				507204	518598	529996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	20.0	0.0
80	QPSK	1	1	19.45	19.50	19.41		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	20.0	0.0
70	QPSK	1	1	19.45	19.47	19.43		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	20.0	0.0
60	QPSK	1	1	19.44	19.48	19.43		
Channel				504204	518598	532996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	20.0	0.0
50	QPSK	1	1	19.43	19.49	19.40		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	20.0	0.0
40	QPSK	1	1	19.47	19.51	19.38		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	20.0	0.0
30	QPSK	1	1	19.48	19.50	19.39		
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	20.9	0.0
20	QPSK	1	1	19.41	19.54	19.36		



## Part270 n77 Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)								
100	PI/2 BPSK	1	1	15.97	16.03	15.92		
100	PI/2 BPSK	1	137	15.95	15.99	15.94	17.2	0.0
100	PI/2 BPSK	1	271	15.93	16.03	15.96		
100	PI/2 BPSK	135	0	15.96	16.01	15.92	17.2	0.0
100	PI/2 BPSK	135	69	15.96	16.03	15.97	17.2	0.0
100	PI/2 BPSK	135	138	15.98	16.05	15.95		
100	PI/2 BPSK	270	0	15.94	16.05	15.95	17.2	0.0
100	QPSK	1	1	16.01	16.08	16.00		
100	QPSK	1	137	15.97	16.02	15.95	17.2	0.0
100	QPSK	1	271	15.93	16.04	15.97		
100	QPSK	135	0	15.95	16.02	15.91	17.2	0.0
100	QPSK	135	69	15.97	16.04	15.97	17.2	0.0
100	QPSK	135	138	15.95	15.99	15.94	17.2	0.0
100	QPSK	270	0	15.95	15.99	15.92		
100	16QAM	1	1	15.95	16.01	15.94	17.2	0.0
100	64QAM	1	1	15.95	16.04	15.96	17.2	0.0
100	256QAM	1	1	15.96	15.99	15.93	17.2	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.95	16.05	15.95	17.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.95	16.04	15.95	17.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	15.97	16.04	15.94	17.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.97	16.01	15.92	17.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.97	16.03	15.94	17.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.97	16.00	15.97	17.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.98	16.04	15.95	17.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.96	16.03	15.91	17.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51		
15	QPSK	1	1	15.95	15.99	15.96	17.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	15.93	16.03	15.92	17.2	0.0

## Part270 n77 PC2 Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)								
100	PI/2 BPSK	1	1	18.90	18.93	18.83		
100	PI/2 BPSK	1	137	18.84	18.86	18.83	20.2	0.0
100	PI/2 BPSK	1	271	18.81	18.90	18.88		
100	PI/2 BPSK	135	0	18.84	18.92	18.80	20.2	0.0
100	PI/2 BPSK	135	69	18.84	18.91	18.86	20.2	0.0
100	PI/2 BPSK	135	138	18.91	18.95	18.84		
100	PI/2 BPSK	270	0	18.82	18.90	18.84	20.2	0.0
100	QPSK	1	1	18.89	18.97	18.90		
100	QPSK	1	137	18.85	18.92	18.83	20.2	0.0
100	QPSK	1	271	18.82	18.93	18.88		
100	QPSK	135	0	18.88	18.94	18.80	20.2	0.0
100	QPSK	135	69	18.88	18.96	18.86	20.2	0.0
100	QPSK	135	138	18.82	18.91	18.84	20.2	0.0
100	QPSK	270	0	18.85	18.90	18.80		
100	16QAM	1	1	18.85	18.91	18.83	20.2	0.0
100	64QAM	1	1	18.85	18.94	18.83	20.2	0.0
100	256QAM	1	1	18.89	18.88	18.95	20.2	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.83	18.88	18.95	20.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.87	18.88	18.79	20.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.87	18.88	18.80	20.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.85	18.81	18.81	20.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.87	18.89	18.83	20.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.85	18.81	18.82	20.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.84	18.88	18.85	20.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.87	18.88	18.80	20.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	18.88	18.80	18.82	20.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	18.85	18.88	18.80	20.2	0.0



Part270 n78 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	16.00			17.2	0.0
100	PI/2 BPSK	1	137	15.93				
100	PI/2 BPSK	1	271	15.95				
100	PI/2 BPSK	135	0	15.98			17.2	0.0
100	PI/2 BPSK	135	69	15.98			17.2	0.0
100	PI/2 BPSK	135	138	16.01				
100	PI/2 BPSK	270	0	15.99			17.2	0.0
100	QPSK	1	1	16.02				
100	QPSK	1	137	15.94			17.2	0.0
100	QPSK	1	271	15.97				
100	QPSK	135	0	15.96			17.2	0.0
100	QPSK	135	69	16.01			17.2	0.0
100	QPSK	135	138	15.96				
100	QPSK	270	0	15.93			17.2	0.0
100	16QAM	1	1	15.93			17.2	0.0
100	64QAM	1	1	15.98			17.2	0.0
100	256QAM	1	1	15.91			17.2	0.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	15.83	15.82	15.87	17.2	0.0
Channel				648334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	15.90	15.91	15.87	17.2	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	15.87	15.85	15.87	17.2	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	15.80	15.85	15.89	17.2	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	15.90	15.91	15.83	17.2	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	15.80	15.91	15.86	17.2	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	15.92	15.95	15.83	17.2	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	15.87	15.93	15.88	17.2	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.82	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	15.92	15.95	15.89	17.2	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	15.92	15.92	15.85	17.2	0.0

Part270 n78 PC2 Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	18.84				
100	PI/2 BPSK	1	137	18.78			20.2	0.0
100	PI/2 BPSK	1	271	18.82				
100	PI/2 BPSK	135	0	18.89			20.2	0.0
100	PI/2 BPSK	135	69	18.82			20.2	0.0
100	PI/2 BPSK	135	138	18.87				
100	PI/2 BPSK	270	0	18.84			20.2	0.0
100	QPSK	1	1	18.94				
100	QPSK	1	137	18.86			20.2	0.0
100	QPSK	1	271	18.88				
100	QPSK	135	0	18.91			20.2	0.0
100	QPSK	135	69	18.92			20.2	0.0
100	QPSK	135	138	18.84				
100	QPSK	270	0	18.86			20.2	0.0
100	16QAM	1	1	18.83			20.2	0.0
100	64QAM	1	1	18.87			20.2	0.0
100	256QAM	1	1	18.84			20.2	0.0
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	18.75	18.83	18.82	20.2	0.0
Channel				648334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	18.80	18.81	18.77	20.2	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	18.80	18.84	18.82	20.2	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	18.74	18.82	18.79	20.2	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	18.75	18.81	18.81	20.2	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	18.76	18.84	18.79	20.2	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	18.76	18.84	18.78	20.2	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	18.78	18.84	18.78	20.2	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.82	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	18.78	18.83	18.79	20.2	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	18.79	18.80	18.77	20.2	0.0

### Part270 n77 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				650000	656000	662000		
				3750	3840	3930		
100	PI/2 BPSK	1	1	19.35	19.45	19.31		
100	PI/2 BPSK	1	137	19.39	19.48	19.30	20.6	0.0
100	PI/2 BPSK	1	271	19.39	19.44	19.28		
100	PI/2 BPSK	135	0	19.38	19.46	19.30	20.6	0.0
100	PI/2 BPSK	135	69	19.35	19.47	19.30	20.6	0.0
100	PI/2 BPSK	135	138	19.37	19.46	19.27		
100	PI/2 BPSK	270	0	19.36	19.47	19.26	20.6	0.0
100	QPSK	1	1	19.42	19.53	19.34		
100	QPSK	1	137	19.45	19.51	19.33	20.6	0.0
100	QPSK	1	271	19.43	19.52	19.34		
100	QPSK	135	0	19.41	19.46	19.29	20.5	0.1
100	QPSK	135	69	19.38	19.47	19.30	20.6	0.0
100	QPSK	135	138	19.41	19.46	19.32		
100	QPSK	270	0	19.39	19.45	19.29	20.5	0.1
100	16QAM	1	1	19.38	19.46	19.28	20.5	0.1
100	64QAM	1	1	18.39	18.43	18.38	19.0	1.8
100	256QAM	1	1	16.08	16.16	16.07	17.0	3.8
Channel								
Frequency (MHz)								
				649668	656000	662334	Tune-up limit	MPR
				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	19.39	19.44	19.28	20.6	0.0
Channel								
Frequency (MHz)								
				649334	656000	662668	Tune-up limit	MPR
				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	19.34	19.47	19.31	20.6	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000	Tune-up limit	MPR
				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	19.38	19.47	19.30	20.6	0.0
Channel								
Frequency (MHz)								
				648668	656000	663334	Tune-up limit	MPR
				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	19.36	19.47	19.27	20.6	0.0
Channel								
Frequency (MHz)								
				648334	656000	663668	Tune-up limit	MPR
				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	19.38	19.49	19.25	20.6	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000	Tune-up limit	MPR
				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	19.38	19.48	19.31	20.6	0.0
Channel								
Frequency (MHz)								
				647668	656000	664334	Tune-up limit	MPR
				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	19.38	19.43	19.28	20.6	0.0
Channel								
Frequency (MHz)								
				647334	656000	664668	Tune-up limit	MPR
				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	19.36	19.46	19.28	20.6	0.0
Channel								
Frequency (MHz)								
				647168	656000	664834	Tune-up limit	MPR
				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	19.36	19.48	19.25	20.6	0.0
Channel								
Frequency (MHz)								
				647000	656000	665000	Tune-up limit	MPR
				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	19.35	19.46	19.30	20.6	0.0

### Part270 n77 PC2 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				650000	656000	662000		
				3750	3840	3930		
100	PI/2 BPSK	1	1	22.25	22.37	22.20		
100	PI/2 BPSK	1	137	22.28	22.38	22.19	23.6	0.0
100	PI/2 BPSK	1	271	22.26	22.32	22.21		
100	PI/2 BPSK	135	0	22.27	22.35	22.23	23.6	0.0
100	PI/2 BPSK	135	69	22.26	22.37	22.21	23.6	0.0
100	PI/2 BPSK	135	138	22.28	22.36	22.14		
100	PI/2 BPSK	270	0	22.27	22.36	22.16	23.6	0.0
100	QPSK	1	1	22.29	22.44	22.33		
100	QPSK	1	137	22.32	22.42	22.21	23.6	0.0
100	QPSK	1	271	22.30	22.40	22.25		
100	QPSK	135	0	22.31	22.34	22.16	23.5	0.1
100	QPSK	135	69	22.27	22.36	22.17	23.6	0.0
100	QPSK	135	138	22.32	22.35	22.20		
100	QPSK	270	0	22.29	22.34	22.18	23.5	0.1
100	16QAM	1	1	22.32	22.36	22.21	23.5	0.1
100	64QAM	1	1	20.72	20.77	20.73	22.0	1.6
100	256QAM	1	1	18.57	18.66	18.58	20.0	3.8
Channel								
Frequency (MHz)								
				649668	656000	662334	Tune-up limit	MPR
				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	22.29	22.38	22.18	23.6	0.0
Channel								
Frequency (MHz)								
				649334	656000	662668	Tune-up limit	MPR
				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	22.30	22.38	22.19	23.6	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000	Tune-up limit	MPR
				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	22.33	22.37	22.18	23.6	0.0
Channel								
Frequency (MHz)								
				648668	656000	663334	Tune-up limit	MPR
				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	22.31	22.35	22.18	23.6	0.0
Channel								
Frequency (MHz)								
				648334	656000	663668	Tune-up limit	MPR
				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	22.29	22.38	22.18	23.6	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000	Tune-up limit	MPR
				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	22.30	22.36	22.20	23.6	0.0
Channel								
Frequency (MHz)								
				647668	656000	664334	Tune-up limit	MPR
				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	22.30	22.36	22.17	23.6	0.0
Channel								
Frequency (MHz)								
				647334	656000	664668	Tune-up limit	MPR
				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	22.30	22.37	22.16	23.6	0.0
Channel								
Frequency (MHz)								
				647168	656000	664834	Tune-up limit	MPR
				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	22.29	22.34	22.16	23.6	0.0
Channel								
Frequency (MHz)								
				647000	656000	665000	Tune-up limit	MPR
				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	22.33	22.36	22.19	23.6	0.0



Part270 n78 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		19.13				
100	PI/2 BPSK	1	137		19.16		20.5	0.0	
100	PI/2 BPSK	1	271		19.16				
100	PI/2 BPSK	135	0		19.13		20.5	0.0	
100	PI/2 BPSK	135	69		19.16		20.5	0.0	
100	PI/2 BPSK	135	138		19.16				
100	PI/2 BPSK	270	0		19.15		20.5	0.0	
100	QPSK	1	1		19.23				
100	QPSK	1	137		19.19		20.5	0.0	
100	QPSK	1	271		19.21				
100	QPSK	135	0		19.17		20.5	0.0	
100	QPSK	135	69		19.18		20.5	0.0	
100	QPSK	135	138		19.16				
100	QPSK	270	0		19.15		20.5	0.0	
100	16QAM	1	1		19.18		20.5	0.0	
100	64QAM	1	1		19.10		20.5	0.0	
100	256QAM	1	1		18.67		19.5	1.0	
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel				3745.02	3750	3755.01			
Frequency (MHz)				19.21	19.20	19.18	20.5	0.0	
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel				3740.01	3750	3760.02			
Frequency (MHz)				19.20	19.00	19.19	20.5	0.0	
80	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel				3735	3750	3765			
Frequency (MHz)				19.20	19.20	19.17	20.5	0.0	
70	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel				3730.02	3750	3770.01			
Frequency (MHz)				19.18	19.20	19.16	20.5	0.0	
60	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Channel				3725.01	3750	3775.02			
Frequency (MHz)				19.20	19.20	19.15	20.5	0.0	
50	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Channel				3720	3750	3780			
Frequency (MHz)				19.22	19.20	19.14	20.5	0.0	
40	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel				3715.02	3750	3785.01			
Frequency (MHz)				19.20	19.20	19.17	20.5	0.0	
30	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel				3710.01	3750	3790.02			
Frequency (MHz)				19.21	19.21	19.18	20.5	0.0	
20	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel				3705	3750	3795			
Frequency (MHz)				19.19	19.22	19.16	20.5	0.0	
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel				3705	3750	3795			
Frequency (MHz)				19.20	19.19	19.15	20.5	0.0	
10	QPSK	1	1						

Part270 n78 PC2 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		22.03				
100	PI/2 BPSK	1	137		22.10		23.5	0.0	
100	PI/2 BPSK	1	271		22.08				
100	PI/2 BPSK	135	0		22.04		23.5	0.0	
100	PI/2 BPSK	135	69		22.04		23.5	0.0	
100	PI/2 BPSK	135	138		22.09				
100	PI/2 BPSK	270	0		22.06		23.5	0.0	
100	QPSK	1	1		22.15				
100	QPSK	1	137		22.13		23.5	0.0	
100	QPSK	1	271		22.13				
100	QPSK	135	0		22.09		23.5	0.0	
100	QPSK	135	69		22.11		23.5	0.0	
100	QPSK	135	138		22.08				
100	QPSK	270	0		22.07		23.5	0.0	
100	16QAM	1	1		22.09		23.5	0.0	
100	64QAM	1	1		22.04		23.5	0.0	
100	256QAM	1	1		20.92		22.5	1.0	
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel				3745.02	3750	3755.01			
Frequency (MHz)				22.07	21.98	22.08	23.5	0.0	
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel				3740.01	3750	3760.02			
Frequency (MHz)				22.05	22.00	22.08	23.5	0.0	
80	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel				3735	3750	3765			
Frequency (MHz)				22.03	22.03	22.09	23.5	0.0	
70	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel				3730.02	3750	3770.01			
Frequency (MHz)				22.07	22.03	22.10	23.5	0.0	
60	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Channel				3725.01	3750	3775.02			
Frequency (MHz)				22.05	22.00	22.07	23.5	0.0	
50	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Channel				3720	3750	3780			
Frequency (MHz)				22.09	22.01	22.10	23.5	0.0	
40	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel				3715.02	3750	3785.01			
Frequency (MHz)				22.05	22.00	22.10	23.5	0.0	
30	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel				3710.01	3750	3790.02			
Frequency (MHz)				22.08	22.01	22.08	23.5	0.0	
20	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel				3705	3750	3795			
Frequency (MHz)				22.03	22.00	22.11	23.5	0.0	
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel				3705	3750	3795			
Frequency (MHz)				22.05	21.99	22.08	23.5	0.0	
10	QPSK	1	1						



Part270 n77 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.05	20.13	20.07	20.5	0.0
100	PI/2 BPSK	1	137	20.08	20.16	20.09		
100	PI/2 BPSK	1	271	19.82	19.68	19.62		
100	PI/2 BPSK	135	0	19.44	19.53	19.47		
100	PI/2 BPSK	135	69	19.67	19.76	19.72		
100	PI/2 BPSK	135	138	19.07	19.11	19.01		
100	PI/2 BPSK	270	0	19.22	19.29	19.20		
100	QPSK	1	1	20.09	20.19	20.11		
100	QPSK	1	137	20.01	20.09	20.01		
100	QPSK	1	271	19.81	19.65	19.57		
100	QPSK	135	0	18.86	18.92	18.84	20.0	0.5
100	QPSK	135	69	19.71	19.60	19.75	20.5	0.0
100	QPSK	135	138	19.15	19.24	19.16	20.0	0.5
100	QPSK	270	0	19.26	19.36	19.31	20.0	0.5
100	16QAM	1	1	19.33	19.42	19.37	20.0	0.5
100	64QAM	1	1	17.43	17.48	17.38	18.5	2.0
100	256QAM	1	1	15.41	15.49	15.42	16.5	4.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	20.5	0.0
90	QPSK	1	1	19.80	19.95	19.84	20.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	20.5	0.0
80	QPSK	1	1	19.81	19.93	19.85	20.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	20.5	0.0
70	QPSK	1	1	19.79	19.93	19.84	20.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	20.5	0.0
60	QPSK	1	1	19.81	19.89	19.85	20.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	20.5	0.0
50	QPSK	1	1	19.82	19.95	19.85	20.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	20.5	0.0
40	QPSK	1	1	19.81	19.90	19.82	20.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	20.5	0.0
30	QPSK	1	1	19.82	19.92	19.83	20.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	20.5	0.0
20	QPSK	1	1	19.81	19.94	19.83	20.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	20.5	0.0
15	QPSK	1	1	19.83	19.93	19.86	20.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	20.5	0.0
10	QPSK	1	1	19.83	19.94	19.83	20.5	0.0

Part270 n77 PC2 Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.96	23.04	23.00	23.5	0.0
100	PI/2 BPSK	1	137	22.94	23.01	22.95		
100	PI/2 BPSK	1	271	22.73	22.81	22.71		
100	PI/2 BPSK	135	0	22.38	22.43	22.34		
100	PI/2 BPSK	135	69	22.77	22.86	22.78		
100	PI/2 BPSK	135	138	22.06	22.15	22.10		
100	PI/2 BPSK	270	0	22.19	22.27	22.17		
100	QPSK	1	1	23.01	23.09	23.07		
100	QPSK	1	137	22.87	22.94	22.85		
100	QPSK	1	271	22.80	22.89	22.82		
100	QPSK	135	0	21.91	21.95	21.87	23.0	0.5
100	QPSK	135	69	22.75	22.83	22.73	23.5	0.0
100	QPSK	135	138	21.48	21.54	21.48	23.0	0.5
100	QPSK	270	0	21.70	21.76	21.70	23.0	0.5
100	16QAM	1	1	21.88	21.96	21.92	23.0	0.5
100	64QAM	1	1	20.34	20.41	20.33	21.5	2.0
100	256QAM	1	1	18.34	18.39	18.29	19.5	4.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	23.5	0.0
90	QPSK	1	1	22.90	22.84	22.54	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.5	0.0
80	QPSK	1	1	22.85	22.82	22.52	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	23.5	0.0
70	QPSK	1	1	22.85	22.85	22.57	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	23.5	0.0
60	QPSK	1	1	22.89	22.83	22.56	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	23.5	0.0
50	QPSK	1	1	22.81	22.85	22.57	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.5	0.0
40	QPSK	1	1	22.82	22.82	22.56	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.5	0.0
30	QPSK	1	1	22.81	22.84	22.53	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.5	0.0
20	QPSK	1	1	22.83	22.80	22.57	23.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	23.5	0.0
15	QPSK	1	1	22.84	22.82	22.56	23.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	23.5	0.0
10	QPSK	1	1	22.81	22.84	22.56	23.5	0.0



Part270 n78 Ant 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1	19.40						
100	PI/2 BPSK	1	137	19.39			20.5	0.0		
100	PI/2 BPSK	1	271	19.38						
100	PI/2 BPSK	135	0	19.40			20.5	0.0		
100	PI/2 BPSK	135	69	19.42			20.5	0.0		
100	PI/2 BPSK	135	138	19.39			20.5	0.0		
100	PI/2 BPSK	270	0	19.42						
100	QPSK	1	1	19.45						
100	QPSK	1	137	19.42			20.5	0.0		
100	QPSK	1	271	19.41						
100	QPSK	135	0	19.37			20.5	0.0		
100	QPSK	135	69	19.42			20.5	0.0		
100	QPSK	135	138	19.41			20.5	0.0		
100	QPSK	270	0	19.40						
100	16QAM	1	1	19.34			20.5	0.0		
100	64QAM	1	1	19.33			20.5	0.0		
100	256QAM	1	1	19.34			19.5	1.0		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1	19.04	19.12	19.15	20.5	0.0		
Channel				648334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1	19.03	19.12	19.15	20.5	0.0		
Channel				648000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1	19.07	19.07	19.17	20.5	0.0		
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1	19.03	19.12	19.15	20.5	0.0		
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1	19.05	19.10	19.15	20.5	0.0		
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	19.04	19.09	19.12	20.5	0.0		
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1	19.05	19.07	19.16	20.5	0.0		
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1	19.05	19.07	19.16	20.5	0.0		
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1	19.03	19.12	19.14	20.5	0.0		
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1	19.08	19.10	19.14	20.5	0.0		

Part270 n78 PC2 Ant 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1	22.30						
100	PI/2 BPSK	1	137	22.31			23.5	0.0		
100	PI/2 BPSK	1	271	22.28						
100	PI/2 BPSK	135	0	22.29			23.5	0.0		
100	PI/2 BPSK	135	69	22.36			23.5	0.0		
100	PI/2 BPSK	135	138	22.31			23.5	0.0		
100	PI/2 BPSK	270	0	22.36						
100	QPSK	1	1	22.39						
100	QPSK	1	137	22.33			23.5	0.0		
100	QPSK	1	271	22.32						
100	QPSK	135	0	22.27			23.5	0.0		
100	QPSK	135	69	22.35			23.5	0.0		
100	QPSK	135	138	22.31			23.5	0.0		
100	QPSK	270	0	22.33						
100	16QAM	1	1	22.25			23.5	0.0		
100	64QAM	1	1	22.22			23.5	0.0		
100	256QAM	1	1	22.17			22.5	1.0		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1	22.10	22.11	22.16	23.5	0.0		
Channel				649334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1	22.08	22.10	22.15	23.5	0.0		
Channel				649000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1	22.11	22.13	22.14	23.5	0.0		
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1	22.09	22.13	22.17	23.5	0.0		
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1	22.10	22.13	22.17	23.5	0.0		
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	22.13	22.14	22.16	23.5	0.0		
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1	22.11	22.11	22.13	23.5	0.0		
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1	22.13	22.11	22.17	23.5	0.0		
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1	22.10	22.11	22.13	23.5	0.0		
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1	22.14	22.14	22.14	23.5	0.0		



Part270 n77 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.03	18.17	17.99	19.2	0.0
100	PI/2 BPSK	1	137	18.02	18.15	17.98		
100	PI/2 BPSK	1	271	18.02	18.13	17.98		
100	PI/2 BPSK	135	0	17.98	18.17	17.98	19.2	0.0
100	PI/2 BPSK	135	69	17.99	18.13	17.98	19.2	0.0
100	PI/2 BPSK	135	138	18.03	18.12	17.99		
100	PI/2 BPSK	270	0	17.97	18.13	17.99	19.2	0.0
100	QPSK	1	1	18.06	18.21	18.05		
100	QPSK	1	137	18.02	18.14	18.00	19.2	0.0
100	QPSK	1	271	17.98	18.16	17.99		
100	QPSK	135	0	18.02	18.14	17.98	19.2	0.0
100	QPSK	135	69	18.02	18.17	17.99	19.2	0.0
100	QPSK	135	138	18.00	18.13	17.97	19.2	0.0
100	QPSK	270	0	17.99	18.14	18.00		
100	16QAM	1	1	17.99	18.16	18.00	19.2	0.0
100	64QAM	1	1	18.03	18.17	18.01	19.2	0.0
100	256QAM	1	1	17.14	17.10	17.03	18.5	0.7
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	19.2	0.0
90	QPSK	1	1	18.02	18.13	17.99	19.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	19.2	0.0
80	QPSK	1	1	17.88	18.12	18.02	19.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	19.2	0.0
70	QPSK	1	1	17.88	18.15	17.97	19.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	19.2	0.0
60	QPSK	1	1	18.02	18.12	18.00	19.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	19.2	0.0
50	QPSK	1	1	18.01	18.17	18.00	19.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	19.2	0.0
40	QPSK	1	1	18.03	18.14	18.02	19.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	19.2	0.0
30	QPSK	1	1	18.03	18.16	17.99	19.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	19.2	0.0
20	QPSK	1	1	18.01	18.16	18.01	19.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51	19.2	0.0
15	QPSK	1	1	18.02	18.14	18.00	19.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	19.2	0.0
10	QPSK	1	1	17.99	18.15	18.01	19.2	0.0

Part270 n77 PC2 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.87	21.08	20.90	22.2	0.0
100	PI/2 BPSK	1	137	20.84	21.08	20.91		
100	PI/2 BPSK	1	271	20.84	21.03	20.89		
100	PI/2 BPSK	135	0	20.88	21.10	20.90	22.2	0.0
100	PI/2 BPSK	135	69	20.82	21.01	20.88	22.2	0.0
100	PI/2 BPSK	135	138	20.84	21.04	20.90		
100	PI/2 BPSK	270	0	20.87	21.01	20.91	22.2	0.0
100	QPSK	1	1	21.00	21.12	20.97		
100	QPSK	1	137	20.84	21.04	20.92	22.2	0.0
100	QPSK	1	271	20.80	21.04	20.88		
100	QPSK	135	0	20.80	21.06	20.87	22.2	0.0
100	QPSK	135	69	20.81	21.09	20.88	22.2	0.0
100	QPSK	135	138	20.84	21.04	20.88	22.2	0.0
100	QPSK	270	0	20.82	21.07	20.90		
100	16QAM	1	1	20.82	21.07	20.89	22.2	0.0
100	64QAM	1	1	20.91	21.08	20.91	22.2	0.0
100	256QAM	1	1	20.03	20.28	20.13	21.5	0.7
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	22.2	0.0
90	QPSK	1	1	20.88	21.05	20.92	22.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	22.2	0.0
80	QPSK	1	1	20.83	21.05	20.93	22.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	22.2	0.0
70	QPSK	1	1	20.88	21.02	20.90	22.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	22.2	0.0
60	QPSK	1	1	20.89	21.08	20.90	22.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	22.2	0.0
50	QPSK	1	1	20.83	21.04	20.89	22.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	22.2	0.0
40	QPSK	1	1	20.80	21.06	20.90	22.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	22.2	0.0
30	QPSK	1	1	20.89	21.04	20.91	22.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	22.2	0.0
20	QPSK	1	1	20.91	21.05	20.90	22.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	22.2	0.0
15	QPSK	1	1	20.87	21.06	20.94	22.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	22.2	0.0
10	QPSK	1	1	20.83	21.05	20.93	22.2	0.0



Part270 n78 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		18.88					
100	PI/2 BPSK	1	137		18.83		19.8	0.0		
100	PI/2 BPSK	1	271		18.82					
100	PI/2 BPSK	135	0		18.88		19.8	0.0		
100	PI/2 BPSK	135	69		18.81		19.8	0.0		
100	PI/2 BPSK	135	138		18.80					
100	PI/2 BPSK	270	0		18.81		19.8	0.0		
100	QPSK	1	1		18.93					
100	QPSK	1	137		18.85		19.8	0.0		
100	QPSK	1	271		18.89					
100	QPSK	135	0		18.83		19.8	0.0		
100	QPSK	135	69		18.87		19.8	0.0		
100	QPSK	135	138		18.81					
100	QPSK	270	0		18.86		19.8	0.0		
100	16QAM	1	1		18.87		19.8	0.0		
100	64QAM	1	1		18.88		19.8	0.0		
100	256QAM	1	1		18.93		19.5	0.3		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		18.35	18.44	18.35	19.2	0.0	
Channel				649334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		18.35	18.44	18.32	19.2	0.0	
Channel				649000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		18.35	18.46	18.32	19.2	0.0	
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		18.37	18.44	18.31	19.2	0.0	
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		18.35	18.44	18.35	19.2	0.0	
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		18.34	18.50	18.33	19.8	0.0	
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		18.35	18.46	18.35	19.8	0.0	
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		18.33	18.45	18.32	19.8	0.0	
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		18.34	18.46	18.31	19.8	0.0	
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		18.35	18.47	18.34	19.8	0.0	

Part270 n78 PC2 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		21.69					
100	PI/2 BPSK	1	137		21.51		22.8	0.0		
100	PI/2 BPSK	1	271		21.62					
100	PI/2 BPSK	135	0		21.70		22.8	0.0		
100	PI/2 BPSK	135	69		21.64		22.8	0.0		
100	PI/2 BPSK	135	138		21.63					
100	PI/2 BPSK	270	0		21.62		22.8	0.0		
100	QPSK	1	1		21.77					
100	QPSK	1	137		21.63		22.8	0.0		
100	QPSK	1	271		21.68					
100	QPSK	135	0		21.63		22.8	0.0		
100	QPSK	135	69		21.69		22.8	0.0		
100	QPSK	135	138		21.61					
100	QPSK	270	0		21.67		22.8	0.0		
100	16QAM	1	1		21.69		22.8	0.0		
100	64QAM	1	1		21.70		22.8	0.0		
100	256QAM	1	1		21.42		22.5	0.3		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		21.54	21.60	21.50	22.8	0.0	
Channel				649334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		21.48	21.55	21.48	22.8	0.0	
Channel				649000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		21.47	21.59	21.49	22.8	0.0	
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		21.42	21.57	21.48	22.8	0.0	
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		21.53	21.55	21.41	22.8	0.0	
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		21.44	21.52	21.45	22.8	0.0	
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		21.53	21.52	21.44	22.8	0.0	
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		21.44	21.53	21.44	22.8	0.0	
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		21.52	21.55	21.43	22.8	0.0	
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		21.50	21.51	21.44	22.8	0.0	



Reduced Power Mode for DSI 4

Part270 n77 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.35	19.45	19.31		
100	PI/2 BPSK	1	137	19.39	19.48	19.30	20.6	0.0
100	PI/2 BPSK	1	271	19.39	19.44	19.28		
100	PI/2 BPSK	135	0	19.38	19.46	19.30	20.6	0.0
100	PI/2 BPSK	135	69	19.35	19.47	19.30	20.6	0.0
100	PI/2 BPSK	135	138	19.37	19.46	19.27		
100	PI/2 BPSK	270	0	19.36	19.47	19.26	20.6	0.0
100	QPSK	1	1	19.42	19.53	19.34		
100	QPSK	1	137	19.45	19.51	19.33	20.6	0.0
100	QPSK	1	271	19.43	19.52	19.34		
100	QPSK	135	0	19.41	19.46	19.29	20.5	0.1
100	QPSK	135	69	19.38	19.47	19.30	20.6	0.0
100	QPSK	135	138	19.41	19.46	19.32		
100	QPSK	270	0	19.39	19.45	19.29	20.5	0.1
100	16QAM	1	1	19.38	19.46	19.28	20.5	0.1
100	64QAM	1	1	18.39	18.43	18.38	19.0	1.6
100	256QAM	1	1	16.08	16.16	16.07	17.0	3.6
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.39	19.44	19.26	20.6	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.34	19.47	19.31	20.6	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.38	19.47	19.30	20.6	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.36	19.47	19.27	20.6	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.38	19.49	19.25	20.6	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.38	19.48	19.31	20.6	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.38	19.43	19.28	20.6	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.36	19.46	19.28	20.6	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	19.36	19.48	19.25	20.6	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.35	19.46	19.30	20.6	0.0

Part270 n77 PC2 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.25	22.37	22.20		
100	PI/2 BPSK	1	137	22.28	22.38	22.19	23.6	0.0
100	PI/2 BPSK	1	271	22.26	22.32	22.21		
100	PI/2 BPSK	135	0	22.27	22.35	22.23	23.6	0.0
100	PI/2 BPSK	135	69	22.26	22.37	22.21	23.6	0.0
100	PI/2 BPSK	135	138	22.28	22.36	22.14		
100	PI/2 BPSK	270	0	22.27	22.36	22.16	23.6	0.0
100	QPSK	1	1	22.29	22.44	22.33		
100	QPSK	1	137	22.32	22.42	22.21	23.6	0.0
100	QPSK	1	271	22.30	22.40	22.25		
100	QPSK	135	0	22.31	22.34	22.16	23.5	0.1
100	QPSK	135	69	22.27	22.36	22.17	23.6	0.0
100	QPSK	135	138	22.32	22.35	22.20		
100	QPSK	270	0	22.29	22.34	22.18	23.5	0.1
100	16QAM	1	1	22.32	22.36	22.21	23.5	0.1
100	64QAM	1	1	20.72	20.77	20.73	22.0	1.6
100	256QAM	1	1	18.57	18.66	18.58	20.0	3.6
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.29	22.38	22.18	23.6	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.30	22.38	22.19	23.6	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.33	22.37	22.18	23.6	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.31	22.35	22.18	23.6	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.29	22.38	22.18	23.6	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.30	22.36	22.20	23.6	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.30	22.36	22.17	23.6	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.30	22.37	22.16	23.6	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.29	22.34	22.16	23.6	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.33	22.36	22.19	23.6	0.0



Part270 n78 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	19.13				
100	PI/2 BPSK	1	137	19.16			20.5	0.0
100	PI/2 BPSK	1	271	19.16				
100	PI/2 BPSK	135	0	19.13			20.5	0.0
100	PI/2 BPSK	135	69	19.16			20.5	0.0
100	PI/2 BPSK	135	138	19.16			20.5	0.0
100	PI/2 BPSK	270	0	19.15				
100	QPSK	1	1	19.23				
100	QPSK	1	137	19.19			20.5	0.0
100	QPSK	1	271	19.21				
100	QPSK	135	0	19.17			20.5	0.0
100	QPSK	135	69	19.18			20.5	0.0
100	QPSK	135	138	19.16			20.5	0.0
100	QPSK	270	0	19.15				
100	16QAM	1	1	19.18			20.5	0.0
100	64QAM	1	1	19.10			20.5	0.0
100	256QAM	1	1	18.67			19.5	1.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.21	19.20	19.18	20.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.20	19.00	19.19	20.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.20	19.20	19.17	20.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.18	19.20	19.16	20.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.20	19.20	19.15	20.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.22	19.20	19.14	20.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.20	19.20	19.17	20.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.21	19.21	19.18	20.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	19.19	19.22	19.16	20.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	19.20	19.19	19.15	20.5	0.0

Part270 n78 PC2 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	22.03				
100	PI/2 BPSK	1	137	22.10			23.5	0.0
100	PI/2 BPSK	1	271	22.08				
100	PI/2 BPSK	135	0	22.04			23.5	0.0
100	PI/2 BPSK	135	69	22.04			23.5	0.0
100	PI/2 BPSK	135	138	22.09			23.5	0.0
100	PI/2 BPSK	270	0	22.06				
100	QPSK	1	1	22.15				
100	QPSK	1	137	22.13			23.5	0.0
100	QPSK	1	271	22.13				
100	QPSK	135	0	22.09			23.5	0.0
100	QPSK	135	69	22.11			23.5	0.0
100	QPSK	135	138	22.08			23.5	0.0
100	QPSK	270	0	22.07				
100	16QAM	1	1	22.09			23.5	0.0
100	64QAM	1	1	22.04			23.5	0.0
100	256QAM	1	1	20.92			22.5	1.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.07	21.98	22.08	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.05	22.00	22.08	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.03	22.03	22.09	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.07	22.03	22.10	23.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.05	22.00	22.07	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.09	22.01	22.10	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.05	22.00	22.10	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.08	22.01	22.08	23.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.03	22.00	22.11	23.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.05	21.99	22.08	23.5	0.0



Part270 n77 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.03	18.17	17.99	19.2	0.0
100	PI/2 BPSK	1	137	18.02	18.15	17.98		
100	PI/2 BPSK	1	271	18.02	18.13	17.98		
100	PI/2 BPSK	135	0	17.98	18.17	17.98		
100	PI/2 BPSK	135	69	17.99	18.13	17.98		
100	PI/2 BPSK	135	138	18.03	18.12	17.99		
100	PI/2 BPSK	270	0	17.97	18.13	17.99		
100	QPSK	1	1	18.06	18.21	18.05		
100	QPSK	1	137	18.02	18.14	18.00		
100	QPSK	1	271	17.98	18.16	17.99		
100	QPSK	135	0	18.02	18.14	17.98		
100	QPSK	135	69	18.02	18.17	17.99		
100	QPSK	135	138	18.00	18.13	17.97		
100	QPSK	270	0	17.99	18.14	18.00		
100	16QAM	1	1	17.99	18.16	18.00		
100	64QAM	1	1	18.03	18.17	18.01		
100	256QAM	1	1	17.14	17.10	17.03		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	19.2	0.0
90	QPSK	1	1	18.02	18.13	17.99	19.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	19.2	0.0
80	QPSK	1	1	17.88	18.12	18.02	19.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	19.2	0.0
70	QPSK	1	1	17.88	18.15	17.97	19.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	19.2	0.0
60	QPSK	1	1	18.02	18.12	18.00	19.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	19.2	0.0
50	QPSK	1	1	18.01	18.17	18.00	19.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	19.2	0.0
40	QPSK	1	1	18.03	18.14	18.02	19.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	19.2	0.0
30	QPSK	1	1	18.03	18.16	17.99	19.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	19.2	0.0
20	QPSK	1	1	18.01	18.16	18.01	19.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51	19.2	0.0
15	QPSK	1	1	18.02	18.14	18.00	19.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	19.2	0.0
10	QPSK	1	1	17.99	18.15	18.01	19.2	0.0

Part270 n77 PC2 Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.87	21.08	20.90	22.2	0.0
100	PI/2 BPSK	1	137	20.94	21.08	20.91		
100	PI/2 BPSK	1	271	20.94	21.03	20.89		
100	PI/2 BPSK	135	0	20.88	21.10	20.90		
100	PI/2 BPSK	135	69	20.92	21.01	20.88		
100	PI/2 BPSK	135	138	20.94	21.04	20.90		
100	PI/2 BPSK	270	0	20.87	21.01	20.91		
100	QPSK	1	1	21.00	21.12	20.97		
100	QPSK	1	137	20.94	21.04	20.92		
100	QPSK	1	271	20.90	21.04	20.88		
100	QPSK	135	0	20.90	21.06	20.87		
100	QPSK	135	69	20.91	21.09	20.88		
100	QPSK	135	138	20.94	21.04	20.88		
100	QPSK	270	0	20.92	21.07	20.90		
100	16QAM	1	1	20.92	21.07	20.89		
100	64QAM	1	1	20.91	21.08	20.91		
100	256QAM	1	1	20.03	20.28	20.13		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	22.2	0.0
90	QPSK	1	1	20.88	21.05	20.92	22.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	22.2	0.0
80	QPSK	1	1	20.93	21.05	20.93	22.2	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	22.2	0.0
70	QPSK	1	1	20.88	21.02	20.90	22.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	22.2	0.0
60	QPSK	1	1	20.89	21.08	20.90	22.2	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	22.2	0.0
50	QPSK	1	1	20.93	21.04	20.89	22.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	22.2	0.0
40	QPSK	1	1	20.90	21.06	20.90	22.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	22.2	0.0
30	QPSK	1	1	20.89	21.04	20.91	22.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	22.2	0.0
20	QPSK	1	1	20.91	21.05	20.90	22.2	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	22.2	0.0
15	QPSK	1	1	20.87	21.06	20.94	22.2	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	22.2	0.0
10	QPSK	1	1	20.93	21.05	20.93	22.2	0.0



Part270 n78 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		18.88					
100	PI/2 BPSK	1	137		18.83		19.8	0.0		
100	PI/2 BPSK	1	271		18.82					
100	PI/2 BPSK	135	0		18.88		19.8	0.0		
100	PI/2 BPSK	135	69		18.81		19.8	0.0		
100	PI/2 BPSK	135	138		18.80					
100	PI/2 BPSK	270	0		18.81		19.8	0.0		
100	QPSK	1	1		18.93					
100	QPSK	1	137		18.85		19.8	0.0		
100	QPSK	1	271		18.89					
100	QPSK	135	0		18.83		19.8	0.0		
100	QPSK	135	69		18.87		19.8	0.0		
100	QPSK	135	138		18.81					
100	QPSK	270	0		18.86		19.8	0.0		
100	16QAM	1	1		18.87		19.8	0.0		
100	64QAM	1	1		18.88		19.8	0.0		
100	256QAM	1	1		18.83		19.5	0.3		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		18.30	18.44	18.35	19.0	0.0	
Channel				649334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		18.35	18.44	18.32	19.0	0.0	
Channel				649000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		18.30	18.46	18.32	19.0	0.0	
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		18.37	18.44	18.31	19.0	0.0	
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		18.30	18.44	18.35	19.0	0.0	
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		18.34	18.50	18.33	19.8	0.0	
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		18.30	18.46	18.35	19.8	0.0	
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		18.33	18.45	18.32	19.8	0.0	
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		18.34	18.46	18.31	19.8	0.0	
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		18.35	18.47	18.34	19.8	0.0	

Part270 n78 PC2 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI/2 BPSK	1	1		21.69					
100	PI/2 BPSK	1	137		21.51		22.8	0.0		
100	PI/2 BPSK	1	271		21.62					
100	PI/2 BPSK	135	0		21.70		22.8	0.0		
100	PI/2 BPSK	135	69		21.64		22.8	0.0		
100	PI/2 BPSK	135	138		21.63					
100	PI/2 BPSK	270	0		21.62		22.8	0.0		
100	QPSK	1	1		21.77					
100	QPSK	1	137		21.63		22.8	0.0		
100	QPSK	1	271		21.68					
100	QPSK	135	0		21.63		22.8	0.0		
100	QPSK	135	69		21.69		22.8	0.0		
100	QPSK	135	138		21.61					
100	QPSK	270	0		21.67		22.8	0.0		
100	16QAM	1	1		21.69		22.8	0.0		
100	64QAM	1	1		21.70		22.8	0.0		
100	256QAM	1	1		21.42		22.5	0.3		
Channel				649668	650000	650334				
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		21.54	21.60	21.50	22.8	0.0	
Channel				649334	650000	650668				
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		21.48	21.55	21.48	22.8	0.0	
Channel				649000	650000	651000				
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		21.47	21.59	21.49	22.8	0.0	
Channel				648668	650000	651334				
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		21.42	21.57	21.48	22.8	0.0	
Channel				648334	650000	651668				
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		21.53	21.55	21.41	22.8	0.0	
Channel				648000	650000	652000				
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		21.44	21.52	21.45	22.8	0.0	
Channel				647668	650000	652334				
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		21.53	21.52	21.44	22.8	0.0	
Channel				647334	650000	652668				
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		21.44	21.53	21.44	22.8	0.0	
Channel				647168	650000	652834				
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		21.52	21.55	21.43	22.8	0.0	
Channel				647000	650000	653000				
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		21.50	21.51	21.44	22.8	0.0	



		Full power/Body-worn for Stationaire				Head for Stationaire		Head for Simultaneous DBS only		Head for Simultaneous WWAN non DBS		Head for Simultaneous WWAN-DBS		Body-worn for Simultaneous DBS only		Body-worn for Simultaneous WWAN non DBS		Body-worn for Simultaneous WWAN-DBS		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %
802.11b Mbps	1	2412	22.24	21.50	18.13	19.50	12.54	13.50	9.07	10.50	20.77	21.00	17.25	18.50	14.26	15.50					97.94
	11	2437	22.24	21.50	18.22	19.50	15.24	16.50	12.22	13.50	9.15	10.50	20.80	22.00	17.30	18.50	14.30	15.50			
	4	2412	21.41	21.00	17.75	19.50					10.50	10.50	22.00	18.50							
	6	2437	21.41	21.00	17.71	19.50					10.50	10.50	22.00	18.50							
	11	2437	18.85	20.50	17.35	19.50					10.50	10.50	20.50	18.50							
	1	2412	19.47	21.00	Not Required	19.50					10.50	10.50	21.00	18.50							
802.11a-H20 MCS0	6	2427	20.97	22.50		19.50				10.50	10.50	22.00	18.50								100.00
	11	2462	18.32	19.50		19.50				10.50	10.50	20.50	18.50								
	3	2422	16.01	17.50	16.01	19.50				10.50	10.50	17.50	17.50								
802.11a-H40 MCS0	6	2437	18.30	20.50	17.75	19.50				10.50	10.50	20.00	18.50								100.00
	9	2462	16.86	17.50	16.86	19.50				10.50	10.50	17.50	17.50								
802.11a-H20 MCS0	1	2412	19.56	21.00		19.50				10.50	10.50	21.00	18.50								100.00
	6	2437	21.02	20.50		19.50				10.50	10.50	22.00	18.50								
802.11a-H40 MCS0	11	2462	18.36	19.50		19.50				10.50	10.50	19.50	18.50								99.98
	9	2452	18.42	20.00		19.50				10.50	10.50	20.00	18.50								
802.11a-H40 MCS0	3	2422	16.13	17.50		17.50				10.50	10.50	17.50	17.50								99.98
	9	2462	16.13	17.50		17.50				10.50	10.50	17.50	17.50								

		Full power/Body-worn for Stationaire				Head for Stationaire		Head for Simultaneous DBS Only		Head for Simultaneous WWAN non DBS		Head for Simultaneous WWAN-DBS		Body-worn for Simultaneous DBS only		Body-worn for Simultaneous WWAN non DBS		Body-worn for Simultaneous WWAN-DBS		Hotspot for Simultaneous WWAN-DBS		Hotspot for Simultaneous WWAN-DBS		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %
802.11b Mbps	38	5180	19.54	21.00		17.50		15.50		12.50		9.50	18.48	20.00		17.00		14.00		18.00		15.00		15.00	99.23
	40	5200	19.66	21.00		17.50		15.50		12.50		9.50	18.62	20.00		17.00		14.00		18.00		15.00		15.00	
	44	5220	19.70	21.00		17.50		15.50		12.50		9.50	18.83	20.00		17.00		14.00		18.00		15.00		15.00	
	46	5240	19.80	21.00		17.50		15.50		12.50		9.50	19.06	20.00		17.00		14.00		18.00		15.00		15.00	
802.11a-H20 MCS0	38	5180	19.46	20.50		17.50		15.50		12.50		9.50	19.44	20.00		17.00		14.00		18.00		15.00		15.00	100.00
	40	5200	19.52	21.00		17.50		15.50		12.50		9.50	19.60	20.00		17.00		14.00		18.00		15.00		15.00	
	44	5220	19.50	21.00		17.50		15.50		12.50		9.50	19.80	20.00		17.00		14.00		18.00		15.00		15.00	
	46	5240	19.60	21.00		17.50		15.50		12.50		9.50	20.00	20.00		17.00		14.00		18.00		15.00		15.00	
802.11a-H40 MCS0	38	5180	17.70	19.00	Not Required	17.50	Not Required	15.50	12.50	Not Required	9.50	19.00	Not Required	17.00	14.00	Not Required	18.00	15.00	Not Required	19.00	Not Required	15.00	15.00	15.00	100.00
	46	5230	17.52	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	
	38	5180	19.81	21.00		17.50		15.50		12.50		9.50	20.00	20.00		17.00		14.00		18.00		15.00		15.00	
	40	5200	19.56	21.00		17.50		15.50		12.50		9.50	20.00	20.00		17.00		14.00		18.00		15.00		15.00	
802.11a-H20 MCS0	38	5180	17.46	19.00	Not Required	17.50	Not Required	15.50	12.50	Not Required	9.50	19.00	Not Required	17.00	14.00	Not Required	18.00	15.00	Not Required	19.00	Not Required	15.00	15.00	15.00	100.00
	46	5230	17.46	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	
	38	5180	17.73	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	
	46	5230	17.56	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	
802.11a-H40 MCS0	42	5210	17.47	19.00	15.88	17.50	13.84	15.50	10.70	12.50	7.77	9.50	19.00	15.75	17.00	12.88	14.00	16.41	16.00	13.42	15.00	15.00	15.00	99.30	
	38	5180	19.53	21.00		17.50		15.50		12.50		9.50	20.00	20.00		17.00		14.00		18.00		15.00		15.00	
	40	5200	19.61	21.00		17.50		15.50		12.50		9.50	20.00	20.00		17.00		14.00		18.00		15.00		15.00	
	44	5220	19.61	21.00		17.50		15.50		12.50		9.50	20.00	20.00		17.00		14.00		18.00		15.00		15.00	
802.11a-H20 MCS0	48	5240	19.50	21.00	Not Required	17.50	Not Required	15.50	12.50	Not Required	9.50	20.00	Not Required	17.00	14.00	Not Required	18.00	15.00	Not Required	19.00	Not Required	15.00	15.00	15.00	100.00
	48	5240	19.50	21.00		17.50		15.50		12.50		9.50	20.00	20.00		17.00		14.00		18.00		15.00		15.00	
	38	5180	17.63	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	
	46	5230	17.67	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	
802.11a-H40 MCS0	38	5180	17.63	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	99.38
	46	5230	17.67	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	
802.11a-H20 MCS0	38	5180	17.51	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	99.15
	42	5210	17.51	19.00		17.50		15.50		12.50		9.50	19.00	17.00		14.00		18.00		19.00		15.00		15.00	

		Full power/Body-worn for Stationaire/Extremity for Stationaire				Head for Stationaire		Head for Simultaneous DBS Only		Head for Simultaneous WWAN non DBS		Head for Simultaneous WWAN-DBS		Body-worn for Simultaneous DBS only		Extremity for Simultaneous WWAN non DBS		Extremity for Simultaneous WWAN-DBS		Body-worn for Simultaneous WWAN non DBS		Body-worn for Simultaneous WWAN-DBS		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %
802.11b Mbps	52	5260	19.79	21.00		17.50		15.50		12.50		9.50	18.71	20.00		15.24	20.50		17.00		14.00		14.00	99.23	
	56	5280	19.89	21.00		17.50		15.50		12.50		9.50	18.84	20.00		15.26	20.50		17.00		14.00		14.00		
	60	5300	19.96	21.00		17.50		15.50		12.50		9.50	19.00	20.00		15.28	20.50		17.00		14.00		14.00		
	64	5320	19.95	21.00		17.50		15.50		12.50		9.50	19.07	20.00		15.37	20.50		17.00		14.00		14.00		
802.11a-H20 MCS0	52	5260	19.50	21.00		17.50		15.50		12.50		9.50	20.00	20.00		15.20	20.50		17.00		14.00		14.00	100.00	
	56	5280	19.69	21.00		17.50		15.50		12.50		9.50	20.00	20.00		15.20	20.50		17.00		14.00		14.00		
	60	5300	19.67	21.00		17.50		15.50		12.50		9.50	20.00	20.00		15.20	20.50		17.00		14.00				

**BT BR/EDR** Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	11.33	10.19	10.24	12.00
	CH 39	2441	10.95	10.13	10.18	12.00
	CH 78	2480	10.44	7.39	7.40	11.50

**BLE\_1M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	10.03
	CH 19	2440	10.48
	CH 39	2480	7.54
Tune-up Limit			11.00

**BLE\_2M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	10.15
	CH 19	2440	10.34
	CH 39	2480	7.71
Tune-up Limit			11.00

**BT BR/EDR** Ant 3

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.66	5.76	5.79
	CH 39	2441	8.86	6.20	6.21
	CH 78	2480	9.21	6.67	6.69
Tune-up Limit			10.50	7.50	7.50

**BLE\_1M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	8.63
	CH 19	2440	8.86
	CH 39	2480	9.25
Tune-up Limit			10.00

**BLE\_2M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	8.70
	CH 19	2440	9.00
	CH 39	2480	9.38
Tune-up Limit			10.00