



## Full Power Mode

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	193	189	251		193	189	251	
Frequency (MHz)	824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50
GSM 1 Tx slot	32.26	32.30	32.22	33.50	23.26	23.30	23.22	24.50
GPRS 1 Tx slot	32.17	32.25	32.18	33.50	23.17	23.25	23.18	24.50
GPRS 2 Tx slots	30.71	30.81	30.74	32.00	24.71	24.81	24.74	26.00
GPRS 3 Tx slots	28.85	28.79	28.67	30.00	24.39	24.53	24.41	25.74
GPRS 4 Tx slots	26.57	26.69	26.59	27.50	23.57	23.69	23.59	24.50
EDGE 1 Tx slot	25.79	25.83	25.79	27.00	16.79	16.83	16.79	18.00
EDGE 2 Tx slots	24.85	24.94	24.88	26.00	18.85	18.94	18.88	20.00
EDGE 3 Tx slots	22.73	22.88	22.78	24.00	18.47	18.62	18.52	19.74
EDGE 4 Tx slots	20.70	20.78	20.73	22.00	17.70	17.78	17.73	18.00

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.50	1850.2	1880	1909.8	21.50
GSM 1 Tx slot	29.71	29.75	29.64	30.50	20.71	20.75	20.64	21.50
GPRS 1 Tx slot	29.65	29.70	29.58	30.50	20.65	20.70	20.58	21.50
GPRS 2 Tx slots	28.11	28.20	28.14	29.50	22.11	22.20	22.14	23.50
GPRS 3 Tx slots	26.08	26.17	26.09	27.50	21.82	21.91	21.83	23.24
GPRS 4 Tx slots	24.11	24.18	24.07	25.00	21.11	21.18	21.07	22.00
EDGE 1 Tx slot	25.55	25.58	25.48	27.00	16.55	16.58	16.48	18.00
EDGE 2 Tx slots	24.19	24.24	24.18	25.50	18.19	18.24	18.18	19.50
EDGE 3 Tx slots	22.00	22.13	22.10	23.50	17.74	17.87	17.84	19.24
EDGE 4 Tx slots	20.16	20.29	20.23	21.50	17.16	17.29	17.23	18.50

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4182	4233		
Rx Channel	9662	9800	9938	30.50	4357	4407	4458	21.50	
Frequency (MHz)	1852.4	1880	1907.6	30.50	4357	4407	4458	21.50	
3GPP Rel 99	AMR 12.2Kbps	22.55	22.58	22.45	24.00	22.54	22.67	22.53	24.00
3GPP Rel 99	RMIC 12.2Kbps	22.61	22.65	22.57	24.00	22.61	22.78	22.66	24.00
3GPP Rel 6	HSDPA Subtest-1	21.65	21.59	21.36	23.00	21.43	21.72	21.55	23.00
3GPP Rel 6	HSDPA Subtest-2	21.73	21.75	21.63	23.00	21.67	21.90	21.77	23.00
3GPP Rel 6	HSDPA Subtest-3	21.02	20.99	21.08	22.50	20.99	21.26	21.14	22.50
3GPP Rel 6	HSDPA Subtest-4	21.13	21.05	21.18	22.50	21.07	21.26	21.18	22.50
3GPP Rel 6	HSUPA Subtest-1	22.46	22.52	22.50	24.00	22.55	22.71	22.61	24.00
3GPP Rel 6	HSUPA Subtest-2	20.72	20.66	20.54	22.00	20.64	20.88	20.76	22.00
3GPP Rel 6	HSUPA Subtest-3	21.62	21.73	21.52	23.00	21.49	21.66	21.63	23.00
3GPP Rel 6	HSUPA Subtest-4	20.71	20.48	20.54	22.00	20.64	20.84	20.59	22.00
3GPP Rel 6	HSUPA Subtest-5	22.44	22.37	22.29	24.00	22.50	22.70	22.57	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.18	20.24	20.05	21.50	20.23	20.28	20.20	21.50



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.14	22.18	22.16				
10	QPSK	1	49	22.09	22.11	22.07	24	0		
20	QPSK	1	99	22.09	22.11	22.07				
20	QPSK	50	0	21.17	21.26	21.24				
20	QPSK	50	24	21.08	21.18	21.16				
20	QPSK	50	50	21.16	21.18	21.09	23	1		
20	QPSK	100	0	21.10	21.21	21.15				
20	16QAM	50	0	21.05	21.10	21.05				
20	16QAM	1	49	21.02	21.08	21.06	23	1		
20	16QAM	1	99	21.03	21.10	21.05				
20	16QAM	50	0	20.14	20.27	20.20				
20	16QAM	50	24	20.19	20.11	20.20	22	2		
20	16QAM	50	50	20.20	20.12	20.10				
20	16QAM	100	0	20.06	20.26	20.17				
20	64QAM	1	0	20.17	20.14	20.11				
20	64QAM	1	49	20.11	20.10	20.09	22	2		
20	64QAM	50	0	19.16	19.23	19.21				
20	64QAM	50	24	19.15	19.08	19.11	21	3		
20	64QAM	50	50	19.22	19.16	19.20				
20	64QAM	100	0	19.08	19.36	19.17				
20	256QAM	1	49	17.24	17.15	17.16	19	5		
20	256QAM	1	99	17.22	17.16	17.04				
20	256QAM	50	0	17.06	17.27	17.08				
20	256QAM	50	24	17.25	17.21	17.08	19	5		
20	256QAM	50	50	17.17	17.08	17.14				
20	256QAM	100	0	17.06	17.26	17.07				
Channel										
Frequency (MHz)										
19	QPSK	1	0	22.16	22.12	22.13				
10	QPSK	1	37	22.14	22.14	22.12	24	0		
10	QPSK	1	74	22.10	22.11	22.08				
10	QPSK	36	0	21.08	21.11	21.18				
10	QPSK	36	28	21.10	21.08	21.09	23	1		
10	QPSK	36	39	21.12	21.18	21.09				
10	QPSK	75	0	21.08	21.09	21.08				
10	16QAM	1	0	21.06	21.09	21.00				
15	16QAM	1	37	21.10	21.13	21.09	23	1		
15	16QAM	1	74	21.07	21.07	21.01				
15	16QAM	36	0	20.06	20.34	20.11				
15	16QAM	36	28	20.18	20.18	20.17	22	2		
15	16QAM	36	39	20.16	20.16	20.16				
15	16QAM	75	0	20.08	20.38	20.20				
15	64QAM	1	0	20.14	20.19	20.09	22	2		
15	64QAM	1	37	20.11	20.09	20.09				
15	64QAM	1	74	20.13	20.10	20.05				
15	64QAM	36	0	19.28	19.13	19.13	21	3		
15	64QAM	36	28	19.16	19.11	19.01				
15	64QAM	36	39	19.18	19.05	19.05				
15	64QAM	75	0	19.33	19.41	19.17				
15	256QAM	1	0	17.08	17.28	17.08	19	5		
15	256QAM	1	37	17.27	17.16	17.15				
15	256QAM	1	74	17.08	17.21	17.20				
15	256QAM	36	0	17.24	17.25	17.15	19	5		
15	256QAM	36	28	17.24	17.25	17.15				
15	256QAM	36	39	17.10	17.20	17.17	19	5		
15	256QAM	75	0	17.06	17.20	17.06				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.07	22.08	22.05				
10	QPSK	1	25	22.08	22.08	22.03	24	0		
10	QPSK	1	49	22.02	22.15	22.02				
10	QPSK	25	0	21.12	21.20	21.03	23	1		
10	QPSK	25	25	21.15	21.18	21.06				
10	16QAM	1	0	21.06	21.21	21.09				
10	16QAM	1	24	21.07	21.13	21.04	23	1		
10	16QAM	1	49	21.07	21.08	21.04				
10	16QAM	1	74	21.07	21.07	21.01				
10	16QAM	25	0	20.03	20.24	20.30				
10	16QAM	25	12	20.17	20.11	20.12	22	2		
10	16QAM	25	24	20.14	20.08	20.08				
10	16QAM	50	0	20.22	20.27	20.20				
10	64QAM	1	0	20.10	20.17	20.15	22	2		
10	64QAM	1	37	20.13	20.09	20.09				
10	64QAM	1	49	20.02	20.05	20.04				
10	64QAM	25	0	19.16	19.15	19.15	21	3		
10	64QAM	25	12	19.09	19.10	19.11				
10	64QAM	25	24	19.28	19.24	19.12				
10	64QAM	50	0	19.03	19.31	19.11				
10	256QAM	1	0	17.08	17.20	17.08	19	5		
10	256QAM	1	24	17.28	17.07	17.14				
10	256QAM	1	49	17.16	17.19	17.02				
10	256QAM	12	0	17.30	17.42	17.08	19	5		
10	256QAM	12	12	17.27	17.25	17.07				
10	256QAM	25	25	17.16	17.13	17.08	19	5		
10	256QAM	50	0	17.10	17.41	17.00				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.09	22.10	22.14				
3	QPSK	1	8	22.13	22.12	22.09	24	0		
3	QPSK	1	14	22.05	22.04	22.10				
3	QPSK	12	0	21.15	21.16	21.16	23	1		
3	QPSK	12	7	21.04	21.08	21.19				
3	QPSK	12	13	21.10	21.19	21.05				
3	QPSK	25	0	21.08	21.08	21.03	23	1		
3	16QAM	1	0	21.05	21.17	21.10				
3	16QAM	1	12	21.11	21.05	21.03	23	1		
3	16QAM	1	24	21.01	21.08	21.00				
3	16QAM	12	0	20.16	20.18	20.34				
3	16QAM	12	7	20.20	20.01	20.15	22	2		
3	16QAM	12	14	20.16	20.04	20.07				
3	16QAM	25	0	20.07	20.28	20.08				
3	64QAM	1	0	20.10	20.03	20.04	22	2		
3	64QAM	1	12	20.08	20.14	20.09				
3	64QAM	1	24	20.04	20.13	20.13				
3	64QAM	12	0	19.25	19.18	19.22	21	3		
3	64QAM	12	7	19.09	19.10	19.02				
3	64QAM	12	13	19.28	19.18	19.02				
3	64QAM	25	0	19.10	19.24	19.22				
3	256QAM	1	0	17.12	17.28	17.08	19	5		
3	256QAM	1	24	17.21	17.10	17.10				
3	256QAM	12	0	17.22	17.46	17.09	19	5		
3	256QAM	12	12	17.16	17.21	17.10				
3	256QAM	12	13	17.11	17.05	17.10	19	5		
3	256QAM	25	0	17.07	17.41	17.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.00	22.11	22.14				
3	QPSK	1	8	22.13	22.12	22.09	24	0		
3	QPSK	1	14	22.02	22.01	22.13				
3	QPSK	8	0	21.08	21.08	21.02	23	1		
3	QPSK	8	4	21.09	21.06	21.06				
3	QPSK	8	7	21.15	21.11	21.14				
3	QPSK	15	0	21.18	21.11	21.03	23	1		
3	16QAM	1	0	21.02	21.09	21.18				
3	16QAM	1	8	21.07	21.18	21.11	23	1		
3	16QAM	1	14	21.15	21.15	21.07				
3	16QAM	8	0	20.33	20.42	20.06				
3	16QAM	8	4	20.27	20.18	20.18	22	2		
3	16QAM	8	7	20.14	20.14	20.13				
3	16QAM	15	0	20.05	20.31	20.14				
3	16QAM	1	0	20.11	20.10	20.07	22	2		
3	64QAM	1	0	20.20	20.20	20.17				
3	64QAM	1	14	20.11	20.10	20.15				
3	64QAM	8	0	19.23	19.22	19.06	21	3		
3	64QAM	8	7	19.20	19.11	19.06				
3										



Band 5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	21.60	21.69	21.63			
10	QPSK	1	25	21.42	21.58	21.52	23	0	
10	QPSK	1	49	21.50	21.49	21.48			
10	QPSK	25	0	20.65	20.71	20.60			
10	QPSK	25	12	20.42	20.56	20.53	22	1	
10	QPSK	25	25	20.48	20.47	20.50			
10	QPSK	50	0	20.45	20.61	20.56			
10	16QAM	1	0	20.61	20.66	20.47			
10	16QAM	1	25	20.33	20.51	20.46	22	1	
10	16QAM	1	49	20.43	20.38	20.38			
10	16QAM	25	0	19.65	19.69	19.63			
10	16QAM	25	12	19.43	19.56	19.55	21	2	
10	16QAM	25	25	19.48	19.42	19.54			
10	16QAM	50	0	19.45	19.65	19.60			
10	64QAM	1	0	19.59	19.65	19.50			
10	64QAM	1	25	19.34	19.55	19.51	21	2	
10	64QAM	1	49	19.41	19.43	19.43			
10	64QAM	25	0	18.65	18.74	18.59			
10	64QAM	25	12	18.39	18.53	18.50	20	3	
10	64QAM	25	25	18.53	18.44	18.53			
10	64QAM	50	0	18.50	18.63	18.55			
10	256QAM	1	0	17.67	17.64	17.62			
10	256QAM	1	25	17.38	17.59	17.46	18	5	
10	256QAM	1	49	17.52	17.39	17.50			
10	256QAM	25	0	17.42	17.63	17.57			
10	256QAM	25	12	17.66	17.70	17.41	18	5	
10	256QAM	25	25	17.38	17.48	17.61			
10	256QAM	50	0	17.43	17.35	17.48			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.51	21.62	21.58	23	0	
5	QPSK	1	12	21.38	21.47	21.51			
5	QPSK	1	24	21.48	21.47	21.39			
5	QPSK	12	0	20.63	20.67	20.54			
5	QPSK	12	7	20.40	20.54	20.49	22	1	
5	QPSK	12	13	20.39	20.41	20.46			
5	QPSK	25	0	20.40	20.51	20.47			
5	16QAM	1	0	20.58	20.64	20.36			
5	16QAM	1	12	20.30	20.45	20.36	22	1	
5	16QAM	1	24	20.38	20.32	20.37			
5	16QAM	12	0	19.60	19.61	19.61			
5	16QAM	12	7	19.34	19.54	19.53	21	2	
5	16QAM	12	13	19.40	19.38	19.53			
5	16QAM	25	0	19.36	19.62	19.51			
5	64QAM	1	0	19.50	19.60	19.40			
5	64QAM	1	12	19.30	19.45	19.44	21	2	
5	64QAM	1	24	19.33	19.42	19.41			
5	64QAM	12	0	18.62	18.72	18.58			
5	64QAM	12	7	18.36	18.47	18.43	20	3	
5	64QAM	12	13	18.44	18.36	18.47			
5	64QAM	25	0	18.42	18.54	18.54			
5	256QAM	1	0	17.62	17.71	17.59			
5	256QAM	1	12	17.47	17.57	17.60	18	5	
5	256QAM	1	24	17.46	17.44	17.58			
5	256QAM	12	0	17.51	17.59	17.51			
5	256QAM	12	7	17.58	17.60	17.55	18	5	
5	256QAM	12	13	17.27	17.50	17.54			
5	256QAM	25	0	17.43	17.43	17.41			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	21.55	21.64	21.53	23	0	
3	QPSK	1	8	21.36	21.54	21.50			
3	QPSK	1	14	21.40	21.43	21.43			
3	QPSK	8	0	20.56	20.64	20.56	22	1	
3	QPSK	8	4	20.34	20.55	20.47			
3	QPSK	8	7	20.38	20.39	20.47			
3	QPSK	15	0	20.43	20.52	20.54			
3	16QAM	1	0	20.55	20.65	20.38			
3	16QAM	1	8	20.32	20.45	20.41	22	1	
3	16QAM	1	14	20.42	20.34	20.34			
3	16QAM	8	0	19.60	19.67	19.54			
3	16QAM	8	4	19.34	19.49	19.44			
3	16QAM	8	7	19.41	19.39	19.52	21	2	
3	16QAM	15	0	19.41	19.57	19.50			
3	64QAM	1	0	19.54	19.62	19.42			
3	64QAM	1	8	19.33	19.52	19.42	21	2	
3	64QAM	1	14	19.34	19.38	19.34			
3	64QAM	8	0	18.54	18.66	18.51			
3	64QAM	8	4	18.37	18.44	18.44	20	3	
3	64QAM	8	7	18.52	18.34	18.46			
3	64QAM	15	0	18.42	18.59	18.50			
3	256QAM	1	0	17.73	17.65	17.72			
3	256QAM	1	8	17.34	17.58	17.47	18	5	
3	256QAM	1	14	17.47	17.33	17.59			
3	256QAM	8	0	17.46	17.65	17.57			
3	256QAM	8	4	17.64	17.57	17.44	18	5	
3	256QAM	8	7	17.38	17.56	17.51			
3	256QAM	15	0	17.38	17.39	17.35			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.50	21.60	21.58	23	0	
1.4	QPSK	1	3	21.36	21.49	21.51			
1.4	QPSK	1	5	21.48	21.47	21.37			
1.4	QPSK	3	0	21.44	21.58	21.51			
1.4	QPSK	3	1	21.31	21.40	21.44	22	1	
1.4	QPSK	3	3	21.42	21.40	21.34			
1.4	QPSK	6	0	20.41	20.52	20.46			
1.4	16QAM	1	0	20.56	20.62	20.43			
1.4	16QAM	1	3	20.29	20.44	20.41	22	1	
1.4	16QAM	1	5	20.35	20.33	20.35			
1.4	16QAM	3	0	20.48	20.60	20.40			
1.4	16QAM	3	1	20.19	20.36	20.34			
1.4	16QAM	3	3	20.33	20.27	20.34	21	2	
1.4	64QAM	1	0	19.57	19.60	19.39			
1.4	64QAM	1	3	19.28	19.48	19.49			
1.4	64QAM	1	5	19.39	19.34	19.41	21	2	
1.4	64QAM	3	0	19.49	19.53	19.34			
1.4	64QAM	3	1	19.18	19.43	19.40			
1.4	64QAM	3	3	19.37	19.28	19.34			
1.4	64QAM	6	0	18.42	18.59	18.52	20	3	
1.4	256QAM	1	0	17.72	17.76	17.56			
1.4	256QAM	1	3	17.49	17.65	17.53			
1.4	256QAM	1	5	17.42	17.51	17.54			
1.4	256QAM	3	0	17.39	17.57	17.60	18	5	
1.4	256QAM	3	1	17.68	17.59	17.56			
1.4	256QAM	3	3	17.33	17.58	17.54			
1.4	256QAM	6	0	17.36	17.45	17.36	18	5	

Band 7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.55	22.72	22.62			
20	QPSK	1	49	22.45	22.61	22.54	24	0	
20	QPSK	1	99	22.49	22.55	22.50			
20	QPSK	50	0	21.67	21.92	21.62			
20	QPSK	50	24	21.57	21.88	21.58	23	1	
20	QPSK	50	50	21.60	21.82	21.60			
20	QPSK	100	0	21.78	21.82	21.71			
20	16QAM	1	0	21.62	21.90	21.60			
20	16QAM	1	49	21.47	21.81	21.54	23	1	
20	16QAM	1	99	21.57	21.76	21.58			
20	16QAM	50	0	20.68	20.95	20.65			
20	16QAM	50	24	20.56	20.89	20.62	22	2	
20	16QAM	50	50	20.57	20.85	20.63			
20	16QAM	100	0	20.77	20.87	20.73			
20	64QAM	1	0	20.58	20.88	20.57			
20	64QAM	1	49	20.44	20.83	20.57	22	2	
20	64QAM	1	99	20.54	20.76	20.58			
20	64QAM	50	0	19.64	19.90	19.59			
20	64QAM	50	24	19.54	19.85	19.59	21	3	
20	64QAM	50	50	19.64	19.82	19.56			
20	64QAM	100	0	19.79	19.84	19.69			
20	256QAM	1	0	18.78	18.86	18.68			
20	256QAM	1	49	18.55	18.98	18.65	19	5	
20	256QAM	1	99	18.53	18.91	18.65			
20	256QAM	50	0	18.71	18.86	18.70			
20	256QAM	50	24	18.58	18.83	18.55	19	5	
20	256QAM	50	50	18.45	18.77	18.62			
20	256QAM	100	0	18.46	18.79	18.54			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.49	22.65	22.61			
15	QPSK	1	37	22.43	22.58	22.51	24	0	
15	QPSK	1	74	22.42	22.49	22.43			
15	QPSK	36	0	21.58	21.84	21.55			
15	QPSK	36	20	21.58	21.80	21.53	23	1	
15	QPSK	36	39	21.68	21.81	21.61			
15	QPSK	75	0	21.76	2				



### Band 28 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37850	38000	38150		
20	QPSK	1	0	25.20	25.65	26.10		
20	QPSK	1	0	23.20	23.26	23.18		
20	QPSK	1	0	23.16	23.23	23.13		
20	QPSK	1	99	23.11	23.15	23.08		
20	QPSK	50	0	22.21	22.28	22.18		
20	QPSK	50	24	22.21	22.23	22.12		
20	QPSK	50	50	22.15	22.13	22.12		
20	QPSK	100	0	22.19	22.26	22.16		
20	16QAM	1	0	22.13	22.23	22.08		
20	16QAM	1	49	22.17	22.14	22.05		
20	16QAM	1	99	22.09	22.10	22.07		
20	16QAM	50	0	21.22	21.30	21.18		
20	16QAM	50	24	21.26	21.23	21.12		
20	16QAM	50	50	21.11	21.09	21.12		
20	16QAM	100	0	21.23	21.22	21.19		
20	16QAM	1	0	21.10	21.26	21.10		
20	64QAM	1	49	21.19	21.14	21.08		
20	64QAM	1	99	21.13	21.10	21.04		
20	64QAM	50	0	20.22	20.24	20.15		
20	64QAM	50	24	20.22	20.25	20.14		
20	64QAM	50	50	20.13	20.17	20.11		
20	64QAM	100	0	20.15	20.22	20.19		
20	256QAM	1	49	18.08	18.24	18.07		
20	256QAM	1	99	18.09	18.08	18.02		
20	256QAM	50	0	18.17	18.28	18.03		
20	256QAM	50	24	18.08	18.29	18.02		
20	256QAM	50	50	18.16	18.14	18.07		
20	256QAM	100	0	18.02	18.03	18.06		
Channel								
Frequency (MHz)				37715	37965	38215		
15	QPSK	1	0	23.13	23.18	23.12		
15	QPSK	1	31	23.17	23.15	23.07		
15	QPSK	1	74	23.08	23.06	23.01		
15	QPSK	36	0	22.20	22.25	22.06		
15	QPSK	36	24	22.19	22.15	22.07		
15	QPSK	36	39	22.06	22.07	22.06		
15	QPSK	75	0	22.08	22.22	22.12		
15	16QAM	1	0	22.11	22.19	22.09		
15	16QAM	1	31	22.15	22.04	22.00		
15	16QAM	1	74	22.05	22.01	21.92		
15	16QAM	36	0	21.21	21.27	21.11		
15	16QAM	36	24	21.23	21.19	21.08		
15	16QAM	36	39	21.00	21.08	21.00		
15	16QAM	75	0	21.21	21.13	21.17		
15	64QAM	1	0	20.15	20.15	20.06		
15	64QAM	1	31	20.18	20.23	20.09		
15	64QAM	1	74	20.12	20.17	20.07		
15	64QAM	36	0	20.15	20.15	20.06		
15	64QAM	36	24	20.18	20.23	20.09		
15	64QAM	36	39	20.09	20.11	20.08		
15	64QAM	75	0	20.13	20.11	20.15		
15	256QAM	1	0	18.12	18.13	18.12		
15	256QAM	1	37	18.21	18.21	18.15		
15	256QAM	1	74	18.12	18.15	18.09		
15	256QAM	36	0	18.18	18.13	18.12		
15	256QAM	36	20	18.09	18.34	18.14		
15	256QAM	36	39	18.16	18.13	17.99		
15	256QAM	75	0	18.11	18.03	18.12		
Channel								
Frequency (MHz)				37600	38000	38200		
10	QPSK	1	0	23.15	23.05	23.15		
10	QPSK	1	0	23.15	23.22	23.14		
10	QPSK	1	49	23.04	23.09	23.02		
10	QPSK	25	0	22.11	22.26	22.02		
10	QPSK	25	24	22.11	22.21	22.05		
10	QPSK	25	25	22.11	22.09	22.04		
10	QPSK	50	0	22.13	22.21	22.14		
10	16QAM	1	0	22.08	22.20	22.06		
10	16QAM	1	24	22.02	22.12	21.98		
10	16QAM	1	49	22.00	22.01	22.01		
10	16QAM	25	0	21.18	21.21	21.07		
10	16QAM	25	12	21.13	21.15	21.06		
10	16QAM	25	25	21.06	21.05	21.04		
10	16QAM	50	0	21.17	21.18	21.17		
10	16QAM	50	24	21.00	21.21	21.00		
10	16QAM	50	49	21.17	21.07	21.02		
10	16QAM	1	49	21.06	21.06	20.94		
10	64QAM	1	0	20.11	20.16	20.15		
10	64QAM	1	12	20.09	20.24	20.05		
10	64QAM	25	0	20.05	20.07	20.05		
10	256QAM	1	0	18.09	18.26	18.05		
10	256QAM	1	25	18.11	18.16	18.21		
10	256QAM	1	49	18.18	18.00	18.20		
10	256QAM	25	0	18.14	18.13	18.17		
10	256QAM	25	12	18.06	18.33	18.02		
10	256QAM	25	25	18.29	18.22	18.10		
10	256QAM	50	0	18.11	18.03	18.12		
Channel								
Frequency (MHz)				37715	38000	38200		
5	QPSK	1	0	23.20	23.19	23.11		
5	QPSK	1	0	23.13	23.15	23.09		
5	QPSK	1	24	23.07	23.13	22.97		
5	QPSK	12	0	22.12	22.26	22.11		
5	QPSK	12	7	22.11	22.22	22.06		
5	QPSK	12	13	22.09	22.08	22.02		
5	QPSK	25	0	22.08	22.24	22.10		
5	16QAM	1	12	22.09	22.09	22.00		
5	16QAM	1	24	22.04	22.03	21.99		
5	16QAM	12	0	21.13	21.24	21.12		
5	16QAM	12	7	21.14	21.14	21.04		
5	16QAM	12	13	21.08	21.08	21.02		
5	16QAM	25	0	21.20	21.17	21.15		
5	16QAM	25	0	21.07	21.16	21.03		
5	64QAM	1	12	21.14	21.06	20.99		
5	64QAM	1	24	21.08	21.09	20.97		
5	64QAM	12	0	20.21	20.19	20.12		
5	64QAM	12	7	20.12	20.21	20.08		
5	64QAM	12	13	20.07	20.13	20.09		
5	64QAM	25	0	20.09	20.17	20.10		
5	256QAM	1	0	18.15	18.33	18.24		
5	256QAM	1	12	18.15	18.29	18.20		
5	256QAM	1	24	18.09	18.04	18.11		
5	256QAM	12	0	18.21	18.25	18.20		
5	256QAM	12	7	18.04	18.26	18.12		
5	256QAM	12	13	18.20	18.19	17.99		
5	256QAM	25	0	18.11	18.08	18.07		

### Band 41 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				39750	40185	40620		
20	QPSK	1	0	22.83	22.78	22.97		
20	QPSK	1	0	22.76	22.76	22.82		
20	QPSK	1	99	22.84	22.71	22.93		
20	QPSK	50	0	21.86	21.77	21.95		
20	QPSK	50	24	21.78	21.74	21.84		
20	QPSK	50	50	21.85	21.74	21.91		
20	QPSK	100	0	21.74	21.71	21.82		
20	16QAM	1	0	21.79	21.70	21.84		
20	16QAM	1	49	21.66	21.61	21.77		
20	16QAM	1	99	21.81	21.83	21.83		
20	16QAM	50	0	20.84	20.81	20.95		
20	16QAM	50	24	20.79	20.66	20.83		
20	16QAM	50	50	20.84	20.77	20.91		
20	16QAM	100	0	20.78	20.66	20.91		
20	64QAM	1	0	20.83	20.75	20.80		
20	64QAM	1	49	20.64	20.65	20.74		
20	64QAM	1	99	20.54	20.65	20.74		
20	64QAM	50	0	19.88	19.88	19.95		
20	64QAM	50	24	19.82	19.79	19.84		
20	64QAM	50	50	19.87	19.77	19.86		
20	64QAM	100	0	19.69	19.74	19.86		
20	256QAM	1	49	17.81	17.75	17.80		
20	256QAM	1	99	17.70	17.79	17.87		
20	256QAM	50	0	17.87	17.77	17.87		
20	256QAM	50	24	17.74	17.73	17.83		
20	256QAM	50	50	17.60	17.73	17.78		
20	256QAM	100	0	17.86	17.69	17.73		
Channel								
Frequency (MHz)				39615	40185	40620		
15	QPSK	1	0	22.76	22.74	22.84		
15	QPSK	1	0	22.68				



Band 42 Part27Q Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	22.23	22.29	22.21	24	0	
20	QPSK	1	49	22.16	22.25	22.15			
20	QPSK	1	99	22.11	22.18	22.12			
20	QPSK	50	0	21.26	21.31	21.24			
20	QPSK	50	24	21.12	21.21	21.13			
20	QPSK	50	50	21.15	21.14	21.08	23	1	
20	QPSK	100	0	21.15	21.27	21.13			
20	16QAM	1	0	21.24	21.23	21.14			
20	16QAM	1	49	21.07	21.16	21.03	23	1	
20	16QAM	1	99	21.07	21.04	21.16			
20	16QAM	50	0	20.28	20.32	20.24			
20	16QAM	50	24	20.14	20.24	20.16	22	2	
20	16QAM	50	50	20.17	20.16	20.11			
20	16QAM	100	0	20.18	20.25	20.09			
20	64QAM	1	0	20.24	20.19	20.14			
20	64QAM	1	49	20.06	20.17	20.07	22	2	
20	64QAM	1	99	20.09	20.06	20.15			
20	64QAM	50	0	19.29	19.30	19.26			
20	64QAM	50	24	19.09	19.25	19.13			
20	64QAM	50	50	19.18	19.11	19.09	21	3	
20	64QAM	100	0	19.20	19.27	19.16			
20	256QAM	1	0	17.31	17.34	17.16			
20	256QAM	1	49	17.18	17.16	17.24	19	5	
20	256QAM	1	99	17.22	17.09	17.17			
20	256QAM	50	0	17.24	17.24	17.00			
20	256QAM	50	24	17.30	17.10	17.14	19	5	
20	256QAM	50	50	17.14	17.21	17.11			
20	256QAM	100	0	17.16	17.02	17.10			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	22.13	22.23	22.12	24	0	
15	QPSK	1	37	22.11	22.15	22.04			
15	QPSK	1	74	22.05	22.05	22.01			
15	QPSK	36	0	21.22	21.24	21.14			
15	QPSK	36	20	21.10	21.16	21.08			
15	QPSK	36	39	21.06	21.01	21.09	23	1	
15	QPSK	75	0	21.03	21.15	21.09			
15	16QAM	1	0	21.18	21.17	21.09			
15	16QAM	1	37	21.10	21.03	21.05	23	1	
15	16QAM	1	74	21.04	21.08	21.12			
15	16QAM	36	0	20.23	20.23	20.16			
15	16QAM	36	20	20.07	20.14	20.09	22	2	
15	16QAM	36	39	20.11	20.03	20.04			
15	16QAM	75	0	20.06	20.15	20.11			
15	64QAM	1	0	20.12	20.11	20.04			
15	64QAM	1	37	20.13	20.08	20.11	22	2	
15	64QAM	1	74	20.05	20.10	20.04			
15	64QAM	36	0	19.20	19.24	19.22			
15	64QAM	36	20	19.04	19.13	19.01			
15	64QAM	36	39	19.11	19.05	19.12	21	3	
15	64QAM	75	0	19.13	19.14	19.07			
15	256QAM	1	0	17.34	17.24	17.30			
15	256QAM	1	37	17.13	17.33	17.16	19	5	
15	256QAM	1	74	17.11	17.21	17.03			
15	256QAM	36	0	17.19	17.28	17.07			
15	256QAM	36	20	17.27	17.14	17.24	19	5	
15	256QAM	36	39	17.16	17.18	17.01			
15	256QAM	75	0	17.17	17.07	17.05			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	22.13	22.21	22.10	24	0	
10	QPSK	1	25	22.03	22.14	22.04			
10	QPSK	1	49	22.03	22.13	22.05			
10	QPSK	25	0	21.20	21.21	21.12			
10	QPSK	25	12	21.07	21.16	21.08			
10	QPSK	25	25	21.06	21.08	21.01	23	1	
10	QPSK	50	0	21.06	21.16	21.08			
10	16QAM	1	0	21.18	21.11	21.05			
10	16QAM	1	25	21.04	21.07	21.11	23	1	
10	16QAM	1	49	21.10	21.09	21.06			
10	16QAM	25	0	20.19	20.23	20.18			
10	16QAM	25	12	20.05	20.10	20.05	22	2	
10	16QAM	25	25	20.04	20.05	20.03			
10	16QAM	50	0	20.12	20.14	20.03			
10	64QAM	1	0	20.18	20.12	20.08			
10	64QAM	1	25	20.11	20.09	20.10	22	2	
10	64QAM	1	49	20.10	20.12	20.04			
10	64QAM	25	0	19.24	19.17	19.20			
10	64QAM	25	12	19.01	19.12	19.09			
10	64QAM	25	25	19.13	19.05	19.08	21	3	
10	64QAM	50	0	19.16	19.19	19.03			
10	256QAM	1	0	17.22	17.29	17.30			
10	256QAM	1	25	17.20	17.17	17.14	19	5	
10	256QAM	1	49	17.10	17.21	17.18			
10	256QAM	25	0	17.23	17.31	17.02			
10	256QAM	25	12	17.19	17.11	17.05	19	5	
10	256QAM	25	25	17.13	17.13	17.01			
10	256QAM	50	0	17.02	17.01	17.12			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	22.15	22.25	22.07	24	0	
5	QPSK	1	12	22.12	22.11	22.07			
5	QPSK	1	24	22.02	22.07	22.08			
5	QPSK	12	0	21.21	21.25	21.14			
5	QPSK	12	7	21.02	21.16	21.05			
5	QPSK	12	13	21.01	21.05	21.14	23	1	
5	QPSK	25	0	21.02	21.16	21.06			
5	16QAM	1	0	21.19	21.15	21.09			
5	16QAM	1	12	21.09	21.02	21.10	23	1	
5	16QAM	1	24	21.07	21.08	21.11			
5	16QAM	12	0	20.19	20.18	20.17			
5	16QAM	12	7	20.01	20.14	20.10	22	2	
5	16QAM	12	13	20.05	20.04	20.04			
5	16QAM	25	0	20.10	20.20	20.13			
5	64QAM	1	0	20.16	20.13	20.03			
5	64QAM	1	12	20.01	20.08	20.10	22	2	
5	64QAM	1	24	20.02	20.15	20.07			
5	64QAM	12	0	19.18	19.24	19.14			
5	64QAM	12	7	19.14	19.17	19.01			
5	64QAM	12	13	19.07	19.02	19.01	21	3	
5	64QAM	25	0	19.07	19.14	19.09			
5	256QAM	1	0	17.22	17.42	17.27			
5	256QAM	1	12	17.22	17.33	17.10	19	5	
5	256QAM	1	24	17.16	17.15	17.03			
5	256QAM	12	0	17.16	17.34	17.03			
5	256QAM	12	7	17.14	17.28	17.15	19	5	
5	256QAM	12	13	17.10	17.16	17.08			
5	256QAM	25	0	17.13	17.13	17.23			



Band 7 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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.23	22.28	22.25	24	0	
20	QPSK	1	49	22.16	22.21	22.20			
20	QPSK	1	99	22.12	22.15	22.17			
20	QPSK	50	0	21.19	21.30	21.22	23	1	
20	QPSK	50	24	21.14	21.16	21.19			
20	QPSK	50	50	21.07	21.14	21.13			
20	QPSK	100	0	21.16	21.17	21.15	23	1	
20	16QAM	1	0	21.11	21.16	21.10			
20	16QAM	1	49	21.02	21.05	21.08			
20	16QAM	1	99	21.03	21.05	21.09	22	2	
20	16QAM	50	0	20.22	20.32	20.23			
20	16QAM	50	24	20.13	20.11	20.20			
20	16QAM	50	50	20.04	20.15	20.12	22	2	
20	16QAM	100	0	20.11	20.19	20.15			
20	64QAM	1	0	20.14	20.11	20.11			
20	64QAM	1	49	20.01	20.03	20.12	22	2	
20	64QAM	1	99	20.10	20.08	20.13			
20	64QAM	50	0	19.18	19.27	19.21			
20	64QAM	50	24	19.12	19.18	19.24	21	3	
20	64QAM	50	50	19.02	19.10	19.11			
20	64QAM	100	0	19.19	19.18	19.14			
20	256QAM	1	0	17.21	17.28	17.16	19	5	
20	256QAM	1	49	17.03	17.04	17.28			
20	256QAM	1	99	17.10	17.15	17.05			
20	256QAM	50	0	17.20	17.12	17.10	19	5	
20	256QAM	50	24	17.13	17.15	17.03			
20	256QAM	50	50	17.05	17.11	17.20			
20	256QAM	100	0	17.13	17.04	17.15			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.13	22.19	22.14	24	0	
15	QPSK	1	37	22.06	22.11	22.13			
15	QPSK	1	74	22.10	22.03	22.09			
15	QPSK	36	0	21.06	21.21	21.09	23	1	
15	QPSK	36	20	21.10	21.11	21.14			
15	QPSK	36	39	21.06	21.04	21.08			
15	QPSK	75	0	21.04	21.11	21.09	23	1	
15	16QAM	1	0	21.01	21.05	21.07			
15	16QAM	1	37	21.13	21.08	21.06			
15	16QAM	1	74	21.18	21.05	21.04	22	2	
15	16QAM	36	0	20.17	20.20	20.13			
15	16QAM	36	20	20.11	20.03	20.08			
15	16QAM	36	39	20.10	20.11	20.01	22	2	
15	16QAM	75	0	20.01	20.12	20.02			
15	64QAM	1	0	20.04	20.04	20.03			
15	64QAM	1	37	20.07	20.12	20.03	22	2	
15	64QAM	1	74	20.06	20.03	20.10			
15	64QAM	36	0	19.09	19.16	19.09			
15	64QAM	36	20	19.02	19.06	19.20	21	3	
15	64QAM	36	39	19.12	19.02	19.03			
15	64QAM	75	0	19.06	19.14	19.02			
15	256QAM	1	0	17.22	17.28	17.26	19	5	
15	256QAM	1	37	17.19	17.17	17.17			
15	256QAM	1	74	17.01	17.14	17.08			
15	256QAM	36	0	17.08	17.29	17.07	19	5	
15	256QAM	36	20	17.07	17.01	17.08			
15	256QAM	36	39	17.05	17.09	17.03			
15	256QAM	75	0	17.11	17.14	17.06			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.11	22.23	22.11	24	0	
10	QPSK	1	25	22.15	22.18	22.14			
10	QPSK	1	49	22.11	22.04	22.16			
10	QPSK	25	0	21.18	21.33	21.13	23	1	
10	QPSK	25	12	21.15	21.07	21.06			
10	QPSK	25	25	21.06	21.06	21.10			
10	QPSK	50	0	21.16	21.13	21.14	23	1	
10	16QAM	1	0	21.15	21.19	21.15			
10	16QAM	1	25	21.03	21.14	21.11			
10	16QAM	1	49	21.04	21.10	21.11	22	2	
10	16QAM	25	0	20.19	20.35	20.15			
10	16QAM	25	12	20.11	20.03	20.13			
10	16QAM	25	25	20.06	20.18	20.17	22	2	
10	16QAM	50	0	20.11	20.13	20.09			
10	64QAM	1	0	20.06	20.14	20.12			
10	64QAM	1	25	20.07	20.07	20.01	22	2	
10	64QAM	1	49	20.15	20.11	20.04			
10	64QAM	25	0	19.03	19.26	19.12			
10	64QAM	25	12	19.15	19.21	19.21	21	3	
10	64QAM	25	25	19.07	19.10	19.08			
10	64QAM	50	0	19.14	19.15	19.04			
10	256QAM	1	0	17.29	17.34	17.23	19	5	
10	256QAM	1	25	17.09	17.06	17.20			
10	256QAM	1	49	17.15	17.25	17.11			
10	256QAM	25	0	17.11	17.26	17.08	19	5	
10	256QAM	25	12	17.17	17.18	17.04			
10	256QAM	25	25	17.10	17.00	17.15			
10	256QAM	50	0	17.19	17.17	17.12			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.11	22.25	22.11	24	0	
5	QPSK	1	12	22.01	22.13	22.16			
5	QPSK	1	24	22.15	22.18	22.20			
5	QPSK	12	0	21.15	21.23	21.22	23	1	
5	QPSK	12	7	21.17	21.17	21.21			
5	QPSK	12	13	21.11	21.03	21.10			
5	QPSK	25	0	21.02	21.21	21.12	23	1	
5	16QAM	1	0	21.12	21.14	21.03			
5	16QAM	1	12	21.07	21.03	21.05			
5	16QAM	1	24	21.05	21.10	21.14	22	2	
5	16QAM	12	0	20.16	20.19	20.28			
5	16QAM	12	7	20.12	20.07	20.22			
5	16QAM	12	13	20.10	20.01	20.09	22	2	
5	16QAM	25	0	20.11	20.18	20.01			
5	64QAM	1	0	20.04	20.12	20.14			
5	64QAM	1	12	20.11	20.10	20.14	22	2	
5	64QAM	1	24	20.13	20.17	20.15			
5	64QAM	12	0	19.16	19.22	19.06			
5	64QAM	12	7	19.16	19.10	19.14	21	3	
5	64QAM	12	13	19.07	19.01	19.12			
5	64QAM	25	0	19.11	19.04	19.12			
5	256QAM	1	0	17.12	17.34	17.16	19	5	
5	256QAM	1	12	17.16	17.07	17.21			
5	256QAM	1	24	17.07	17.09	17.17			
5	256QAM	12	0	17.16	17.14	17.17	19	5	
5	256QAM	12	7	17.04	17.18	17.04			
5	256QAM	12	13	17.05	17.02	17.10			
5	256QAM	25	0	17.12	17.11	17.10			

## Reduced Power Mode for DSI2 Standalone

GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM 1 Tx slot	32.26	32.30	32.22	33.50	23.26	23.30	23.22	24.50
GPRS 1 Tx slots	32.17	32.25	32.18	33.50	23.17	23.25	23.18	24.50
GPRS 2 Tx slots	30.71	30.81	30.74	32.00	24.71	24.81	24.74	26.00
GPRS 3 Tx slots	28.65	28.79	28.67	30.00	24.38	24.53	24.41	25.74
GPRS 4 Tx slots	26.57	26.69	26.59	27.50	23.57	23.69	23.59	24.50
EDGE 1 Tx slot	25.79	25.83	25.79	27.00	16.79	16.83	16.79	18.00
EDGE 2 Tx slots	24.85	24.94	24.88	26.00	18.85	18.94	18.88	20.00
EDGE 3 Tx slots	22.73	22.88	22.78	24.00	18.47	18.62	18.52	19.74
EDGE 4 Tx slots	20.70	20.79	20.73	22.00	17.70	17.79	17.73	19.00

GSM1800 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.71	29.75	29.64	30.50	20.71	20.75	20.64	21.50
GPRS 1 Tx slot	29.65	29.70	29.58	30.50	20.65	20.70	20.58	21.50
GPRS 2 Tx slots	28.11	28.20	28.14	29.50	22.11	22.20	22.14	23.50
GPRS 3 Tx slots	26.08	26.17	26.09	27.50	21.82	21.91	21.83	23.24
GPRS 4 Tx slots	24.11	24.18	24.07	25.00	21.11	21.18	21.07	22.00
EDGE 1 Tx slot	25.55	25.58	25.48	27.00	16.55	16.58	16.48	18.00
EDGE 2 Tx slots	24.19	24.24	24.18	25.50	18.19	18.24	18.18	19.50
EDGE 3 Tx slots	22.00	22.13	22.10	23.50	17.74	17.87	17.84	19.24
EDGE 4 Tx slots	20.18	20.29	20.23	21.50	17.16	17.29	17.23	18.50

Band TX Channel Rx Channel Frequency (MHz)	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		4132	4182	4233	
3GPP Rel 99	22.55	22.58	22.49	24.00	22.54	22.67	22.53	24.00
3GPP Rel 99	22.61	22.65	22.57	24.00	22.61	22.78	22.66	24.00
3GPP Rel 6	21.65	21.59	21.36	23.00	21.43	21.72	21.55	23.00
3GPP Rel 6	21.73	21.75	21.63	23.00	21.67	21.90	21.77	23.00
3GPP Rel 6	21.02	20.99	21.08	22.50	20.99	21.28	21.14	22.50
3GPP Rel 6	21.13	21.05	21.18	22.50	21.07	21.28	21.18	22.50
3GPP Rel 6	22.46	22.52	22.60	24.00	22.55	22.71	22.61	24.00
3GPP Rel 6	20.72	20.66	20.54	22.00	20.64	20.88	20.76	22.00
3GPP Rel 6	21.62	21.73	21.52	23.00	21.49	21.66	21.63	23.00
3GPP Rel 6	20.71	20.48	20.54	22.00	20.64	20.84	20.59	22.00
3GPP Rel 6	22.44	22.37	22.29	24.00	22.50	22.70	22.57	24.00
3GPP Rel 7	20.18	20.24	20.05	21.50	20.23	20.28	20.20	21.50



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
1860 1860 1900										
20	QPSK	1	0	22.14	22.18	22.16				
10	QPSK	1	49	22.09	22.11	22.07	24	0		
20	QPSK	1	99	22.09	22.11	22.07				
20	QPSK	50	0	21.17	21.26	21.24				
20	QPSK	50	24	21.08	21.08	21.08				
20	QPSK	50	50	21.16	21.16	21.09	23	1		
20	QPSK	100	0	21.19	21.21	21.15				
20	16QAM	50	0	21.05	21.05	21.05				
20	16QAM	1	49	21.02	21.08	21.06	23	1		
20	16QAM	1	99	21.03	21.10	21.05				
20	16QAM	50	0	20.14	20.27	20.20				
20	16QAM	50	24	20.19	20.11	20.20	22	2		
20	16QAM	50	50	20.20	20.12	20.10				
20	16QAM	100	0	20.06	20.06	20.17				
20	64QAM	1	0	20.17	20.14	20.11				
20	64QAM	1	49	20.11	20.10	20.09	22	2		
20	64QAM	50	0	20.16	20.03	20.11				
20	64QAM	1	99	19.23	19.24	19.21				
20	64QAM	50	24	19.15	19.09	19.11	21	3		
20	64QAM	50	50	19.22	19.16	19.20				
20	64QAM	100	0	19.08	19.36	19.17				
20	256QAM	1	49	17.24	17.15	17.16	19	5		
20	256QAM	1	99	17.22	17.16	17.04				
20	256QAM	50	0	17.06	17.22	17.06				
20	256QAM	50	24	17.25	17.21	17.08	19	5		
20	256QAM	50	50	17.17	17.08	17.14				
20	256QAM	100	0	17.06	17.06	17.06				
Channel										
1867.5 1860 1902.5										
15	QPSK	1	0	22.16	22.12	22.13				
15	QPSK	1	37	22.14	22.14	22.12	24	0		
15	QPSK	1	74	22.10	22.11	22.08				
15	QPSK	36	0	21.06	21.11	21.18				
15	QPSK	36	24	21.10	21.08	21.09	23	1		
15	QPSK	36	39	21.12	21.19	21.09				
15	QPSK	75	0	21.08	21.08	21.08				
15	16QAM	1	0	21.06	21.06	21.06				
15	16QAM	1	37	21.10	21.13	21.09	23	1		
15	16QAM	1	74	21.07	21.07	21.07				
15	16QAM	36	0	20.06	20.11	20.11				
15	16QAM	36	24	20.18	20.18	20.17	22	2		
15	16QAM	36	39	20.06	20.04	20.11				
15	16QAM	75	0	20.08	20.08	20.20				
15	64QAM	1	0	20.14	20.19	20.09	22	2		
15	64QAM	1	37	20.11	20.09	20.09				
15	64QAM	1	74	20.13	20.10	20.05				
15	64QAM	36	0	19.28	19.13	19.13	21	3		
15	64QAM	36	24	19.26	19.11	19.07				
15	64QAM	36	39	19.18	19.05	19.05				
15	64QAM	75	0	19.33	19.41	19.17				
15	256QAM	1	0	17.06	17.06	17.06	19	5		
15	256QAM	1	37	17.27	17.15	17.15				
15	256QAM	1	74	17.08	17.21	17.20				
15	256QAM	36	0	17.06	17.06	17.06	19	5		
15	256QAM	36	24	17.24	17.25	17.15				
15	256QAM	36	39	17.10	17.20	17.17	19	5		
15	256QAM	75	0	17.06	17.06	17.06				
Channel										
1865 1860 1905										
10	QPSK	1	0	22.07	22.08	22.07				
10	QPSK	1	25	22.08	22.08	22.03	24	0		
10	QPSK	1	49	22.02	22.15	22.02				
10	QPSK	25	0	21.12	21.20	21.03	23	1		
10	QPSK	25	25	21.15	21.18	21.06				
10	16QAM	1	0	21.06	21.06	21.06				
10	16QAM	1	24	21.06	21.21	21.09	23	1		
10	16QAM	1	49	21.07	21.07	21.07				
10	16QAM	25	0	20.03	20.24	20.30				
10	16QAM	25	12	20.17	20.11	20.12	22	2		
10	16QAM	25	24	20.14	20.08	20.08				
10	16QAM	50	0	20.22	20.27	20.20				
10	64QAM	1	0	20.10	20.17	20.15	22	2		
10	64QAM	1	37	20.13	20.09	20.09				
10	64QAM	1	49	20.02	20.05	20.04				
10	64QAM	25	0	19.16	19.15	19.15	21	3		
10	64QAM	25	12	19.09	19.10	19.11				
10	64QAM	25	24	19.28	19.24	19.12				
10	64QAM	50	0	19.03	19.31	19.11				
10	256QAM	1	0	17.06	17.06	17.06	19	5		
10	256QAM	1	24	17.28	17.07	17.14				
10	256QAM	1	49	17.16	17.19	17.02				
10	256QAM	12	0	17.30	17.42	17.08				
10	256QAM	12	12	17.27	17.25	17.07	19	5		
10	256QAM	25	25	17.19	17.13	17.08	19	5		
10	256QAM	50	0	17.10	17.01	17.00				
Channel										
1862.5 1860 1917.5										
5	QPSK	1	0	22.07	22.08	22.07				
5	QPSK	1	12	22.05	22.11	22.07	24	0		
5	QPSK	1	24	22.05	22.04	22.10				
5	QPSK	12	0	21.14	21.14	21.14	23	1		
5	QPSK	12	12	21.10	21.19	21.05				
5	QPSK	25	0	21.08	21.08	21.08				
5	16QAM	1	0	21.05	21.17	21.12	23	1		
5	16QAM	1	12	21.11	21.05	21.03				
5	16QAM	1	24	21.01	21.08	21.08				
5	16QAM	12	0	20.16	20.18	20.34				
5	16QAM	12	7	20.20	20.01	20.15	22	2		
5	16QAM	12	14	20.16	20.04	20.07				
5	16QAM	25	0	20.07	20.28	20.08				
5	64QAM	1	0	20.10	20.03	20.04	22	2		
5	64QAM	1	12	20.08	20.14	20.09				
5	64QAM	1	24	20.04	20.13	20.13				
5	64QAM	12	0	19.25	19.10	19.22	21	3		
5	64QAM	12	7	19.09	19.10	19.08				
5	64QAM	12	14	19.28	19.16	19.22				
5	64QAM	25	0	19.10	19.24	19.22				
5	256QAM	1	0	17.12	17.09	17.02	19	5		
5	256QAM	1	12	17.21	17.10	17.07				
5	256QAM	12	0	17.22	17.46	17.09				
5	256QAM	12	12	17.16	17.21	17.10	19	5		
5	256QAM	25	25	17.11	17.05	17.10				
5	256QAM	50	0	17.07	17.01	17.12				
Channel										
1865 1860 1915										
3	QPSK	1	0	22.09	22.15	22.14				
3	QPSK	1	8	22.13	22.12	22.09	24	0		
3	QPSK	1	14	22.02	22.01	22.13				
3	QPSK	8	0	21.08	21.08	21.02	23	1		
3	QPSK	8	4	21.09	21.06	21.06				
3	QPSK	8	7	21.15	21.11	21.14				
3	QPSK	15	0	21.18	21.11	21.03	23	1		
3	16QAM	1	0	21.02	21.09	21.18				
3	16QAM	1	8	21.07	21.18	21.11	23	1		
3	16QAM	1	14	21.15	21.19	21.07				
3	16QAM	8	0	20.33	20.42	20.06	22	2		
3	16QAM	8	4	20.27	20.18	20.18				
3	16QAM	15	0	20.14	20.14	20.13				
3	16QAM	15	0	20.05	20.31	20.14				
3	64QAM	1	0	20.11	20.10	20.07	22	2		
3	64QAM	1	8	20.20	20.09	20.17				
3	64QAM	1	14	20.11	20.10	20.15				
3	64QAM	8	0	19.23	19.22	19.06	21	3		
3	64QAM	8	4	19.14	19.14	19.10				
3	64QAM	8	7	19.20						





Band 5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	21.60	21.69	21.63			
10	QPSK	1	25	21.42	21.58	21.52	23	0	
10	QPSK	1	49	21.50	21.49	21.48			
10	QPSK	25	0	20.65	20.71	20.60			
10	QPSK	25	12	20.42	20.56	20.53	22	1	
10	QPSK	25	25	20.48	20.47	20.50			
10	QPSK	50	0	20.45	20.61	20.56			
10	16QAM	1	0	20.61	20.66	20.47			
10	16QAM	1	25	20.33	20.51	20.46	22	1	
10	16QAM	1	49	20.43	20.38	20.38			
10	16QAM	25	0	19.65	19.69	19.63			
10	16QAM	25	12	19.43	19.56	19.55	21	2	
10	16QAM	25	25	19.48	19.42	19.54			
10	16QAM	50	0	19.45	19.65	19.60			
10	64QAM	1	0	19.59	19.65	19.50			
10	64QAM	1	25	19.34	19.55	19.51	21	2	
10	64QAM	1	49	19.41	19.43	19.43			
10	64QAM	25	0	18.65	18.74	18.59			
10	64QAM	25	12	18.39	18.53	18.50	20	3	
10	64QAM	25	25	18.53	18.44	18.53			
10	64QAM	50	0	18.50	18.63	18.55			
10	256QAM	1	0	17.67	17.64	17.62			
10	256QAM	1	25	17.38	17.59	17.46	18	5	
10	256QAM	1	49	17.52	17.39	17.50			
10	256QAM	25	0	17.42	17.63	17.57			
10	256QAM	25	12	17.66	17.70	17.41	18	5	
10	256QAM	25	25	17.38	17.48	17.61			
10	256QAM	50	0	17.43	17.35	17.48			
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.51	21.62	21.58			
5	QPSK	1	12	21.38	21.47	21.51	23	0	
5	QPSK	1	24	21.48	21.47	21.39			
5	QPSK	12	0	20.63	20.67	20.54			
5	QPSK	12	7	20.40	20.54	20.49	22	1	
5	QPSK	12	13	20.39	20.41	20.46			
5	QPSK	25	0	20.40	20.51	20.47			
5	16QAM	1	0	20.58	20.64	20.36			
5	16QAM	1	12	20.30	20.45	20.36	22	1	
5	16QAM	1	24	20.38	20.32	20.37			
5	16QAM	12	0	19.60	19.61	19.61			
5	16QAM	12	7	19.34	19.54	19.53	21	2	
5	16QAM	12	13	19.40	19.38	19.53			
5	16QAM	25	0	19.36	19.62	19.51			
5	64QAM	1	0	19.50	19.60	19.40			
5	64QAM	1	12	19.30	19.45	19.44	21	2	
5	64QAM	1	24	19.33	19.42	19.41			
5	64QAM	12	0	18.62	18.72	18.58			
5	64QAM	12	7	18.36	18.47	18.43	20	3	
5	64QAM	12	13	18.44	18.36	18.47			
5	64QAM	25	0	18.42	18.54	18.54			
5	256QAM	1	0	17.62	17.71	17.59			
5	256QAM	1	12	17.47	17.57	17.60	18	5	
5	256QAM	1	24	17.46	17.44	17.58			
5	256QAM	12	0	17.51	17.59	17.51			
5	256QAM	12	7	17.58	17.60	17.55	18	5	
5	256QAM	12	13	17.27	17.50	17.54			
5	256QAM	25	0	17.43	17.43	17.41			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	21.55	21.64	21.53			
3	QPSK	1	8	21.36	21.54	21.50	23	0	
3	QPSK	1	14	21.40	21.43	21.43			
3	QPSK	8	0	20.56	20.64	20.56	22	1	
3	QPSK	8	4	20.34	20.55	20.47			
3	QPSK	8	7	20.38	20.39	20.47			
3	QPSK	15	0	20.43	20.52	20.54			
3	16QAM	1	0	20.55	20.65	20.38			
3	16QAM	1	8	20.32	20.45	20.41	22	1	
3	16QAM	1	14	20.42	20.34	20.34			
3	16QAM	8	0	19.60	19.67	19.54			
3	16QAM	8	4	19.34	19.49	19.44			
3	16QAM	8	7	19.41	19.39	19.52	21	2	
3	16QAM	15	0	19.41	19.57	19.50			
3	64QAM	1	0	19.54	19.62	19.42			
3	64QAM	1	8	19.33	19.52	19.42	21	2	
3	64QAM	1	14	19.34	19.38	19.34			
3	64QAM	8	0	18.54	18.66	18.51			
3	64QAM	8	4	18.37	18.44	18.44	20	3	
3	64QAM	8	7	18.52	18.34	18.46			
3	64QAM	15	0	18.42	18.59	18.50			
3	256QAM	1	0	17.73	17.65	17.72			
3	256QAM	1	8	17.34	17.58	17.47	18	5	
3	256QAM	1	14	17.47	17.33	17.59			
3	256QAM	8	0	17.46	17.65	17.57			
3	256QAM	8	4	17.64	17.57	17.44	18	5	
3	256QAM	8	7	17.38	17.56	17.51			
3	256QAM	15	0	17.38	17.39	17.35			
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.50	21.60	21.58			
1.4	QPSK	1	3	21.36	21.49	21.51	23	0	
1.4	QPSK	1	5	21.48	21.47	21.37			
1.4	QPSK	3	0	21.44	21.58	21.51			
1.4	QPSK	3	1	21.31	21.40	21.44	22	1	
1.4	QPSK	3	3	21.42	21.40	21.34			
1.4	QPSK	6	0	20.41	20.52	20.46			
1.4	16QAM	1	0	20.56	20.62	20.43			
1.4	16QAM	1	3	20.29	20.44	20.41	22	1	
1.4	16QAM	1	5	20.35	20.33	20.35			
1.4	16QAM	3	0	20.48	20.60	20.40			
1.4	16QAM	3	1	20.19	20.36	20.34			
1.4	16QAM	3	3	20.33	20.27	20.34	21	2	
1.4	16QAM	6	0	19.39	19.59	19.54			
1.4	64QAM	1	0	19.57	19.60	19.39			
1.4	64QAM	1	3	19.28	19.48	19.49	21	2	
1.4	64QAM	1	5	19.39	19.34	19.41			
1.4	64QAM	3	0	19.49	19.53	19.34			
1.4	64QAM	3	1	19.18	19.43	19.40			
1.4	64QAM	3	3	19.37	19.28	19.34	20	3	
1.4	64QAM	6	0	18.42	18.59	18.52			
1.4	256QAM	1	0	17.72	17.76	17.56			
1.4	256QAM	1	3	17.49	17.65	17.53	18	5	
1.4	256QAM	1	5	17.42	17.51	17.54			
1.4	256QAM	3	0	17.39	17.57	17.60			
1.4	256QAM	3	1	17.68	17.59	17.56			
1.4	256QAM	3	3	17.33	17.58	17.54			
1.4	256QAM	6	0	17.36	17.45	17.36	18	5	

Band 7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.81	17.95	17.83			
20	QPSK	1	49	17.66	17.78	17.64	18.3	0	
20	QPSK	1	99	17.74	17.85	17.71			
20	QPSK	50	0	17.69	17.88	17.87			
20	QPSK	50	24	17.69	17.75	17.71	18.3	0	
20	QPSK	50	50	17.57	17.81	17.75			
20	QPSK	100	0	17.44	17.67	17.64			
20	16QAM	1	0	17.66	17.85	17.70			
20	16QAM	1	49	17.61	17.77	17.69	18.3	0	
20	16QAM	1	99	17.68	17.79	17.73			
20	16QAM	50	0	17.59	17.69	17.53			
20	16QAM	50	24	17.63	17.74	17.62	18.3	0	
20	16QAM	50	50	17.69	17.81	17.70			
20	16QAM	100	0	17.66	17.72	17.54			
20	64QAM	1	0	17.35	17.45	17.33			
20	64QAM	1	49	17.41	17.52	17.32	18.3	0	
20	64QAM	1	99	17.53	17.58	17.53			
20	64QAM	50	0	17.55	17.74	17.72			
20	64QAM	50	24	17.61	17.73	17.61	18.3	0	
20	64QAM	50	50	17.75	17.88	17.83			
20	64QAM	100	0	17.62	17.71	17.55			
20	256QAM	1	0	17.50	17.56	17.45			
20	256QAM	1	49	17.68	17.76	17.62	18.3	0	
20	256QAM	1	99	17.72	17.84	17.61			
20	256QAM	50	0	17.65	17.67	17.46			
20	256QAM	50	24	17.32	17.32	17.26	18.3	0	
20	256QAM	50	50	17.43	17.44	17.38			
20	256QAM	100	0	17.54	17.54	17.50			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.66	17.82	17.74			
15	QPSK	1	37	17.65	17.63	17.64	18.3	0	
15	QPSK	1	74	17.61	17.75	17.60			
15	QPSK	36	0	17.62	17.82	17.81			
15	QPSK	36	20	17.57	17.72	17.67			



### Band 38 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37850	38000	38150		
20	QPSK	1	0	19.69	19.80	19.79	20.3	0
20	QPSK	1	49	19.64	19.77	19.68		
20	QPSK	1	99	19.72	19.72	19.75		
20	QPSK	50	0	19.70	19.79	19.70		
20	QPSK	50	24	19.63	19.75	19.77	20.3	0
20	QPSK	50	50	19.89	19.73	19.71		
20	QPSK	100	0	19.70	19.74	19.72		
20	16QAM	1	0	19.61	19.69	19.69		
20	16QAM	1	49	19.61	19.71	19.77	20.3	0
20	16QAM	1	99	19.67	19.62	19.62		
20	16QAM	50	0	19.60	19.75	19.68		
20	16QAM	50	24	19.64	19.77	19.68	20.3	0
20	16QAM	50	50	19.68	19.73	19.74		
20	16QAM	100	0	19.65	19.71	19.68		
20	16QAM	1	0	19.67	19.73	19.72	20.3	0
20	64QAM	1	49	19.66	19.66	19.72		
20	64QAM	1	99	19.65	19.67	19.69		
20	64QAM	50	0	19.61	19.67	19.77	20.3	0
20	64QAM	50	24	19.60	19.65	19.69		
20	64QAM	50	50	19.62	19.69	19.74		
20	64QAM	100	0	19.67	19.65	19.69	20.3	0
20	256QAM	1	49	17.72	17.81	17.82	19	1.3
20	256QAM	1	99	17.61	17.82	17.77		
20	256QAM	50	0	17.67	17.80	17.84	19	1.3
20	256QAM	50	24	17.69	17.85	17.72		
20	256QAM	50	50	17.62	17.77	17.72		
20	256QAM	100	0	17.62	17.71	17.65	19	1.3
Channel								
Frequency (MHz)				37875	38025	38175		
15	QPSK	1	0	19.56	19.72	19.64	20.3	0
15	QPSK	1	31	19.73	19.66	19.68		
15	QPSK	1	74	19.60	19.69	19.68		
15	QPSK	36	0	19.58	19.73	19.66	20.3	0
15	QPSK	36	24	19.68	19.64	19.63		
15	QPSK	36	39	19.52	19.62	19.57		
15	QPSK	75	0	19.56	19.62	19.58		
15	16QAM	1	0	19.55	19.66	19.55	20.3	0
15	16QAM	1	49	19.51	19.65	19.64		
15	16QAM	1	74	19.56	19.48	19.48		
15	16QAM	36	0	19.48	19.65	19.63	20.3	0
15	16QAM	36	24	19.63	19.65	19.65		
15	16QAM	36	39	19.44	19.61	19.61		
15	16QAM	75	0	19.55	19.62	19.64	20.3	0
15	64QAM	1	0	19.54	19.63	19.63	20.3	0
15	64QAM	1	37	19.57	19.61	19.63		
15	64QAM	1	74	19.54	19.59	19.58		
15	64QAM	36	0	19.54	19.62	19.62	20.3	0
15	64QAM	36	20	19.49	19.62	19.65		
15	64QAM	36	39	19.48	19.63	19.69		
15	64QAM	75	0	19.56	19.62	19.61	20.3	0
15	256QAM	1	37	17.62	17.72	17.73	19	1.3
15	256QAM	1	74	17.55	17.68	17.71		
15	256QAM	36	0	17.61	17.75	17.67	19	1.3
15	256QAM	36	20	17.64	17.53	17.62		
15	256QAM	36	39	17.49	17.70	17.61		
15	256QAM	75	0	17.62	17.65	17.68	19	1.3
Channel								
Frequency (MHz)				37890	38040	38090		
10	QPSK	1	0	19.54	19.69	19.69	20.3	0
10	QPSK	1	49	19.58	19.57	19.61		
10	QPSK	25	0	19.61	19.75	19.62	20.3	0
10	QPSK	25	25	19.60	19.60	19.60		
10	QPSK	25	25	19.52	19.66	19.67	20.3	0
10	QPSK	50	0	19.65	19.62	19.67		
10	16QAM	1	0	19.54	19.64	19.59	20.3	0
10	16QAM	1	49	19.62	19.58	19.70		
10	16QAM	25	0	19.53	19.67	19.59	20.3	0
10	16QAM	25	12	19.63	19.63	19.63		
10	16QAM	25	25	19.64	19.65	19.60	20.3	0
10	16QAM	50	0	19.67	19.60	19.67		
10	16QAM	1	0	19.63	19.70	19.72	20.3	0
10	16QAM	1	25	19.58	19.59	19.61		
10	16QAM	1	49	19.51	19.57	19.65		
10	16QAM	25	0	19.62	19.65	19.61	20.3	0
10	16QAM	25	12	19.66	19.56	19.63		
10	16QAM	25	25	19.50	19.56	19.71	20.3	0
10	64QAM	1	0	19.56	19.62	19.64	20.3	0
10	64QAM	1	12	19.67	19.67	19.72		
10	64QAM	1	25	19.70	19.63	19.69	20.3	0
10	64QAM	50	0	19.68	19.64	19.68	20.3	0
10	64QAM	50	25	19.70	19.63	19.62	20.3	0
10	256QAM	1	0	17.58	17.73	17.68	19	1.3
10	256QAM	1	25	17.74	17.66	17.83	19	1.3
10	256QAM	1	49	17.67	17.78	17.66	19	1.3
10	256QAM	25	0	17.67	17.56	17.65	19	1.3
10	256QAM	25	12	17.68	17.62	17.75	19	1.3
10	256QAM	25	25	17.55	17.68	17.64	19	1.3
10	256QAM	50	0	17.76	17.72	17.84	19	1.3
10	256QAM	50	25	17.76	17.65	17.72	19	1.3
Channel								
Frequency (MHz)				37915	38065	38115		
5	QPSK	1	0	19.50	19.68	19.65	20.3	0
5	QPSK	1	24	19.70	19.73	19.64		
5	QPSK	12	0	19.66	19.75	19.64	20.3	0
5	QPSK	12	7	19.63	19.66	19.67		
5	QPSK	12	13	19.45	19.69	19.63	20.3	0
5	QPSK	25	0	19.58	19.70	19.67		
5	16QAM	1	0	19.63	19.61	19.66	20.3	0
5	16QAM	1	12	19.46	19.62	19.74		
5	16QAM	1	24	19.63	19.53	19.70		
5	16QAM	12	0	19.48	19.70	19.55	20.3	0
5	16QAM	12	7	19.61	19.71	19.59		
5	16QAM	12	13	19.43	19.58	19.73	20.3	0
5	16QAM	25	0	19.60	19.63	19.67		
5	16QAM	1	0	19.63	19.68	19.63	20.3	0
5	16QAM	1	12	19.51	19.58	19.57		
5	16QAM	1	24	19.58	19.59	19.59		
5	16QAM	12	0	19.63	19.63	19.63	20.3	0
5	16QAM	12	7	19.50	19.62	19.67		
5	16QAM	12	13	19.51	19.64	19.68	20.3	0
5	16QAM	25	0	19.62	19.61	19.62		
5	256QAM	1	0	17.55	17.72	17.65	19	1.3
5	256QAM	1	12	17.68	17.67	17.74		
5	256QAM	1	24	17.51	17.70	17.66	19	1.3
5	256QAM	12	0	17.67	17.62	17.61	19	1.3
5	256QAM	12	7	17.63	17.54	17.61		
5	256QAM	12	13	17.52	17.65	17.59	19	1.3
5	256QAM	25	0	17.64	17.63	17.64		

### Band 41 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				39750	40185	40620		
20	QPSK	1	0	19.81	19.77	19.84	20.3	0
20	QPSK	1	49	19.76	19.80	19.82		
20	QPSK	1	99	19.80	19.78	19.83	20.3	0
20	QPSK	50	0	19.79	19.80	19.83	20.3	0
20	QPSK	50	24	19.75	19.87	19.74	20.3	0
20	QPSK	50	50	19.72	19.68	19.75		
20	QPSK	100	0	19.70	19.72	19.75	20.3	0
20	16QAM	1	0	19.77	19.67	19.78	20.3	0
20	16QAM	1	49	19.76	19.76	19.80		
20	16QAM	1	99	19.69	19.71	19.74	20.3	0
20	16QAM	50	0	19.75	19.68	19.76	20.3	0
20	16QAM	50	24	19.71	19.86	19.76		
20	16QAM	50	50	19.76	19.67	19.76	20.3	0
20	16QAM	100	0	19.78	19.67	19.79	20.3	0
20	64QAM	1	0	19.73	19.68	19.80	20.3	0
20	64QAM	1	49	19.76	19.66	19.74		
20	64QAM	1	99	19.73	19.67	19.78	20.3	0
20	64QAM	50	0	19.74	19.68	19.78	20.3	0
20	64QAM	50	24	19.75	19.70	19.73		
20	64QAM	50	50	19.79	19.66	19.80	20.3	0
20	64QAM	100	0	19.74	19.73	19.72	20.3	0
20	256QAM	1	49	17.81	17.			

Band 42 Part27Q Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	17.01	17.09	16.97	18.2	0	
20	QPSK	1	49	17.03	17.05	16.86			
20	QPSK	1	99	16.98	16.98	16.87			
20	QPSK	50	0	16.97	17.04	16.95	18.2	0	
20	QPSK	50	24	16.91	16.95	16.75			
20	QPSK	50	50	17.01	16.89	16.87			
20	QPSK	100	0	16.92	16.99	16.93	18.2	0	
20	16QAM	1	0	16.83	16.84	16.76			
20	16QAM	1	49	16.71	16.79	16.51			
20	16QAM	1	99	16.79	16.71	16.71	18.2	0	
20	16QAM	50	0	16.76	16.75	16.84			
20	16QAM	50	24	16.89	16.88	16.82			
20	16QAM	50	50	16.73	16.86	16.49	18.2	0	
20	16QAM	100	0	16.88	16.79	16.67			
20	64QAM	1	0	16.86	16.79	16.74			
20	64QAM	1	49	16.72	16.83	16.82	18.2	0	
20	64QAM	1	99	16.75	16.81	16.52			
20	64QAM	50	0	16.90	16.83	16.77			
20	64QAM	50	24	16.74	16.74	16.81	18.2	0	
20	64QAM	50	50	16.72	16.84	16.76			
20	64QAM	100	0	16.75	16.78	16.63			
20	256QAM	1	0	16.82	16.82	16.79	18.2	0	
20	256QAM	1	49	16.70	16.92	16.77			
20	256QAM	1	99	16.78	16.84	16.87			
20	256QAM	50	0	16.65	16.88	16.61	18.2	0	
20	256QAM	50	24	16.90	16.80	16.61			
20	256QAM	50	50	16.67	16.89	16.76			
20	256QAM	100	0	16.89	16.93	16.75			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	16.57	16.77	16.65	18.2	0	
15	QPSK	1	37	16.58	16.57	16.35			
15	QPSK	1	74	16.71	16.56	16.45			
15	QPSK	36	0	16.57	16.52	16.72	18.2	0	
15	QPSK	36	20	16.65	16.66	16.70			
15	QPSK	36	39	16.48	16.66	16.41			
15	QPSK	75	0	16.81	16.56	16.42	18.2	0	
15	16QAM	1	0	16.66	16.71	16.60			
15	16QAM	1	37	16.61	16.77	16.70			
15	16QAM	1	74	16.62	16.69	16.29	18.2	0	
15	16QAM	36	0	16.83	16.60	16.61			
15	16QAM	36	20	16.62	16.53	16.59			
15	16QAM	36	39	16.50	16.75	16.59	18.2	0	
15	16QAM	75	0	16.51	16.58	16.45			
15	64QAM	1	0	16.62	16.69	16.56			
15	64QAM	1	37	16.51	16.85	16.59	18.2	0	
15	64QAM	1	74	16.70	16.68	16.80			
15	64QAM	36	0	16.44	16.63	16.43			
15	64QAM	36	20	16.83	16.55	16.48	18.2	0	
15	64QAM	36	39	16.50	16.64	16.61			
15	64QAM	75	0	16.79	16.78	16.56			
15	256QAM	1	0	16.67	16.69	16.56	18.2	0	
15	256QAM	1	37	16.63	16.56	16.30			
15	256QAM	1	74	16.63	16.49	16.55			
15	256QAM	36	0	16.67	16.68	16.62	18.2	0	
15	256QAM	36	20	16.76	16.71	16.69			
15	256QAM	36	39	16.61	16.74	16.37			
15	256QAM	75	0	16.76	16.72	16.60			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	16.68	16.62	16.68	18.2	0	
10	QPSK	1	25	16.51	16.59	16.30			
10	QPSK	1	49	16.64	16.53	16.57			
10	QPSK	25	0	16.63	16.59	16.76	18.2	0	
10	QPSK	25	12	16.60	16.71	16.64			
10	QPSK	25	25	16.66	16.77	16.68			
10	QPSK	50	0	16.77	16.55	16.56	18.2	0	
10	16QAM	1	0	16.69	16.62	16.49			
10	16QAM	1	25	16.48	16.62	16.74			
10	16QAM	1	49	16.62	16.67	16.31	18.2	0	
10	16QAM	25	0	16.74	16.59	16.62			
10	16QAM	25	12	16.53	16.60	16.69			
10	16QAM	25	25	16.54	16.70	16.69	18.2	0	
10	16QAM	50	0	16.50	16.70	16.45			
10	64QAM	1	0	16.58	16.67	16.70			
10	64QAM	1	25	16.57	16.77	16.60	18.2	0	
10	64QAM	1	49	16.57	16.66	16.76			
10	64QAM	25	0	16.45	16.80	16.54			
10	64QAM	25	12	16.75	16.64	16.53	18.2	0	
10	64QAM	25	25	16.49	16.78	16.64			
10	64QAM	50	0	16.75	16.68	16.63			
10	256QAM	1	0	16.58	16.74	16.57	18.2	0	
10	256QAM	1	25	16.47	16.59	16.28			
10	256QAM	1	49	16.55	16.47	16.63			
10	256QAM	25	0	16.50	16.52	16.63	18.2	0	
10	256QAM	25	12	16.74	16.67	16.63			
10	256QAM	25	25	16.53	16.69	16.29			
10	256QAM	50	0	16.77	16.67	16.49			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	16.63	16.66	16.55	18.2	0	
5	QPSK	1	12	16.45	16.62	16.39			
5	QPSK	1	24	16.56	16.51	16.57			
5	QPSK	12	0	16.52	16.51	16.67	18.2	0	
5	QPSK	12	7	16.79	16.76	16.68			
5	QPSK	12	13	16.57	16.66	16.42			
5	QPSK	25	0	16.63	16.68	16.54	18.2	0	
5	16QAM	1	0	16.67	16.56	16.53			
5	16QAM	1	12	16.48	16.60	16.67			
5	16QAM	1	24	16.56	16.57	16.30	18.2	0	
5	16QAM	12	0	16.73	16.73	16.69			
5	16QAM	12	7	16.50	16.54	16.71			
5	16QAM	12	13	16.56	16.77	16.59	18.2	0	
5	16QAM	25	0	16.61	16.64	16.48			
5	64QAM	1	0	16.63	16.61	16.54			
5	64QAM	1	12	16.59	16.80	16.55	18.2	0	
5	64QAM	1	24	16.53	16.69	16.71			
5	64QAM	12	0	16.41	16.73	16.39			
5	64QAM	12	7	16.81	16.60	16.45	18.2	0	
5	64QAM	12	13	16.49	16.76	16.66			
5	64QAM	25	0	16.69	16.75	16.50			
5	256QAM	1	0	16.60	16.75	16.64	18.2	0	
5	256QAM	1	12	16.53	16.59	16.31			
5	256QAM	1	24	16.54	16.54	16.64			
5	256QAM	12	0	16.51	16.52	16.68	18.2	0	
5	256QAM	12	7	16.71	16.72	16.57			
5	256QAM	12	13	16.67	16.76	16.29			
5	256QAM	25	0	16.70	16.73	16.55			



Band 7 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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.23	22.28	22.25	24	0	
20	QPSK	1	49	22.16	22.21	22.20			
20	QPSK	1	99	22.12	22.15	22.17			
20	QPSK	50	0	21.19	21.30	21.22	23	1	
20	QPSK	50	24	21.14	21.16	21.19			
20	QPSK	50	50	21.07	21.14	21.13			
20	QPSK	100	0	21.16	21.17	21.15			
20	16QAM	1	0	21.11	21.16	21.10	23	1	
20	16QAM	1	49	21.02	21.05	21.08			
20	16QAM	1	99	21.03	21.05	21.09			
20	16QAM	50	0	20.22	20.32	20.23	22	2	
20	16QAM	50	24	20.13	20.11	20.20			
20	16QAM	50	50	20.04	20.15	20.12			
20	16QAM	100	0	20.11	20.19	20.15			
20	64QAM	1	0	20.14	20.11	20.11	22	2	
20	64QAM	1	49	20.01	20.03	20.12			
20	64QAM	1	99	20.10	20.08	20.13			
20	64QAM	50	0	19.18	19.27	19.21	21	3	
20	64QAM	50	24	19.12	19.18	19.24			
20	64QAM	50	50	19.02	19.10	19.11			
20	64QAM	100	0	19.19	19.18	19.14			
20	256QAM	1	0	17.21	17.28	17.16	19	5	
20	256QAM	1	49	17.03	17.04	17.28			
20	256QAM	1	99	17.10	17.15	17.05			
20	256QAM	50	0	17.20	17.12	17.10	19	5	
20	256QAM	50	24	17.13	17.15	17.03			
20	256QAM	50	50	17.05	17.11	17.20			
20	256QAM	100	0	17.13	17.04	17.15			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.13	22.19	22.14	24	0	
15	QPSK	1	37	22.06	22.11	22.13			
15	QPSK	1	74	22.10	22.03	22.09			
15	QPSK	36	0	21.06	21.21	21.09	23	1	
15	QPSK	36	20	21.10	21.11	21.14			
15	QPSK	36	39	21.06	21.04	21.08			
15	QPSK	75	0	21.04	21.11	21.09			
15	16QAM	1	0	21.01	21.05	21.07	23	1	
15	16QAM	1	37	21.13	21.08	21.06			
15	16QAM	1	74	21.18	21.05	21.04			
15	16QAM	36	0	20.17	20.20	20.13	22	2	
15	16QAM	36	20	20.11	20.03	20.08			
15	16QAM	36	39	20.10	20.11	20.01			
15	16QAM	75	0	20.01	20.12	20.02			
15	64QAM	1	0	20.04	20.04	20.03	22	2	
15	64QAM	1	37	20.07	20.12	20.03			
15	64QAM	1	74	20.06	20.03	20.10			
15	64QAM	36	0	19.09	19.16	19.09	21	3	
15	64QAM	36	20	19.02	19.06	19.20			
15	64QAM	36	39	19.12	19.02	19.03			
15	64QAM	75	0	19.06	19.14	19.02			
15	256QAM	1	0	17.22	17.28	17.26	19	5	
15	256QAM	1	37	17.19	17.17	17.17			
15	256QAM	1	74	17.01	17.14	17.08			
15	256QAM	36	0	17.08	17.29	17.07	19	5	
15	256QAM	36	20	17.07	17.01	17.08			
15	256QAM	36	39	17.05	17.09	17.03			
15	256QAM	75	0	17.11	17.14	17.06			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.11	22.23	22.11	24	0	
10	QPSK	1	25	22.15	22.18	22.14			
10	QPSK	1	49	22.11	22.04	22.16			
10	QPSK	25	0	21.18	21.33	21.13	23	1	
10	QPSK	25	12	21.15	21.07	21.06			
10	QPSK	25	25	21.06	21.06	21.10			
10	QPSK	50	0	21.16	21.13	21.14			
10	16QAM	1	0	21.15	21.19	21.15	23	1	
10	16QAM	1	25	21.03	21.14	21.11			
10	16QAM	1	49	21.04	21.10	21.11			
10	16QAM	25	0	20.19	20.35	20.15	22	2	
10	16QAM	25	12	20.11	20.03	20.13			
10	16QAM	25	25	20.06	20.18	20.17			
10	16QAM	50	0	20.11	20.13	20.09			
10	64QAM	1	0	20.06	20.14	20.12	22	2	
10	64QAM	1	25	20.07	20.07	20.01			
10	64QAM	1	49	20.15	20.11	20.04			
10	64QAM	25	0	19.03	19.26	19.12	21	3	
10	64QAM	25	12	19.15	19.21	19.21			
10	64QAM	25	25	19.07	19.10	19.08			
10	64QAM	50	0	19.14	19.15	19.04			
10	256QAM	1	0	17.29	17.34	17.23	19	5	
10	256QAM	1	25	17.09	17.06	17.20			
10	256QAM	1	49	17.15	17.25	17.11			
10	256QAM	25	0	17.11	17.26	17.08	19	5	
10	256QAM	25	12	17.17	17.18	17.04			
10	256QAM	25	25	17.10	17.00	17.15			
10	256QAM	50	0	17.19	17.17	17.12			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.11	22.25	22.11	24	0	
5	QPSK	1	12	22.01	22.13	22.16			
5	QPSK	1	24	22.15	22.18	22.20			
5	QPSK	12	0	21.15	21.23	21.22	23	1	
5	QPSK	12	7	21.17	21.17	21.21			
5	QPSK	12	13	21.11	21.03	21.10			
5	QPSK	25	0	21.02	21.21	21.12			
5	16QAM	1	0	21.12	21.14	21.03	23	1	
5	16QAM	1	12	21.07	21.03	21.05			
5	16QAM	1	24	21.05	21.10	21.14			
5	16QAM	12	0	20.16	20.19	20.28	22	2	
5	16QAM	12	7	20.12	20.07	20.22			
5	16QAM	12	13	20.10	20.01	20.09			
5	16QAM	25	0	20.11	20.18	20.01			
5	64QAM	1	0	20.04	20.12	20.14	22	2	
5	64QAM	1	12	20.11	20.10	20.14			
5	64QAM	1	24	20.13	20.17	20.15			
5	64QAM	12	0	19.16	19.22	19.06	21	3	
5	64QAM	12	7	19.16	19.10	19.14			
5	64QAM	12	13	19.07	19.01	19.12			
5	64QAM	25	0	19.11	19.04	19.12			
5	256QAM	1	0	17.12	17.34	17.16	19	5	
5	256QAM	1	12	17.16	17.07	17.21			
5	256QAM	1	24	17.07	17.09	17.17			
5	256QAM	12	0	17.16	17.14	17.17	19	5	
5	256QAM	12	7	17.04	17.18	17.04			
5	256QAM	12	13	17.05	17.02	17.10			
5	256QAM	25	0	17.12	17.11	17.10			

## Reduced Power Mode for DSI2 Simultaneous

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.26	32.30	32.22	33.50	23.26	23.30	23.22	24.50
GPRS 1 Tx slot	32.17	32.25	32.18	33.50	23.17	23.25	23.18	24.50
GPRS 2 Tx slots	30.71	30.81	30.74	32.00	24.71	24.81	24.74	25.00
GPRS 3 Tx slots	28.65	28.79	28.67	30.00	24.39	24.53	24.41	25.74
GPRS 4 Tx slots	26.57	26.69	26.59	27.50	23.57	23.69	23.59	24.50
EDGE 1 Tx slot	25.79	25.83	25.79	27.00	16.79	16.83	16.79	18.00
EDGE 2 Tx slots	24.85	24.94	24.88	26.00	18.85	18.94	18.88	20.00
EDGE 3 Tx slots	22.73	22.88	22.78	24.00	18.47	18.62	18.52	19.74
EDGE 4 Tx slots	20.70	20.79	20.73	22.00	17.70	17.79	17.73	19.00

GSM1900	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)	1852.2	1860	1869.8		1852.2	1860	1869.8	
GSM 1 Tx slot	29.71	29.75	29.64	30.50	20.71	20.75	20.64	21.50
GPRS 1 Tx slot	29.65	29.70	29.58	30.50	20.65	20.70	20.58	21.50
GPRS 2 Tx slots	28.11	28.20	28.14	29.50	22.11	22.20	22.14	23.50
GPRS 3 Tx slots	26.08	26.17	26.09	27.50	21.82	21.91	21.83	23.24
GPRS 4 Tx slots	24.11	24.18	24.07	25.00	21.11	21.18	21.07	22.00
EDGE 1 Tx slot	25.55	25.58	25.48	27.00	16.55	16.58	16.48	18.00
EDGE 2 Tx slots	24.19	24.24	24.18	25.50	18.19	18.24	18.18	19.50
EDGE 3 Tx slots	22.00	22.13	22.10	23.50	17.74	17.87	17.84	19.24
EDGE 4 Tx slots	20.16	20.29	20.23	21.50	17.16	17.29	17.23	18.50

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4182	4233		
TX Channel	9262	9400	9538		4132	4182	4233		
Rx Channel	9662	9800	9938		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.55	22.58	22.49	24.00	22.54	22.67	22.53	24.00
3GPP Rel 99	RMC 12.2Kbps	22.61	22.65	22.57	24.00	22.61	22.78	22.66	24.00
3GPP Rel 6	HSDPA Subtest-1	21.65	21.59	21.36	23.00	21.43	21.72	21.55	23.00
3GPP Rel 6	HSDPA Subtest-2	21.73	21.75	21.63	23.00	21.67	21.90	21.77	23.00
3GPP Rel 6	HSDPA Subtest-3	21.02	20.99	21.08	22.50	20.99	21.28	21.14	22.50
3GPP Rel 6	HSDPA Subtest-4	21.13	21.05	21.18	22.50	21.07	21.28	21.18	22.50
3GPP Rel 6	HSUPA Subtest-1	22.46	22.52	22.50	24.00	22.55	22.71	22.61	24.00
3GPP Rel 6	HSUPA Subtest-2	20.72	20.66	20.54	22.00	20.64	20.88	20.76	22.00
3GPP Rel 6	HSUPA Subtest-3	21.62	21.73	21.52	23.00	21.49	21.66	21.63	23.00
3GPP Rel 6	HSUPA Subtest-4	20.71	20.48	20.54	22.00	20.64	20.84	20.59	22.00
3GPP Rel 6	HSUPA Subtest-5	22.44	22.37	22.29	24.00	22.50	22.70	22.57	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.18	20.24	20.05	21.50	20.23	20.28	20.20	21.50



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
1860 1860 1900										
20	QPSK	1	0	22.14	22.18	22.16				
10	QPSK	1	49	22.09	22.11	22.07	24	0		
20	QPSK	1	99	22.09	22.11	22.07				
20	QPSK	50	0	21.17	21.26	21.24				
20	QPSK	24	21.08	21.08	21.08	21.08				
20	QPSK	50	50	21.16	21.16	21.09	23	1		
20	QPSK	100	0	21.19	21.21	21.15				
20	16QAM	50	0	21.05	21.05	21.05				
20	16QAM	1	49	21.02	21.08	21.06	23	1		
20	16QAM	1	99	21.03	21.10	21.05				
20	16QAM	50	0	20.14	20.27	20.20				
20	16QAM	50	24	20.19	20.11	20.20	22	2		
20	16QAM	50	50	20.20	20.12	20.10				
20	16QAM	100	0	20.06	20.06	20.17				
20	64QAM	1	0	20.17	20.14	20.11				
20	64QAM	1	49	20.11	20.10	20.09	22	2		
20	64QAM	50	0	20.16	20.03	20.11				
20	64QAM	50	24	19.23	19.24	19.21				
20	64QAM	50	24	19.15	19.09	19.11				
20	64QAM	50	50	19.26	19.26	19.20	21	3		
20	64QAM	100	0	19.08	19.36	19.17				
20	256QAM	1	49	17.24	17.15	17.16	19	5		
20	256QAM	1	99	17.22	17.16	17.04				
20	256QAM	50	0	17.26	17.22	17.08				
20	256QAM	50	24	17.25	17.21	17.08	19	5		
20	256QAM	50	50	17.17	17.08	17.14				
20	256QAM	100	0	17.26	17.26	17.08				
Channel										
1867.5 1860 1902.5										
15	QPSK	1	0	22.16	22.12	22.13				
15	QPSK	1	37	22.14	22.14	22.12	24	0		
15	QPSK	1	74	22.10	22.11	22.08				
15	QPSK	36	0	21.06	21.11	21.18				
15	QPSK	36	24	21.10	21.08	21.09				
15	QPSK	36	39	21.12	21.18	21.09	23	1		
15	QPSK	75	0	21.08	21.08	21.08				
15	16QAM	1	0	21.06	21.06	21.06				
15	16QAM	1	37	21.10	21.13	21.09	23	1		
15	16QAM	1	74	21.07	21.07	21.07				
15	16QAM	36	0	20.06	20.11	20.11				
15	16QAM	36	24	20.18	20.18	20.17	22	2		
15	16QAM	36	39	20.06	20.04	20.11				
15	16QAM	75	0	20.08	20.08	20.20				
15	64QAM	1	0	20.14	20.19	20.09	22	2		
15	64QAM	1	37	20.11	20.09	20.09				
15	64QAM	1	74	20.13	20.10	20.05				
15	64QAM	36	0	19.28	19.13	19.13				
15	64QAM	36	24	19.26	19.11	19.07				
15	64QAM	36	39	19.18	19.05	19.05	21	3		
15	64QAM	75	0	19.33	19.41	19.17				
15	256QAM	1	0	17.28	17.28	17.08				
15	256QAM	1	37	17.27	17.26	17.15	19	5		
15	256QAM	1	74	17.08	17.21	17.20				
15	256QAM	36	0	17.26	17.26	17.08				
15	256QAM	36	24	17.24	17.25	17.15	19	5		
15	256QAM	36	39	17.10	17.20	17.17				
15	256QAM	75	0	17.08	17.07	17.08				
Channel										
1865 1860 1905										
10	QPSK	1	0	22.07	22.08	22.07				
10	QPSK	1	25	22.08	22.08	22.03	24	0		
10	QPSK	1	49	22.02	22.15	22.02				
10	QPSK	12	0	21.12	21.12	21.12				
10	QPSK	25	12	21.12	21.20	21.03	23	1		
10	QPSK	25	25	21.15	21.18	21.06				
10	16QAM	1	0	21.06	21.06	21.06				
10	16QAM	1	24	21.06	21.21	21.09	23	1		
10	16QAM	1	49	21.07	21.07	21.07				
10	16QAM	12	0	20.09	20.14	20.11				
10	16QAM	12	12	20.17	20.11	20.12	22	2		
10	16QAM	25	0	20.03	20.24	20.30				
10	16QAM	25	12	20.17	20.11	20.12				
10	16QAM	36	0	20.14	20.08	20.08				
10	16QAM	50	0	20.22	20.27	20.20				
10	64QAM	1	0	20.10	20.17	20.15	22	2		
10	64QAM	1	37	20.13	20.09	20.09				
10	64QAM	1	49	20.02	20.05	20.04				
10	64QAM	25	0	19.16	19.15	19.15				
10	64QAM	25	12	19.09	19.10	19.11	21	3		
10	64QAM	25	25	19.28	19.24	19.12				
10	64QAM	50	0	19.03	19.31	19.11				
10	256QAM	1	0	17.08	17.07	17.07				
10	256QAM	1	24	17.28	17.07	17.14	19	5		
10	256QAM	1	49	17.16	17.19	17.02				
10	256QAM	12	0	17.30	17.42	17.08				
10	256QAM	25	12	17.27	17.25	17.07	19	5		
10	256QAM	25	25	17.19	17.13	17.08				
10	256QAM	50	0	17.10	17.01	17.00				
Channel										
1862.5 1860 1917.5										
5	QPSK	1	0	22.07	22.08	22.07				
5	QPSK	1	12	22.05	22.11	22.07	24	0		
5	QPSK	1	24	22.05	22.04	22.10				
5	QPSK	12	0	21.12	21.12	21.12				
5	QPSK	12	12	21.04	21.08	21.19	23	1		
5	QPSK	12	13	21.10	21.19	21.05				
5	QPSK	25	0	21.06	21.06	21.06				
5	16QAM	1	0	21.05	21.17	21.12	23	1		
5	16QAM	1	12	21.11	21.05	21.03				
5	16QAM	1	24	21.07	21.08	21.08				
5	16QAM	12	0	20.16	20.18	20.34				
5	16QAM	12	12	20.20	20.01	20.15	22	2		
5	16QAM	12	24	20.16	20.04	20.07				
5	16QAM	25	0	20.07	20.28	20.08				
5	64QAM	1	0	20.10	20.03	20.04	22	2		
5	64QAM	1	12	20.08	20.14	20.09				
5	64QAM	1	24	20.04	20.10	20.13				
5	64QAM	12	0	19.25	19.10	19.22				
5	64QAM	12	12	19.09	19.10	19.08	21	3		
5	64QAM	12	13	19.28	19.16	19.02				
5	64QAM	25	0	19.10	19.23	19.22				
5	256QAM	1	0	17.12	17.08	17.08				
5	256QAM	1	12	17.21	17.19	17.10	19	5		
5	256QAM	1	24	17.18	17.09	17.02				
5	256QAM	12	0	17.22	17.46	17.09				
5	256QAM	12	12	17.27	17.25	17.07	19	5		
5	256QAM	12	13	17.11	17.05	17.10				
5	256QAM	25	0	17.07	17.11	17.12				
Channel										
1861.5 1860 1918.5										
3	QPSK	1	0	22.09	22.15	22.14				
3	QPSK	1	8	22.13	22.12	22.09	24	0		
3	QPSK	1	14	22.02	22.01	22.13				
3	QPSK	8	0	21.08	21.08	21.02				
3	QPSK	8	4	21.09	21.06	21.06	23	1		
3	QPSK	8	7	21.15	21.11	21.14				
3	QPSK	15	0	21.18	21.11	21.03				
3	16QAM	1	0	21.02	21.09	21.18	23	1		
3	16QAM	1	8	21.07	21.18	21.11				
3	16QAM	1	14	21.15	21.19	21.07				
3	16QAM	8	0	20.33	20.42	20.06				
3	16QAM	8	4	20.27	20.18	20.18	22	2		
3	16QAM	15	0	20.14	20.14	20.13				
3	16QAM	15	0	20.05	20.31	20.14				
3	64QAM	1	0	20.11	20.10					



Band 5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	21.60	21.69	21.63			
10	QPSK	1	25	21.42	21.58	21.52	23	0	
10	QPSK	1	49	21.50	21.49	21.48			
10	QPSK	25	0	20.65	20.71	20.60			
10	QPSK	25	12	20.42	20.56	20.53	22	1	
10	QPSK	25	25	20.48	20.47	20.50			
10	QPSK	50	0	20.45	20.61	20.56			
10	16QAM	1	0	20.61	20.66	20.47			
10	16QAM	1	25	20.33	20.51	20.46	22	1	
10	16QAM	1	49	20.43	20.38	20.38			
10	16QAM	25	0	19.65	19.69	19.63			
10	16QAM	25	12	19.43	19.56	19.55	21	2	
10	16QAM	25	25	19.48	19.42	19.54			
10	16QAM	50	0	19.45	19.65	19.60			
10	64QAM	1	0	19.59	19.65	19.50			
10	64QAM	1	25	19.34	19.55	19.51	21	2	
10	64QAM	1	49	19.41	19.43	19.43			
10	64QAM	25	0	18.65	18.74	18.59			
10	64QAM	25	12	18.39	18.53	18.50	20	3	
10	64QAM	25	25	18.53	18.44	18.53			
10	64QAM	50	0	18.50	18.63	18.55			
10	256QAM	1	0	17.67	17.64	17.62			
10	256QAM	1	25	17.38	17.59	17.46	18	5	
10	256QAM	1	49	17.52	17.39	17.50			
10	256QAM	25	0	17.42	17.63	17.57			
10	256QAM	25	12	17.66	17.70	17.41	18	5	
10	256QAM	25	25	17.38	17.48	17.61			
10	256QAM	50	0	17.43	17.35	17.48			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.51	21.62	21.58	23	0	
5	QPSK	1	12	21.38	21.47	21.51			
5	QPSK	1	24	21.48	21.47	21.39			
5	QPSK	12	0	20.63	20.67	20.54			
5	QPSK	12	7	20.40	20.54	20.49	22	1	
5	QPSK	12	13	20.39	20.41	20.46			
5	QPSK	25	0	20.40	20.51	20.47			
5	16QAM	1	0	20.58	20.64	20.36			
5	16QAM	1	12	20.30	20.45	20.36	22	1	
5	16QAM	1	24	20.38	20.32	20.37			
5	16QAM	12	0	19.60	19.61	19.61			
5	16QAM	12	7	19.34	19.54	19.53	21	2	
5	16QAM	12	13	19.40	19.38	19.53			
5	16QAM	25	0	19.36	19.62	19.51			
5	64QAM	1	0	19.50	19.60	19.40			
5	64QAM	1	12	19.30	19.45	19.44	21	2	
5	64QAM	1	24	19.33	19.42	19.41			
5	64QAM	12	0	18.62	18.72	18.58			
5	64QAM	12	7	18.36	18.47	18.43	20	3	
5	64QAM	12	13	18.44	18.36	18.47			
5	64QAM	25	0	18.42	18.54	18.54			
5	256QAM	1	0	17.62	17.71	17.59			
5	256QAM	1	12	17.47	17.57	17.60	18	5	
5	256QAM	1	24	17.46	17.44	17.58			
5	256QAM	12	0	17.51	17.59	17.51			
5	256QAM	12	7	17.58	17.60	17.55	18	5	
5	256QAM	12	13	17.27	17.50	17.54			
5	256QAM	25	0	17.43	17.43	17.41			
Channel				20415	20525	20635			
Frequency (MHz)				826.5	836.5	847.5			
3	QPSK	1	0	21.55	21.64	21.53	23	0	
3	QPSK	1	8	21.36	21.54	21.50			
3	QPSK	1	14	21.40	21.43	21.43			
3	QPSK	8	0	20.56	20.64	20.56	22	1	
3	QPSK	8	4	20.34	20.55	20.47			
3	QPSK	8	7	20.38	20.39	20.47			
3	QPSK	15	0	20.43	20.52	20.54			
3	16QAM	1	0	20.55	20.65	20.38			
3	16QAM	1	8	20.32	20.45	20.41	22	1	
3	16QAM	1	14	20.42	20.34	20.34			
3	16QAM	8	0	19.60	19.67	19.54			
3	16QAM	8	4	19.34	19.49	19.44	21	2	
3	16QAM	8	7	19.41	19.39	19.52			
3	16QAM	15	0	19.41	19.57	19.50			
3	64QAM	1	0	19.54	19.62	19.42			
3	64QAM	1	8	19.33	19.52	19.42	21	2	
3	64QAM	1	14	19.34	19.38	19.34			
3	64QAM	8	0	18.54	18.66	18.51	20	3	
3	64QAM	8	4	18.37	18.44	18.44			
3	64QAM	8	7	18.52	18.34	18.46			
3	64QAM	15	0	18.42	18.59	18.50			
3	256QAM	1	0	17.73	17.65	17.72	18	5	
3	256QAM	1	8	17.34	17.58	17.47			
3	256QAM	1	14	17.47	17.33	17.59			
3	256QAM	8	0	17.46	17.65	17.57	18	5	
3	256QAM	8	4	17.64	17.57	17.44			
3	256QAM	8	7	17.38	17.56	17.51			
3	256QAM	15	0	17.38	17.39	17.35			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.50	21.60	21.58	23	0	
1.4	QPSK	1	3	21.36	21.49	21.51			
1.4	QPSK	1	5	21.48	21.47	21.37			
1.4	QPSK	3	0	21.44	21.58	21.51			
1.4	QPSK	3	1	21.31	21.40	21.44	22	1	
1.4	QPSK	3	3	21.42	21.40	21.34			
1.4	QPSK	6	0	20.41	20.52	20.46			
1.4	16QAM	1	0	20.56	20.62	20.43	22	1	
1.4	16QAM	1	3	20.29	20.44	20.41			
1.4	16QAM	1	5	20.35	20.33	20.35			
1.4	16QAM	3	0	20.48	20.60	20.40			
1.4	16QAM	3	1	20.19	20.36	20.34			
1.4	16QAM	3	3	20.33	20.27	20.34			
1.4	16QAM	6	0	19.39	19.59	19.54	21	2	
1.4	64QAM	1	0	19.57	19.60	19.39			
1.4	64QAM	1	3	19.28	19.48	19.49			
1.4	64QAM	1	5	19.39	19.34	19.41	21	2	
1.4	64QAM	3	0	19.49	19.53	19.34			
1.4	64QAM	3	1	19.18	19.43	19.40			
1.4	64QAM	3	3	19.37	19.28	19.34			
1.4	64QAM	6	0	18.42	18.59	18.52	20	3	
1.4	256QAM	1	0	17.72	17.76	17.56			
1.4	256QAM	1	3	17.49	17.65	17.53	18	5	
1.4	256QAM	1	5	17.42	17.51	17.54			
1.4	256QAM	3	0	17.39	17.57	17.60			
1.4	256QAM	3	1	17.68	17.59	17.56			
1.4	256QAM	3	3	17.33	17.58	17.54			
1.4	256QAM	6	0	17.36	17.45	17.36	18	5	

Band 7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.20	16.30	16.16			
20	QPSK	1	49	16.18	16.07	16.12	17.3	0	
20	QPSK	1	99	16.15	16.19	16.15			
20	QPSK	50	0	16.19	16.22	16.17			
20	QPSK	50	24	15.88	16.09	15.88	17.3	0	
20	QPSK	50	50	15.97	16.10	15.96			
20	QPSK	100	0	16.06	16.10	15.88			
20	16QAM	1	0	16.01	16.06	15.82			
20	16QAM	1	49	15.94	16.03	15.85	17.3	0	
20	16QAM	1	99	15.95	16.08	15.95			
20	16QAM	50	0	15.91	16.06	15.88			
20	16QAM	50	24	15.88	16.02	15.87	17.3	0	
20	16QAM	50	50	15.92	16.09	16.07			
20	16QAM	100	0	15.95	16.06	15.98			
20	64QAM	1	0	15.73	15.79	15.66			
20	64QAM	1	49	15.76	15.85	15.85	17.3	0	
20	64QAM	1	99	15.81	15.94	15.77			
20	64QAM	50	0	15.95	16.09	16.05			
20	64QAM	50	24	15.93	16.10	15.96	17.3	0	
20	64QAM	50	50	15.97	16.02	15.85			
20	64QAM	100	0	15.99	16.09	15.97			
20	256QAM	1	0	15.89	16.03	16.02	17.3	0	
20	256QAM	1	49	15.93	15.99	15.83			
20	256QAM	1	99	15.81	15.91	15.70			
20	256QAM	50	0	15.84	16.08	15.87			
20	256QAM	50	24	15.91	16.06	15.80	17.3	0	
20	256QAM	50	50	15.89	16.05	15.74			
20	256QAM	100	0	15.84	15.97	15.98			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	16.02	16.08	16.00			
15	QPSK	1	37	15.86	15.97	15.82	17.3	0	
15	QPSK	1	74	16.07	16.05	15.97			
15	QPSK	36	0	15.91	16.01	16.07			
15	QPSK	36	20	15.84	16.06	15.90	17.3	0	
15	QPSK	36							





### Band 38 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37950	38000	38150		
20	QPSK	1	0	18.33	18.40	18.33	18.8	0
20	QPSK	1	49	18.19	18.26	18.19	18.8	0
20	QPSK	1	99	18.16	18.34	18.17	18.8	0
20	QPSK	50	0	18.24	18.33	18.28	18.8	0
20	QPSK	50	24	18.27	18.21	18.25	18.8	0
20	QPSK	50	49	18.12	18.23	18.24	18.8	0
20	QPSK	100	0	18.26	18.30	18.28	18.8	0
20	16QAM	1	0	18.22	18.25	18.21	18.8	0
20	16QAM	1	49	18.19	18.19	18.23	18.8	0
20	16QAM	1	99	18.19	18.34	18.32	18.8	0
20	16QAM	50	0	18.17	18.19	18.25	18.8	0
20	16QAM	50	24	18.21	18.20	18.25	18.8	0
20	16QAM	50	49	18.31	18.38	18.38	18.8	0
20	16QAM	100	0	18.21	18.32	18.22	18.8	0
20	64QAM	1	0	18.20	18.32	18.25	18.8	0
20	64QAM	1	49	18.19	18.33	18.38	18.8	0
20	64QAM	1	99	18.19	18.33	18.36	18.8	0
20	64QAM	50	0	18.07	18.23	18.28	18.8	0
20	64QAM	50	24	18.32	18.37	18.29	18.8	0
20	64QAM	50	49	18.18	18.25	18.12	18.8	0
20	64QAM	100	0	18.09	18.28	18.21	18.8	0
20	256QAM	1	0	18.20	18.30	18.20	18.8	0
20	256QAM	1	49	18.22	18.25	18.26	18.8	0
20	256QAM	1	99	18.22	18.32	18.30	18.8	0
20	256QAM	50	0	18.29	18.31	18.27	18.8	0
20	256QAM	50	24	18.28	18.31	18.28	18.8	0
20	256QAM	50	49	18.27	18.32	18.25	18.8	0
20	256QAM	100	0	18.22	18.31	18.23	18.8	0
Channel								
Frequency (MHz)				37975	38025	38175		
15	QPSK	1	0	18.23	18.34	18.25	18.8	0
15	QPSK	1	49	18.19	18.33	18.38	18.8	0
15	QPSK	1	99	18.17	18.29	18.10	18.8	0
15	QPSK	36	0	18.15	18.27	18.21	18.8	0
15	QPSK	36	18	18.23	18.23	18.23	18.8	0
15	QPSK	36	36	18.24	18.18	18.16	18.8	0
15	QPSK	75	0	18.20	18.27	18.37	18.8	0
15	16QAM	1	0	18.27	18.20	18.31	18.8	0
15	16QAM	1	49	18.20	18.21	18.37	18.8	0
15	16QAM	1	99	18.24	18.26	18.34	18.8	0
15	16QAM	36	0	18.20	18.26	18.34	18.8	0
15	16QAM	36	18	18.22	18.27	18.32	18.8	0
15	16QAM	36	36	18.24	18.21	18.30	18.8	0
15	16QAM	75	0	18.22	18.31	18.33	18.8	0
15	64QAM	1	0	18.14	18.14	18.32	18.8	0
15	64QAM	1	37	18.24	18.27	18.37	18.8	0
15	64QAM	1	74	18.21	18.12	18.34	18.8	0
15	64QAM	36	0	18.27	18.20	18.31	18.8	0
15	64QAM	36	20	18.30	18.33	18.26	18.8	0
15	64QAM	36	36	18.23	18.20	18.25	18.8	0
15	64QAM	75	0	18.19	18.18	18.30	18.8	0
15	256QAM	1	0	18.24	18.27	18.37	18.8	0
15	256QAM	1	37	18.18	18.18	18.34	18.8	0
15	256QAM	1	74	18.18	18.20	18.37	18.8	0
15	256QAM	36	0	18.19	18.24	18.36	18.8	0
15	256QAM	36	20	18.26	18.22	18.35	18.8	0
15	256QAM	36	36	18.30	18.26	18.21	18.8	0
15	256QAM	75	0	18.20	18.25	18.37	18.8	0
Channel								
Frequency (MHz)				37970	38020	38170		
10	QPSK	1	0	18.21	18.31	18.35	18.8	0
10	QPSK	1	49	18.14	18.17	18.33	18.8	0
10	QPSK	1	99	18.15	18.12	18.29	18.8	0
10	QPSK	25	0	18.26	18.32	18.40	18.8	0
10	QPSK	25	12	18.34	18.31	18.39	18.8	0
10	QPSK	25	25	18.21	18.21	18.28	18.8	0
10	QPSK	50	0	18.26	18.32	18.32	18.8	0
10	16QAM	1	0	18.26	18.24	18.33	18.8	0
10	16QAM	1	49	18.32	18.20	18.28	18.8	0
10	16QAM	25	0	18.20	18.18	18.30	18.8	0
10	16QAM	25	12	18.15	18.23	18.32	18.8	0
10	16QAM	25	25	18.31	18.30	18.37	18.8	0
10	16QAM	50	0	18.26	18.26	18.36	18.8	0
10	64QAM	1	0	18.15	18.18	18.28	18.8	0
10	64QAM	1	25	18.31	18.31	18.33	18.8	0
10	64QAM	1	49	18.25	18.18	18.31	18.8	0
10	64QAM	25	0	18.21	18.18	18.29	18.8	0
10	64QAM	25	12	18.28	18.32	18.34	18.8	0
10	64QAM	25	25	18.30	18.28	18.26	18.8	0
10	64QAM	50	0	18.13	18.26	18.31	18.8	0
10	256QAM	1	0	18.27	18.26	18.29	18.8	0
10	256QAM	1	25	18.27	18.23	18.25	18.8	0
10	256QAM	1	49	18.09	18.18	18.30	18.8	0
10	256QAM	25	0	18.30	18.23	18.34	18.8	0
10	256QAM	25	12	18.31	18.27	18.32	18.8	0
10	256QAM	25	25	18.28	18.27	18.27	18.8	0
10	256QAM	50	0	18.14	18.19	18.22	18.8	0
Channel								
Frequency (MHz)				37975	38025	38175		
5	QPSK	1	0	18.22	18.36	18.24	18.8	0
5	QPSK	1	24	18.12	18.29	18.10	18.8	0
5	QPSK	12	0	18.13	18.29	18.15	18.8	0
5	QPSK	12	7	18.14	18.07	18.18	18.8	0
5	QPSK	12	13	18.07	18.16	18.10	18.8	0
5	QPSK	25	0	18.12	18.22	18.19	18.8	0
5	16QAM	1	12	18.15	18.13	18.30	18.8	0
5	16QAM	1	24	18.16	18.21	18.19	18.8	0
5	16QAM	12	0	18.07	18.11	18.14	18.8	0
5	16QAM	12	7	18.18	18.25	18.16	18.8	0
5	16QAM	12	13	18.20	18.32	18.32	18.8	0
5	16QAM	25	0	18.14	18.23	18.19	18.8	0
5	64QAM	1	12	18.16	18.18	18.27	18.8	0
5	64QAM	1	24	18.05	18.25	18.09	18.8	0
5	64QAM	12	0	18.02	18.11	18.23	18.8	0
5	64QAM	12	7	18.23	18.32	18.21	18.8	0
5	64QAM	12	13	18.11	18.20	17.99	18.8	0
5	64QAM	25	0	18.00	18.18	18.16	18.8	0
5	256QAM	1	0	18.27	18.24	18.15	18.8	0
5	256QAM	1	12	18.25	18.23	18.36	18.8	0
5	256QAM	1	24	18.11	18.22	18.33	18.8	0
5	256QAM	12	0	18.23	18.24	18.23	18.8	0
5	256QAM	12	7	18.35	18.21	18.34	18.8	0
5	256QAM	12	13	18.29	18.25	18.24	18.8	0
5	256QAM	25	0	18.16	18.26	18.21	18.8	0

### Band 41 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				39750	40185	40620		
20	QPSK	1	0	18.33	18.37	18.45	18.44	18.31
20	QPSK	1	49	18.26	18.26	18.36	18.39	18.29
20	QPSK	1	99	18.20	18.23	18.39	18.30	18.25
20	QPSK	50	0	18.29	18.37	18.43	18.42	18.27
20	QPSK	50	24	18.34	18.31	18.33	18.30	18.21
20	QPSK	50	49	18.28	18.25	18.37	18.37	18.29
20	QPSK	100	0	18.30	18.37	18.40	18.38	18.30
20	16QAM	1	0	18.35	18.36	18.36	18.32	18.18
20	16QAM	1	49	18.26	18.26	18.36	18.39	18.29
20	16QAM	1	99	18.39	18.31	18.40	18.40	18.28
20	16QAM	50	0	18.28	18.28	18.33	18.30	18.20
20	16QAM	50	24	18.26	18.25	18.32	18.31	18.28
20	16QAM	50	49	18.36	18.41	18.34	18.40	18.29
20	16QAM	100	0	18.30	18.30	18.41	18.28	18.15
20	64QAM	1	0	18.23	18.25	18.38	18.33	18.26
20	64QAM	1	49	18.34	18.33	18.40	18.31	18.32
20	64QAM	1	99	18.31	18.23	18.38	18.29	18.22
20	64QAM	50	0	18.25	18.22	18.36	18.37	18.28
20	64QAM	50	24	18.36	18.36	18.40	18.40	18.25
20	64QAM	50	49	18.35	18.30			



Band 42 Part27Q Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	15.81	15.89	15.87	17.2	0	
20	QPSK	1	49	15.79	15.85	15.77			
20	QPSK	1	99	15.82	15.78	15.74			
20	QPSK	50	0	15.71	15.86	15.78	17.2	0	
20	QPSK	50	24	15.69	15.82	15.65			
20	QPSK	50	50	15.78	15.83	15.79			
20	QPSK	100	0	15.75	15.79	15.70	17.2	0	
20	16QAM	1	0	15.73	15.77	15.76			
20	16QAM	1	49	15.71	15.86	15.61			
20	16QAM	1	99	15.78	15.69	15.60	17.2	0	
20	16QAM	50	0	15.73	15.86	15.75			
20	16QAM	50	24	15.55	15.79	15.63			
20	16QAM	50	50	15.66	15.69	15.70	17.2	0	
20	16QAM	100	0	15.78	15.80	15.58			
20	64QAM	1	0	15.80	15.79	15.84			
20	64QAM	1	49	15.69	15.81	15.73	17.2	0	
20	64QAM	1	99	15.80	15.73	15.66			
20	64QAM	50	0	15.59	15.81	15.71			
20	64QAM	50	24	15.68	15.73	15.61	17.2	0	
20	64QAM	50	50	15.74	15.83	15.82			
20	64QAM	100	0	15.75	15.74	15.68			
20	256QAM	1	0	15.48	15.75	15.60	17.2	0	
20	256QAM	1	49	15.59	15.76	15.53			
20	256QAM	1	99	15.76	15.69	15.80			
20	256QAM	50	0	15.79	15.68	15.58	17.2	0	
20	256QAM	50	24	15.48	15.81	15.68			
20	256QAM	50	50	15.54	15.73	15.51			
20	256QAM	100	0	15.75	15.68	15.80			
Channel				42166	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	15.69	15.75	15.85	17.2	0	
15	QPSK	1	37	15.78	15.85	15.80			
15	QPSK	1	74	15.74	15.76	15.58			
15	QPSK	36	0	15.70	15.81	15.63	17.2	0	
15	QPSK	36	20	15.63	15.80	15.54			
15	QPSK	36	39	15.70	15.71	15.65			
15	QPSK	75	0	15.64	15.76	15.58	17.2	0	
15	16QAM	1	0	15.70	15.71	15.61			
15	16QAM	1	37	15.75	15.71	15.60			
15	16QAM	1	74	15.76	15.68	15.62	17.2	0	
15	16QAM	36	0	15.71	15.78	15.63			
15	16QAM	36	20	15.51	15.76	15.59			
15	16QAM	36	39	15.68	15.71	15.62	17.2	0	
15	16QAM	75	0	15.75	15.71	15.52			
15	64QAM	1	0	15.65	15.77	15.85			
15	64QAM	1	37	15.70	15.79	15.72	17.2	0	
15	64QAM	1	74	15.67	15.69	15.52			
15	64QAM	36	0	15.44	15.77	15.60			
15	64QAM	36	20	15.70	15.71	15.46	17.2	0	
15	64QAM	36	39	15.61	15.72	15.67			
15	64QAM	75	0	15.62	15.72	15.69			
15	256QAM	1	0	15.33	15.78	15.51	17.2	0	
15	256QAM	1	37	15.69	15.68	15.42			
15	256QAM	1	74	15.62	15.64	15.51			
15	256QAM	36	0	15.56	15.74	15.65	17.2	0	
15	256QAM	36	20	15.40	15.81	15.51			
15	256QAM	36	39	15.55	15.62	15.34			
15	256QAM	75	0	15.47	15.68	15.67			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	15.65	15.78	15.87	17.2	0	
10	QPSK	1	25	15.78	15.84	15.70			
10	QPSK	1	49	15.78	15.66	15.74			
10	QPSK	25	0	15.66	15.89	15.79	17.2	0	
10	QPSK	25	12	15.68	15.70	15.50			
10	QPSK	25	25	15.69	15.79	15.76			
10	QPSK	50	0	15.66	15.80	15.71	17.2	0	
10	16QAM	1	0	15.70	15.64	15.71			
10	16QAM	1	25	15.74	15.87	15.63			
10	16QAM	1	49	15.65	15.54	15.59	17.2	0	
10	16QAM	25	0	15.61	15.77	15.76			
10	16QAM	25	12	15.50	15.70	15.62			
10	16QAM	25	25	15.50	15.62	15.57	17.2	0	
10	16QAM	50	0	15.76	15.81	15.61			
10	64QAM	1	0	15.83	15.68	15.84			
10	64QAM	1	25	15.62	15.67	15.65	17.2	0	
10	64QAM	1	49	15.79	15.63	15.65			
10	64QAM	25	0	15.56	15.70	15.62			
10	64QAM	25	12	15.71	15.69	15.57	17.2	0	
10	64QAM	25	25	15.62	15.84	15.70			
10	64QAM	50	0	15.76	15.65	15.56			
10	256QAM	1	0	15.43	15.71	15.66	17.2	0	
10	256QAM	1	25	15.68	15.53	15.45			
10	256QAM	1	49	15.62	15.81	15.72			
10	256QAM	25	0	15.46	15.56	15.52	17.2	0	
10	256QAM	25	12	15.71	15.55	15.50			
10	256QAM	25	25	15.61	15.86	15.54			
10	256QAM	50	0	15.65	15.69	15.57			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	15.83	15.87	15.87	17.2	0	
5	QPSK	1	12	15.80	15.70	15.70			
5	QPSK	1	24	15.83	15.76	15.64			
5	QPSK	12	0	15.71	15.85	15.78	17.2	0	
5	QPSK	12	7	15.54	15.70	15.61			
5	QPSK	12	13	15.65	15.84	15.78			
5	QPSK	25	0	15.64	15.64	15.58	17.2	0	
5	16QAM	1	0	15.57	15.64	15.71			
5	16QAM	1	12	15.70	15.88	15.52			
5	16QAM	1	24	15.75	15.62	15.45	17.2	0	
5	16QAM	12	0	15.60	15.83	15.66			
5	16QAM	12	7	15.52	15.68	15.66			
5	16QAM	12	13	15.50	15.69	15.74	17.2	0	
5	16QAM	25	0	15.75	15.79	15.46			
5	64QAM	1	0	15.74	15.71	15.81			
5	64QAM	1	12	15.67	15.73	15.61	17.2	0	
5	64QAM	1	24	15.73	15.69	15.66			
5	64QAM	12	0	15.49	15.81	15.66			
5	64QAM	12	7	15.68	15.66	15.58	17.2	0	
5	64QAM	12	13	15.76	15.71	15.70			
5	64QAM	25	0	15.68	15.75	15.70			
5	256QAM	1	0	15.34	15.84	15.63	17.2	0	
5	256QAM	1	12	15.54	15.67	15.52			
5	256QAM	1	24	15.72	15.67	15.66			
5	256QAM	12	0	15.38	15.65	15.66	17.2	0	
5	256QAM	12	7	15.68	15.66	15.54			
5	256QAM	12	13	15.68	15.64	15.56			
5	256QAM	25	0	15.66	15.69	15.61			



Band 7 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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.23	22.28	22.25	24	0	
20	QPSK	1	49	22.16	22.21	22.20			
20	QPSK	1	99	22.12	22.15	22.17			
20	QPSK	50	0	21.19	21.30	21.22	23	1	
20	QPSK	50	24	21.14	21.16	21.19			
20	QPSK	50	50	21.07	21.14	21.13			
20	QPSK	100	0	21.16	21.17	21.15			
20	16QAM	1	0	21.11	21.16	21.10	23	1	
20	16QAM	1	49	21.02	21.05	21.08			
20	16QAM	1	99	21.03	21.05	21.09			
20	16QAM	50	0	20.22	20.32	20.23	22	2	
20	16QAM	50	24	20.13	20.11	20.20			
20	16QAM	50	50	20.04	20.15	20.12			
20	16QAM	100	0	20.11	20.19	20.15			
20	64QAM	1	0	20.14	20.11	20.11	22	2	
20	64QAM	1	49	20.01	20.03	20.12			
20	64QAM	1	99	20.10	20.08	20.13			
20	64QAM	50	0	19.18	19.27	19.21	21	3	
20	64QAM	50	24	19.12	19.18	19.24			
20	64QAM	50	50	19.02	19.10	19.11			
20	64QAM	100	0	19.19	19.18	19.14			
20	256QAM	1	0	17.21	17.28	17.16	19	5	
20	256QAM	1	49	17.03	17.04	17.28			
20	256QAM	1	99	17.10	17.15	17.05			
20	256QAM	50	0	17.20	17.12	17.10	19	5	
20	256QAM	50	24	17.13	17.15	17.03			
20	256QAM	50	50	17.05	17.11	17.20			
20	256QAM	100	0	17.13	17.04	17.15			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.13	22.19	22.14	24	0	
15	QPSK	1	37	22.06	22.11	22.13			
15	QPSK	1	74	22.10	22.03	22.09			
15	QPSK	36	0	21.06	21.21	21.09	23	1	
15	QPSK	36	20	21.10	21.11	21.14			
15	QPSK	36	39	21.06	21.04	21.08			
15	QPSK	75	0	21.04	21.11	21.09			
15	16QAM	1	0	21.01	21.05	21.07	23	1	
15	16QAM	1	37	21.13	21.08	21.06			
15	16QAM	1	74	21.18	21.05	21.04			
15	16QAM	36	0	20.17	20.20	20.13	22	2	
15	16QAM	36	20	20.11	20.03	20.08			
15	16QAM	36	39	20.10	20.11	20.01			
15	16QAM	75	0	20.01	20.12	20.02			
15	64QAM	1	0	20.04	20.04	20.03	22	2	
15	64QAM	1	37	20.07	20.12	20.03			
15	64QAM	1	74	20.06	20.03	20.10			
15	64QAM	36	0	19.09	19.16	19.09	21	3	
15	64QAM	36	20	19.02	19.06	19.20			
15	64QAM	36	39	19.12	19.02	19.03			
15	64QAM	75	0	19.06	19.14	19.02			
15	256QAM	1	0	17.22	17.28	17.26	19	5	
15	256QAM	1	37	17.19	17.17	17.17			
15	256QAM	1	74	17.01	17.14	17.08			
15	256QAM	36	0	17.08	17.29	17.07	19	5	
15	256QAM	36	20	17.07	17.01	17.08			
15	256QAM	36	39	17.05	17.09	17.03			
15	256QAM	75	0	17.11	17.14	17.06			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.11	22.23	22.11	24	0	
10	QPSK	1	25	22.15	22.18	22.14			
10	QPSK	1	49	22.11	22.04	22.16			
10	QPSK	25	0	21.18	21.33	21.13	23	1	
10	QPSK	25	12	21.15	21.07	21.06			
10	QPSK	25	25	21.06	21.06	21.10			
10	QPSK	50	0	21.16	21.13	21.14			
10	16QAM	1	0	21.15	21.19	21.15	23	1	
10	16QAM	1	25	21.03	21.14	21.11			
10	16QAM	1	49	21.04	21.10	21.11			
10	16QAM	25	0	20.19	20.35	20.15	22	2	
10	16QAM	25	12	20.11	20.03	20.13			
10	16QAM	25	25	20.06	20.18	20.17			
10	16QAM	50	0	20.11	20.13	20.09			
10	64QAM	1	0	20.06	20.14	20.12	22	2	
10	64QAM	1	25	20.07	20.07	20.01			
10	64QAM	1	49	20.15	20.11	20.04			
10	64QAM	25	0	19.03	19.26	19.12	21	3	
10	64QAM	25	12	19.15	19.21	19.21			
10	64QAM	25	25	19.07	19.10	19.08			
10	64QAM	50	0	19.14	19.15	19.04			
10	256QAM	1	0	17.29	17.34	17.23	19	5	
10	256QAM	1	25	17.09	17.06	17.20			
10	256QAM	1	49	17.15	17.25	17.11			
10	256QAM	25	0	17.11	17.26	17.08	19	5	
10	256QAM	25	12	17.17	17.18	17.04			
10	256QAM	25	25	17.10	17.00	17.15			
10	256QAM	50	0	17.19	17.17	17.12			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.11	22.25	22.11	24	0	
5	QPSK	1	12	22.01	22.13	22.16			
5	QPSK	1	24	22.15	22.18	22.20			
5	QPSK	12	0	21.15	21.23	21.22	23	1	
5	QPSK	12	7	21.17	21.17	21.21			
5	QPSK	12	13	21.11	21.03	21.10			
5	QPSK	25	0	21.02	21.21	21.12			
5	16QAM	1	0	21.12	21.14	21.03	23	1	
5	16QAM	1	12	21.07	21.03	21.05			
5	16QAM	1	24	21.05	21.10	21.14			
5	16QAM	12	0	20.16	20.19	20.28	22	2	
5	16QAM	12	7	20.12	20.07	20.22			
5	16QAM	12	13	20.10	20.01	20.09			
5	16QAM	25	0	20.11	20.18	20.01			
5	64QAM	1	0	20.04	20.12	20.14	22	2	
5	64QAM	1	12	20.11	20.10	20.14			
5	64QAM	1	24	20.13	20.17	20.15			
5	64QAM	12	0	19.16	19.22	19.06	21	3	
5	64QAM	12	7	19.16	19.10	19.14			
5	64QAM	12	13	19.07	19.01	19.12			
5	64QAM	25	0	19.11	19.04	19.12			
5	256QAM	1	0	17.12	17.34	17.16	19	5	
5	256QAM	1	12	17.16	17.07	17.21			
5	256QAM	1	24	17.07	17.09	17.17			
5	256QAM	12	0	17.16	17.14	17.17	19	5	
5	256QAM	12	7	17.04	17.18	17.04			
5	256QAM	12	13	17.05	17.02	17.10			
5	256QAM	25	0	17.12	17.11	17.10			

## Reduced Power Mode for DSI3 Standalone

GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.49	31.56	31.54	33.20	22.49	22.56	22.54	24.20
GPRS 1 Tx slots	31.61	31.75	31.80	33.20	22.61	22.75	22.60	24.20
GPRS 2 Tx slots	28.63	28.68	28.59	30.20	22.63	22.68	22.59	24.20
GPRS 3 Tx slots	26.97	27.04	26.96	28.40	22.71	22.78	22.70	24.14
GPRS 4 Tx slots	26.05	26.05	26.02	27.20	23.05	23.05	23.02	24.20
EDGE 1 Tx slot	25.79	25.83	25.79	27.00	16.79	16.83	16.79	18.00
EDGE 2 Tx slots	24.85	24.94	24.88	26.00	18.85	18.94	18.88	20.00
EDGE 3 Tx slots	22.73	22.88	22.78	24.00	18.47	18.62	18.52	19.74
EDGE 4 Tx slots	20.70	20.79	20.73	22.00	17.70	17.79	17.73	19.00

GSM1800 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	27.66	27.67	27.61	28.60	18.66	18.67	18.61	19.60
GPRS 1 Tx slots	27.76	27.78	27.66	28.60	18.76	18.78	18.66	19.60
GPRS 2 Tx slots	24.16	24.30	24.22	25.60	18.16	18.30	18.22	19.60
GPRS 3 Tx slots	22.46	22.50	22.36	23.80	18.20	18.24	18.10	19.54
GPRS 4 Tx slots	21.56	21.70	21.49	22.60	18.56	18.70	18.49	19.60
EDGE 1 Tx slot	25.55	25.58	25.48	27.00	16.55	16.58	16.48	18.00
EDGE 2 Tx slots	25.09	25.14	25.08	25.50	19.09	19.14	19.08	19.50
EDGE 3 Tx slots	22.70	22.83	22.80	23.50	18.44	18.57	18.54	19.24
EDGE 4 Tx slots	20.16	20.29	20.23	21.50	17.16	17.29	17.23	18.50

Band TX Channel Rx Channel Frequency (MHz)	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4182	4233		
	9662	9800	9938		4357	4407	4458		
3GPP Rel 99	1852.4	1880	1907.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	17.04	17.17	17.22	18.20	22.54	22.67	22.53	24.00
3GPP Rel 99	RMC 12.2Kbps	17.22	17.34	17.30	18.20	22.61	22.78	22.66	24.00
3GPP Rel 6	HSDPA Subtest-1	16.21	16.28	16.27	17.20	21.43	21.72	21.55	23.00
3GPP Rel 6	HSDPA Subtest-2	16.25	16.38	16.26	17.20	21.67	21.90	21.77	21.90
3GPP Rel 6	HSDPA Subtest-3	15.66	15.77	15.83	16.70	20.99	21.26	21.14	22.50
3GPP Rel 6	HSDPA Subtest-4	15.69	15.77	15.87	16.70	21.07	21.26	21.18	22.50
3GPP Rel 6	HSUPA Subtest-1	17.19	17.22	17.21	18.20	22.55	22.71	22.61	24.00
3GPP Rel 6	HSUPA Subtest-2	15.19	15.36	15.36	16.20	20.64	20.88	20.76	22.00
3GPP Rel 6	HSUPA Subtest-3	16.26	16.35	16.35	17.20	21.49	21.66	21.63	23.00
3GPP Rel 6	HSUPA Subtest-4	15.19	15.33	15.26	16.20	20.64	20.84	20.59	22.00
3GPP Rel 6	HSUPA Subtest-5	17.08	17.25	17.22	18.20	22.50	22.70	22.57	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.66	14.79	14.80	15.70	20.23	20.28	20.20	21.50



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Main Ch./Freq.	Power High Ch./Freq.	Turnup (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.76	16.86	16.74	18	0		
20	QPSK	1	49	16.76	16.86	16.74	18	0		
20	QPSK	1	99	16.77	16.80	16.74	18	0		
20	QPSK	50	0	16.66	16.74	16.68	18	0		
20	QPSK	50	50	16.66	16.65	16.68	18	0		
20	QPSK	50	100	16.70	16.70	16.68	18	0		
20	QPSK	100	0	16.71	16.72	16.71	18	0		
20	QPSK	100	50	16.47	16.72	16.67	18	0		
20	QPSK	1	49	16.41	16.58	16.58	18	0		
20	HQAM	1	59	16.46	16.61	16.58	18	0		
20	HQAM	50	0	16.51	16.58	16.59	18	0		
20	HQAM	50	24	16.48	16.54	16.54	18	0		
20	HQAM	50	50	16.40	16.57	16.54	18	0		
20	HQAM	100	0	16.50	16.58	16.57	18	0		
20	HQAM	1	0	16.36	16.66	16.48	18	0		
20	HQAM	1	49	16.40	16.51	16.50	18	0		
20	HQAM	50	0	16.40	16.59	16.43	18	0		
20	HQAM	50	24	16.36	16.57	16.52	18	0		
20	HQAM	50	50	16.54	16.58	16.49	18	0		
20	HQAM	100	0	16.42	16.53	16.47	18	0		
20	ZSSBAM	1	49	16.50	16.48	16.48	18	0		
20	ZSSBAM	1	99	16.37	16.59	16.45	18	0		
20	ZSSBAM	50	0	16.50	16.50	16.47	18	0		
20	ZSSBAM	50	24	16.55	16.70	16.47	18	0		
20	ZSSBAM	50	50	16.41	16.57	16.52	18	0		
20	ZSSBAM	100	0	16.51	16.50	16.48	18	0		
Channel										
Frequency (MHz)										
16	QPSK	1	0	16.53	16.66	16.43	18	0		
16	QPSK	1	37	16.48	16.65	16.48	18	0		
16	QPSK	1	74	16.49	16.58	16.48	18	0		
16	QPSK	36	0	16.51	16.56	16.43	18	0		
16	QPSK	36	20	16.30	16.45	16.41	18	0		
16	QPSK	36	36	16.42	16.46	16.38	18	0		
16	QPSK	75	0	16.42	16.50	16.44	18	0		
16	HQAM	1	37	16.38	16.39	16.31	18	0		
16	HQAM	36	0	16.31	16.41	16.23	18	0		
16	HQAM	36	20	16.22	16.27	16.39	18	0		
16	HQAM	75	0	16.42	16.39	16.23	18	0		
16	HQAM	1	0	16.11	16.44	16.19	18	0		
16	HQAM	1	37	16.42	16.39	16.23	18	0		
16	HQAM	36	0	16.22	16.40	16.13	18	0		
16	HQAM	36	36	16.27	16.34	16.31	18	0		
16	HQAM	75	0	16.13	16.34	16.31	18	0		
16	ZSSBAM	1	37	16.32	16.46	16.35	18	0		
16	ZSSBAM	1	74	16.16	16.38	16.30	18	0		
16	ZSSBAM	36	0	16.26	16.34	16.28	18	0		
16	ZSSBAM	36	20	16.40	16.54	16.31	18	0		
16	ZSSBAM	75	0	16.20	16.32	16.32	18	0		
16	ZSSBAM	75	0	16.22	16.33	16.32	18	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.57	16.60	16.50	18	0		
10	QPSK	1	25	16.37	16.59	16.47	18	0		
10	QPSK	1	49	16.63	16.53	16.45	18	0		
10	QPSK	25	0	16.48	16.58	16.48	18	0		
10	QPSK	25	12	16.33	16.46	16.42	18	0		
10	QPSK	25	25	16.56	16.56	16.46	18	0		
10	QPSK	50	0	16.50	16.50	16.46	18	0		
10	HQAM	1	0	16.29	16.37	16.31	18	0		
10	HQAM	1	25	16.18	16.38	16.33	18	0		
10	HQAM	25	0	16.26	16.39	16.23	18	0		
10	HQAM	25	12	16.31	16.39	16.38	18	0		
10	HQAM	50	0	16.27	16.34	16.32	18	0		
10	HQAM	50	0	16.40	16.45	16.23	18	0		
10	HQAM	1	0	16.10	16.45	16.23	18	0		
10	HQAM	1	49	16.39	16.44	16.33	18	0		
10	HQAM	25	0	16.32	16.42	16.27	18	0		
10	HQAM	25	12	16.28	16.40	16.21	18	0		
10	HQAM	50	0	16.20	16.43	16.32	18	0		
10	ZSSBAM	1	25	16.40	16.45	16.33	18	0		
10	ZSSBAM	1	25	16.40	16.45	16.33	18	0		
10	ZSSBAM	1	49	16.11	16.32	16.25	18	0		
10	ZSSBAM	25	0	16.37	16.27	16.25	18	0		
10	ZSSBAM	25	12	16.27	16.42	16.29	18	0		
10	ZSSBAM	25	25	16.16	16.33	16.28	18	0		
10	ZSSBAM	50	0	16.34	16.38	16.28	18	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.51	16.59	16.55	18	0		
5	QPSK	1	24	16.40	16.66	16.47	18	0		
5	QPSK	12	0	16.37	16.57	16.43	18	0		
5	QPSK	12	13	16.53	16.53	16.44	18	0		
5	QPSK	24	0	16.44	16.48	16.43	18	0		
5	HQAM	1	0	16.23	16.51	16.36	18	0		
5	HQAM	1	12	16.14	16.29	16.37	18	0		
5	HQAM	12	0	16.41	16.38	16.33	18	0		
5	HQAM	12	7	16.23	16.33	16.25	18	0		
5	HQAM	24	0	16.34	16.36	16.26	18	0		
5	HQAM	1	0	16.16	16.44	16.18	18	0		
5	HQAM	1	12	16.34	16.38	16.30	18	0		
5	HQAM	1	24	16.39	16.41	16.30	18	0		
5	HQAM	12	0	16.27	16.46	16.20	18	0		
5	HQAM	12	13	16.27	16.38	16.26	18	0		
5	HQAM	24	0	16.29	16.49	16.29	18	0		
5	HQAM	25	0	16.10	16.42	16.24	18	0		
5	ZSSBAM	1	0	16.43	16.45	16.45	18	0		
5	ZSSBAM	1	12	16.27	16.41	16.25	18	0		
5	ZSSBAM	1	24	16.23	16.42	16.28	18	0		
5	ZSSBAM	12	0	16.37	16.28	16.26	18	0		
5	ZSSBAM	12	7	16.41	16.52	16.22	18	0		
5	ZSSBAM	12	13	16.16	16.32	16.26	18	0		
5	ZSSBAM	25	0	16.20	16.27	16.30	18	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.43	16.52	16.58	18	0		
3	QPSK	1	8	16.49	16.60	16.48	18	0		
3	QPSK	1	14	16.51	16.53	16.45	18	0		
3	QPSK	8	0	16.40	16.54	16.30	18	0		
3	QPSK	8	4	16.36	16.46	16.46	18	0		
3	QPSK	8	7	16.45	16.56	16.40	18	0		
3	HQAM	1	0	16.44	16.45	16.45	18	0		
3	HQAM	1	8	16.26	16.50	16.32	18	0		
3	HQAM	8	0	16.23	16.39	16.29	18	0		
3	HQAM	8	4	16.27	16.27	16.24	18	0		
3	HQAM	15	0	16.32	16.36	16.40	18	0		
3	HQAM	15	0	16.31	16.36	16.29	18	0		
3	HQAM	1	0	16.00	16.43	16.19	18	0		
3	HQAM	1	8	16.32	16.32	16.29	18	0		
3	HQAM	1	14	16.45	16.46	16.36	18	0		
3	HQAM	8	0	16.20	16.44	16.20	18	0		
3	HQAM	8	4	16.32	16.36	16.30	18	0		
3	HQAM	8	7	16.37	16.43	16.20	18	0		
3	ZSSBAM	1	0	16.34	16.47	16.21	18	0		
3	ZSSBAM	1	8	16.32	16.45	16.24	18	0		
3	ZSSBAM	1	14	16.32	16.33	16.27	18	0		
3	ZSSBAM	8	0	16.32	16.38	16.10	18	0		
3	ZSSBAM	8	4	16.31	16.42	16.28	18	0		
3	ZSSBAM	8	7	16.17	16.36	16.29	18	0		
3	ZSSBAM	15	0	16.27	16.34	16.21	18	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.50	16.71	16.50	18	0		
1.4	QPSK	1	3	16.37	16.66	16.45	18	0		
1.4	QPSK	1</								



Band 5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	21.60	21.69	21.63	23	0	
10	QPSK	1	25	21.42	21.58	21.52			
10	QPSK	1	49	21.50	21.49	21.48			
10	QPSK	25	0	20.65	20.71	20.60	22	1	
10	QPSK	25	12	20.42	20.56	20.53			
10	QPSK	25	25	20.48	20.47	20.50			
10	QPSK	50	0	20.45	20.61	20.56	22	1	
10	16QAM	1	0	20.61	20.66	20.47			
10	16QAM	1	25	20.33	20.51	20.46			
10	16QAM	1	49	20.43	20.38	20.38	21	2	
10	16QAM	25	0	19.65	19.69	19.63			
10	16QAM	25	12	19.43	19.56	19.55			
10	16QAM	25	25	19.48	19.42	19.54	21	2	
10	16QAM	50	0	19.45	19.65	19.60			
10	64QAM	1	0	19.59	19.65	19.50			
10	64QAM	1	25	19.34	19.55	19.51	21	2	
10	64QAM	1	49	19.41	19.43	19.43			
10	64QAM	25	0	18.65	18.74	18.59			
10	64QAM	25	12	18.39	18.53	18.50	20	3	
10	64QAM	25	25	18.53	18.44	18.53			
10	64QAM	50	0	18.50	18.63	18.55			
10	256QAM	1	0	17.67	17.64	17.62	18	5	
10	256QAM	1	25	17.38	17.59	17.46			
10	256QAM	1	49	17.52	17.39	17.50			
10	256QAM	25	0	17.42	17.63	17.57	18	5	
10	256QAM	25	12	17.66	17.70	17.41			
10	256QAM	25	25	17.38	17.48	17.61			
10	256QAM	50	0	17.43	17.35	17.48			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.51	21.62	21.58	23	0	
5	QPSK	1	12	21.38	21.47	21.51			
5	QPSK	1	24	21.48	21.47	21.39			
5	QPSK	12	0	20.63	20.67	20.54	22	1	
5	QPSK	12	7	20.40	20.54	20.49			
5	QPSK	12	13	20.39	20.41	20.46			
5	QPSK	25	0	20.40	20.51	20.47	22	1	
5	16QAM	1	0	20.58	20.64	20.36			
5	16QAM	1	12	20.30	20.45	20.36			
5	16QAM	1	24	20.38	20.32	20.37	21	2	
5	16QAM	12	0	19.60	19.61	19.61			
5	16QAM	12	7	19.34	19.54	19.53			
5	16QAM	12	13	19.40	19.38	19.53	21	2	
5	16QAM	25	0	19.36	19.62	19.51			
5	64QAM	1	0	19.50	19.60	19.40			
5	64QAM	1	12	19.30	19.45	19.44	21	2	
5	64QAM	1	24	19.33	19.42	19.41			
5	64QAM	12	0	18.62	18.72	18.58			
5	64QAM	12	7	18.36	18.47	18.43	20	3	
5	64QAM	12	13	18.44	18.36	18.47			
5	64QAM	25	0	18.42	18.54	18.54			
5	256QAM	1	0	17.62	17.71	17.59	18	5	
5	256QAM	1	12	17.47	17.57	17.60			
5	256QAM	1	24	17.46	17.44	17.58			
5	256QAM	12	0	17.51	17.59	17.51	18	5	
5	256QAM	12	7	17.58	17.60	17.55			
5	256QAM	12	13	17.27	17.50	17.54			
5	256QAM	25	0	17.43	17.43	17.41			
Channel				20415	20525	20635			
Frequency (MHz)				826.5	836.5	847.5			
3	QPSK	1	0	21.55	21.64	21.53	23	0	
3	QPSK	1	8	21.36	21.54	21.50			
3	QPSK	1	14	21.40	21.43	21.43			
3	QPSK	8	0	20.56	20.64	20.56	22	1	
3	QPSK	8	4	20.34	20.55	20.47			
3	QPSK	8	7	20.38	20.39	20.47			
3	QPSK	15	0	20.43	20.52	20.54	22	1	
3	16QAM	1	0	20.55	20.65	20.38			
3	16QAM	1	8	20.32	20.45	20.41			
3	16QAM	1	14	20.42	20.34	20.34	21	2	
3	16QAM	8	0	19.60	19.67	19.54			
3	16QAM	8	4	19.34	19.49	19.44			
3	16QAM	8	7	19.41	19.39	19.52	21	2	
3	16QAM	15	0	19.41	19.57	19.50			
3	64QAM	1	0	19.54	19.62	19.42			
3	64QAM	1	8	19.33	19.52	19.42	20	3	
3	64QAM	1	14	19.34	19.38	19.34			
3	64QAM	8	0	18.54	18.66	18.51			
3	64QAM	8	4	18.37	18.44	18.44	18	5	
3	64QAM	8	7	18.52	18.34	18.46			
3	64QAM	15	0	18.42	18.59	18.50			
3	256QAM	1	0	17.73	17.65	17.72	18	5	
3	256QAM	1	8	17.34	17.58	17.47			
3	256QAM	1	14	17.47	17.33	17.59			
3	256QAM	8	0	17.46	17.65	17.57	18	5	
3	256QAM	8	4	17.64	17.57	17.44			
3	256QAM	8	7	17.38	17.56	17.51			
3	256QAM	15	0	17.38	17.39	17.35			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.50	21.60	21.58	23	0	
1.4	QPSK	1	3	21.36	21.49	21.51			
1.4	QPSK	1	5	21.48	21.47	21.37			
1.4	QPSK	3	0	21.44	21.58	21.51	22	1	
1.4	QPSK	3	1	21.31	21.40	21.44			
1.4	QPSK	3	3	21.42	21.40	21.34			
1.4	QPSK	6	0	20.41	20.52	20.46	22	1	
1.4	16QAM	1	0	20.56	20.62	20.43			
1.4	16QAM	1	3	20.29	20.44	20.41			
1.4	16QAM	1	5	20.35	20.33	20.35	21	2	
1.4	16QAM	3	0	20.48	20.60	20.40			
1.4	16QAM	3	1	20.19	20.36	20.34			
1.4	16QAM	3	3	20.33	20.27	20.34	21	2	
1.4	16QAM	6	0	19.39	19.59	19.54			
1.4	64QAM	1	0	19.57	19.60	19.39			
1.4	64QAM	1	3	19.28	19.48	19.49	21	2	
1.4	64QAM	1	5	19.39	19.34	19.41			
1.4	64QAM	3	0	19.49	19.53	19.34			
1.4	64QAM	3	1	19.18	19.43	19.40	20	3	
1.4	64QAM	3	3	19.37	19.28	19.34			
1.4	64QAM	6	0	18.42	18.59	18.52			
1.4	256QAM	1	0	17.72	17.76	17.56	18	5	
1.4	256QAM	1	3	17.49	17.65	17.53			
1.4	256QAM	1	5	17.42	17.51	17.54			
1.4	256QAM	3	0	17.39	17.57	17.60	19	0.3	
1.4	256QAM	3	1	17.68	17.59	17.56			
1.4	256QAM	3	3	17.33	17.58	17.54			
1.4	256QAM	6	0	17.36	17.45	17.36	18	5	

Band 7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	18.30	18.46	18.31	19.3	0	
20	QPSK	1	49	18.27	18.43	18.33			
20	QPSK	1	99	18.18	18.36	18.18			
20	QPSK	50	0	18.19	18.40	18.37	19.3	0	
20	QPSK	50	24	18.32	18.34	18.29			
20	QPSK	50	50	18.24	18.39	18.28			
20	QPSK	100	0	18.10	18.39	18.15	19.3	0	
20	16QAM	1	0	18.16	18.36	18.26			
20	16QAM	1	49	18.22	18.30	18.19			
20	16QAM	1	99	18.04	18.29	18.09	19.3	0	
20	16QAM	50	0	18.05	18.28	18.33			
20	16QAM	50	24	18.27	18.21	18.18			
20	16QAM	50	50	18.09	18.28	18.22	19.3	0	
20	16QAM	100	0	18.03	18.30	18.08			
20	64QAM	1	0	18.26	18.36	18.20			
20	64QAM	1	49	18.20	18.38	18.18	19.3	0	
20	64QAM	1	99	18.03	18.24	18.15			
20	64QAM	50	0	18.15	18.36	18.33			
20	64QAM	50	24	18.21	18.28	18.26	19.3	0	
20	64QAM	50	50	18.18	18.27	18.18			
20	64QAM	100	0	17.98	18.28	18.05			
20	256QAM	1	0	18.02	18.25	18.11	19	0.3	
20	256QAM	1	49	18.10	18.18	18.14			
20	256QAM	1	99	17.97	18.25	17.96			
20	256QAM	50	0	17.93	18.20	18.23	19	0.3	
20	256QAM	50	24	18.13	18.07	18.14			
20	256QAM	50	50	18.03	18.20	18.18			



### Band 38 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3795.0	3800.0	3815.0		
20	QPSK	1	0	18.46	18.57	18.54	18.9	0
20	QPSK	1	49	18.37	18.52	18.36	18.9	0
20	QPSK	1	99	18.40	18.49	18.35	18.9	0
20	QPSK	50	0	18.37	18.52	18.45	18.9	0
20	QPSK	50	24	18.37	18.44	18.40	18.9	0
20	QPSK	50	50	18.30	18.54	18.50	18.9	0
20	QPSK	100	0	18.34	18.40	18.33	18.9	0
20	16QAM	1	0	18.39	18.55	18.40	18.9	0
20	16QAM	1	49	18.32	18.51	18.35	18.9	0
20	16QAM	1	99	18.36	18.54	18.40	18.9	0
20	16QAM	50	0	18.39	18.45	18.43	18.9	0
20	16QAM	50	24	18.30	18.51	18.46	18.9	0
20	16QAM	50	50	18.35	18.55	18.38	18.9	0
20	16QAM	100	0	18.39	18.48	18.40	18.9	0
20	16QAM	100	1	18.46	18.54	18.44	18.9	0
20	64QAM	1	49	18.36	18.51	18.40	18.9	0
20	64QAM	1	99	18.43	18.51	18.45	18.9	0
20	64QAM	50	0	18.33	18.52	18.38	18.9	0
20	64QAM	50	24	18.34	18.55	18.40	18.9	0
20	64QAM	50	50	18.37	18.48	18.38	18.9	0
20	64QAM	100	0	18.37	18.47	18.50	18.9	0
20	256QAM	1	49	18.29	18.37	18.27	18.9	0
20	256QAM	1	99	18.31	18.52	18.44	18.9	0
20	256QAM	50	0	18.28	18.23	18.36	18.9	0
20	256QAM	50	24	18.22	18.40	18.31	18.9	0
20	256QAM	50	50	18.23	18.33	18.28	18.9	0
20	256QAM	100	0	18.23	18.24	18.29	18.9	0
Channel								
Frequency (MHz)				3797.5	3802.5	3817.5		
15	QPSK	1	0	18.39	18.46	18.46	18.9	0
15	QPSK	1	31	18.34	18.42	18.29	18.9	0
15	QPSK	1	74	18.34	18.40	18.25	18.9	0
15	QPSK	36	0	18.26	18.39	18.34	18.9	0
15	QPSK	36	18	18.23	18.32	18.23	18.9	0
15	QPSK	36	39	18.25	18.33	18.36	18.9	0
15	QPSK	75	0	18.24	18.35	18.26	18.9	0
15	16QAM	1	0	18.21	18.23	18.24	18.9	0
15	16QAM	1	31	18.23	18.42	18.32	18.9	0
15	16QAM	1	74	18.27	18.49	18.28	18.9	0
15	16QAM	36	0	18.30	18.32	18.36	18.9	0
15	16QAM	36	18	18.25	18.38	18.29	18.9	0
15	16QAM	36	39	18.31	18.50	18.29	18.9	0
15	16QAM	75	0	18.36	18.41	18.27	18.9	0
15	64QAM	1	0	18.24	18.48	18.20	18.9	0
15	64QAM	1	37	18.24	18.37	18.31	18.9	0
15	64QAM	1	74	18.27	18.48	18.36	18.9	0
15	64QAM	36	0	18.25	18.43	18.34	18.9	0
15	64QAM	36	18	18.21	18.47	18.29	18.9	0
15	64QAM	36	39	18.26	18.37	18.23	18.9	0
15	64QAM	75	0	18.27	18.36	18.28	18.9	0
15	256QAM	1	0	18.22	18.30	18.22	18.9	0
15	256QAM	1	37	18.21	18.40	18.37	18.9	0
15	256QAM	1	74	18.21	18.45	18.29	18.9	0
15	256QAM	36	0	18.20	18.25	18.38	18.9	0
15	256QAM	36	20	18.12	18.26	18.20	18.9	0
15	256QAM	36	39	18.17	18.23	18.21	18.9	0
15	256QAM	75	0	18.14	18.23	18.20	18.9	0
Channel								
Frequency (MHz)				3797.0	3802.0	3807.0		
10	QPSK	1	0	18.33	18.43	18.47	18.9	0
10	QPSK	1	49	18.28	18.37	18.23	18.9	0
10	QPSK	25	0	18.23	18.45	18.42	18.9	0
10	QPSK	25	25	18.19	18.37	18.43	18.9	0
10	QPSK	50	0	18.19	18.30	18.20	18.9	0
10	16QAM	1	0	18.27	18.48	18.21	18.9	0
10	16QAM	1	24	18.27	18.48	18.31	18.9	0
10	16QAM	1	49	18.28	18.42	18.29	18.9	0
10	16QAM	25	0	18.34	18.36	18.33	18.9	0
10	16QAM	25	12	18.15	18.42	18.28	18.9	0
10	16QAM	25	25	18.21	18.42	18.31	18.9	0
10	16QAM	50	0	18.35	18.39	18.34	18.9	0
10	16QAM	50	12	18.21	18.38	18.30	18.9	0
10	64QAM	1	25	18.24	18.39	18.31	18.9	0
10	64QAM	1	49	18.38	18.37	18.37	18.9	0
10	64QAM	25	0	18.25	18.44	18.30	18.9	0
10	64QAM	25	12	18.31	18.45	18.28	18.9	0
10	64QAM	25	25	18.27	18.43	18.33	18.9	0
10	64QAM	50	0	18.31	18.40	18.44	18.9	0
10	256QAM	1	0	18.25	18.35	18.32	18.9	0
10	256QAM	1	25	18.15	18.42	18.33	18.9	0
10	256QAM	1	49	18.20	18.49	18.36	18.9	0
10	256QAM	25	0	18.19	18.23	18.18	18.9	0
10	256QAM	25	12	18.08	18.26	18.23	18.9	0
10	256QAM	25	25	18.14	18.24	18.25	18.9	0
10	256QAM	50	0	18.14	18.23	18.20	18.9	0
Channel								
Frequency (MHz)				3797.5	3802.5	3807.5		
5	QPSK	1	0	18.33	18.51	18.44	18.9	0
5	QPSK	1	24	18.37	18.44	18.23	18.9	0
5	QPSK	12	0	18.33	18.46	18.41	18.9	0
5	QPSK	12	13	18.16	18.36	18.41	18.9	0
5	QPSK	25	0	18.29	18.34	18.28	18.9	0
5	16QAM	1	12	18.21	18.42	18.30	18.9	0
5	16QAM	1	24	18.24	18.46	18.28	18.9	0
5	16QAM	12	0	18.20	18.31	18.26	18.9	0
5	16QAM	12	13	18.20	18.36	18.27	18.9	0
5	16QAM	25	0	18.28	18.50	18.31	18.9	0
5	16QAM	25	13	18.31	18.33	18.27	18.9	0
5	64QAM	1	12	18.22	18.37	18.35	18.9	0
5	64QAM	1	24	18.35	18.44	18.33	18.9	0
5	64QAM	12	0	18.20	18.40	18.31	18.9	0
5	64QAM	12	13	18.28	18.36	18.27	18.9	0
5	64QAM	25	0	18.28	18.33	18.27	18.9	0
5	256QAM	1	12	18.22	18.43	18.38	18.9	0
5	256QAM	1	24	18.16	18.38	18.28	18.9	0
5	256QAM	12	0	18.29	18.20	18.37	18.9	0
5	256QAM	12	13	18.17	18.23	18.23	18.9	0
5	256QAM	25	0	18.23	18.28	18.34	18.9	0

### Band 41 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3975.0	40185	40620	41055	41490
20	QPSK	1	0	18.49	18.52	18.66	18.58	18.57
20	QPSK	1	49	18.37	18.45	18.45	18.45	18.45
20	QPSK	1	99	18.38	18.46	18.62	18.45	18.46
20	QPSK	50	0	18.41	18.42	18.59	18.53	18.47
20	QPSK	50	24	18.40	18.46	18.51	18.55	18.51
20	QPSK	50	50	18.40	18.41	18.54	18.53	18.48
20	QPSK	100	0	18.43	18.41	18.54	18.50	18.50
20	16QAM	1	0	18.46	18.46	18.62	18.50	18.50
20	16QAM	1	49	18.38	18.47	18.46	18.45	18.45
20	16QAM	1	99	18.42	18.49	18.58	18.49	18.46
20	16QAM	50	0	18.44	18.49	18.55	18.50	18.54
20	16QAM	50	24	18.36	18.42	18.54	18.54	18.52
20	16QAM	50	50	18.37	18.48	18.57	18.48	18.50
20	16QAM	100	0	18.44	18.50	18.54	18.49	18.55
20	64QAM	1	0	18.44	18.49	18.62	18.53	18.47
20	64QAM	1	49	18.40	18.44	18.57	18.55	18.55
20	64QAM	1	99	18.39	18.46	18.63	18.55	18.48
20	64QAM	50	0	18.43	18.46	18.57	18.47	18.52
20	64QAM	50	24	18.43	18.41	18.58	18.54	18.45
20	64QAM	50	50	18.38	18.47	18.55	18.48	18.54
20	64QAM	100	0	18.43	18.43	18.55	18.54	18.54
20	256QAM	1	0	18.35	18.40	18.34	18.34	18.34
20	256QAM	1	49	18.29	18.35	18.52	18.49	18.50
20	256QAM	1	99	18.27	18.37	18.58	18.46	18.43
20	256QAM	50	0	18.36	18.36	18.48	18.36	18.



Band 42 Part27Q Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	18.34	18.39	18.36	19.6	0	
20	QPSK	1	49	18.28	18.35	18.23			
20	QPSK	1	99	18.28	18.28	18.17			
20	QPSK	50	0	18.09	18.10	18.07	19.6	0	
20	QPSK	50	24	18.06	17.98	17.98			
20	QPSK	50	50	17.99	18.05	17.88			
20	QPSK	100	0	17.97	18.08	18.00	19.6	0	
20	16QAM	1	0	18.01	18.06	17.93			
20	16QAM	1	49	17.99	17.93	17.90			
20	16QAM	1	99	18.05	18.11	18.06	19.6	0	
20	16QAM	50	0	18.07	18.14	18.13			
20	16QAM	50	24	17.99	18.12	17.98			
20	16QAM	50	50	17.92	18.02	17.83	19.6	0	
20	16QAM	100	0	18.01	18.05	18.07			
20	64QAM	1	0	18.04	18.11	17.97			
20	64QAM	1	49	18.03	17.92	17.93	19.6	0	
20	64QAM	1	99	18.01	18.11	18.00			
20	64QAM	50	0	18.00	18.12	17.88			
20	64QAM	50	24	18.05	18.03	17.85	19.6	0	
20	64QAM	50	50	18.11	18.15	18.03			
20	64QAM	100	0	18.02	18.07	17.89			
20	256QAM	1	0	17.31	17.34	17.16	19	0.6	
20	256QAM	1	49	17.18	17.16	17.24			
20	256QAM	1	99	17.22	17.09	17.17			
20	256QAM	50	0	17.24	17.24	17.00	19	0.6	
20	256QAM	50	24	17.30	17.10	17.14			
20	256QAM	50	50	17.14	17.21	17.11			
20	256QAM	100	0	17.16	17.02	17.10			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	18.20	18.30	18.28	19.6	0	
15	QPSK	1	37	18.10	18.27	18.04			
15	QPSK	1	74	18.09	18.19	17.99			
15	QPSK	36	0	18.00	17.89	17.98	19.6	0	
15	QPSK	36	20	17.97	17.82	17.75			
15	QPSK	36	39	17.76	17.93	17.72			
15	QPSK	75	0	17.87	17.96	17.83	19.6	0	
15	16QAM	1	0	17.84	17.84	17.76			
15	16QAM	1	37	17.88	17.85	17.81			
15	16QAM	1	74	17.89	17.92	17.88	19.6	0	
15	16QAM	36	0	17.87	17.95	17.91			
15	16QAM	36	20	17.89	18.03	17.83			
15	16QAM	36	39	17.70	17.85	17.74	19.6	0	
15	16QAM	75	0	17.90	17.89	17.88			
15	64QAM	1	0	17.93	17.93	17.86			
15	64QAM	1	37	17.83	17.78	17.72	19.6	0	
15	64QAM	1	74	17.87	17.90	17.81			
15	64QAM	36	0	17.89	17.90	17.72			
15	64QAM	36	20	17.94	17.91	17.76	19.6	0	
15	64QAM	36	39	17.90	18.04	17.95			
15	64QAM	75	0	17.84	17.84	17.78			
15	256QAM	1	0	17.34	17.24	17.30	19	0.6	
15	256QAM	1	37	17.13	17.33	17.16			
15	256QAM	1	74	17.11	17.21	17.03			
15	256QAM	36	0	17.19	17.28	17.07	19	0.6	
15	256QAM	36	20	17.27	17.14	17.24			
15	256QAM	36	39	17.16	17.18	17.01			
15	256QAM	75	0	17.17	17.07	17.05			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	18.17	18.29	18.18	19.6	0	
10	QPSK	1	25	18.18	18.13	18.12			
10	QPSK	1	49	18.09	18.08	18.00			
10	QPSK	25	0	17.96	17.89	17.93	19.6	0	
10	QPSK	25	12	17.89	17.75	17.78			
10	QPSK	25	25	17.89	17.94	17.71			
10	QPSK	50	0	17.86	17.97	17.83	19.6	0	
10	16QAM	1	0	17.93	17.92	17.72			
10	16QAM	1	25	17.75	17.81	17.77			
10	16QAM	1	49	17.89	17.93	17.95	19.6	0	
10	16QAM	25	0	17.95	18.01	17.92			
10	16QAM	25	12	17.85	17.89	17.76			
10	16QAM	25	25	17.82	17.84	17.73	19.6	0	
10	16QAM	50	0	17.82	17.95	17.84			
10	64QAM	1	0	17.85	17.94	17.83			
10	64QAM	1	25	17.89	17.79	17.84	19.6	0	
10	64QAM	1	49	17.92	17.87	17.92			
10	64QAM	25	0	17.89	17.91	17.71			
10	64QAM	25	12	17.92	17.81	17.65	19.6	0	
10	64QAM	25	25	17.96	17.92	17.87			
10	64QAM	50	0	17.88	17.95	17.78			
10	256QAM	1	0	17.22	17.29	17.30	19	0.6	
10	256QAM	1	25	17.20	17.17	17.14			
10	256QAM	1	49	17.10	17.21	17.18			
10	256QAM	25	0	17.23	17.31	17.02	19	0.6	
10	256QAM	25	12	17.19	17.11	17.05			
10	256QAM	25	25	17.13	17.13	17.01			
10	256QAM	50	0	17.02	17.01	17.12			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	18.23	18.24	18.27	19.6	0	
5	QPSK	1	12	18.08	18.26	18.04			
5	QPSK	1	24	18.16	18.18	17.99			
5	QPSK	12	0	17.95	18.02	17.97	19.6	0	
5	QPSK	12	7	17.90	17.79	17.84			
5	QPSK	12	13	17.77	17.87	17.66			
5	QPSK	25	0	17.78	17.87	17.89	19.6	0	
5	16QAM	1	0	17.81	17.85	17.72			
5	16QAM	1	12	17.84	17.70	17.67			
5	16QAM	1	24	17.89	18.00	17.96	19.6	0	
5	16QAM	12	0	17.92	18.06	17.92			
5	16QAM	12	7	17.76	17.97	17.84			
5	16QAM	12	13	17.77	17.91	17.73	19.6	0	
5	16QAM	25	0	17.88	17.82	17.84			
5	64QAM	1	0	17.91	17.98	17.87			
5	64QAM	1	12	17.85	17.77	17.83	19.6	0	
5	64QAM	1	24	17.89	17.98	17.86			
5	64QAM	12	0	17.91	17.93	17.79			
5	64QAM	12	7	17.96	17.85	17.69	19.6	0	
5	64QAM	12	13	18.02	17.97	17.91			
5	64QAM	25	0	17.93	17.99	17.76			
5	256QAM	1	0	17.22	17.42	17.27	19	0.6	
5	256QAM	1	12	17.22	17.33	17.10			
5	256QAM	1	24	17.16	17.15	17.03			
5	256QAM	12	0	17.16	17.34	17.03	19	0.6	
5	256QAM	12	7	17.14	17.28	17.15			
5	256QAM	12	13	17.10	17.16	17.08			
5	256QAM	25	0	17.13	17.13	17.23			



Band 7 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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.92	18.00	17.91	19	0	
20	QPSK	1	49	17.78	17.93	17.82			
20	QPSK	1	99	17.82	17.87	17.73			
20	QPSK	50	0	17.79	17.88	17.74	19	0	
20	QPSK	50	24	17.68	17.81	17.61			
20	QPSK	50	50	17.60	17.76	17.55			
20	QPSK	100	0	17.78	17.79	17.72	19	0	
20	16QAM	1	0	17.60	17.76	17.66			
20	16QAM	1	49	17.60	17.78	17.50			
20	16QAM	1	99	17.76	17.83	17.81	19	0	
20	16QAM	50	0	17.69	17.72	17.68			
20	16QAM	50	24	17.69	17.65	17.64			
20	16QAM	50	50	17.76	17.83	17.78	19	0	
20	16QAM	100	0	17.60	17.72	17.67			
20	64QAM	1	0	17.73	17.78	17.62			
20	64QAM	1	49	17.69	17.81	17.70	19	0	
20	64QAM	1	99	17.63	17.72	17.69			
20	64QAM	50	0	17.62	17.70	17.64			
20	64QAM	50	24	17.77	17.80	17.70	19	0	
20	64QAM	50	50	17.68	17.71	17.60			
20	64QAM	100	0	17.69	17.71	17.63			
20	256QAM	1	0	17.68	17.89	17.76	19	0	
20	256QAM	1	49	17.57	17.84	17.66			
20	256QAM	1	99	17.60	17.67	17.62			
20	256QAM	50	0	17.82	17.82	17.79	19	0	
20	256QAM	50	24	17.70	17.81	17.62			
20	256QAM	50	50	17.59	17.67	17.58			
20	256QAM	100	0	17.73	17.91	17.68			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.69	17.87	17.68	19	0	
15	QPSK	1	37	17.60	17.69	17.63			
15	QPSK	1	74	17.60	17.77	17.60			
15	QPSK	36	0	17.62	17.78	17.52	19	0	
15	QPSK	36	20	17.57	17.73	17.49			
15	QPSK	36	39	17.50	17.61	17.34			
15	QPSK	75	0	17.66	17.60	17.60	19	0	
15	16QAM	1	0	17.46	17.60	17.42			
15	16QAM	1	37	17.40	17.68	17.37			
15	16QAM	1	74	17.59	17.75	17.57	19	0	
15	16QAM	36	0	17.54	17.63	17.60			
15	16QAM	36	20	17.56	17.45	17.47			
15	16QAM	36	39	17.53	17.67	17.57	19	0	
15	16QAM	75	0	17.38	17.51	17.55			
15	64QAM	1	0	17.54	17.68	17.44			
15	64QAM	1	37	17.56	17.63	17.57	19	0	
15	64QAM	1	74	17.53	17.50	17.46			
15	64QAM	36	0	17.52	17.56	17.56			
15	64QAM	36	20	17.57	17.66	17.47	19	0	
15	64QAM	36	39	17.57	17.48	17.44			
15	64QAM	75	0	17.55	17.50	17.48			
15	256QAM	1	0	17.47	17.69	17.61	19	0	
15	256QAM	1	37	17.38	17.61	17.43			
15	256QAM	1	74	17.46	17.51	17.46			
15	256QAM	36	0	17.62	17.69	17.69	19	0	
15	256QAM	36	20	17.50	17.59	17.43			
15	256QAM	36	39	17.36	17.53	17.36			
15	256QAM	75	0	17.61	17.78	17.57			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.69	17.79	17.73	19	0	
10	QPSK	1	25	17.62	17.72	17.66			
10	QPSK	1	49	17.69	17.63	17.64			
10	QPSK	25	0	17.57	17.71	17.54	19	0	
10	QPSK	25	12	17.56	17.72	17.37			
10	QPSK	25	25	17.39	17.59	17.37			
10	QPSK	50	0	17.65	17.68	17.63	19	0	
10	16QAM	1	0	17.39	17.65	17.48			
10	16QAM	1	25	17.36	17.64	17.27			
10	16QAM	1	49	17.67	17.66	17.59	19	0	
10	16QAM	25	0	17.54	17.56	17.50			
10	16QAM	25	12	17.52	17.45	17.49			
10	16QAM	25	25	17.53	17.60	17.62	19	0	
10	16QAM	50	0	17.46	17.53	17.47			
10	64QAM	1	0	17.62	17.61	17.49			
10	64QAM	1	25	17.59	17.66	17.51	19	0	
10	64QAM	1	49	17.47	17.55	17.57			
10	64QAM	25	0	17.45	17.61	17.54			
10	64QAM	25	12	17.60	17.67	17.58	19	0	
10	64QAM	25	25	17.49	17.54	17.39			
10	64QAM	50	0	17.60	17.51	17.44			
10	256QAM	1	0	17.51	17.81	17.62	19	0	
10	256QAM	1	25	17.44	17.73	17.46			
10	256QAM	1	49	17.44	17.43	17.53			
10	256QAM	25	0	17.60	17.64	17.68	19	0	
10	256QAM	25	12	17.55	17.66	17.49			
10	256QAM	25	25	17.44	17.48	17.47			
10	256QAM	50	0	17.56	17.70	17.45			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.74	17.85	17.80	19	0	
5	QPSK	1	12	17.57	17.79	17.72			
5	QPSK	1	24	17.62	17.77	17.55			
5	QPSK	12	0	17.69	17.74	17.63	19	0	
5	QPSK	12	7	17.45	17.58	17.38			
5	QPSK	12	13	17.38	17.54	17.41			
5	QPSK	25	0	17.61	17.56	17.73	19	0	
5	16QAM	1	0	17.52	17.54	17.48			
5	16QAM	1	12	17.40	17.60	17.38			
5	16QAM	1	24	17.60	17.61	17.63	19	0	
5	16QAM	12	0	17.60	17.56	17.56			
5	16QAM	12	7	17.52	17.56	17.53			
5	16QAM	12	13	17.58	17.65	17.62	19	0	
5	16QAM	25	0	17.43	17.64	17.49			
5	64QAM	1	0	17.49	17.65	17.46			
5	64QAM	1	12	17.51	17.68	17.56	19	0	
5	64QAM	1	24	17.51	17.51	17.54			
5	64QAM	12	0	17.45	17.56	17.47			
5	64QAM	12	7	17.54	17.72	17.54	19	0	
5	64QAM	12	13	17.52	17.57	17.47			
5	64QAM	25	0	17.47	17.54	17.47			
5	256QAM	1	0	17.60	17.66	17.62	19	0	
5	256QAM	1	12	17.48	17.72	17.51			
5	256QAM	1	24	17.38	17.49	17.42			
5	256QAM	12	0	17.73	17.68	17.70	19	0	
5	256QAM	12	7	17.55	17.70	17.50			
5	256QAM	12	13	17.41	17.44	17.38			
5	256QAM	25	0	17.57	17.72	17.46			



## Reduced Power Mode for DSI3 Simultaneous

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.49	31.56	31.54	33.20	22.49	22.56	22.54	24.20
GPRS 1 Tx slot	31.61	31.75	31.60	33.20	22.61	22.75	22.60	24.20
GPRS 2 Tx slots	28.63	28.68	28.59	30.20	22.63	22.68	22.59	24.20
GPRS 3 Tx slots	28.97	27.04	28.96	28.40	22.71	22.78	22.70	24.14
GPRS 4 Tx slots	28.05	26.05	28.02	27.20	23.05	23.05	23.02	24.20
EDGE 1 Tx slot	25.79	25.83	25.79	27.00	16.79	16.83	16.79	18.00
EDGE 2 Tx slots	24.85	24.94	24.88	26.00	18.85	18.94	18.88	20.00
EDGE 3 Tx slots	22.73	22.88	22.78	24.00	18.47	18.62	18.52	19.74
EDGE 4 Tx slots	20.70	20.79	20.73	22.00	17.70	17.79	17.73	19.00

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1869.8		1850.2	1860	1869.8	
GSM 1 Tx slot	25.45	25.52	25.38	26.50	16.45	16.52	16.38	17.50
GPRS 1 Tx slot	25.46	25.53	25.42	26.50	16.46	16.53	16.42	17.50
GPRS 2 Tx slots	21.97	22.06	21.98	23.50	15.97	16.06	15.98	17.50
GPRS 3 Tx slots	20.13	20.29	20.19	21.70	15.87	16.03	15.93	17.44
GPRS 4 Tx slots	19.45	19.50	19.42	20.50	16.45	16.50	16.42	17.50
EDGE 1 Tx slot	24.88	24.85	24.82	26.50	15.88	15.85	15.82	17.50
EDGE 2 Tx slots	21.98	21.98	22.02	23.50	15.98	15.98	16.02	17.50
EDGE 3 Tx slots	20.15	20.19	20.25	21.70	15.89	15.93	15.99	17.44
EDGE 4 Tx slots	18.92	19.12	18.98	20.50	15.92	16.12	15.98	17.50

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4182	4233		
Frequency (MHz)	9662	9800	9938		4357	4407	4458		
Rx Channel	1852.4	1880	1907.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	15.06	15.11	15.09	16.40	22.54	22.67	22.53	24.00
3GPP Rel 99	RMC 12.2Kbps	15.02	15.19	15.16	16.40	22.61	22.78	22.66	24.00
3GPP Rel 6	HSDPA Subtest-1	14.06	14.24	14.09	15.40	21.43	21.72	21.55	23.00
3GPP Rel 6	HSDPA Subtest-2	14.05	14.13	14.23	15.40	21.67	21.90	21.77	23.00
3GPP Rel 6	HSDPA Subtest-3	13.65	13.62	13.70	14.90	20.99	21.26	21.14	22.50
3GPP Rel 6	HSDPA Subtest-4	13.55	13.73	13.65	14.90	21.07	21.26	21.18	22.50
3GPP Rel 6	HSUPA Subtest-1	15.00	15.04	15.08	16.40	22.55	22.71	22.61	24.00
3GPP Rel 6	HSUPA Subtest-2	13.15	13.22	13.23	14.40	20.84	20.88	20.76	22.00
3GPP Rel 6	HSUPA Subtest-3	14.18	14.15	14.22	15.40	21.49	21.66	21.63	23.00
3GPP Rel 6	HSUPA Subtest-4	13.09	13.13	13.20	14.40	20.64	20.84	20.59	22.00
3GPP Rel 6	HSUPA Subtest-5	15.08	15.13	15.01	16.40	22.50	22.70	22.57	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.61	12.74	12.60	13.90	20.23	20.28	20.20	21.50



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Turn-up time (sec)	APR (dB)		
Channel										
1860 1860 1900										
20	QPSK	1	0	14.93	14.96	14.99				
20	QPSK	1	49	14.88	14.90	14.93		16	0	
20	QPSK	1	99	14.88	14.90	14.93				
20	QPSK	50	0	14.81	14.88	14.94				
20	QPSK	50	24	14.81	14.77	14.83				
20	QPSK	50	50	14.72	14.74	14.82				
20	QPSK	100	0	14.76	14.83	14.73				
20	QPSK	100	24	14.85	14.91	14.82				
20	16QAM	1	49	14.81	14.82	14.83				
20	16QAM	1	99	14.77	14.84	14.77				
20	16QAM	50	0	14.73	14.82	14.89				
20	16QAM	50	24	14.70	14.69	14.75				
20	16QAM	50	50	14.81	14.87	14.77				
20	16QAM	100	0	14.84	14.79	14.89				
20	16QAM	100	24	14.87	14.88	14.77				
20	64QAM	1	49	14.75	14.79	14.70		16	0	
20	64QAM	1	99	14.84	14.84	14.79				
20	64QAM	50	0	14.86	14.79	14.77				
20	64QAM	50	24	14.76	14.81	14.89				
20	64QAM	50	50	14.84	14.84	14.84				
20	64QAM	100	0	14.80	14.84	14.83				
20	64QAM	100	24	14.85	14.85	14.81				
20	256QAM	1	49	14.87	14.85	14.89				
20	256QAM	1	99	14.80	14.82	14.79				
20	256QAM	50	0	14.76	14.82	14.74				
20	256QAM	50	24	14.84	14.87	14.78				
20	256QAM	50	50	14.88	14.86	14.86				
20	256QAM	100	0	14.82	14.82	14.82				
Channel										
1867.5 1860 1902.5										
15	QPSK	1	0	14.82	14.82	14.78				
15	QPSK	1	37	14.88	14.81	14.81		16	0	
15	QPSK	1	74	14.76	14.78	14.75				
15	QPSK	36	0	14.88	14.82	14.72				
15	QPSK	36	25	14.76	14.88	14.71				
15	QPSK	36	39	14.83	14.81	14.89				
15	QPSK	75	0	14.83	14.87	14.86				
15	16QAM	1	49	14.80	14.82	14.81				
15	16QAM	1	37	14.74	14.70	14.73		16	0	
15	16QAM	1	74	14.83	14.82	14.81				
15	16QAM	36	0	14.83	14.84	14.83				
15	16QAM	36	29	14.87	14.81	14.89				
15	16QAM	36	25	14.80	14.88	14.83				
15	16QAM	75	0	14.80	14.88	14.81				
15	64QAM	1	9	14.75	14.82	14.82				
15	64QAM	1	37	14.84	14.84	14.82				
15	64QAM	1	74	14.87	14.87	14.74				
15	64QAM	36	0	14.81	14.72	14.88				
15	64QAM	36	29	14.83	14.83	14.84				
15	64QAM	36	39	14.80	14.85	14.85				
15	64QAM	75	0	14.85	14.88	14.86				
15	256QAM	1	37	14.82	14.79	14.89				
15	256QAM	1	74	14.86	14.87	14.87				
15	256QAM	36	0	14.86	14.86	14.86				
15	256QAM	36	29	14.83	14.82	14.86				
15	256QAM	36	39	14.84	14.84	14.84				
15	256QAM	75	0	14.88	14.88	14.83				
Channel										
1869.5 1860 1910										
10	QPSK	1	0	14.80	14.81	14.81				
10	QPSK	1	25	14.76	14.81	14.72				
10	QPSK	1	49	14.77	14.79	14.80				
10	QPSK	12	0	14.80	14.86	14.80				
10	QPSK	25	12	14.70	14.72	14.75				
10	QPSK	25	28	14.80	14.80	14.77				
10	16QAM	1	24	14.80	14.80	14.80				
10	16QAM	1	0	14.80	14.85	14.79				
10	16QAM	1	28	14.71	14.77	14.71		16	0	
10	16QAM	1	49	14.80	14.80	14.84				
10	16QAM	25	0	14.89	14.85	14.83				
10	16QAM	25	12	14.80	14.80	14.86				
10	16QAM	25	49	14.80	14.88	14.73				
10	16QAM	50	0	14.87	14.89	14.80				
10	64QAM	1	0	14.81	14.79	14.88				
10	64QAM	1	24	14.85	14.85	14.85				
10	64QAM	1	49	14.78	14.87	14.73				
10	64QAM	25	0	14.81	14.79	14.89				
10	64QAM	25	12	14.87	14.87	14.87				
10	64QAM	25	28	14.84	14.83	14.82				
10	64QAM	50	0	14.84	14.80	14.84				
10	256QAM	1	28	14.72	14.76	14.82				
10	256QAM	1	49	14.70	14.86	14.89				
10	256QAM	12	0	14.80	14.88	14.80				
10	256QAM	25	12	14.81	14.82	14.76				
10	256QAM	25	28	14.88	14.83	14.81				
10	256QAM	50	0	14.81	14.80	14.85				
Channel										
1869.5 1860 1917.5										
5	QPSK	1	0	14.70	14.83	14.84				
5	QPSK	1	12	14.76	14.85	14.74				
5	QPSK	1	24	14.77	14.79	14.87				
5	QPSK	12	0	14.74	14.84	14.84				
5	QPSK	12	7	14.65	14.72	14.70				
5	QPSK	12	13	14.82	14.87	14.72				
5	16QAM	1	24	14.78	14.89	14.81				
5	16QAM	1	0	14.80	14.77	14.87				
5	16QAM	1	12	14.78	14.89	14.88				
5	16QAM	12	0	14.80	14.80	14.88				
5	16QAM	12	7	14.83	14.83	14.70				
5	16QAM	25	0	14.80	14.80	14.89				
5	64QAM	1	0	14.81	14.81	14.73				
5	64QAM	1	12	14.80	14.81	14.88				
5	64QAM	1	24	14.73	14.87	14.75				
5	64QAM	12	0	14.49	14.75	14.88				
5	64QAM	12	7	14.88	14.87	14.84				
5	64QAM	12	13	14.83	14.85	14.80				
5	64QAM	25	0	14.81	14.80	14.86				
5	64QAM	25	12	14.83	14.85	14.86				
5	256QAM	1	12	14.77	14.79	14.84				
5	256QAM	1	24	14.76	14.77	14.70				
5	256QAM	12	0	14.84	14.86	14.84				
5	256QAM	12	7	14.82	14.81	14.83				
5	256QAM	25	0	14.81	14.80	14.86				
5	256QAM	25	12	14.81	14.80	14.86				
Channel										
1869.5 1860 1918.5										
1.4	QPSK	1	0	14.70	14.84	14.84				
1.4	QPSK	1	8	14.78	14.82	14.87		16	0	
1.4	QPSK	1	14	14.83	14.80	14.87				
1.4	QPSK	8	0	14.85	14.79	14.77				
1.4	QPSK	8	4	14.70	14.81	14.87				
1.4	QPSK	8	7	14.88	14.85	14.72				
1.4	QPSK	15	0	14.89	14.87	14.89				
1.4	16QAM	1	0	14.81	14.86	14.70				
1.4	16QAM	1	8	14.74	14.88	14.73				
1.4	16QAM	1	15	14.85	14.85	14.89				
1.4	16QAM	8	0	14.82	14.84	14.84				
1.4	16QAM	8	4	14.85	14.87	14.89				
1.4	16QAM	8	7	14.80	14.89	14.80				
1.4	16QAM	15	0	14.81	14.81	14.85				
1.4	64QAM	1	0	14.83	14.81	14.81				
1.4	64QAM	1	14	14.70	14.89	14.70				
1.4	64QAM	8	0	14.83	14.87	14.83				
1.4	64QAM	8	7	14.86	14.83	14.82				
1.4	64QAM	15	0	14.80	14.80	14.87				
1.4	256QAM	1	0	14.76	14.78	14.71				



Band 5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	21.60	21.69	21.63			
10	QPSK	1	25	21.42	21.58	21.52	23	0	
10	QPSK	1	49	21.50	21.49	21.48			
10	QPSK	25	0	20.65	20.71	20.60			
10	QPSK	25	12	20.42	20.56	20.53	22	1	
10	QPSK	25	25	20.48	20.47	20.50			
10	QPSK	50	0	20.45	20.61	20.56			
10	16QAM	1	0	20.61	20.66	20.47			
10	16QAM	1	25	20.33	20.51	20.46	22	1	
10	16QAM	1	49	20.43	20.38	20.38			
10	16QAM	25	0	19.65	19.69	19.63			
10	16QAM	25	12	19.43	19.56	19.55	21	2	
10	16QAM	25	25	19.48	19.42	19.54			
10	16QAM	50	0	19.45	19.65	19.60			
10	64QAM	1	0	19.59	19.65	19.50			
10	64QAM	1	25	19.34	19.55	19.51	21	2	
10	64QAM	1	49	19.41	19.43	19.43			
10	64QAM	25	0	18.65	18.74	18.59			
10	64QAM	25	12	18.39	18.53	18.50	20	3	
10	64QAM	25	25	18.53	18.44	18.53			
10	64QAM	50	0	18.50	18.63	18.55			
10	256QAM	1	0	17.67	17.64	17.62			
10	256QAM	1	25	17.38	17.59	17.46	18	5	
10	256QAM	1	49	17.52	17.39	17.50			
10	256QAM	25	0	17.42	17.63	17.57			
10	256QAM	25	12	17.66	17.70	17.41	18	5	
10	256QAM	25	25	17.38	17.48	17.61			
10	256QAM	50	0	17.43	17.35	17.48			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.51	21.62	21.58	23	0	
5	QPSK	1	12	21.38	21.47	21.51			
5	QPSK	1	24	21.48	21.47	21.39			
5	QPSK	12	0	20.63	20.67	20.54			
5	QPSK	12	7	20.40	20.54	20.49	22	1	
5	QPSK	12	13	20.39	20.41	20.46			
5	QPSK	25	0	20.40	20.51	20.47			
5	16QAM	1	0	20.58	20.64	20.36			
5	16QAM	1	12	20.30	20.45	20.36	22	1	
5	16QAM	1	24	20.38	20.32	20.37			
5	16QAM	12	0	19.60	19.61	19.61			
5	16QAM	12	7	19.34	19.54	19.53	21	2	
5	16QAM	12	13	19.40	19.38	19.53			
5	16QAM	25	0	19.36	19.62	19.51			
5	64QAM	1	0	19.50	19.60	19.40			
5	64QAM	1	12	19.30	19.45	19.44	21	2	
5	64QAM	1	24	19.33	19.42	19.41			
5	64QAM	12	0	18.62	18.72	18.58			
5	64QAM	12	7	18.36	18.47	18.43	20	3	
5	64QAM	12	13	18.44	18.36	18.47			
5	64QAM	25	0	18.42	18.54	18.54			
5	256QAM	1	0	17.62	17.71	17.59			
5	256QAM	1	12	17.47	17.57	17.60	18	5	
5	256QAM	1	24	17.46	17.44	17.58			
5	256QAM	12	0	17.51	17.59	17.51			
5	256QAM	12	7	17.58	17.60	17.55	18	5	
5	256QAM	12	13	17.27	17.50	17.54			
5	256QAM	25	0	17.43	17.43	17.41			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	21.55	21.64	21.53	23	0	
3	QPSK	1	8	21.36	21.54	21.50			
3	QPSK	1	14	21.40	21.43	21.43			
3	QPSK	8	0	20.56	20.64	20.56	22	1	
3	QPSK	8	4	20.34	20.55	20.47			
3	QPSK	8	7	20.38	20.39	20.47			
3	QPSK	15	0	20.43	20.52	20.54			
3	16QAM	1	0	20.55	20.65	20.38			
3	16QAM	1	8	20.32	20.45	20.41	22	1	
3	16QAM	1	14	20.42	20.34	20.34			
3	16QAM	8	0	19.60	19.67	19.54			
3	16QAM	8	4	19.34	19.49	19.44	21	2	
3	16QAM	8	7	19.41	19.39	19.52			
3	16QAM	15	0	19.41	19.57	19.50			
3	64QAM	1	0	19.54	19.62	19.42			
3	64QAM	1	8	19.33	19.52	19.42	21	2	
3	64QAM	1	14	19.34	19.38	19.34			
3	64QAM	8	0	18.54	18.66	18.51			
3	64QAM	8	4	18.37	18.44	18.44	20	3	
3	64QAM	8	7	18.52	18.34	18.46			
3	64QAM	15	0	18.42	18.59	18.50			
3	256QAM	1	0	17.73	17.65	17.72			
3	256QAM	1	8	17.34	17.58	17.47	18	5	
3	256QAM	1	14	17.47	17.33	17.59			
3	256QAM	8	0	17.46	17.65	17.57			
3	256QAM	8	4	17.64	17.57	17.44	18	5	
3	256QAM	8	7	17.38	17.56	17.51			
3	256QAM	15	0	17.38	17.39	17.35			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.50	21.60	21.58	23	0	
1.4	QPSK	1	3	21.36	21.49	21.51			
1.4	QPSK	1	5	21.48	21.47	21.37			
1.4	QPSK	3	0	21.44	21.58	21.51			
1.4	QPSK	3	1	21.31	21.40	21.44	22	1	
1.4	QPSK	3	3	21.42	21.40	21.34			
1.4	QPSK	6	0	20.41	20.52	20.46			
1.4	16QAM	1	0	20.56	20.62	20.43			
1.4	16QAM	1	3	20.29	20.44	20.41	22	1	
1.4	16QAM	1	5	20.35	20.33	20.35			
1.4	16QAM	3	0	20.48	20.60	20.40			
1.4	16QAM	3	1	20.19	20.36	20.34			
1.4	16QAM	3	3	20.33	20.27	20.34			
1.4	16QAM	6	0	19.39	19.59	19.54	21	2	
1.4	64QAM	1	0	19.57	19.60	19.39			
1.4	64QAM	1	3	19.28	19.48	19.49			
1.4	64QAM	1	5	19.39	19.34	19.41	21	2	
1.4	64QAM	3	0	19.49	19.53	19.34			
1.4	64QAM	3	1	19.18	19.43	19.40			
1.4	64QAM	3	3	19.37	19.28	19.34			
1.4	64QAM	6	0	18.42	18.59	18.52	20	3	
1.4	256QAM	1	0	17.72	17.76	17.56			
1.4	256QAM	1	3	17.49	17.65	17.53			
1.4	256QAM	1	5	17.42	17.51	17.54			
1.4	256QAM	3	0	17.39	17.57	17.60	18	5	
1.4	256QAM	3	1	17.68	17.59	17.56			
1.4	256QAM	3	3	17.33	17.58	17.54			
1.4	256QAM	6	0	17.36	17.45	17.36	18	5	

Band 7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	13.89	13.95	13.92			
20	QPSK	1	49	13.69	13.84	13.91	15.1	0	
20	QPSK	1	99	13.77	13.79	13.67			
20	QPSK	50	0	13.85	13.90	13.81			
20	QPSK	50	24	13.81	13.86	13.73	15.1	0	
20	QPSK	50	50	13.68	13.75	13.66			
20	QPSK	100	0	13.84	13.88	13.86			
20	16QAM	1	0	13.79	13.82	13.83			
20	16QAM	1	49	13.62	13.77	13.67	15.1	0	
20	16QAM	1	99	13.82	13.79	13.78			
20	16QAM	50	0	13.84	13.83	13.79			
20	16QAM	50	24	13.70	13.76	13.75	15.1	0	
20	16QAM	50	50	13.85	13.86	13.84			
20	16QAM	100	0	13.67	13.83	13.80			
20	64QAM	1	0	13.40	13.56	13.59			
20	64QAM	1	49	13.57	13.62	13.64	15.1	0	
20	64QAM	1	99	13.70	13.71	13.68			
20	64QAM	50	0	13.86	13.86	13.80			
20	64QAM	50	24	13.73	13.87	13.88	15.1	0	
20	64QAM	50	50	13.80	13.83	13.87			
20	64QAM	100	0	13.86	13.86	13.75			
20	256QAM	1	0	13.82	13.92	13.76			
20	256QAM	1	49	13.77	13.88	13.90	15.1	0	
20	256QAM	1	99	13.76	13.85	13.80			
20	256QAM	50	0	13.87	13.84	13.68			
20	256QAM	50	24	13.76	13.91	13.86	15.1	0	
20	256QAM	50	50	13.85	13.82	13.79			
20	256QAM	100	0	13.82	13.81	13.77			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	13.80	13.88	13.77			
15	QPSK	1	37	13.60	13.74	13.87	15.1	0	
15	QPSK	1	74	13.68	13.75	13.54			
15	QPSK	36	0	13.72	13.86	13.77			
15	QPSK	36	20	13.67	13.71	13.67	15.1	0	
15	QPSK	36							



### Band 38 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37950	38000	38150		
20	QPSK	1	0	16.16	16.30	16.17	17.4	0
20	QPSK	1	49	16.16	16.30	16.17		
20	QPSK	1	99	16.10	16.15	16.10		
20	QPSK	50	0	16.20	16.29	16.18		
20	QPSK	50	24	16.14	16.17	16.14	17.4	0
20	QPSK	50	49	16.13	16.23	16.17		
20	QPSK	100	0	16.16	16.22	16.08		
20	16QAM	1	0	16.10	16.29	16.20		
20	16QAM	1	49	16.15	16.27	16.18	17.4	0
20	16QAM	1	99	16.04	16.22	16.10		
20	16QAM	50	0	16.04	16.19	16.14		
20	16QAM	50	24	16.12	16.24	16.19	17.4	0
20	16QAM	50	49	16.12	16.18	16.16		
20	16QAM	100	0	16.14	16.15	16.18		
20	16QAM	1	0	16.07	16.18	16.11	17.4	0
20	64QAM	1	49	16.14	16.25	16.12		
20	64QAM	1	99	16.07	16.18	16.13		
20	64QAM	50	0	16.20	16.17	16.12	17.4	0
20	64QAM	50	24	16.19	16.22	16.20		
20	64QAM	50	49	16.03	16.26	16.07		
20	64QAM	100	0	16.17	16.16	16.16	17.4	0
20	256QAM	1	0	16.22	16.18	16.15		
20	256QAM	1	49	16.11	16.22	16.18	17.4	0
20	256QAM	1	99	16.08	16.23	16.08		
20	256QAM	50	0	16.17	16.23	16.23	17.4	0
20	256QAM	50	24	16.17	16.13	16.04		
20	256QAM	50	49	16.09	16.22	16.21		
20	256QAM	100	0	16.14	16.24	16.15	17.4	0
Channel								
Frequency (MHz)				39750	39800	39850		
15	QPSK	1	0	16.23	16.23	16.20	17.4	0
15	QPSK	1	49	16.12	16.15	16.12		
15	QPSK	1	99	16.15	16.14	16.25	16.10	16.10
15	QPSK	36	0	16.12	16.22	16.27	16.14	16.10
15	QPSK	36	20	16.16	16.12	16.28	16.18	16.18
15	QPSK	36	39	16.07	16.08	16.23	16.19	16.18
15	QPSK	75	0	16.08	16.14	16.26	16.11	16.15
15	16QAM	1	0	16.10	16.23	16.12	16.22	16.15
15	16QAM	1	49	16.05	16.17	16.22	16.21	16.09
15	16QAM	1	99	16.17	16.10	16.21	16.13	16.16
15	16QAM	36	0	16.11	16.18	16.19	16.13	16.14
15	16QAM	36	20	16.15	16.11	16.25	16.15	16.11
15	16QAM	36	39	16.06	16.14	16.27	16.14	16.08
15	16QAM	75	0	16.11	16.18	16.19	16.21	16.19
15	64QAM	1	0	16.07	16.08	16.18	16.18	16.18
15	64QAM	1	37	16.16	16.11	16.27	16.15	16.20
15	64QAM	1	74	16.14	16.10	16.16	16.16	16.11
15	64QAM	36	0	16.17	16.22	16.20	16.18	16.18
15	64QAM	36	20	16.10	16.22	16.28	16.17	16.13
15	64QAM	36	39	16.11	16.15	16.26	16.18	16.06
15	64QAM	75	0	16.09	16.24	16.27	16.17	16.09
15	256QAM	1	0	16.18	16.08	16.12	16.18	16.07
15	256QAM	1	37	16.13	16.15	16.20	16.11	16.18
15	256QAM	1	74	16.16	16.11	16.18	16.10	16.20
15	256QAM	36	0	16.19	16.14	16.25	16.18	16.14
15	256QAM	36	20	16.03	16.11	16.18	16.10	16.13
15	256QAM	36	39	16.18	16.07	16.23	16.16	16.10
15	256QAM	75	0	16.05	16.16	16.20	16.15	16.07
Channel								
Frequency (MHz)				41700	41800	41900		
10	QPSK	1	0	16.21	16.18	16.30	16.23	16.20
10	QPSK	1	49	16.09	16.12	16.26	16.16	16.16
10	QPSK	1	99	16.17	16.21	16.17	16.21	16.08
10	QPSK	25	0	16.11	16.16	16.26	16.21	16.12
10	QPSK	25	24	16.08	16.14	16.25	16.16	16.16
10	QPSK	25	49	16.10	16.11	16.10	16.10	16.17
10	QPSK	50	0	16.09	16.15	16.22	16.16	16.12
10	16QAM	1	0	16.08	16.20	16.32	16.16	16.14
10	16QAM	1	49	16.04	16.20	16.18	16.09	16.09
10	16QAM	1	99	16.11	16.07	16.23	16.18	16.13
10	16QAM	25	0	16.09	16.16	16.27	16.17	16.07
10	16QAM	25	12	16.14	16.13	16.22	16.17	16.16
10	16QAM	25	25	16.11	16.09	16.27	16.12	16.09
10	16QAM	50	0	16.03	16.15	16.24	16.22	16.20
10	64QAM	1	0	16.07	16.12	16.20	16.10	16.12
10	64QAM	1	25	16.19	16.20	16.24	16.14	16.11
10	64QAM	1	49	16.13	16.13	16.23	16.09	16.12
10	64QAM	25	0	16.17	16.21	16.13	16.22	16.16
10	64QAM	25	12	16.03	16.18	16.26	16.13	16.15
10	64QAM	25	25	16.08	16.13	16.26	16.17	16.09
10	64QAM	50	0	16.12	16.24	16.20	16.24	16.05
10	256QAM	1	0	16.16	16.14	16.15	16.15	16.13
10	256QAM	1	25	16.17	16.16	16.27	16.16	16.16
10	256QAM	1	49	16.13	16.16	16.20	16.09	16.14
10	256QAM	25	0	16.10	16.14	16.25	16.13	16.17
10	256QAM	25	12	16.05	16.14	16.25	16.13	16.07
10	256QAM	25	25	16.15	16.11	16.17	16.24	16.10
10	256QAM	50	0	16.06	16.17	16.28	16.15	16.07
Channel								
Frequency (MHz)				43615	43685	43755		
5	QPSK	1	0	16.22	16.29	16.34	16.17	16.20
5	QPSK	1	24	16.14	16.17	16.20	16.16	16.15
5	QPSK	1	49	16.10	16.21	16.22	16.19	16.10
5	QPSK	12	0	16.13	16.23	16.24	16.19	16.14
5	QPSK	12	7	16.10	16.08	16.22	16.14	16.10
5	QPSK	12	13	16.13	16.15	16.22	16.18	16.21
5	QPSK	25	0	16.09	16.15	16.22	16.11	16.07
5	16QAM	1	12	16.05	16.12	16.20	16.15	16.15
5	16QAM	1	24	16.12	16.15	16.20	16.19	16.15
5	16QAM	12	0	16.07	16.11	16.28	16.08	16.07
5	16QAM	12	7	16.13	16.14	16.25	16.17	16.15
5	16QAM	12	13	16.05	16.09	16.19	16.10	16.08
5	16QAM	25	0	16.06	16.15	16.22	16.24	16.18
5	64QAM	1	0	16.02	16.07	16.24	16.09	16.14
5	64QAM	1	12	16.11	16.10	16.27	16.10	16.19
5	64QAM	1	24	16.18	16.15	16.16	16.17	16.06
5	64QAM	12	0	16.17	16.22	16.17	16.18	16.11
5	64QAM	12	7	16.11	16.22	16.23	16.11	16.18
5	64QAM	12	13	16.16	16.11	16.28	16.10	16.06
5	64QAM	25	0	16.06	16.19	16.27	16.21	16.06
5	256QAM	1	0	16.14	16.15	16.15	16.16	16.08
5	256QAM	1	12	16.10	16.16	16.21	16.17	16.16
5	256QAM	1	24	16.16	16.11	16.22	16.19	16.15
5	256QAM	12	0	16.11	16.19	16.25	16.16	16.06
5	256QAM	12	7	16.11	16.17	16.19	16.08	16.13
5	256QAM	12	13	16.13	16.16	16.18	16.21	16.15
5	256QAM	25	0	16.08	16.14	16.28	16.10	16.08

### Band 41 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Low Middle Ch. (Frac)	Power High Middle Ch. (Frac)	Power High Ch. (Frac)	Tune-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				39750	40185	40600	41055	41490		
20	QPSK	1	0	16.25	16.29	16.37	16.29	16.27	17.4	0
20	QPSK	1	49	16.16	16.24	16.30	16.25	16.28		
20	QPSK	1	99	16.20	16.25	16.29	16.24	16.17		
20	QPSK	50	0	16.16	16.26	16.35	16.25	16.17	17.4	0
20	QPSK	50	24	16.18	16.20	16.28	16.20	16.17		
20	QPSK	50	49	16.16	16.19	16.27	16.18	16.23		
20	QPSK	100	0	16.15	16.22	16.33	16.20	16.17		
20	16QAM	1	0	16.19	16.24	16.34	16.25	16.20	17.4	0
20	16QAM	1	49	16.14	16.22	16.32	16.25	16.17		
20	16QAM	1	99	16.19	16.19	16.29	16.21	16.22		
20	16QAM	50	0	16.14	16.18	16.30	16.19	16.18	17.4	0
20	16QAM	50	24	16.20	16.16	16.30	16.25	16.19		

Band 42 Part27Q Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	16.49	16.65	16.48	18.3	0	
20	QPSK	1	49	16.47	16.50	16.42			
20	QPSK	1	99	16.41	16.46	16.49			
20	QPSK	50	0	16.39	16.49	16.37	18.3	0	
20	QPSK	50	24	16.44	16.47	16.36			
20	QPSK	50	50	16.43	16.41	16.36			
20	QPSK	100	0	16.37	16.38	16.30	18.3	0	
20	16QAM	1	0	16.44	16.45	16.38			
20	16QAM	1	49	16.45	16.45	16.39			
20	16QAM	1	99	16.50	16.36	16.36	18.3	0	
20	16QAM	50	0	16.46	16.35	16.39			
20	16QAM	50	24	16.49	16.40	16.37			
20	16QAM	50	50	16.54	16.34	16.37	18.3	0	
20	16QAM	100	0	16.47	16.35	16.40			
20	64QAM	1	0	16.47	16.41	16.41			
20	64QAM	1	49	16.43	16.45	16.43	18.3	0	
20	64QAM	1	99	16.45	16.44	16.43			
20	64QAM	50	0	16.47	16.39	16.43			
20	64QAM	50	24	16.49	16.42	16.36	18.3	0	
20	64QAM	50	50	16.54	16.43	16.39			
20	64QAM	100	0	16.43	16.41	16.42			
20	256QAM	1	0	16.46	16.42	16.37	18.3	0	
20	256QAM	1	49	16.44	16.44	16.43			
20	256QAM	1	99	16.44	16.44	16.40			
20	256QAM	50	0	16.50	16.33	16.49	18.3	0	
20	256QAM	50	24	16.48	16.36	16.39			
20	256QAM	50	50	16.42	16.41	16.48			
20	256QAM	100	0	16.44	16.39	16.43			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	16.39	16.58	16.39	18.3	0	
15	QPSK	1	37	16.35	16.43	16.38			
15	QPSK	1	74	16.39	16.33	16.34			
15	QPSK	36	0	16.38	16.39	16.30	18.3	0	
15	QPSK	36	20	16.30	16.33	16.35			
15	QPSK	36	39	16.36	16.33	16.31			
15	QPSK	75	0	16.33	16.39	16.33	18.3	0	
15	16QAM	1	0	16.31	16.37	16.33			
15	16QAM	1	37	16.35	16.39	16.38			
15	16QAM	1	74	16.36	16.33	16.35	18.3	0	
15	16QAM	36	0	16.36	16.35	16.36			
15	16QAM	36	20	16.43	16.33	16.38			
15	16QAM	36	39	16.41	16.34	16.34	18.3	0	
15	16QAM	75	0	16.44	16.33	16.35			
15	64QAM	1	0	16.35	16.30	16.35			
15	64QAM	1	37	16.36	16.31	16.38	18.3	0	
15	64QAM	1	74	16.37	16.37	16.34			
15	64QAM	36	0	16.41	16.36	16.37			
15	64QAM	36	20	16.34	16.33	16.30	18.3	0	
15	64QAM	36	39	16.48	16.39	16.31			
15	64QAM	75	0	16.39	16.38	16.35			
15	256QAM	1	0	16.43	16.37	16.30	18.3	0	
15	256QAM	1	37	16.39	16.39	16.35			
15	256QAM	1	74	16.38	16.37	16.34			
15	256QAM	36	0	16.41	16.39	16.34	18.3	0	
15	256QAM	36	20	16.40	16.30	16.36			
15	256QAM	36	39	16.38	16.33	16.37			
15	256QAM	75	0	16.34	16.34	16.39			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	16.33	16.50	16.33	18.3	0	
10	QPSK	1	25	16.34	16.44	16.37			
10	QPSK	1	49	16.38	16.41	16.44			
10	QPSK	25	0	16.35	16.33	16.31	18.3	0	
10	QPSK	25	12	16.38	16.40	16.39			
10	QPSK	25	25	16.39	16.31	16.37			
10	QPSK	50	0	16.33	16.33	16.39	18.3	0	
10	16QAM	1	0	16.33	16.30	16.33			
10	16QAM	1	25	16.33	16.39	16.33			
10	16QAM	1	49	16.36	16.38	16.33	18.3	0	
10	16QAM	25	0	16.36	16.35	16.34			
10	16QAM	25	12	16.43	16.36	16.33			
10	16QAM	25	25	16.37	16.31	16.34	18.3	0	
10	16QAM	50	0	16.41	16.35	16.39			
10	64QAM	1	0	16.44	16.36	16.37			
10	64QAM	1	25	16.33	16.35	16.36	18.3	0	
10	64QAM	1	49	16.41	16.31	16.33			
10	64QAM	25	0	16.33	16.33	16.40			
10	64QAM	25	12	16.39	16.39	16.31	18.3	0	
10	64QAM	25	25	16.44	16.38	16.35			
10	64QAM	50	0	16.39	16.36	16.37			
10	256QAM	1	0	16.36	16.34	16.31	18.3	0	
10	256QAM	1	25	16.36	16.30	16.37			
10	256QAM	1	49	16.30	16.38	16.31			
10	256QAM	25	0	16.33	16.36	16.34	18.3	0	
10	256QAM	25	12	16.38	16.36	16.36			
10	256QAM	25	25	16.34	16.37	16.36			
10	256QAM	50	0	16.38	16.33	16.33			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	16.43	16.49	16.37	18.3	0	
5	QPSK	1	12	16.34	16.37	16.38			
5	QPSK	1	24	16.37	16.34	16.40			
5	QPSK	12	0	16.33	16.36	16.33	18.3	0	
5	QPSK	12	7	16.41	16.31	16.33			
5	QPSK	12	13	16.33	16.36	16.35			
5	QPSK	25	0	16.39	16.35	16.31	18.3	0	
5	16QAM	1	0	16.33	16.38	16.35			
5	16QAM	1	12	16.36	16.38	16.37			
5	16QAM	1	24	16.37	16.31	16.39	18.3	0	
5	16QAM	12	0	16.36	16.33	16.35			
5	16QAM	12	7	16.44	16.37	16.30			
5	16QAM	12	13	16.43	16.38	16.31	18.3	0	
5	16QAM	25	0	16.37	16.35	16.33			
5	64QAM	1	0	16.36	16.38	16.39			
5	64QAM	1	12	16.38	16.39	16.34	18.3	0	
5	64QAM	1	24	16.35	16.39	16.38			
5	64QAM	12	0	16.37	16.37	16.38			
5	64QAM	12	7	16.38	16.31	16.33	18.3	0	
5	64QAM	12	13	16.43	16.34	16.33			
5	64QAM	25	0	16.30	16.35	16.37			
5	256QAM	1	0	16.43	16.39	16.31	18.3	0	
5	256QAM	1	12	16.38	16.39	16.36			
5	256QAM	1	24	16.33	16.40	16.30			
5	256QAM	12	0	16.47	16.38	16.41	18.3	0	
5	256QAM	12	7	16.45	16.34	16.36			
5	256QAM	12	13	16.37	16.37	16.36			
5	256QAM	25	0	16.36	16.36	16.38			



Band 7 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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	17.92	18.00	17.91	19	0	
20	QPSK	1	49	17.78	17.93	17.82			
20	QPSK	1	99	17.82	17.87	17.73			
20	QPSK	50	0	17.79	17.88	17.74	19	0	
20	QPSK	50	24	17.68	17.81	17.61			
20	QPSK	50	50	17.60	17.76	17.55			
20	QPSK	100	0	17.78	17.79	17.72	19	0	
20	16QAM	1	0	17.60	17.76	17.66			
20	16QAM	1	49	17.60	17.78	17.50			
20	16QAM	1	99	17.76	17.83	17.81	19	0	
20	16QAM	50	0	17.69	17.72	17.68			
20	16QAM	50	24	17.69	17.65	17.64			
20	16QAM	50	50	17.76	17.83	17.78	19	0	
20	16QAM	100	0	17.60	17.72	17.67			
20	64QAM	1	0	17.73	17.78	17.62			
20	64QAM	1	49	17.69	17.81	17.70	19	0	
20	64QAM	1	99	17.63	17.72	17.69			
20	64QAM	50	0	17.62	17.70	17.64			
20	64QAM	50	24	17.77	17.80	17.70	19	0	
20	64QAM	50	50	17.68	17.71	17.60			
20	64QAM	100	0	17.69	17.71	17.63			
20	256QAM	1	0	17.68	17.89	17.76	19	0	
20	256QAM	1	49	17.57	17.84	17.66			
20	256QAM	1	99	17.60	17.67	17.62			
20	256QAM	50	0	17.82	17.82	17.79	19	0	
20	256QAM	50	24	17.70	17.81	17.62			
20	256QAM	50	50	17.59	17.67	17.58			
20	256QAM	100	0	17.73	17.91	17.68			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.69	17.87	17.68	19	0	
15	QPSK	1	37	17.60	17.69	17.63			
15	QPSK	1	74	17.60	17.77	17.60			
15	QPSK	36	0	17.62	17.78	17.52	19	0	
15	QPSK	36	20	17.57	17.73	17.49			
15	QPSK	36	39	17.50	17.61	17.34			
15	QPSK	75	0	17.66	17.60	17.60	19	0	
15	16QAM	1	0	17.46	17.60	17.42			
15	16QAM	1	37	17.40	17.68	17.37			
15	16QAM	1	74	17.59	17.75	17.57	19	0	
15	16QAM	36	0	17.54	17.63	17.60			
15	16QAM	36	20	17.56	17.45	17.47			
15	16QAM	36	39	17.53	17.67	17.57	19	0	
15	16QAM	75	0	17.38	17.51	17.55			
15	64QAM	1	0	17.54	17.68	17.44			
15	64QAM	1	37	17.56	17.63	17.57	19	0	
15	64QAM	1	74	17.53	17.50	17.46			
15	64QAM	36	0	17.52	17.56	17.56			
15	64QAM	36	20	17.57	17.66	17.47	19	0	
15	64QAM	36	39	17.57	17.48	17.44			
15	64QAM	75	0	17.55	17.50	17.48			
15	256QAM	1	0	17.47	17.69	17.61	19	0	
15	256QAM	1	37	17.38	17.61	17.43			
15	256QAM	1	74	17.46	17.51	17.46			
15	256QAM	36	0	17.62	17.69	17.69	19	0	
15	256QAM	36	20	17.50	17.59	17.43			
15	256QAM	36	39	17.36	17.53	17.36			
15	256QAM	75	0	17.61	17.78	17.57			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.69	17.79	17.73	19	0	
10	QPSK	1	25	17.62	17.72	17.66			
10	QPSK	1	49	17.69	17.63	17.64			
10	QPSK	25	0	17.57	17.71	17.54	19	0	
10	QPSK	25	12	17.56	17.72	17.37			
10	QPSK	25	25	17.39	17.59	17.37			
10	QPSK	50	0	17.65	17.68	17.63	19	0	
10	16QAM	1	0	17.39	17.65	17.48			
10	16QAM	1	25	17.36	17.64	17.27			
10	16QAM	1	49	17.67	17.66	17.59	19	0	
10	16QAM	25	0	17.54	17.56	17.50			
10	16QAM	25	12	17.52	17.45	17.49			
10	16QAM	25	25	17.53	17.60	17.62	19	0	
10	16QAM	50	0	17.46	17.53	17.47			
10	64QAM	1	0	17.62	17.61	17.49			
10	64QAM	1	25	17.59	17.66	17.51	19	0	
10	64QAM	1	49	17.47	17.55	17.57			
10	64QAM	25	0	17.45	17.61	17.54			
10	64QAM	25	12	17.60	17.67	17.58	19	0	
10	64QAM	25	25	17.49	17.54	17.39			
10	64QAM	50	0	17.60	17.51	17.44			
10	256QAM	1	0	17.51	17.81	17.62	19	0	
10	256QAM	1	25	17.44	17.73	17.46			
10	256QAM	1	49	17.44	17.43	17.53			
10	256QAM	25	0	17.60	17.64	17.68	19	0	
10	256QAM	25	12	17.55	17.66	17.49			
10	256QAM	25	25	17.44	17.48	17.47			
10	256QAM	50	0	17.56	17.70	17.45			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.74	17.85	17.80	19	0	
5	QPSK	1	12	17.57	17.79	17.72			
5	QPSK	1	24	17.62	17.77	17.55			
5	QPSK	12	0	17.69	17.74	17.63	19	0	
5	QPSK	12	7	17.45	17.58	17.38			
5	QPSK	12	13	17.38	17.54	17.41			
5	QPSK	25	0	17.61	17.56	17.73	19	0	
5	16QAM	1	0	17.52	17.54	17.48			
5	16QAM	1	12	17.40	17.60	17.38			
5	16QAM	1	24	17.60	17.61	17.63	19	0	
5	16QAM	12	0	17.60	17.56	17.56			
5	16QAM	12	7	17.52	17.56	17.53			
5	16QAM	12	13	17.58	17.65	17.62	19	0	
5	16QAM	25	0	17.43	17.64	17.49			
5	64QAM	1	0	17.49	17.65	17.46			
5	64QAM	1	12	17.51	17.68	17.56	19	0	
5	64QAM	1	24	17.51	17.51	17.54			
5	64QAM	12	0	17.45	17.56	17.47			
5	64QAM	12	7	17.54	17.72	17.54	19	0	
5	64QAM	12	13	17.52	17.57	17.47			
5	64QAM	25	0	17.47	17.54	17.47			
5	256QAM	1	0	17.60	17.66	17.62	19	0	
5	256QAM	1	12	17.48	17.72	17.51			
5	256QAM	1	24	17.38	17.49	17.42			
5	256QAM	12	0	17.73	17.68	17.70	19	0	
5	256QAM	12	7	17.55	17.70	17.50			
5	256QAM	12	13	17.41	17.44	17.38			
5	256QAM	25	0	17.57	17.72	17.46			

## Reduced Power Mode for DSI6

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	32.26	32.30	32.22	33.50	23.26	23.30	23.22	24.50
GPRS 1 Tx slot	32.17	32.25	32.18	33.50	23.17	23.25	23.18	24.50
GPRS 2 Tx slots	30.71	30.81	30.74	32.00	24.71	24.81	24.74	26.00
GPRS 3 Tx slots	28.65	28.79	28.67	30.00	24.39	24.53	24.41	25.74
GPRS 4 Tx slots	26.57	26.69	26.59	27.50	23.57	23.69	23.59	24.50
EDGE 1 Tx slot	25.79	25.83	25.79	27.00	16.79	16.83	16.79	18.00
EDGE 2 Tx slots	24.85	24.94	24.88	26.00	18.85	18.94	18.88	20.00
EDGE 3 Tx slots	22.73	22.88	22.78	24.00	18.47	18.62	18.52	19.74
EDGE 4 Tx slots	20.70	20.79	20.73	22.00	17.70	17.79	17.73	19.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1592	1639	1693		1592	1639	1693	
Frequency (MHz)								
GSM 1 Tx slot	29.48	29.50	29.44	30.50	20.48	20.50	20.44	21.50
GPRS 1 Tx slot	29.48	29.56	29.39	30.50	20.48	20.56	20.39	21.50
GPRS 2 Tx slots	25.88	26.02	25.96	27.70	19.88	20.02	19.96	21.70
GPRS 3 Tx slots	24.21	24.26	24.21	25.90	19.95	20.00	19.95	21.64
GPRS 4 Tx slots	23.39	23.50	23.42	24.70	20.39	20.50	20.42	21.70
EDGE 1 Tx slot	26.55	26.58	26.48	27.00	16.55	16.58	16.48	18.00
EDGE 2 Tx slots	24.19	24.24	24.18	25.50	18.19	18.24	18.18	19.50
EDGE 3 Tx slots	22.00	22.13	22.10	23.50	17.74	17.87	17.84	19.24
EDGE 4 Tx slots	20.16	20.29	20.23	21.50	17.16	17.29	17.23	18.50

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4182	4233		
TX Channel	9662	9800	9938		4357	4407	4458		
Rx Channel	1852.4	1880	1907.6		826.4	836.4	846.6		
Frequency (MHz)									
3GPP Rel 99	AMR 12.2Kbps	20.31	20.46	20.36	21.60	22.54	22.67	22.53	24.00
3GPP Rel 99	RMC 12.2Kbps	20.46	20.56	20.51	21.60	22.61	22.78	22.66	24.00
3GPP Rel 6	HSDPA Subtest-1	19.52	19.53	19.53	20.60	21.43	21.72	21.55	23.00
3GPP Rel 6	HSDPA Subtest-2	19.47	19.59	19.44	20.60	21.67	21.90	21.77	23.00
3GPP Rel 6	HSDPA Subtest-3	18.97	19.05	18.95	20.10	20.99	21.26	21.14	22.50
3GPP Rel 6	HSDPA Subtest-4	18.91	19.03	19.01	20.10	21.07	21.26	21.18	22.50
3GPP Rel 6	HSUPA Subtest-1	20.37	20.46	20.46	21.60	22.55	22.71	22.61	24.00
3GPP Rel 6	HSUPA Subtest-2	18.50	18.62	18.56	19.60	20.64	20.88	20.76	22.00
3GPP Rel 6	HSUPA Subtest-3	19.49	19.54	19.53	20.60	21.49	21.66	21.63	23.00
3GPP Rel 6	HSUPA Subtest-4	18.43	18.51	18.58	19.60	20.64	20.84	20.59	22.00
3GPP Rel 6	HSUPA Subtest-5	20.34	20.49	20.37	21.60	22.50	22.70	22.57	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.90	18.02	18.01	19.10	20.23	20.28	20.20	21.50



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
1860 1860 1900										
20	QPSK	1	0	20.02	20.06	19.98			21.3	0
20	QPSK	1	49	19.93	20.01	19.98				
20	QPSK	50	0	19.90	19.99	19.93				
20	QPSK	50	24	19.93	19.91	19.98			21.3	0
20	QPSK	50	50	19.89	19.92	19.92				
20	QPSK	100	0	19.91	19.96	19.96				
20	QPSK	100	0	19.92	19.96	19.99				
20	QPSK	1	49	19.84	19.96	19.98			21.3	0
20	16QAM	1	59	19.07	19.95	19.91				
20	16QAM	50	0	19.85	19.98	19.98				
20	16QAM	50	24	19.90	19.97	19.93			21.3	0
20	16QAM	50	50	19.86	19.95	19.95				
20	16QAM	100	0	19.88	19.96	19.91				
20	16QAM	1	0	19.86	19.96	19.94				
20	64QAM	1	49	19.89	19.95	19.91			21.3	0
20	64QAM	50	0	19.87	19.93	19.94				
20	64QAM	50	0	19.23	19.24	19.21				
20	64QAM	50	24	19.15	19.08	19.11			21	0.3
20	64QAM	50	50	19.22	19.29	19.20				
20	64QAM	100	0	19.08	19.36	19.17				
20	256QAM	1	49	17.24	17.15	17.21			19	2.3
20	256QAM	1	59	17.22	17.16	17.04				
20	256QAM	50	0	17.26	17.22	17.26				
20	256QAM	50	24	17.25	17.21	17.08			19	2.3
20	256QAM	50	50	17.17	17.08	17.14				
20	256QAM	100	0	17.28	17.28	17.28				
Channel										
1867.5 1860 1902.5										
15	QPSK	1	0	19.87	19.91	19.94			21.3	0
15	QPSK	1	37	19.92	19.91	19.81				
15	QPSK	1	74	19.87	19.93	19.96				
15	QPSK	36	0	19.80	19.84	19.78			21.3	0
15	QPSK	36	25	19.78	19.85	19.77				
15	QPSK	36	39	19.80	19.79	19.75				
15	QPSK	75	0	19.83	19.81	19.76				
15	QPSK	75	0	19.86	19.81	19.85				
15	16QAM	1	37	19.09	19.83	19.74			21.3	0
15	16QAM	1	74	19.11	19.77	19.81				
15	16QAM	36	25	19.78	19.88	19.76			21.3	0
15	16QAM	36	29	19.85	19.85	19.75				
15	16QAM	36	39	19.86	19.85	19.84				
15	16QAM	75	0	19.81	19.88	19.76				
15	64QAM	1	0	19.81	19.92	19.74			21.3	0
15	64QAM	1	37	19.86	19.92	19.81				
15	64QAM	1	74	19.82	19.71	19.81				
15	64QAM	36	0	19.28	19.13	19.13			21	0.3
15	64QAM	36	25	19.26	19.11	19.11				
15	64QAM	36	39	19.18	19.05	19.05				
15	64QAM	75	0	19.33	19.41	19.17				
15	256QAM	1	37	17.27	17.27	17.27			19	2.3
15	256QAM	1	74	17.08	17.21	17.20				
15	256QAM	36	25	17.24	17.25	17.18			19	2.3
15	256QAM	36	29	17.24	17.25	17.15				
15	256QAM	75	0	17.08	17.20	17.17			19	2.3
15	256QAM	75	0	17.08	17.20	17.08				
Channel										
1860 1860 1900										
10	QPSK	1	0	19.87	19.91	19.94			21.3	0
10	QPSK	1	25	19.81	19.90	19.89				
10	QPSK	1	49	19.84	19.92	19.84				
10	QPSK	25	0	19.77	19.83	19.81			21.3	0
10	QPSK	25	25	19.79	19.84	19.85				
10	16QAM	1	0	19.88	19.74	19.79			21.3	0
10	16QAM	1	26	19.73	19.85	19.79				
10	16QAM	1	49	19.86	19.79	19.84				
10	16QAM	25	0	19.76	19.95	19.77				
10	16QAM	25	12	19.78	19.84	19.79			21.3	0
10	16QAM	36	0	19.24	19.08	19.08				
10	16QAM	50	0	19.70	19.85	19.75				
10	64QAM	1	0	19.78	19.93	19.68			21.3	0
10	64QAM	1	26	19.78	19.79	19.87				
10	64QAM	1	49	19.78	19.76	19.79				
10	64QAM	25	0	19.16	19.15	19.15				
10	64QAM	25	12	19.09	19.07	19.11			21	0.3
10	64QAM	25	26	19.26	19.24	19.12				
10	64QAM	50	0	19.03	19.31	19.11				
10	256QAM	1	26	17.08	17.07	17.04			19	2.3
10	256QAM	1	49	17.16	17.19	17.02				
10	256QAM	12	0	17.30	17.42	17.18				
10	256QAM	25	12	17.27	17.25	17.07			19	2.3
10	256QAM	25	25	17.19	17.13	17.08				
10	256QAM	50	0	17.10	17.01	17.02				
Channel										
1862.5 1860 1907.5										
5	QPSK	1	0	19.87	19.91	19.94			21.3	0
5	QPSK	1	12	19.84	19.95	19.85				
5	QPSK	1	24	19.86	19.95	19.88				
5	QPSK	12	0	19.82	19.84	19.82			21.3	0
5	QPSK	12	13	19.73	19.82	19.78				
5	QPSK	25	0	19.77	19.83	19.81				
5	16QAM	1	0	19.89	19.73	19.80			21.3	0
5	16QAM	1	12	19.78	19.86	19.75				
5	16QAM	1	24	19.80	19.87	19.83				
5	16QAM	12	0	19.71	19.89	19.76			21.3	0
5	16QAM	12	7	19.74	19.82	19.79				
5	16QAM	25	0	19.75	19.81	19.69				
5	64QAM	1	0	19.73	19.81	19.75			21.3	0
5	64QAM	1	12	19.78	19.87	19.87				
5	64QAM	1	24	19.74	19.68	19.89				
5	64QAM	12	0	19.25	19.10	19.22			21	0.3
5	64QAM	12	7	19.09	19.10	19.08				
5	64QAM	12	13	19.26	19.06	19.02				
5	64QAM	25	0	19.10	19.23	19.22				
5	256QAM	1	0	17.12	17.28	17.08			19	2.3
5	256QAM	1	12	17.21	17.10	17.10				
5	256QAM	1	24	17.18	17.09	17.02				
5	256QAM	12	0	17.22	17.40	17.09				
5	256QAM	12	7	17.16	17.21	17.10			19	2.3
5	256QAM	12	13	17.11	17.05	17.10				
5	256QAM	25	0	17.07	17.11	17.12				
Channel										
1861.5 1860 1908.5										
1.4	QPSK	1	0	19.88	19.90	19.83			21.3	0
1.4	QPSK	1	8	19.90	19.96	19.85				
1.4	QPSK	1	14	19.88	19.97	19.85				
1.4	QPSK	8	0	19.86	19.91	19.87			21.3	0
1.4	QPSK	8	4	19.89	19.92	19.84				
1.4	QPSK	8	7	19.76	19.83	19.84				
1.4	QPSK	15	0	19.78	19.81	19.72				
1.4	16QAM	1	0	19.78	19.75	19.81			21.3	0
1.4	16QAM	1	8	19.78	19.88	19.85				
1.4	16QAM	1	14	19.85	19.87	19.79				
1.4	16QAM	8	0	19.82	19.84	19.74			21.3	0
1.4	16QAM	8	4	19.80	19.81	19.72				
1.4	16QAM	15	0	19.77	19.86	19.70				
1.4	64QAM	1	0	19.73	19.83	19.87			21.3	0
1.4	64QAM	1	8	19.79	19.83	19.80				
1.4	64QAM	1	14	19.74	19.70	19.85				
1.4	64QAM	8	0	19.23	19.22	19.21			21	0.3
1.4	64QAM	8	4	19.14	19.14	19.10				
1.4	64QAM	8	7	19.20	19.11	19.06				
1.4	64QAM	15	0	19.21	19.29	19.08				
1.4	256QAM	1	0	17.16	17.28	17.19			19	2.3
1.4	256QAM									





Band 5 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	21.60	21.69	21.63			
10	QPSK	1	25	21.42	21.58	21.52	23	0	
10	QPSK	1	49	21.50	21.49	21.48			
10	QPSK	25	0	20.65	20.71	20.60			
10	QPSK	25	12	20.42	20.56	20.53	22	1	
10	QPSK	25	25	20.48	20.47	20.50			
10	QPSK	50	0	20.45	20.61	20.56			
10	16QAM	1	0	20.61	20.66	20.47			
10	16QAM	1	25	20.33	20.51	20.46	22	1	
10	16QAM	1	49	20.43	20.38	20.38			
10	16QAM	25	0	19.65	19.69	19.63			
10	16QAM	25	12	19.43	19.56	19.55	21	2	
10	16QAM	25	25	19.48	19.42	19.54			
10	16QAM	50	0	19.45	19.65	19.60			
10	64QAM	1	0	19.59	19.65	19.50			
10	64QAM	1	25	19.34	19.55	19.51	21	2	
10	64QAM	1	49	19.41	19.43	19.43			
10	64QAM	25	0	18.65	18.74	18.59			
10	64QAM	25	12	18.39	18.53	18.50	20	3	
10	64QAM	25	25	18.53	18.44	18.53			
10	64QAM	50	0	18.50	18.63	18.55			
10	256QAM	1	0	17.67	17.64	17.62			
10	256QAM	1	25	17.38	17.59	17.46	18	5	
10	256QAM	1	49	17.52	17.39	17.50			
10	256QAM	25	0	17.42	17.63	17.57			
10	256QAM	25	12	17.66	17.70	17.41	18	5	
10	256QAM	25	25	17.38	17.48	17.61			
10	256QAM	50	0	17.43	17.35	17.48			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.51	21.62	21.58			
5	QPSK	1	12	21.38	21.47	21.51	23	0	
5	QPSK	1	24	21.48	21.47	21.39			
5	QPSK	12	0	20.63	20.67	20.54			
5	QPSK	12	7	20.40	20.54	20.49	22	1	
5	QPSK	12	13	20.39	20.41	20.46			
5	QPSK	25	0	20.40	20.51	20.47			
5	16QAM	1	0	20.58	20.64	20.36			
5	16QAM	1	12	20.30	20.45	20.36	22	1	
5	16QAM	1	24	20.38	20.32	20.37			
5	16QAM	12	0	19.60	19.61	19.61			
5	16QAM	12	7	19.34	19.54	19.53	21	2	
5	16QAM	12	13	19.40	19.38	19.53			
5	16QAM	25	0	19.36	19.62	19.51			
5	64QAM	1	0	19.50	19.60	19.40			
5	64QAM	1	12	19.30	19.45	19.44	21	2	
5	64QAM	1	24	19.33	19.42	19.41			
5	64QAM	12	0	18.62	18.72	18.58			
5	64QAM	12	7	18.36	18.47	18.43	20	3	
5	64QAM	12	13	18.44	18.36	18.47			
5	64QAM	25	0	18.42	18.54	18.54			
5	256QAM	1	0	17.62	17.71	17.59			
5	256QAM	1	12	17.47	17.57	17.60	18	5	
5	256QAM	1	24	17.46	17.44	17.58			
5	256QAM	12	0	17.51	17.59	17.51			
5	256QAM	12	7	17.58	17.60	17.55	18	5	
5	256QAM	12	13	17.27	17.50	17.54			
5	256QAM	25	0	17.43	17.43	17.41			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	21.55	21.64	21.53			
3	QPSK	1	8	21.36	21.54	21.50	23	0	
3	QPSK	1	14	21.40	21.43	21.43			
3	QPSK	8	0	20.56	20.64	20.56			
3	QPSK	8	4	20.34	20.55	20.47	22	1	
3	QPSK	8	7	20.38	20.39	20.47			
3	QPSK	15	0	20.43	20.52	20.54			
3	16QAM	1	0	20.55	20.65	20.38			
3	16QAM	1	8	20.32	20.45	20.41	22	1	
3	16QAM	1	14	20.42	20.34	20.34			
3	16QAM	8	0	19.60	19.67	19.54			
3	16QAM	8	4	19.34	19.49	19.44			
3	16QAM	8	7	19.41	19.39	19.52	21	2	
3	16QAM	15	0	19.41	19.57	19.50			
3	64QAM	1	0	19.54	19.62	19.42			
3	64QAM	1	8	19.33	19.52	19.42	21	2	
3	64QAM	1	14	19.34	19.38	19.34			
3	64QAM	8	0	18.54	18.66	18.51			
3	64QAM	8	4	18.37	18.44	18.44	20	3	
3	64QAM	8	7	18.52	18.34	18.46			
3	64QAM	15	0	18.42	18.59	18.50			
3	256QAM	1	0	17.73	17.65	17.72			
3	256QAM	1	8	17.34	17.58	17.47	18	5	
3	256QAM	1	14	17.47	17.33	17.59			
3	256QAM	8	0	17.46	17.65	17.57			
3	256QAM	8	4	17.64	17.57	17.44	18	5	
3	256QAM	8	7	17.38	17.56	17.51			
3	256QAM	15	0	17.38	17.39	17.35			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.50	21.60	21.58			
1.4	QPSK	1	3	21.36	21.49	21.51	23	0	
1.4	QPSK	1	5	21.48	21.47	21.37			
1.4	QPSK	3	0	21.44	21.58	21.51			
1.4	QPSK	3	1	21.31	21.40	21.44			
1.4	QPSK	3	3	21.42	21.40	21.34	22	1	
1.4	QPSK	6	0	20.41	20.52	20.46			
1.4	16QAM	1	0	20.56	20.62	20.43			
1.4	16QAM	1	3	20.29	20.44	20.41	22	1	
1.4	16QAM	1	5	20.35	20.33	20.35			
1.4	16QAM	3	0	20.48	20.60	20.40			
1.4	16QAM	3	1	20.19	20.36	20.34			
1.4	16QAM	3	3	20.33	20.27	20.34			
1.4	16QAM	6	0	19.39	19.59	19.54	21	2	
1.4	64QAM	1	0	19.57	19.60	19.39			
1.4	64QAM	1	3	19.28	19.48	19.49			
1.4	64QAM	1	5	19.39	19.34	19.41	21	2	
1.4	64QAM	3	0	19.49	19.53	19.34			
1.4	64QAM	3	1	19.18	19.43	19.40			
1.4	64QAM	3	3	19.37	19.28	19.34			
1.4	64QAM	6	0	18.42	18.59	18.52	20	3	
1.4	256QAM	1	0	17.72	17.76	17.56			
1.4	256QAM	1	3	17.49	17.65	17.53			
1.4	256QAM	1	5	17.42	17.51	17.54			
1.4	256QAM	3	0	17.39	17.57	17.60	18	5	
1.4	256QAM	3	1	17.68	17.59	17.56			
1.4	256QAM	3	3	17.33	17.58	17.54			
1.4	256QAM	6	0	17.36	17.45	17.36	18	5	

Band 7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.56	21.62	21.56			
20	QPSK	1	49	21.50	21.51	21.41	22.7	0	
20	QPSK	1	99	21.46	21.45	21.42			
20	QPSK	50	0	21.41	21.49	21.45			
20	QPSK	50	24	21.46	21.35	21.34	22.7	0	
20	QPSK	50	50	21.36	21.28	21.36			
20	QPSK	100	0	21.44	21.48	21.45			
20	16QAM	1	0	21.47	21.55	21.51			
20	16QAM	1	49	21.46	21.47	21.36	22.7	0	
20	16QAM	1	99	21.39	21.34	21.26			
20	16QAM	50	0	20.68	20.95	20.65			
20	16QAM	50	24	20.56	20.89	20.62	22	0.7	
20	16QAM	50	50	20.57	20.85	20.63			
20	16QAM	100	0	20.77	20.87	20.73			
20	64QAM	1	0	20.58	20.88	20.57			
20	64QAM	1	49	20.44	20.83	20.57	22	0.7	
20	64QAM	1	99	20.54	20.76	20.58			
20	64QAM	50	0	19.64	19.90	19.59			
20	64QAM	50	24	19.54	19.85	19.59	21	1.7	
20	64QAM	50	50	19.64	19.82	19.56			
20	64QAM	100	0	19.79	19.84	19.69			
20	256QAM	1	0	18.78	18.86	18.68			
20	256QAM	1	49	18.55	18.98	18.65	19	3.7	
20	256QAM	1	99	18.53	18.91	18.65			
20	256QAM	50	0	18.71	18.86	18.70			
20	256QAM	50	24	18.58	18.83	18.55	19	3.7	
20	256QAM	50	50	18.45	18.77	18.62			
20	256QAM	100	0	18.46	18.79	18.54			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	21.47	21.50	21.50			
15	QPSK	1	37	21.33	21.39	21.28	22.7	0	
15	QPSK	1	74	21.35	21.39	21.34			
15	QPSK	36	0	21.33	21.38	21.46			
15	QPSK	36	20	21.31	21.25	21.23	22.7	0	
15	QPSK	36							



### 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)								
30	QPSK	1	0	2118	2146	2141	22.5	0
30	QPSK	1	49	2117	2146	2141		
30	QPSK	1	99	2117	2126	2130		
30	QPSK	50	0	2117	2142	2130		
30	QPSK	50	24	2114	2139	2131		
30	QPSK	50	50	2112	2128	2132		
30	QPSK	100	0	2116	2136	2131		
30	16QAM	1	0	2112	2136	2136		
30	16QAM	1	49	2120	2132	2143		
30	16QAM	1	99	2113	2124	2126		
30	16QAM	50	0	2073	2081	2087		
30	16QAM	50	24	2066	2063	2073		
30	16QAM	50	50	2063	2079	2083		
30	16QAM	100	0	2054	2082	2074		
30	16QAM	1	0	2071	2072	2074		
30	64QAM	1	49	2058	2059	2061		
30	64QAM	1	99	2058	2074	2074		
30	64QAM	50	0	1971	1981	1984		
30	64QAM	50	24	1970	1972	1972		
30	64QAM	50	50	1973	1984	1980		
30	64QAM	100	0	1967	1985	1976		
30	256QAM	1	0	1742	1742	1742		
30	256QAM	1	49	1774	1780	1774		
30	256QAM	1	99	1759	1779	1776		
30	256QAM	50	0	1742	1742	1742		
30	256QAM	50	24	1759	1787	1772		
30	256QAM	50	50	1762	1769	1758		
30	256QAM	100	0	1742	1742	1742		
Channel								
				39715	39965	40215		
Frequency (MHz)								
15	QPSK	1	0	2114	2131	2134	22.5	0
15	QPSK	1	31	2112	2132	2132		
15	QPSK	1	74	2113	2119	2124		
15	QPSK	36	0	2102	2129	2131		
15	QPSK	36	21	2102	2129	2131		
15	QPSK	36	39	2103	2121	2126		
15	QPSK	75	0	2104	2127	2138		
15	16QAM	1	0	2106	2122	2132		
15	16QAM	1	31	2112	2128	2133		
15	16QAM	1	74	2118	2114	2116		
15	16QAM	36	0	2067	2069	2061		
15	16QAM	36	21	2067	2069	2060		
15	16QAM	36	39	2058	2065	2071		
15	16QAM	75	0	2048	2073	2061		
15	64QAM	1	0	2077	2076	2076		
15	64QAM	1	37	2052	2046	2052		
15	64QAM	1	74	2043	2070	2062		
15	64QAM	36	0	1982	1974	1984		
15	64QAM	36	20	1956	1963	1961		
15	64QAM	36	39	1957	1970	1966		
15	64QAM	75	0	1962	1979	1969		
15	256QAM	1	0	1742	1742	1742		
15	256QAM	1	37	1770	1774	1760		
15	256QAM	1	74	1751	1770	1772		
15	256QAM	36	0	1742	1742	1742		
15	256QAM	36	20	1751	1755	1762		
15	256QAM	36	39	1747	1757	1744		
15	256QAM	75	0	1742	1742	1742		
Channel								
				37870	38020	38170		
Frequency (MHz)								
10	QPSK	1	0	2112	2136	2134	22.5	0
10	QPSK	1	49	2114	2116	2123		
10	QPSK	25	0	2112	2129	2123		
10	QPSK	25	25	2107	2114	2124		
10	QPSK	50	0	2103	2130	2130		
10	16QAM	1	0	2106	2126	2132		
10	16QAM	1	49	2116	2113	2116		
10	16QAM	25	0	2064	2070	2072		
10	16QAM	25	12	2062	2067	2066		
10	16QAM	25	25	2067	2070	2078		
10	16QAM	50	0	2041	2078	2065		
10	16QAM	50	0	2060	2066	2066		
10	64QAM	1	25	2051	2047	2054		
10	64QAM	1	49	2045	2059	2068		
10	64QAM	25	0	1966	1974	1986		
10	64QAM	25	12	1969	1972	1986		
10	64QAM	25	25	1970	1979	1969		
10	64QAM	50	0	1958	1973	1966		
10	256QAM	1	0	1742	1742	1742		
10	256QAM	1	25	1746	1773	1768		
10	256QAM	1	49	1748	1774	1764		
10	256QAM	25	0	1738	1776	1760		
10	256QAM	25	12	1752	1758	1761		
10	256QAM	25	25	1757	1758	1751		
10	256QAM	50	0	1748	1748	1741		
Channel								
				37715	38065	38215		
Frequency (MHz)								
5	QPSK	1	0	2114	2130	2132	22.5	0
5	QPSK	1	24	2105	2116	2119		
5	QPSK	12	0	2108	2139	2120		
5	QPSK	12	7	2099	2125	2122		
5	QPSK	12	13	2102	2123	2124		
5	QPSK	25	0	2104	2133	2123		
5	16QAM	1	12	2112	2118	2137		
5	16QAM	1	24	2107	2110	2113		
5	16QAM	12	0	2061	2066	2062		
5	16QAM	12	7	2060	2069	2068		
5	16QAM	12	13	2059	2067	2071		
5	16QAM	25	0	2046	2076	2065		
5	64QAM	1	0	2044	2062	2070		
5	64QAM	1	12	2045	2051	2055		
5	64QAM	1	24	2053	2067	2062		
5	64QAM	12	0	1983	1973	1978		
5	64QAM	12	7	1984	1972	1983		
5	64QAM	12	13	1980	1970	1975		
5	64QAM	25	0	1986	1979	1973		
5	256QAM	1	0	1752	1770	1772		
5	256QAM	1	12	1762	1772	1768		
5	256QAM	1	24	1751	1769	1763		
5	256QAM	12	0	1767	1773	1761		
5	256QAM	12	7	1751	1755	1757		
5	256QAM	12	13	1758	1765	1764		
5	256QAM	25	0	1746	1754	1767		

### Band 41 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Low Middle Ch. (Freq)	Power High Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel										
				39750	40185	40620	41055	41490		
Frequency (MHz)										
20	QPSK	1	0	2137	2132	2150	2148	2139	22.5	0
20	QPSK	1	31	2136	2132	2148	2141	2135		
20	QPSK	1	99	2133	2121	2140	2143	2131		
20	QPSK	50	0	2130	2127	2145	2139	2135		
20	QPSK	50	24	2130	2129	2144	2140	2132		
20	QPSK	50	50	2133	2125	2142	2141	2135		
20	QPSK	100	0	2133	2127	2141	2138	2127		
20	16QAM	1	0	2127	2121	2144	2139	2133		
20	16QAM	1	49	2126	2124	2142	2146	2129		
20	16QAM	1	99	2127	2122	2139	2138	2136		
20	16QAM	50	0	2084	2081	2095	2091	2081		
20	16QAM	50	24	2070	2076	2093	2090			
20	16QAM	50	50	2084	2077	2091	2090	2081		
20	16QAM	100	0	2078	2076	2091	2089	2091		
20	64QAM	1	0	2083	2075	2090	2084	2096		
20	64QAM	1	49	2064	2065	2074	2069	2075		
20	64QAM	1	99	2079	2086	2082	2081	2076		
20	64QAM	50	0	1988	1988	1995	1997	1984		
20	64QAM	50	24	1982	1977	1988	1979	1984		
20	64QAM	50	50	1987	1977	1986	1985	1988		
20	64QAM	100	0	1969	1974	1986	1984	1979		
20	256QAM	1	0	1748	1748	1748	1748	1748		
20	256QAM	1	49	1770	1779	1781	1787	1785		
20	256QAM	1	99	1775	1767	1782	1783	1773		
20	256QAM	50	0	1748	1748	1748	1748	1748		
20	256QAM	50	24	1774	1773	1773	1783	1764		
20	256QAM	50	50	1760	1773	1778	1773	1773		
20	256QAM	100	0	1748	1748	1748	1748	1748		
Channel										
				39755	40190	40625	41060	41495</		

Band 42 Part27Q Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.79	20.96	20.86	22	0	
20	QPSK	1	49	20.70	20.90	20.70			
20	QPSK	1	99	20.64	20.74	20.71			
20	QPSK	50	0	20.72	20.83	20.71	22	0	
20	QPSK	50	24	20.63	20.80	20.59			
20	QPSK	50	50	20.60	20.59	20.67			
20	QPSK	100	0	20.76	20.81	20.78	22	0	
20	16QAM	1	0	20.57	20.82	20.54			
20	16QAM	1	49	20.51	20.69	20.64			
20	16QAM	1	99	20.68	20.92	20.76	22	0	
20	16QAM	50	0	20.59	20.76	20.60			
20	16QAM	50	24	20.48	20.68	20.62			
20	16QAM	50	50	20.62	20.82	20.70	22	0	
20	16QAM	100	0	20.70	20.84	20.70			
20	64QAM	1	0	20.68	20.79	20.76			
20	64QAM	1	49	20.63	20.84	20.63	22	0	
20	64QAM	1	99	20.52	20.63	20.60			
20	64QAM	50	0	19.29	19.30	19.26			
20	64QAM	50	24	19.09	19.25	19.13	21	1	
20	64QAM	50	50	19.18	19.11	19.09			
20	64QAM	100	0	19.20	19.27	19.16			
20	256QAM	1	0	17.31	17.34	17.16	19	3	
20	256QAM	1	49	17.18	17.16	17.24			
20	256QAM	1	99	17.22	17.09	17.17			
20	256QAM	50	0	17.24	17.24	17.00	19	3	
20	256QAM	50	24	17.30	17.10	17.14			
20	256QAM	50	50	17.14	17.21	17.11			
20	256QAM	100	0	17.16	17.02	17.10			
Channel				43166	43340	43515			
Frequency (MHz)				3557.5	3575	3592.5			
15	QPSK	1	0	20.66	20.81	20.83	22	0	
15	QPSK	1	37	20.59	20.80	20.58			
15	QPSK	1	74	20.51	20.60	20.55			
15	QPSK	36	0	20.61	20.73	20.60	22	0	
15	QPSK	36	20	20.47	20.76	20.51			
15	QPSK	36	39	20.48	20.48	20.63			
15	QPSK	75	0	20.65	20.73	20.62	22	0	
15	16QAM	1	0	20.45	20.74	20.49			
15	16QAM	1	37	20.42	20.60	20.58			
15	16QAM	1	74	20.51	20.76	20.70	22	0	
15	16QAM	36	0	20.52	20.59	20.53			
15	16QAM	36	20	20.35	20.51	20.51			
15	16QAM	36	39	20.57	20.79	20.54	22	0	
15	16QAM	75	0	20.59	20.71	20.63			
15	64QAM	1	0	20.59	20.69	20.61			
15	64QAM	1	37	20.57	20.76	20.58	22	0	
15	64QAM	1	74	20.48	20.52	20.51			
15	64QAM	36	0	19.20	19.24	19.22			
15	64QAM	36	20	19.04	19.13	19.01	21	1	
15	64QAM	36	39	19.11	19.05	19.12			
15	64QAM	75	0	19.13	19.14	19.07			
15	256QAM	1	0	17.34	17.24	17.30	19	3	
15	256QAM	1	37	17.13	17.33	17.16			
15	256QAM	1	74	17.11	17.21	17.03			
15	256QAM	36	0	17.19	17.28	17.07	19	3	
15	256QAM	36	20	17.27	17.14	17.24			
15	256QAM	36	39	17.16	17.18	17.01			
15	256QAM	75	0	17.17	17.07	17.05			
Channel				43140	43340	43540			
Frequency (MHz)				3555	3575	3595			
10	QPSK	1	0	20.75	20.83	20.70	22	0	
10	QPSK	1	25	20.53	20.77	20.57			
10	QPSK	1	49	20.53	20.60	20.56			
10	QPSK	25	0	20.63	20.79	20.67	22	0	
10	QPSK	25	12	20.48	20.82	20.52			
10	QPSK	25	25	20.48	20.48	20.62			
10	QPSK	50	0	20.72	20.74	20.68	22	0	
10	16QAM	1	0	20.43	20.76	20.43			
10	16QAM	1	25	20.38	20.61	20.55			
10	16QAM	1	49	20.57	20.83	20.68	22	0	
10	16QAM	25	0	20.43	20.69	20.53			
10	16QAM	25	12	20.35	20.61	20.54			
10	16QAM	25	25	20.52	20.69	20.66	22	0	
10	16QAM	50	0	20.55	20.67	20.64			
10	64QAM	1	0	20.61	20.70	20.68			
10	64QAM	1	25	20.57	20.71	20.55	22	0	
10	64QAM	1	49	20.36	20.60	20.54			
10	64QAM	25	0	19.24	19.17	19.20			
10	64QAM	25	12	19.01	19.12	19.09	21	1	
10	64QAM	25	25	19.13	19.05	19.08			
10	64QAM	50	0	19.16	19.19	19.03			
10	256QAM	1	0	17.22	17.29	17.30	19	3	
10	256QAM	1	25	17.20	17.17	17.14			
10	256QAM	1	49	17.10	17.21	17.18			
10	256QAM	25	0	17.23	17.31	17.02	19	3	
10	256QAM	25	12	17.19	17.11	17.05			
10	256QAM	25	25	17.13	17.13	17.01			
10	256QAM	50	0	17.02	17.01	17.12			
Channel				43115	43340	43565			
Frequency (MHz)				3552.5	3575	3597.5			
5	QPSK	1	0	20.75	20.85	20.73	22	0	
5	QPSK	1	12	20.64	20.83	20.61			
5	QPSK	1	24	20.49	20.67	20.64			
5	QPSK	12	0	20.60	20.74	20.63	22	0	
5	QPSK	12	7	20.58	20.71	20.51			
5	QPSK	12	13	20.47	20.51	20.63			
5	QPSK	25	0	20.68	20.78	20.65	22	0	
5	16QAM	1	0	20.49	20.74	20.42			
5	16QAM	1	12	20.40	20.58	20.60			
5	16QAM	1	24	20.57	20.76	20.72	22	0	
5	16QAM	12	0	20.53	20.68	20.57			
5	16QAM	12	7	20.36	20.57	20.56			
5	16QAM	12	13	20.46	20.69	20.59	22	0	
5	16QAM	25	0	20.57	20.71	20.57			
5	64QAM	1	0	20.62	20.66	20.67			
5	64QAM	1	12	20.60	20.79	20.54	22	0	
5	64QAM	1	24	20.36	20.57	20.54			
5	64QAM	12	0	19.18	19.24	19.14			
5	64QAM	12	7	19.14	19.17	19.01	21	1	
5	64QAM	12	13	19.07	19.02	19.01			
5	64QAM	25	0	19.07	19.14	19.09			
5	256QAM	1	0	17.22	17.42	17.27	19	3	
5	256QAM	1	12	17.22	17.33	17.10			
5	256QAM	1	24	17.16	17.15	17.03			
5	256QAM	12	0	17.16	17.34	17.03	19	3	
5	256QAM	12	7	17.14	17.28	17.15			
5	256QAM	12	13	17.10	17.16	17.08			
5	256QAM	25	0	17.13	17.13	17.23			



Band 7 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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.21	19.28	19.26	20.4	0	
20	QPSK	1	49	19.18	19.21	19.19			
20	QPSK	1	99	19.17	19.15	19.07			
20	QPSK	50	0	19.06	19.23	19.21	20.4	0	
20	QPSK	50	24	19.14	19.16	19.02			
20	QPSK	50	50	19.04	19.10	19.01			
20	QPSK	100	0	19.14	19.24	19.12	20.4	0	
20	16QAM	1	0	19.11	19.08	19.10			
20	16QAM	1	49	19.08	18.98	18.98			
20	16QAM	1	99	19.08	19.20	19.21	20.4	0	
20	16QAM	50	0	19.03	19.15	19.10			
20	16QAM	50	24	19.12	19.02	19.01			
20	16QAM	50	50	19.05	19.14	19.19	20.4	0	
20	16QAM	100	0	19.01	19.05	19.05			
20	64QAM	1	0	19.08	19.08	19.03			
20	64QAM	1	49	19.13	19.15	19.15	20.4	0	
20	64QAM	1	99	19.04	19.08	19.10			
20	64QAM	50	0	19.10	19.03	18.98			
20	64QAM	50	24	19.12	19.16	19.13	20.4	0	
20	64QAM	50	50	19.07	19.16	19.04			
20	64QAM	100	0	19.14	18.99	18.93			
20	256QAM	1	0	18.21	18.28	18.16	19	1.4	
20	256QAM	1	49	18.03	18.04	18.28			
20	256QAM	1	99	18.10	18.15	18.05			
20	256QAM	50	0	18.20	18.12	18.10	19	1.4	
20	256QAM	50	24	18.13	18.15	18.03			
20	256QAM	50	50	18.05	18.11	18.20			
20	256QAM	100	0	18.13	18.04	18.15			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.18	19.22	19.20	20.4	0	
15	QPSK	1	37	19.10	19.06	19.15			
15	QPSK	1	74	19.01	19.11	18.97			
15	QPSK	36	0	19.03	18.99	19.16	20.4	0	
15	QPSK	36	20	19.06	19.06	18.96			
15	QPSK	36	39	18.93	18.95	18.94			
15	QPSK	75	0	19.11	19.19	19.04	20.4	0	
15	16QAM	1	0	19.00	19.04	19.07			
15	16QAM	1	37	18.96	18.95	18.92			
15	16QAM	1	74	18.94	19.06	19.09	20.4	0	
15	16QAM	36	0	18.96	18.98	18.94			
15	16QAM	36	20	19.04	18.99	18.97			
15	16QAM	36	39	18.89	19.11	19.13	20.4	0	
15	16QAM	75	0	18.85	18.96	18.99			
15	64QAM	1	0	18.95	18.92	18.94			
15	64QAM	1	37	19.06	18.98	19.09	20.4	0	
15	64QAM	1	74	19.00	19.03	19.03			
15	64QAM	36	0	19.00	18.89	18.82			
15	64QAM	36	20	19.05	19.09	18.99	20.4	0	
15	64QAM	36	39	18.82	19.10	18.91			
15	64QAM	75	0	19.07	18.89	18.90			
15	256QAM	1	0	18.22	18.28	18.26	19	1.4	
15	256QAM	1	37	18.19	18.17	18.17			
15	256QAM	1	74	18.01	18.14	18.08			
15	256QAM	36	0	18.08	18.29	18.07	19	1.4	
15	256QAM	36	20	18.07	18.01	18.08			
15	256QAM	36	39	18.05	18.09	18.03			
15	256QAM	75	0	18.11	18.14	18.06			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	19.10	19.18	19.10	20.4	0	
10	QPSK	1	25	19.05	19.11	19.09			
10	QPSK	1	49	19.01	19.00	18.92			
10	QPSK	25	0	18.91	19.11	19.05	20.4	0	
10	QPSK	25	12	19.08	19.12	18.89			
10	QPSK	25	25	18.99	19.04	18.93			
10	QPSK	50	0	19.06	19.18	18.96	20.4	0	
10	16QAM	1	0	18.96	18.91	19.03			
10	16QAM	1	25	18.93	18.83	18.82			
10	16QAM	1	49	19.02	19.08	19.05	20.4	0	
10	16QAM	25	0	18.93	19.00	18.98			
10	16QAM	25	12	19.02	18.98	18.89			
10	16QAM	25	25	18.90	19.08	19.14	20.4	0	
10	16QAM	50	0	18.96	18.93	18.90			
10	64QAM	1	0	18.97	18.99	18.97			
10	64QAM	1	25	19.00	19.12	19.12	20.4	0	
10	64QAM	1	49	18.91	18.93	18.99			
10	64QAM	25	0	18.95	18.87	18.87			
10	64QAM	25	12	19.06	19.11	19.02	20.4	0	
10	64QAM	25	25	18.95	19.05	18.96			
10	64QAM	50	0	19.01	18.88	18.84			
10	256QAM	1	0	18.29	18.34	18.23	19	1.4	
10	256QAM	1	25	18.09	18.06	18.20			
10	256QAM	1	49	18.15	18.25	18.11			
10	256QAM	25	0	18.11	18.26	18.08	19	1.4	
10	256QAM	25	12	18.17	18.18	18.04			
10	256QAM	25	25	18.10	18.00	18.15			
10	256QAM	50	0	18.19	18.17	18.12			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.12	19.13	19.21	20.4	0	
5	QPSK	1	12	19.07	19.06	19.12			
5	QPSK	1	24	19.07	19.08	18.95			
5	QPSK	12	0	18.92	19.01	19.09	20.4	0	
5	QPSK	12	7	18.97	19.00	18.94			
5	QPSK	12	13	19.00	18.97	18.94			
5	QPSK	25	0	19.07	19.10	19.02	20.4	0	
5	16QAM	1	0	18.98	18.95	19.06			
5	16QAM	1	12	19.01	18.90	18.91			
5	16QAM	1	24	19.02	19.13	19.16	20.4	0	
5	16QAM	12	0	18.91	19.01	18.95			
5	16QAM	12	7	19.05	18.93	18.90			
5	16QAM	12	13	18.99	19.00	19.12	20.4	0	
5	16QAM	25	0	18.95	18.99	18.96			
5	64QAM	1	0	18.96	19.03	18.92			
5	64QAM	1	12	19.07	19.01	19.06	20.4	0	
5	64QAM	1	24	18.98	18.98	19.07			
5	64QAM	12	0	18.97	18.86	18.91			
5	64QAM	12	7	18.95	19.13	19.08	20.4	0	
5	64QAM	12	13	18.95	18.99	18.92			
5	64QAM	25	0	19.00	18.88	18.88			
5	256QAM	1	0	18.12	18.34	18.16	19	1.4	
5	256QAM	1	12	18.16	18.07	18.21			
5	256QAM	1	24	18.07	18.09	18.17			
5	256QAM	12	0	18.16	18.14	18.17	19	1.4	
5	256QAM	12	7	18.04	18.18	18.04			
5	256QAM	12	13	18.05	18.02	18.10			
5	256QAM	25	0	18.12	18.11	18.10			



## Downlink CA Power

2CA DL

CA List	PCC									SCC				Power		
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. Channel	Mod.	RB	RB Offset	Configuratio n		Band	(MHz)	Freq. Channel	Configuratio n			
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.23	22.37
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	21.49	21.69
	Band 7	Ant5	20M	2535	21100	QPSK	1	0		4x4MIMO	Band 5	10M	881.5	2525		22.07
CA_7B	Band 7	Ant5	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.13	22.28
CA_7C	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.11	22.28
CA_7A-7A	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2688	3425	4x4MIMO	22.16	22.28
CA_38C	Band 38	Ant1	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	23.13	23.26
CA_41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.79	22.97
CA_41A-41A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	22.87	22.97
CA_41A-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.87	22.97
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.13	22.29
CA_42C	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3520	42758	4x4MIMO	22.21	22.29



### 3CA DL

3CA List	PCC								SCC1				SCC2				Power				
	LTE	BW	BW	UL	UL	Mod.	LULF	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	Offset	Configuration	Band	(MHz)	Freq. (MHz)	Channel	Configuration	Band	(MHz)	Freq. (MHz)	Channel	Configuration	Tx. Power (dBm)	Tx. Power (dBm)
CA_41D	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	22.79	22.97
CA_41A-41C	Band 41	Ant1	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.82	22.97
CA_41A-41A-41A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	22.88	22.97
CA_41A-42C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	22.87	22.97
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.21	22.29
CA_41C-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.82	22.97
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.13	22.29
CA_42D	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	22.20	22.29

### 4CA DL

Configure	PCC								SCC1				SCC2				SCC3				Power					
	LTE	BW	BW	UL	UL	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)	Channel	Mod.	RB	RB	Offset	Band	(MHz)	Channel	Channel	Band	(MHz)	Channel	Channel	Band	(MHz)	Channel	Channel	Band	(MHz)	Channel	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_41C-41C	Band 41	Ant1	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	22.76	22.97
CA_41E	Band 41	Ant1	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	22.81	22.97
CA_41A-41D	Band 41	Ant1	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	22.83	22.97
CA_41A-41A-41C	Band 41	Ant1	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	22.84	22.97
CA_41C-42C	Band 41	Ant1	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	22.85	22.97
	Band 42	Ant2	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	22.18	22.29



## Uplink CA Power

Ant5 Full Power

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	22.10	24.00
21100	21298	QPSK	1	99	1	0	22.21	24.00
21350	21152	QPSK	1	0	1	99	22.18	24.00

Ant1 Full Power

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	22.80	24.00
40185	40383	QPSK	1	99	1	0	22.64	24.00
40620	40818	QPSK	1	99	1	0	22.94	24.00
41055	41253	QPSK	1	99	1	0	22.83	24.00
41292	41490	QPSK	1	99	1	0	22.65	24.00

Ant1 Full Power

CA 41C HPUE								
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	26.11	27.00
40185	40383	QPSK	1	99	1	0	26.03	27.00
40620	40818	QPSK	1	99	1	0	26.16	27.00
41055	41253	QPSK	1	99	1	0	25.98	27.00
41292	41490	QPSK	1	99	1	0	25.67	27.00

Ant2 Full Power

CA 42C								
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		
42190	42388	QPSK	1	99	1	0	22.21	24.00
42590	42788	QPSK	1	99	1	0	22.25	24.00
42990	42792	QPSK	1	0	1	99	22.12	24.00





Uplink CA Power

Ant5 DS13 Standalone&Simultaneous

		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	17.86	19.00	
21100	21298	QPSK	1	99	1	0	17.92	19.00	
21350	21152	QPSK	1	0	1	99	17.90	18.00	

Ant5 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	19.09	20.40	
21100	21298	QPSK	1	99	1	0	19.20	20.40	
21350	21152	QPSK	1	0	1	99	19.15	20.40	

Ant1 DS12 Standalone

		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	19.78	20.30	
40185	40383	QPSK	1	99	1	0	19.75	20.30	
40620	40818	QPSK	1	99	1	0	19.82	20.30	
41055	41253	QPSK	1	99	1	0	19.73	20.30	
41490	41292	QPSK	1	0	1	99	19.71	20.30	

Ant1 DS12 Simultaneous

		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	19.28	18.80	
40185	40383	QPSK	1	99	1	0	18.35	18.80	
40620	40818	QPSK	1	99	1	0	18.38	18.80	
41055	41253	QPSK	1	99	1	0	18.32	18.80	
41490	41292	QPSK	1	0	1	99	18.38	18.80	

Ant1 DS12 Standalone

		CA_41C HPUE							
		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	21.21	21.90	
40185	40383	QPSK	1	99	1	0	21.33	21.90	
40620	40818	QPSK	1	99	1	0	21.42	21.90	
41055	41253	QPSK	1	99	1	0	21.38	21.90	
41292	41490	QPSK	1	99	1	0	21.28	21.90	

Ant1 DS12 Simultaneous

		CA_41C HPUE							
		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	19.75	20.40	
40185	40383	QPSK	1	99	1	0	19.71	20.40	
40620	40818	QPSK	1	99	1	0	19.62	20.40	
41055	41253	QPSK	1	99	1	0	19.81	20.40	
41292	41490	QPSK	1	99	1	0	19.77	20.40	

Ant2 DS12 Standalone

		CA_42C							
		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			
42190	42388	QPSK	1	99	1	0	16.95	18.20	
42580	42778	QPSK	1	99	1	0	17.01	18.20	
42980	42792	QPSK	1	0	1	99	16.87	18.20	

Ant2 DS12 Simultaneous

		CA_42C							
		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			
42190	42388	QPSK	1	99	1	0	15.62	17.20	
42580	42778	QPSK	1	99	1	0	15.65	17.20	
42980	42792	QPSK	1	0	1	99	15.78	17.20	



Ant1 DS13 Standalone

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	39848	QPSK	1	99	1	0	18.54	18.90
40185	40383	QPSK	1	99	1	0	18.99	18.90
40620	40818	QPSK	1	99	1	0	18.82	18.90
41055	41253	QPSK	1	99	1	0	18.53	18.90
41490	41292	QPSK	1	0	1	99	18.57	18.90

Ant1 DS13 Standalone

CA_41C HPUE								
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	39848	QPSK	1	99	1	0	20.28	20.50
40185	40383	QPSK	1	99	1	0	20.21	20.50
40620	40818	QPSK	1	99	1	0	20.31	20.50
41055	41253	QPSK	1	99	1	0	20.25	20.50
41292	41490	QPSK	1	99	1	0	20.08	20.50

Ant2 DS13 Standalone

CA_42C								
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		
42190	42388	QPSK	1	99	1	0	18.11	19.60
42580	42778	QPSK	1	99	1	0	18.28	19.60
42980	42792	QPSK	1	0	1	99	18.17	19.60

Ant1 DS13 Simultaneous

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	39848	QPSK	1	99	1	0	18.28	17.40
40185	40383	QPSK	1	99	1	0	18.28	17.40
40620	40818	QPSK	1	99	1	0	18.33	17.40
41055	41253	QPSK	1	99	1	0	18.23	17.40
41490	41292	QPSK	1	0	1	99	18.19	17.40

Ant1 DS13 Simultaneous

CA_41C HPUE								
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	39848	QPSK	1	99	1	0	17.76	19.00
40185	40383	QPSK	1	99	1	0	17.78	19.00
40620	40818	QPSK	1	99	1	0	17.81	19.00
41055	41253	QPSK	1	99	1	0	17.63	19.00
41292	41490	QPSK	1	99	1	0	17.68	19.00

Ant2 DS13 Simultaneous

CA_42C								
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		
42190	42388	QPSK	1	99	1	0	18.58	18.30
42580	42778	QPSK	1	99	1	0	18.62	18.30
42980	42792	QPSK	1	0	1	99	18.54	18.30

Ant1 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	39848	QPSK	1	99	1	0	21.42	22.50
40185	40383	QPSK	1	99	1	0	21.35	22.50
40620	40818	QPSK	1	99	1	0	21.44	22.50
41055	41253	QPSK	1	99	1	0	21.39	22.50
41490	41292	QPSK	1	0	1	99	21.38	22.50

Ant1 DS16

CA_41C HPUE								
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	39848	QPSK	1	99	1	0	22.81	24.10
40185	40383	QPSK	1	99	1	0	22.73	24.10
40620	40818	QPSK	1	99	1	0	22.89	24.10
41055	41253	QPSK	1	99	1	0	22.73	24.10
41292	41490	QPSK	1	99	1	0	22.64	24.10

Ant2 DS16

CA_42C								
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		
42190	42388	QPSK	1	99	1	0	20.70	22.00
42580	42778	QPSK	1	99	1	0	20.75	22.00
42980	42792	QPSK	1	0	1	99	20.68	22.00



Full & Default power

n5 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. f.Freq.	Power Middle Ch. f.Freq.	Power High Ch. f.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.75	22.81	22.69		
20	PI/2 BPSK	1	53	22.53	22.68	22.59	24.0	0.0
20	PI/2 BPSK	1	104	22.49	22.62	22.57		
20	PI/2 BPSK	50	0	22.22	22.32	22.23	23.5	0.5
20	PI/2 BPSK	50	28	22.57	22.67	22.58	24.0	0.0
20	PI/2 BPSK	50	56	22.07	22.16	22.02		
20	PI/2 BPSK	100	0	22.27	22.34	22.22	23.5	0.5
20	QPSK	1	1	22.87	22.88	22.82		
20	QPSK	1	53	22.64	22.71	22.65	24.0	0.0
20	QPSK	1	104	22.40	22.54	22.51		
20	QPSK	50	0	21.75	21.86	21.80	23.0	1.0
20	QPSK	50	28	22.60	22.71	22.66	24.0	0.0
20	QPSK	50	56	21.67	21.75	21.61		
20	QPSK	100	0	21.72	21.83	21.72	23.0	1.0
20	16QAM	1	1	21.64	21.76	21.70	23.0	1.0
20	64QAM	1	1	20.20	20.34	20.27	21.5	2.5
20	256QAM	1	1	18.14	18.29	18.17	19.5	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.74	22.83	22.70	24.0	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.76	22.79	22.75	24.0	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.77	22.85	22.69	24.0	0.0



### n5 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.19	23.25	23.21		
20	PI/2 BPSK	1	53	23.10	23.19	23.13	24.0	0.0
20	PI/2 BPSK	1	104	22.91	23.02	22.95		
20	PI/2 BPSK	50	0	22.57	22.66	22.54	23.5	0.5
20	PI/2 BPSK	50	28	22.92	22.99	22.87	24.0	0.0
20	PI/2 BPSK	50	56	22.45	22.49	22.41	23.5	0.5
20	PI/2 BPSK	100	0	22.56	22.63	22.57		
20	QPSK	1	1	23.23	23.28	23.19		
20	QPSK	1	53	22.84	22.98	22.90	24.0	0.0
20	QPSK	1	104	22.75	22.85	22.72		
20	QPSK	50	0	22.08	22.15	22.01	23.0	1.0
20	QPSK	50	28	22.88	23.01	22.92	24.0	0.0
20	QPSK	50	56	21.91	22.01	21.96	23.0	1.0
20	QPSK	100	0	22.20	22.25	22.14		
20	16QAM	1	1	22.13	22.24	22.20	23.0	1.0
20	64QAM	1	1	21.18	21.31	21.17	21.5	2.5
20	256QAM	1	1	18.66	18.72	18.58	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.23	23.12	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.15	23.07	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	833.5	840.5		
5	QPSK	1	1	23.11	23.18	23.09	24.0	0.0



### n7 Ant5

Channel	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	Pi/2 BPSK	1	1	22.53	22.57	22.48	24.0	0.0
40	Pi/2 BPSK	1	108	22.46	22.54	22.46		
40	Pi/2 BPSK	1	214	22.55	22.60	22.48		
40	Pi/2 BPSK	108	0	22.05	22.15	22.10	23.5	0.5
40	Pi/2 BPSK	108	54	22.49	22.59	22.54	24.0	0.0
40	Pi/2 BPSK	108	108	22.00	22.13	22.07		
40	Pi/2 BPSK	216	0	22.15	22.21	22.09	23.5	0.5
40	QPSK	1	1	22.62	22.66	22.59		
40	QPSK	1	108	22.52	22.63	22.57	24.0	0.0
40	QPSK	1	214	22.44	22.59	22.47		
40	QPSK	108	0	21.66	21.72	21.64	23.0	1.0
40	QPSK	108	54	22.53	22.61	22.54	24.0	0.0
40	QPSK	108	108	21.61	21.71	21.64		
40	QPSK	216	0	21.68	21.74	21.64	23.0	1.0
40	16QAM	1	1	21.43	21.54	21.39	23.0	1.0
40	64QAM	1	1	19.86	20.00	19.88	21.5	2.5
40	256QAM	1	1	17.81	17.87	17.75	19.5	4.5
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555					
30	QPSK	1	1	22.54	22.59	22.56	24.0	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5					
25	QPSK	1	1	22.49	22.52	22.51	24.0	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560					
20	QPSK	1	1	22.48	22.51	22.47	24.0	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	22.50	22.59	22.51	24.0	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	22.52	22.56	22.52	24.0	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	22.57	22.59	22.52	24.0	0.0



### Part270 n77 Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.38	22.51	22.44	24.0	0.0
100	PI2 BPSK	1	137	22.25	22.34	22.29		
100	PI2 BPSK	1	271	22.41	22.48	22.36		
100	PI2 BPSK	135	0	21.84	21.80	21.75	23.5	0.5
100	PI2 BPSK	135	69	22.13	22.28	22.14	24.0	0.0
100	PI2 BPSK	135	138	21.76	21.81	21.67	23.5	0.5
100	PI2 BPSK	270	0	21.70	21.88	21.88		
100	QPSK	1	1	22.48	22.55	22.42	24.0	0.0
100	QPSK	1	137	22.39	22.48	22.40		
100	QPSK	1	271	22.15	22.26	22.16		
100	QPSK	135	0	21.28	21.42	21.38	23.0	1.0
100	QPSK	135	69	22.35	22.46	22.42	24.0	0.0
100	QPSK	135	138	21.45	21.48	21.40	23.0	1.0
100	QPSK	270	0	21.50	21.55	21.42		
100	16QAM	1	1	21.38	21.44	21.34	23.0	1.0
100	16QAM	1	1	19.55	19.67	19.59	21.5	2.5
100	256QAM	1	1	17.73	17.85	17.75	19.5	4.5
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.35	22.44	22.31	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.41	22.41	22.34	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.38	22.50	22.35	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.40	22.43	22.29	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.44	22.45	22.20	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.34	22.48	22.33	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.36	22.51	22.39	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.37	22.46	22.31	24.0	0.0

### Part270 n77 PC2 Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.50	25.55	25.45	27.0	0.0
100	PI2 BPSK	1	137	25.35	25.43	25.40		
100	PI2 BPSK	1	271	25.26	25.35	25.28		
100	PI2 BPSK	135	0	24.83	24.81	24.81	26.5	0.5
100	PI2 BPSK	135	69	25.33	25.38	25.34	27.0	0.0
100	PI2 BPSK	135	138	24.91	25.00	24.97	26.5	0.5
100	PI2 BPSK	270	0	24.92	25.07	25.02		
100	QPSK	1	1	25.53	25.61	25.57	27.0	0.0
100	QPSK	1	137	25.36	25.47	25.38		
100	QPSK	1	271	25.53	25.57	25.43		
100	QPSK	135	0	24.29	24.42	24.29	26.0	1.0
100	QPSK	135	69	25.27	25.41	25.32	27.0	0.0
100	QPSK	135	138	24.47	24.58	24.33	26.0	1.0
100	QPSK	270	0	24.56	24.81	24.61		
100	16QAM	1	1	24.33	24.44	24.34	26.0	1.0
100	16QAM	1	1	22.55	22.66	22.57	24.5	2.5
100	256QAM	1	1	20.71	20.84	20.74	22.5	4.5
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.49	25.53	25.51	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.44	25.54	25.51	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.41	25.54	25.48	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.39	25.52	25.44	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.49	25.53	25.46	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.45	25.48	25.50	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.49	25.55	25.45	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.43	25.51	25.51	27.0	0.0

### Part270 n78 Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		22.41		24.0	0.0
100	PI2 BPSK	1	137		22.17			
100	PI2 BPSK	1	271		22.09			
100	PI2 BPSK	135	0		21.91		23.5	0.5
100	PI2 BPSK	135	69		22.13		24.0	0.0
100	PI2 BPSK	135	138		21.56		23.5	0.5
100	PI2 BPSK	270	0		21.82			
100	QPSK	1	1		22.45		24.0	0.0
100	QPSK	1	137		22.15			
100	QPSK	1	271		22.03			
100	QPSK	135	0		21.41		23.0	1.0
100	QPSK	135	69		22.15		24.0	0.0
100	QPSK	135	138		21.02		23.0	1.0
100	QPSK	270	0		21.18			
100	16QAM	1	1		21.59		23.0	1.0
100	16QAM	1	1		20.28		21.5	2.5
100	256QAM	1	1		17.55		19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.36	22.40	22.33	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.29	22.32	22.34	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.34	22.39	22.39	24.0	0.0
Channel								
Frequency (MHz)				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.38	22.36	22.33	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.35	22.41	22.34	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.39	22.34	22.39	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.41	22.37	22.35	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.33	22.31	22.36	24.0	0.0



**Part270 n78 PC2 Ant2**

BW [MHz]	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)				3760	3760	3760		
100	PI/2 BPSK	1	1		25.43			
100	PI/2 BPSK	1	137		25.35		27.0	0.0
100	PI/2 BPSK	1	271		25.34			
100	PI/2 BPSK	135	0		25.01		28.5	0.5
100	PI/2 BPSK	135	69		25.29		27.0	0.0
100	PI/2 BPSK	135	138		24.81		28.5	0.5
100	PI/2 BPSK	270	0		24.97			
100	QPSK	1	1		25.46			
100	QPSK	1	137		25.45		27.0	0.0
100	QPSK	1	271		25.19			
100	QPSK	135	0		24.63		28.0	1.0
100	QPSK	135	69		25.38		27.0	0.0
100	QPSK	135	138		24.29		28.0	1.0
100	QPSK	270	0		24.43			
100	16QAM	1	1		24.60		26.0	1.0
100	16QAM	1	1		22.81		24.5	2.5
100	256QAM	1	1		21.01		22.5	4.5
Channel				649688	650000	650334		MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.36	25.39	25.39	27.0	0.0
Channel				649334	650000	650668		MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.41	25.39	25.37	27.0	0.0
Channel				649000	650000	651000		MPR
Frequency (MHz)				3736	3750	3765		
70	QPSK	1	1	25.37	25.34	25.45	27.0	0.0
Channel				648668	650000	651334		MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.44	25.40	25.35	27.0	0.0
Channel				648334	650000	651668		MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.37	25.44	25.34	27.0	0.0
Channel				648000	650000	652000		MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.42	25.34	25.34	27.0	0.0
Channel				647668	650000	652334		MPR
Frequency (MHz)				3715.02	3750	3755.01		
30	QPSK	1	1	25.39	25.37	25.34	27.0	0.0
Channel				647334	650000	652668		MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.45	25.38	25.43	27.0	0.0



### Part270 n77 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.79	20.77	20.75		
100	PI2 BPSK	1	137	20.69	20.73	20.77	21.5	0.0
100	PI2 BPSK	1	271	20.53	20.61	20.74		
100	PI2 BPSK	135	0	20.16	20.28	20.27	21.0	0.5
100	PI2 BPSK	135	69	20.76	20.75	20.68	21.5	0.0
100	PI2 BPSK	135	138	20.15	20.24	20.18	21.0	0.5
100	PI2 BPSK	270	0	20.25	20.32	20.27		
100	QPSK	1	1	20.67	20.90	20.85		
100	QPSK	1	137	20.80	20.70	20.69	21.5	0.0
100	QPSK	1	271	20.47	20.61	20.58		
100	QPSK	135	0	19.69	19.87	19.74	20.5	1.0
100	QPSK	135	69	20.62	20.77	20.69	21.5	0.0
100	QPSK	135	138	19.56	19.67	19.62	20.5	1.0
100	QPSK	270	0	19.72	19.83	19.63		
100	16QAM	1	1	19.71	19.81	19.76	20.5	1.0
100	16QAM	1	1	18.71	18.78	18.71	19.0	2.5
100	256QAM	1	1	18.10	18.15	18.05	17.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.59	20.85	20.74	21.5	0.0
Channel								
Frequency (MHz)				649334	65000	650668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	65000	650000		
70	QPSK	1	1	20.51	20.81	20.67	21.5	0.0
Channel								
Frequency (MHz)				648668	65000	650334		
60	QPSK	1	1	20.50	20.84	20.71	21.5	0.0
Channel								
Frequency (MHz)				648334	65000	650668		
50	QPSK	1	1	20.58	20.85	20.69	21.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.58	20.81	20.70	21.5	0.0
Channel								
Frequency (MHz)				647668	65000	654334		
30	QPSK	1	1	20.54	20.79	20.69	21.5	0.0
Channel								
Frequency (MHz)				647334	65000	654668		
20	QPSK	1	1	20.59	20.74	20.72	21.5	0.0

### Part270 n77 PC2 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.62	23.67	23.69		
100	PI2 BPSK	1	137	23.71	23.72	23.58	24.5	0.0
100	PI2 BPSK	1	271	23.66	23.64	23.60		
100	PI2 BPSK	135	0	23.09	23.12	23.20	24.0	0.5
100	PI2 BPSK	135	69	23.58	23.70	23.60	24.5	0.0
100	PI2 BPSK	135	138	23.08	23.20	23.12	24.0	0.5
100	PI2 BPSK	270	0	23.14	23.15	23.17		
100	QPSK	1	1	23.53	23.83	23.74		
100	QPSK	1	137	23.54	23.65	23.68	24.5	0.0
100	QPSK	1	271	23.57	23.55	23.47		
100	QPSK	135	0	22.62	22.72	22.57	23.5	1.0
100	QPSK	135	69	23.55	23.67	23.54	24.5	0.0
100	QPSK	135	138	22.66	22.69	22.56	23.5	1.0
100	QPSK	270	0	22.57	22.70	22.54		
100	16QAM	1	1	22.70	22.83	22.72	23.5	1.0
100	16QAM	1	1	21.64	21.71	21.61	22.0	2.5
100	256QAM	1	1	19.12	19.14	19.06	20.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.52	23.75	23.61	24.5	0.0
Channel								
Frequency (MHz)				649334	65000	650668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	65000	650000		
70	QPSK	1	1	23.56	23.69	23.55	24.5	0.0
Channel								
Frequency (MHz)				648668	65000	650334		
60	QPSK	1	1	23.51	23.73	23.59	24.5	0.0
Channel								
Frequency (MHz)				648334	65000	650668		
50	QPSK	1	1	23.54	23.68	23.67	24.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.80	23.66	23.62	24.5	0.0
Channel								
Frequency (MHz)				647668	65000	654334		
30	QPSK	1	1	23.55	23.73	23.60	24.5	0.0
Channel								
Frequency (MHz)				647334	65000	654668		
20	QPSK	1	1	23.58	23.64	23.60	24.5	0.0

### Part270 n78 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		20.17			
100	PI2 BPSK	1	137		20.03		21.5	0.0
100	PI2 BPSK	1	271		19.76			
100	PI2 BPSK	135	0		19.71		21.0	0.5
100	PI2 BPSK	135	69		19.97		21.5	0.0
100	PI2 BPSK	135	138		19.26		21.0	0.5
100	PI2 BPSK	270	0		19.53			
100	QPSK	1	1		20.23			
100	QPSK	1	137		20.11		21.5	0.0
100	QPSK	1	271		19.85			
100	QPSK	135	0		18.18		20.5	1.0
100	QPSK	135	69		19.94		21.5	0.0
100	QPSK	135	138		18.96		20.5	1.0
100	QPSK	270	0		19.03			
100	16QAM	1	1		19.27		20.5	1.0
100	16QAM	1	1		18.18		19.0	2.5
100	256QAM	1	1		15.48		17.0	4.5
Channel								
Frequency (MHz)				648668	65000	650334		
90	QPSK	1	1	20.15	20.12	20.18	21.5	0.0
Channel								
Frequency (MHz)				649334	65000	650668		
80	QPSK	1	1	3740.01	3750	3760.02		
Channel								
Frequency (MHz)				649000	65000	650000		
70	QPSK	1	1	20.16	20.10	20.12	21.5	0.0
Channel								
Frequency (MHz)				648668	65000	651334		
60	QPSK	1	1	20.14	20.20	20.16	21.5	0.0
Channel								
Frequency (MHz)				648334	65000	651668		
50	QPSK	1	1	20.13	20.19	20.17	21.5	0.0
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.14	20.17	20.15	21.5	0.0
Channel								
Frequency (MHz)				647668	65000	652334		
30	QPSK	1	1	20.19	20.11	20.17	21.5	0.0
Channel								
Frequency (MHz)				647334	65000	652668		
20	QPSK	1	1	20.16	20.19	20.11	21.5	0.0





**Part270 n78 PC2 Ant3**

BW [MHz]	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)				3760	3760	3760		
100	PI2 BPSK	1	1		21.13			
100	PI2 BPSK	1	137		21.03		22.5	0.0
100	PI2 BPSK	1	271		20.76		22.0	0.5
100	PI2 BPSK	135	0		20.73		22.5	0.0
100	PI2 BPSK	135	69		21.02		22.0	0.5
100	PI2 BPSK	135	138		20.25		21.5	1.0
100	PI2 BPSK	270	0		20.54		21.5	1.0
100	QPSK	1	1		21.21			
100	QPSK	1	137		21.07		22.5	0.0
100	QPSK	1	271		20.83		21.5	1.0
100	QPSK	135	0		20.17		22.5	0.0
100	QPSK	135	69		20.84		21.5	1.0
100	QPSK	135	138		20.02		21.5	1.0
100	QPSK	270	0		20.03		21.5	1.0
100	16QAM	1	1		20.27		20.0	2.5
100	16QAM	1	1		19.19		18.0	4.5
100	256QAM	1	1		16.48		18.0	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.10	21.17	21.09	22.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.10	21.18	21.11	22.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.18	21.13	21.16	22.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	21.08	21.08	21.07	22.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.14	21.14	21.11	22.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.12	21.09	21.07	22.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3755.01		
30	QPSK	1	1	21.13	21.12	21.10	22.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.11	21.15	21.10	22.5	0.0



### Part270 n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.31	18.36	18.25		
100	PI2 BPSK	1	137	18.22	18.32	18.21		0.0
100	PI2 BPSK	1	271	18.06	18.23	18.16		
100	PI2 BPSK	135	0	17.76	17.89	17.85	19.0	0.5
100	PI2 BPSK	135	69	18.23	18.31	18.27	19.0	0.0
100	PI2 BPSK	135	138	17.73	17.84	17.70	19.0	0.5
100	PI2 BPSK	270	0	17.77	17.92	17.82		
100	QPSK	1	1	18.32	18.42	18.27		
100	QPSK	1	137	18.31	18.38	18.34	19.5	0.0
100	QPSK	1	271	18.23	18.30	18.24		
100	QPSK	135	0	17.43	17.48	17.45	18.5	1.0
100	QPSK	135	69	18.22	18.29	18.20	19.5	0.0
100	QPSK	135	138	17.30	17.38	17.23	18.5	1.0
100	QPSK	270	0	17.34	17.42	17.32		
100	16QAM	1	1	17.25	17.29	17.23	18.5	1.0
100	16QAM	1	1	15.62	15.77	15.63	17.0	2.5
100	256QAM	1	1	13.34	13.43	13.31	15.0	4.5
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.21	18.35	18.20	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.18	18.29	18.14	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.18	18.32	18.22	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.25	18.31	18.19	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.24	18.37	18.23	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.25	18.38	18.15	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.22	18.34	18.21	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.29	18.28	18.19	19.5	0.0

### Part270 n77 PC2 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	21.44	21.55	21.41		
100	PI2 BPSK	1	137	21.39	21.57	21.42	22.5	0.0
100	PI2 BPSK	1	271	21.23	21.45	21.38		
100	PI2 BPSK	135	0	20.94	21.11	21.08	22.0	0.5
100	PI2 BPSK	135	69	21.52	21.54	21.58	22.5	0.0
100	PI2 BPSK	135	138	20.99	21.12	20.98	22.0	0.5
100	PI2 BPSK	270	0	21.07	21.11	21.04		
100	QPSK	1	1	21.55	21.62	21.50		
100	QPSK	1	137	21.48	21.51	21.52	22.5	0.0
100	QPSK	1	271	21.52	21.45	21.40		
100	QPSK	135	0	20.58	20.61	20.68	21.5	1.0
100	QPSK	135	69	21.38	21.60	21.37	22.5	0.0
100	QPSK	135	138	20.44	20.45	20.38	21.5	1.0
100	QPSK	270	0	20.48	20.54	20.46		
100	16QAM	1	1	20.45	20.46	20.44	21.5	1.0
100	16QAM	1	1	18.79	18.90	18.80	20.0	2.5
100	256QAM	1	1	16.57	16.60	16.53	18.0	4.5
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.49	21.54	21.37	22.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.40	21.58	21.40	22.5	0.0
Channel								
Frequency (MHz)				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.49	21.46	21.47	22.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.49	21.55	21.43	22.5	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.46	21.42	21.44	22.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.45	21.55	21.42	22.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.42	21.60	21.30	22.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.40	21.53	21.44	22.5	0.0

### Part270 n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1			18.78		
100	PI2 BPSK	1	137			18.61		0.0
100	PI2 BPSK	1	271			18.53		
100	PI2 BPSK	135	0			18.25	19.0	0.5
100	PI2 BPSK	135	69			18.64	19.5	0.0
100	PI2 BPSK	135	138			17.93	19.0	0.5
100	PI2 BPSK	270	0			18.01		
100	QPSK	1	1			18.83		
100	QPSK	1	137			18.77	19.5	0.0
100	QPSK	1	271			18.49		
100	QPSK	135	0			17.75	18.5	1.0
100	QPSK	135	69			18.53	19.5	0.0
100	QPSK	135	138			17.46	18.5	1.0
100	QPSK	270	0			17.52		
100	16QAM	1	1			17.82	18.5	1.0
100	16QAM	1	1			16.48	17.0	2.5
100	256QAM	1	1			14.06	15.0	4.5
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.79	18.75	18.71	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.73	18.80	18.70	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.78	18.71	18.77	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.72	18.69	18.77	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.78	18.73	18.70	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.72	18.77	18.75	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.79	18.69	18.73	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.77	18.74	18.75	19.5	0.0



**Part270 n78 PC2 Ant5**

BW [MHz]	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	PI2 BPSK	1	1		19.74				
100	PI2 BPSK	1	137		19.67		21.0	0.0	
100	PI2 BPSK	1	271		19.53		20.5	0.5	
100	PI2 BPSK	135	0		19.32		21.0	0.0	
100	PI2 BPSK	135	69		19.66		20.5	0.5	
100	PI2 BPSK	135	138		18.98				
100	PI2 BPSK	270	0		18.99				
100	QPSK	1	1		19.84				
100	QPSK	1	137		19.79		21.0	0.0	
100	QPSK	1	271		19.49				
100	QPSK	135	0		18.70		20.0	1.0	
100	QPSK	135	69		19.51		21.0	0.0	
100	QPSK	135	138		18.47		20.0	1.0	
100	QPSK	270	0		18.59				
100	16QAM	1	1		18.78		20.0	1.0	
100	16QAM	1	1		17.51		18.5	2.5	
100	256QAM	1	1		15.11		16.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.74	19.70	19.76	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.69	19.75	19.73	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		19.71	19.69	19.70	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		19.70	19.78	19.74	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.77	19.71	19.79	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.72	19.77	19.79	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		19.74	19.73	19.76	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.78	19.72	19.73	21.0	0.0



### Part270 n77 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.37	19.42	19.44		
100	PI2 BPSK	1	137	19.20	19.29	19.28	21.0	0.0
100	PI2 BPSK	1	271	19.17	19.29	19.15		
100	PI2 BPSK	135	0	18.55	18.56	18.58	20.5	0.5
100	PI2 BPSK	135	69	19.28	19.32	19.24	21.0	0.0
100	PI2 BPSK	135	138	18.62	18.54	18.61	20.5	0.5
100	PI2 BPSK	270	0	18.56	18.62	18.65		
100	QPSK	1	1	19.40	19.49	19.42		
100	QPSK	1	137	19.41	19.47	19.27	21.0	0.0
100	QPSK	1	271	19.29	19.35	19.28		
100	QPSK	135	0	18.42	18.55	18.35	20.0	1.0
100	QPSK	135	69	19.28	19.44	19.39	21.0	0.0
100	QPSK	135	138	18.26	18.42	18.35	20.0	1.0
100	QPSK	270	0	18.41	18.45	18.44		
100	16QAM	1	1	18.09	18.17	18.07	20.0	1.0
100	16QAM	1	1	16.58	16.70	16.66	18.5	2.5
100	256QAM	1	1	14.76	14.91	14.74	16.5	4.5
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.36	19.36	19.35	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.27	19.35	19.34	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.27	19.42	19.39	21.0	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.31	19.40	19.39	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.31	19.37	19.31	21.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.34	19.43	19.37	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.27	19.44	19.39	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.34	19.36	19.30	21.0	0.0

### Part270 n77 PC2 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.27	22.43	22.36		
100	PI2 BPSK	1	137	22.42	22.41	22.39	24.0	0.0
100	PI2 BPSK	1	271	22.18	22.33	22.38		
100	PI2 BPSK	135	0	21.96	22.06	21.84	23.5	0.5
100	PI2 BPSK	135	69	22.38	22.52	22.41	24.0	0.0
100	PI2 BPSK	135	138	21.87	22.09	21.85	23.5	0.5
100	PI2 BPSK	270	0	22.12	22.11	21.97		
100	QPSK	1	1	22.46	22.55	22.50		
100	QPSK	1	137	22.38	22.53	22.40	24.0	0.0
100	QPSK	1	271	22.38	22.46	22.24		
100	QPSK	135	0	21.47	21.49	21.33	23.0	1.0
100	QPSK	135	69	22.33	22.51	22.35	24.0	0.0
100	QPSK	135	138	21.37	21.46	21.35	23.0	1.0
100	QPSK	270	0	21.45	21.55	21.43		
100	16QAM	1	1	21.17	21.28	21.10	23.0	1.0
100	16QAM	1	1	19.73	19.81	19.72	21.5	2.5
100	256QAM	1	1	17.88	17.98	17.90	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.41	22.47	22.44	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.36	22.47	22.39	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.37	22.43	22.40	24.0	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.33	22.47	22.41	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.38	22.52	22.41	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.34	22.47	22.38	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.33	22.42	22.40	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.35	22.49	22.44	24.0	0.0

### Part270 n78 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	19.49		19.49		
100	PI2 BPSK	1	137	19.41		19.41	21.0	0.0
100	PI2 BPSK	1	271	19.46		19.46		
100	PI2 BPSK	135	0	18.95		18.95	20.5	0.5
100	PI2 BPSK	135	69	19.43		19.43	21.0	0.0
100	PI2 BPSK	135	138	19.02		19.02	20.5	0.5
100	PI2 BPSK	270	0	19.06		19.06		
100	QPSK	1	1	19.00		19.00		
100	QPSK	1	137	19.55		19.55	21.0	0.0
100	QPSK	1	271	19.58		19.58		
100	QPSK	135	0	18.71		18.71	20.0	1.0
100	QPSK	135	69	19.56		19.56	21.0	0.0
100	QPSK	135	138	18.50		18.50	20.0	1.0
100	QPSK	270	0	18.55		18.55		
100	16QAM	1	1	18.62		18.62	20.0	1.0
100	16QAM	1	1	16.90		16.90	18.5	2.5
100	256QAM	1	1	15.31		15.31	16.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.52	19.49	19.46	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.42	19.39	19.40	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.47	19.50	19.46	21.0	0.0
Channel								
Frequency (MHz)				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.50	19.44	19.42	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.44	19.39	19.45	21.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.50	19.42	19.46	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.49	19.43	19.35	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.49	19.39	19.38	21.0	0.0



**Part270 n78 PC2 Ant7**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3760	3760	3760		
100	PI2 BPSK	1	1		22.50			
100	PI2 BPSK	1	137		22.41		24.0	0.0
100	PI2 BPSK	1	271		22.32		23.5	0.5
100	PI2 BPSK	135	0		22.08		24.0	0.0
100	PI2 BPSK	135	69		21.98		23.5	0.5
100	PI2 BPSK	135	138		22.12			
100	QPSK	1	1		22.35		24.0	0.0
100	QPSK	1	137		22.44			
100	QPSK	1	271		22.43			
100	QPSK	135	0		21.48		23.0	1.0
100	QPSK	135	69		22.53		24.0	0.0
100	QPSK	135	138		21.62		23.0	1.0
100	QPSK	270	0		21.59			
100	16QAM	1	1		21.26		23.0	1.0
100	16QAM	1	1		19.75		21.5	2.5
100	256QAM	1	1		17.84		19.5	4.5
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.42	22.48	22.39	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.37	22.39	22.27	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3736	3750	3765		
70	QPSK	1	1	22.37	22.36	22.27	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	22.28	22.41	22.25	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.33	22.34	22.35	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.29	22.44	22.29	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.02	3750	3765.01		
30	QPSK	1	1	22.31	22.34	22.29	24.0	0.0
Channel				647334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.34	22.39	22.31	24.0	0.0



Reduced Power Mode for DSI2 Standalone

n5 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	Pi/2 BPSK	1	1	22.75	22.81	22.69		
20	Pi/2 BPSK	1	53	22.53	22.68	22.59	24.0	0.0
20	Pi/2 BPSK	1	104	22.49	22.62	22.57		
20	Pi/2 BPSK	50	0	22.22	22.32	22.23	23.5	0.5
20	Pi/2 BPSK	50	28	22.57	22.67	22.58	24.0	0.0
20	Pi/2 BPSK	50	56	22.07	22.16	22.02		
20	Pi/2 BPSK	100	0	22.27	22.34	22.22	23.5	0.5
20	QPSK	1	1	22.87	22.88	22.82		
20	QPSK	1	53	22.64	22.71	22.65	24.0	0.0
20	QPSK	1	104	22.40	22.54	22.51		
20	QPSK	50	0	21.75	21.86	21.80	23.0	1.0
20	QPSK	50	28	22.60	22.71	22.66	24.0	0.0
20	QPSK	50	56	21.67	21.75	21.61		
20	QPSK	100	0	21.72	21.83	21.72	23.0	1.0
20	16QAM	1	1	21.64	21.76	21.70	23.0	1.0
20	64QAM	1	1	20.20	20.34	20.27	21.5	2.5
20	256QAM	1	1	18.14	18.29	18.17	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.74	22.83	22.70	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.76	22.79	22.75	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.77	22.85	22.69	24.0	0.0



### n5 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.19	23.25	23.21		
20	PI/2 BPSK	1	53	23.10	23.19	23.13	24.0	0.0
20	PI/2 BPSK	1	104	22.91	23.02	22.95		
20	PI/2 BPSK	50	0	22.57	22.66	22.54	23.5	0.5
20	PI/2 BPSK	50	28	22.92	22.99	22.87	24.0	0.0
20	PI/2 BPSK	50	56	22.45	22.49	22.41	23.5	0.5
20	PI/2 BPSK	100	0	22.56	22.63	22.57		
20	QPSK	1	1	23.23	23.28	23.19		
20	QPSK	1	53	22.84	22.98	22.90	24.0	0.0
20	QPSK	1	104	22.75	22.85	22.72		
20	QPSK	50	0	22.08	22.15	22.01	23.0	1.0
20	QPSK	50	28	22.88	23.01	22.92	24.0	0.0
20	QPSK	50	56	21.91	22.01	21.96	23.0	1.0
20	QPSK	100	0	22.20	22.25	22.14		
20	16QAM	1	1	22.13	22.24	22.20	23.0	1.0
20	64QAM	1	1	21.18	21.31	21.17	21.5	2.5
20	256QAM	1	1	18.66	18.72	18.58	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.23	23.12	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.15	23.07	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	833.5	840.5		
5	QPSK	1	1	23.11	23.18	23.09	24.0	0.0



Part270 n77 PC2&PC3 Ant2									
BW [MHz]	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	16.45	16.61	16.55			
100	PI/2 BPSK	1	137	16.53	16.54	16.59	17.8	0.0	
100	PI/2 BPSK	1	271	16.51	16.59	16.50			
100	PI/2 BPSK	135	0	16.45	16.57	16.49	17.8	0.0	
100	PI/2 BPSK	135	69	16.49	16.60	16.59	17.8	0.0	
100	PI/2 BPSK	135	138	16.49	16.51	16.58	17.8	0.0	
100	PI/2 BPSK	270	0	16.52	16.52	16.58			
100	QPSK	1	1	16.58	16.65	16.62			
100	QPSK	1	137	16.47	16.62	16.54	17.8	0.0	
100	QPSK	1	271	16.48	16.58	16.58			
100	QPSK	135	0	16.45	16.53	16.47	17.8	0.0	
100	QPSK	135	69	16.48	16.63	16.58	17.8	0.0	
100	QPSK	135	138	16.45	16.44	16.49	17.8	0.0	
100	QPSK	270	0	16.52	16.58	16.57	17.8	0.0	
100	16QAM	1	1	16.53	16.50	16.47	17.8	0.0	
100	64QAM	1	1	16.43	16.56	16.50	17.8	0.0	
100	256QAM	1	1	16.54	16.57	16.56	17.8	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.46	16.59	16.55	17.8	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.46	16.53	16.55	17.8	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3910	3945			
70	QPSK	1	1	16.54	16.55	16.51	17.8	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.51	16.51	16.56	17.8	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.53	16.61	16.48	17.8	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.42	16.61	16.56	17.8	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.51	16.52	16.53	17.8	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.45	16.56	16.48	17.8	0.0	

Part270 n78 PC2&PC3 Ant2									
BW [MHz]	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		16.38				
100	PI/2 BPSK	1	137		16.41		17.8	0.0	
100	PI/2 BPSK	1	271		16.47				
100	PI/2 BPSK	135	0		16.36		17.8	0.0	
100	PI/2 BPSK	135	69		16.40		17.8	0.0	
100	PI/2 BPSK	135	138		16.28		17.8	0.0	
100	PI/2 BPSK	270	0		16.32				
100	QPSK	1	1		16.53				
100	QPSK	1	137		16.45		17.8	0.0	
100	QPSK	1	271		16.34				
100	QPSK	135	0		16.41		17.8	0.0	
100	QPSK	135	69		16.44		17.8	0.0	
100	QPSK	135	138		16.21		17.8	0.0	
100	QPSK	270	0		16.35		17.8	0.0	
100	16QAM	1	1		16.34		17.8	0.0	
100	64QAM	1	1		16.27		17.8	0.0	
100	256QAM	1	1		16.35		17.8	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.40	16.30	16.24	17.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	16.36	16.32	16.19	17.8	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765			
70	QPSK	1	1	16.39	16.35	16.13	17.8	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	16.39	16.29	16.18	17.8	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	16.45	16.35	16.21	17.8	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	16.43	16.33	16.13	17.8	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	16.34	16.31	16.17	17.8	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	16.44	16.36	16.18	17.8	0.0	





### Part270 n77 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.79	20.77	20.75		
100	PI2 BPSK	1	137	20.69	20.73	20.77	21.5	0.0
100	PI2 BPSK	1	271	20.53	20.61	20.74		
100	PI2 BPSK	138	0	20.16	20.28	20.27	21.0	0.5
100	PI2 BPSK	138	69	20.76	20.75	20.68	21.5	0.0
100	PI2 BPSK	138	138	20.15	20.24	20.18	21.0	0.5
100	PI2 BPSK	270	0	20.25	20.32	20.27		
100	QPSK	1	1	20.67	20.90	20.85		
100	QPSK	1	137	20.80	20.70	20.69	21.5	0.0
100	QPSK	1	271	20.47	20.61	20.58		
100	QPSK	138	0	19.69	19.87	19.74	20.5	1.0
100	QPSK	138	69	20.62	20.77	20.69	21.5	0.0
100	QPSK	138	138	19.56	19.67	19.62	20.5	1.0
100	QPSK	270	0	19.72	19.83	19.63		
100	16QAM	1	1	19.71	19.81	19.76	20.5	1.0
100	16QAM	1	1	18.71	18.78	18.71	19.0	2.5
100	256QAM	1	1	18.10	18.15	18.05	17.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.59	20.85	20.74	21.5	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	650000	663000		
70	QPSK	1	1	20.51	20.81	20.67	21.5	0.0
Channel								
Frequency (MHz)				648668	650000	663334		
60	QPSK	1	1	20.50	20.84	20.71	21.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.58	20.81	20.70	21.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	3710.01	3840	3970.02		
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	20.59	20.74	20.72	21.5	0.0

### Part270 n77 PC2 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.62	23.67	23.69		
100	PI2 BPSK	1	137	23.71	23.72	23.58	24.5	0.0
100	PI2 BPSK	1	271	23.66	23.64	23.60		
100	PI2 BPSK	138	0	23.09	23.12	23.20	24.0	0.5
100	PI2 BPSK	138	69	23.58	23.70	23.60	24.5	0.0
100	PI2 BPSK	138	138	23.08	23.20	23.12	24.0	0.5
100	PI2 BPSK	270	0	23.14	23.15	23.17		
100	QPSK	1	1	23.53	23.83	23.74		
100	QPSK	1	137	23.54	23.65	23.68	24.5	0.0
100	QPSK	1	271	23.57	23.55	23.47		
100	QPSK	138	0	22.62	22.72	22.57	23.5	1.0
100	QPSK	138	69	23.55	23.67	23.54	24.5	0.0
100	QPSK	138	138	22.66	22.69	22.56	23.5	1.0
100	QPSK	270	0	22.57	22.70	22.54		
100	16QAM	1	1	22.70	22.83	22.72	23.5	1.0
100	16QAM	1	1	21.64	21.71	21.61	22.0	2.5
100	256QAM	1	1	19.12	19.14	19.06	20.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.52	23.75	23.61	24.5	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	650000	663000		
70	QPSK	1	1	23.56	23.69	23.55	24.5	0.0
Channel								
Frequency (MHz)				648668	650000	663334		
60	QPSK	1	1	23.51	23.73	23.59	24.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.80	23.66	23.62	24.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	3710.01	3840	3970.02		
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	23.58	23.64	23.60	24.5	0.0

### Part270 n78 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	20.17				
100	PI2 BPSK	1	137	20.03			21.5	0.0
100	PI2 BPSK	1	271	19.76				
100	PI2 BPSK	138	0	19.71			21.0	0.5
100	PI2 BPSK	138	69	19.97			21.5	0.0
100	PI2 BPSK	138	138	19.26			21.0	0.5
100	PI2 BPSK	270	0	19.53				
100	QPSK	1	1	20.23				
100	QPSK	1	137	20.11			21.5	0.0
100	QPSK	1	271	19.85				
100	QPSK	138	0	18.18			20.5	1.0
100	QPSK	138	69	19.94			21.5	0.0
100	QPSK	138	138	18.96			20.5	1.0
100	QPSK	270	0	19.03				
100	16QAM	1	1	19.27			20.5	1.0
100	16QAM	1	1	18.18			19.0	2.5
100	256QAM	1	1	15.48			17.0	4.5
Channel								
Frequency (MHz)				648668	650000	663334		
90	QPSK	1	1	20.15	20.12	20.18	21.5	0.0
Channel								
Frequency (MHz)				649334	650000	660968		
80	QPSK	1	1	20.09	20.09	20.14	21.5	0.0
Channel								
Frequency (MHz)				649000	650000	661000		
70	QPSK	1	1	20.16	20.10	20.12	21.5	0.0
Channel								
Frequency (MHz)				648668	650000	661334		
60	QPSK	1	1	20.14	20.20	20.16	21.5	0.0
Channel								
Frequency (MHz)				648334	650000	661668		
50	QPSK	1	1	20.13	20.19	20.17	21.5	0.0
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.14	20.17	20.15	21.5	0.0
Channel								
Frequency (MHz)				647668	650000	662334		
30	QPSK	1	1	20.19	20.11	20.17	21.5	0.0
Channel								
Frequency (MHz)				647334	650000	662668		
20	QPSK	1	1	20.16	20.19	20.11	21.5	0.0



**Part270 n78 PC2 Ant3**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3760	3760	3760		
100	PI2 BPSK	1	1		21.13			
100	PI2 BPSK	1	137		21.03		22.5	0.0
100	PI2 BPSK	1	271		20.76		22.0	0.5
100	PI2 BPSK	135	0		20.73		22.5	0.0
100	PI2 BPSK	135	69		21.02		22.0	0.5
100	PI2 BPSK	135	138		20.25		21.5	1.0
100	PI2 BPSK	270	0		20.54		21.5	1.0
100	QPSK	1	1		21.21			
100	QPSK	1	137		21.07		22.5	0.0
100	QPSK	1	271		20.83			
100	QPSK	135	0		20.17		21.5	1.0
100	QPSK	135	69		20.84		22.5	0.0
100	QPSK	135	138		20.02		21.5	1.0
100	QPSK	270	0		20.03			
100	16QAM	1	1		20.27		21.5	1.0
100	16QAM	1	1		19.19		20.0	2.5
100	256QAM	1	1		16.48		18.0	4.5
Channel				649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	21.10	21.17	21.09	22.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	21.10	21.18	21.11	22.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	21.18	21.13	21.16	22.5	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3750.01	(dBm)	(dB)
60	QPSK	1	1	21.08	21.08	21.07	22.5	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	21.14	21.14	21.11	22.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	21.12	21.09	21.07	22.5	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3755.01	(dBm)	(dB)
30	QPSK	1	1	21.13	21.12	21.10	22.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	21.11	21.15	21.10	22.5	0.0



### n7 Ant5

Channel	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	Pi/2 BPSK	1	1	22.53	22.57	22.48	24.0	0.0
40	Pi/2 BPSK	1	108	22.46	22.54	22.46		
40	Pi/2 BPSK	1	214	22.55	22.60	22.48		
40	Pi/2 BPSK	108	0	22.05	22.15	22.10	23.5	0.5
40	Pi/2 BPSK	108	54	22.49	22.59	22.54	24.0	0.0
40	Pi/2 BPSK	108	108	22.00	22.13	22.07	23.5	0.5
40	Pi/2 BPSK	216	0	22.15	22.21	22.09		
40	QPSK	1	1	22.62	22.66	22.59	24.0	0.0
40	QPSK	1	108	22.52	22.63	22.57		
40	QPSK	1	214	22.44	22.59	22.47		
40	QPSK	108	0	21.66	21.72	21.64	23.0	1.0
40	QPSK	108	54	22.53	22.61	22.54	24.0	0.0
40	QPSK	108	108	21.61	21.71	21.64	23.0	1.0
40	QPSK	216	0	21.68	21.74	21.64		
40	16QAM	1	1	21.43	21.54	21.39	23.0	1.0
40	64QAM	1	1	19.86	20.00	19.88	21.5	2.5
40	256QAM	1	1	17.81	17.87	17.75	19.5	4.5
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555					
30	QPSK	1	1	22.54	22.59	22.56	24.0	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5					
25	QPSK	1	1	22.49	22.52	22.51	24.0	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560					
20	QPSK	1	1	22.48	22.51	22.47	24.0	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	22.50	22.59	22.51	24.0	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	22.52	22.56	22.52	24.0	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	22.57	22.59	22.52	24.0	0.0



### Part270 n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.31	18.36	18.25		
100	PI2 BPSK	1	137	18.22	18.32	18.21		0.0
100	PI2 BPSK	1	271	18.06	18.23	18.16		
100	PI2 BPSK	135	0	17.76	17.89	17.85	19.0	0.5
100	PI2 BPSK	135	69	18.23	18.31	18.27	19.0	0.0
100	PI2 BPSK	135	138	17.73	17.84	17.70	19.0	0.5
100	PI2 BPSK	270	0	17.77	17.92	17.82		
100	QPSK	1	1	18.32	18.42	18.27		
100	QPSK	1	137	18.31	18.38	18.34	19.5	0.0
100	QPSK	1	271	18.23	18.30	18.24		
100	QPSK	135	0	17.43	17.48	17.45	18.5	1.0
100	QPSK	135	69	18.22	18.29	18.20	19.5	0.0
100	QPSK	135	138	17.30	17.38	17.23	18.5	1.0
100	QPSK	270	0	17.34	17.42	17.32		
100	16QAM	1	1	17.25	17.29	17.23	18.5	1.0
100	16QAM	1	1	15.62	15.77	15.63	17.0	2.5
100	256QAM	1	1	13.34	13.43	13.31	15.0	4.5
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.21	18.35	18.20	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.18	18.29	18.14	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.18	18.32	18.22	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.25	18.31	18.19	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.24	18.37	18.23	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.25	18.38	18.15	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.22	18.34	18.21	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.29	18.28	18.19	19.5	0.0

### Part270 n77 PC2 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	21.44	21.55	21.41		
100	PI2 BPSK	1	137	21.39	21.57	21.42	22.5	0.0
100	PI2 BPSK	1	271	21.23	21.45	21.38		
100	PI2 BPSK	135	0	20.94	21.11	21.08	22.0	0.5
100	PI2 BPSK	135	69	21.52	21.54	21.58	22.5	0.0
100	PI2 BPSK	135	138	20.99	21.12	20.98	22.0	0.5
100	PI2 BPSK	270	0	21.07	21.11	21.04		
100	QPSK	1	1	21.55	21.62	21.50		
100	QPSK	1	137	21.48	21.51	21.52	22.5	0.0
100	QPSK	1	271	21.52	21.45	21.40		
100	QPSK	135	0	20.58	20.61	20.68	21.5	1.0
100	QPSK	135	69	21.38	21.60	21.37	22.5	0.0
100	QPSK	135	138	20.44	20.45	20.38	21.5	1.0
100	QPSK	270	0	20.48	20.54	20.46		
100	16QAM	1	1	20.45	20.46	20.44	21.5	1.0
100	16QAM	1	1	18.79	18.90	18.80	20.0	2.5
100	256QAM	1	1	16.57	16.60	16.53	18.0	4.5
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.49	21.54	21.37	22.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.40	21.58	21.40	22.5	0.0
Channel								
Frequency (MHz)				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.49	21.46	21.47	22.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.49	21.55	21.43	22.5	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.46	21.42	21.44	22.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.45	21.55	21.42	22.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.42	21.60	21.30	22.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.40	21.53	21.44	22.5	0.0

### Part270 n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1			18.78		
100	PI2 BPSK	1	137			18.61		0.0
100	PI2 BPSK	1	271			18.53		
100	PI2 BPSK	135	0			18.25	19.0	0.5
100	PI2 BPSK	135	69			18.64	19.5	0.0
100	PI2 BPSK	135	138			17.93	19.0	0.5
100	PI2 BPSK	270	0			18.01		
100	QPSK	1	1			18.83		
100	QPSK	1	137			18.77	19.5	0.0
100	QPSK	1	271			18.49		
100	QPSK	135	0			17.75	18.5	1.0
100	QPSK	135	69			18.53	19.5	0.0
100	QPSK	135	138			17.46	18.5	1.0
100	QPSK	270	0			17.52		
100	16QAM	1	1			17.82	18.5	1.0
100	16QAM	1	1			16.48	17.0	2.5
100	256QAM	1	1			14.06	15.0	4.5
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.79	18.75	18.71	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.73	18.80	18.70	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.78	18.71	18.77	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.72	18.69	18.77	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.78	18.73	18.70	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.72	18.77	18.75	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.79	18.69	18.73	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.77	18.74	18.75	19.5	0.0



**Part270 n78 PC2 Ant5**

BW [MHz]	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	PI2 BPSK	1	1		19.74				
100	PI2 BPSK	1	137		19.67		21.0	0.0	
100	PI2 BPSK	1	271		19.53		20.5	0.5	
100	PI2 BPSK	135	0		19.32		21.0	0.0	
100	PI2 BPSK	135	69		19.66		20.5	0.5	
100	PI2 BPSK	135	138		18.98				
100	PI2 BPSK	270	0		18.99				
100	QPSK	1	1		19.84				
100	QPSK	1	137		19.79		21.0	0.0	
100	QPSK	1	271		19.49				
100	QPSK	135	0		18.70		20.0	1.0	
100	QPSK	135	69		19.51		21.0	0.0	
100	QPSK	135	138		18.47				
100	QPSK	270	0		18.59		20.0	1.0	
100	16QAM	1	1		18.78		20.0	1.0	
100	16QAM	1	1		17.51		18.5	2.5	
100	256QAM	1	1		15.11		16.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.74	19.70	19.76	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.69	19.75	19.73	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		19.71	19.69	19.70	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		19.70	19.78	19.74	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.77	19.71	19.79	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.72	19.77	19.79	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		19.74	19.73	19.76	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.78	19.72	19.73	21.0	0.0



### Part270 n77 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.37	19.42	19.44		
100	PI2 BPSK	1	137	19.20	19.29	19.28	21.0	0.0
100	PI2 BPSK	1	271	19.17	19.29	19.15		
100	PI2 BPSK	135	0	18.55	18.56	18.58	20.5	0.5
100	PI2 BPSK	135	69	19.28	19.32	19.24	21.0	0.0
100	PI2 BPSK	135	138	18.62	18.54	18.61	20.5	0.5
100	PI2 BPSK	270	0	18.56	18.62	18.65		
100	QPSK	1	1	19.40	19.49	19.42		
100	QPSK	1	137	19.41	19.47	19.27	21.0	0.0
100	QPSK	1	271	19.29	19.35	19.28		
100	QPSK	135	0	18.42	18.55	18.35	20.0	1.0
100	QPSK	135	69	19.28	19.44	19.39	21.0	0.0
100	QPSK	135	138	18.26	18.42	18.35	20.0	1.0
100	QPSK	270	0	18.41	18.45	18.44		
100	16QAM	1	1	18.09	18.17	18.07	20.0	1.0
100	16QAM	1	1	16.58	16.70	16.66	18.5	2.5
100	256QAM	1	1	14.76	14.91	14.74	16.5	4.5
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.36	19.36	19.35	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.27	19.35	19.34	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.27	19.42	19.39	21.0	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.31	19.40	19.39	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.31	19.37	19.31	21.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.34	19.43	19.37	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.27	19.44	19.39	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.34	19.36	19.30	21.0	0.0

### Part270 n77 PC2 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.27	22.43	22.36		
100	PI2 BPSK	1	137	22.42	22.41	22.39	24.0	0.0
100	PI2 BPSK	1	271	22.18	22.33	22.38		
100	PI2 BPSK	135	0	21.96	22.06	21.84	23.5	0.5
100	PI2 BPSK	135	69	22.38	22.52	22.41	24.0	0.0
100	PI2 BPSK	135	138	21.87	22.09	21.85	23.5	0.5
100	PI2 BPSK	270	0	22.12	22.11	21.97		
100	QPSK	1	1	22.46	22.55	22.50		
100	QPSK	1	137	22.38	22.53	22.40	24.0	0.0
100	QPSK	1	271	22.38	22.46	22.24		
100	QPSK	135	0	21.47	21.49	21.33	23.0	1.0
100	QPSK	135	69	22.33	22.51	22.35	24.0	0.0
100	QPSK	135	138	21.37	21.46	21.35	23.0	1.0
100	QPSK	270	0	21.45	21.55	21.43		
100	16QAM	1	1	21.17	21.28	21.10	23.0	1.0
100	16QAM	1	1	19.73	19.81	19.72	21.5	2.5
100	256QAM	1	1	17.88	17.98	17.90	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.41	22.47	22.44	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.36	22.47	22.39	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.37	22.43	22.40	24.0	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.33	22.47	22.41	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.38	22.52	22.41	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.34	22.47	22.38	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.33	22.42	22.40	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.35	22.49	22.44	24.0	0.0

### Part270 n78 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	19.49		19.49		
100	PI2 BPSK	1	137	19.41		19.41	21.0	0.0
100	PI2 BPSK	1	271	19.46		19.46		
100	PI2 BPSK	135	0	18.95		18.95	20.5	0.5
100	PI2 BPSK	135	69	19.43		19.43	21.0	0.0
100	PI2 BPSK	135	138	19.02		19.02	20.5	0.5
100	PI2 BPSK	270	0	19.06		19.06		
100	QPSK	1	1	19.00		19.00		
100	QPSK	1	137	19.55		19.55	21.0	0.0
100	QPSK	1	271	19.58		19.58		
100	QPSK	135	0	18.71		18.71	20.0	1.0
100	QPSK	135	69	19.56		19.56	21.0	0.0
100	QPSK	135	138	18.50		18.50	20.0	1.0
100	QPSK	270	0	18.55		18.55		
100	16QAM	1	1	18.62		18.62	20.0	1.0
100	16QAM	1	1	16.90		16.90	18.5	2.5
100	256QAM	1	1	15.31		15.31	16.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.52	19.49	19.46	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.42	19.39	19.40	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.47	19.50	19.46	21.0	0.0
Channel								
Frequency (MHz)				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.50	19.44	19.42	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.44	19.39	19.45	21.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.50	19.42	19.46	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.49	19.43	19.35	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.49	19.39	19.38	21.0	0.0



**Part270 n78 PC2 Ant7**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3760	3760	3760		
100	PI/2 BPSK	1	1		22.50			
100	PI/2 BPSK	1	137		22.41		24.0	0.0
100	PI/2 BPSK	1	271		22.32		23.5	0.5
100	PI/2 BPSK	135	0		22.08		24.0	0.0
100	PI/2 BPSK	135	69		21.98		23.5	0.5
100	PI/2 BPSK	135	138		22.12			
100	QPSK	1	1		22.35		24.0	0.0
100	QPSK	1	137		22.44			
100	QPSK	1	271		22.43			
100	QPSK	135	0		21.48		23.0	1.0
100	QPSK	135	69		22.53		24.0	0.0
100	QPSK	135	138		21.62		23.0	1.0
100	QPSK	270	0		21.59			
100	16QAM	1	1		21.26		23.0	1.0
100	16QAM	1	1		19.75		21.5	2.5
100	256QAM	1	1		17.84		19.5	4.5
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.42	22.48	22.39	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.37	22.39	22.27	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.37	22.36	22.27	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	22.28	22.41	22.25	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.33	22.34	22.35	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.29	22.44	22.29	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	22.31	22.34	22.29	24.0	0.0
Channel				647334	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.34	22.39	22.31	24.0	0.0



Reduced Power Mode for DS12 Simultaneous

n5 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	Pi/2 BPSK	1	1	22.75	22.81	22.69		
20	Pi/2 BPSK	1	53	22.53	22.68	22.59	24.0	0.0
20	Pi/2 BPSK	1	104	22.49	22.62	22.57		
20	Pi/2 BPSK	50	0	22.22	22.32	22.23	23.5	0.5
20	Pi/2 BPSK	50	28	22.57	22.67	22.58	24.0	0.0
20	Pi/2 BPSK	50	56	22.07	22.16	22.02		
20	Pi/2 BPSK	100	0	22.27	22.34	22.22	23.5	0.5
20	QPSK	1	1	22.87	22.88	22.82		
20	QPSK	1	53	22.64	22.71	22.65	24.0	0.0
20	QPSK	1	104	22.40	22.54	22.51		
20	QPSK	50	0	21.75	21.86	21.80	23.0	1.0
20	QPSK	50	28	22.60	22.71	22.66	24.0	0.0
20	QPSK	50	56	21.67	21.75	21.61		
20	QPSK	100	0	21.72	21.83	21.72	23.0	1.0
20	16QAM	1	1	21.64	21.76	21.70	23.0	1.0
20	64QAM	1	1	20.20	20.34	20.27	21.5	2.5
20	256QAM	1	1	18.14	18.29	18.17	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.74	22.83	22.70	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.76	22.79	22.75	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.77	22.85	22.69	24.0	0.0





### n5 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.19	23.25	23.21		
20	PI/2 BPSK	1	53	23.10	23.19	23.13	24.0	0.0
20	PI/2 BPSK	1	104	22.91	23.02	22.95		
20	PI/2 BPSK	50	0	22.57	22.66	22.54	23.5	0.5
20	PI/2 BPSK	50	28	22.92	22.99	22.87	24.0	0.0
20	PI/2 BPSK	50	56	22.45	22.49	22.41	23.5	0.5
20	PI/2 BPSK	100	0	22.56	22.63	22.57		
20	QPSK	1	1	23.23	23.28	23.19		
20	QPSK	1	53	22.84	22.98	22.90	24.0	0.0
20	QPSK	1	104	22.75	22.85	22.72		
20	QPSK	50	0	22.08	22.15	22.01	23.0	1.0
20	QPSK	50	28	22.88	23.01	22.92	24.0	0.0
20	QPSK	50	56	21.91	22.01	21.96	23.0	1.0
20	QPSK	100	0	22.20	22.25	22.14		
20	16QAM	1	1	22.13	22.24	22.20	23.0	1.0
20	64QAM	1	1	21.18	21.31	21.17	21.5	2.5
20	256QAM	1	1	18.66	18.72	18.58	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.23	23.12	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.15	23.07	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	833.5	840.5		
5	QPSK	1	1	23.11	23.18	23.09	24.0	0.0



Part270 n77 Ant2 PC2&PC3									
BW [MHz]	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	14.98	14.99	15.02	16.8	0.0	
100	PI/2 BPSK	1	137	14.93	15.11	15.01			
100	PI/2 BPSK	1	271	14.99	15.10	14.97			
100	PI/2 BPSK	135	0	14.99	15.02	15.03	16.8	0.0	
100	PI/2 BPSK	135	69	15.04	15.01	15.02	16.8	0.0	
100	PI/2 BPSK	135	138	14.98	15.05	15.06	16.8	0.0	
100	PI/2 BPSK	270	0	15.01	15.10	14.99			
100	QPSK	1	1	15.06	15.12	15.08	16.8	0.0	
100	QPSK	1	137	14.99	15.09	14.97			
100	QPSK	1	271	15.03	15.02	14.96			
100	QPSK	135	0	15.01	15.02	14.99	16.8	0.0	
100	QPSK	135	69	14.97	15.10	15.01	16.8	0.0	
100	QPSK	135	138	15.04	15.02	14.97	16.8	0.0	
100	QPSK	270	0	14.96	15.08	14.97			
100	16QAM	1	1	15.00	15.07	14.98	16.8	0.0	
100	64QAM	1	1	15.02	15.07	15.04	16.8	0.0	
100	256QAM	1	1	15.02	15.02	15.07	16.8	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	16.8	0.0	
90	QPSK	1	1	15.00	14.99	15.03	16.8	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	16.8	0.0	
80	QPSK	1	1	15.01	15.01	15.04	16.8	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945	16.8	0.0	
70	QPSK	1	1	15.01	14.98	15.02	16.8	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	16.8	0.0	
60	QPSK	1	1	14.94	15.07	15.02	16.8	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	16.8	0.0	
50	QPSK	1	1	14.94	15.02	15.01	16.8	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	16.8	0.0	
40	QPSK	1	1	15.03	15.09	15.04	16.8	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	16.8	0.0	
30	QPSK	1	1	14.99	15.01	14.97	16.8	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	16.8	0.0	
20	QPSK	1	1	14.91	15.03	14.94	16.8	0.0	

Part270 n78 Ant2 PC2&PC3									
BW [MHz]	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		14.92				
100	PI/2 BPSK	1	137		14.97		16.8	0.0	
100	PI/2 BPSK	1	271		15.05				
100	PI/2 BPSK	135	0		14.99		16.8	0.0	
100	PI/2 BPSK	135	69		14.86		16.8	0.0	
100	PI/2 BPSK	135	138		14.99		16.8	0.0	
100	PI/2 BPSK	270	0		15.09				
100	QPSK	1	1		15.21		16.8	0.0	
100	QPSK	1	137		15.09				
100	QPSK	1	271		14.99				
100	QPSK	135	0		14.95		16.8	0.0	
100	QPSK	135	69		15.12		16.8	0.0	
100	QPSK	135	138		14.89		16.8	0.0	
100	QPSK	270	0		15.09				
100	16QAM	1	1		15.04		16.8	0.0	
100	64QAM	1	1		15.00		16.8	0.0	
100	256QAM	1	1		14.92		16.8	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	16.8	0.0	
90	QPSK	1	1	15.16	15.18	15.14	16.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02	16.8	0.0	
80	QPSK	1	1	15.11	15.18	15.08	16.8	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765	16.8	0.0	
70	QPSK	1	1	15.13	15.10	15.13	16.8	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01	16.8	0.0	
60	QPSK	1	1	15.13	15.14	15.18	16.8	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02	16.8	0.0	
50	QPSK	1	1	15.13	15.11	15.14	16.8	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780	16.8	0.0	
40	QPSK	1	1	15.16	15.16	15.16	16.8	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01	16.8	0.0	
30	QPSK	1	1	15.15	15.10	15.19	16.8	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02	16.8	0.0	
20	QPSK	1	1	15.17	15.11	15.08	16.8	0.0	



### Part270 n77 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.79	20.77	20.75		
100	PI2 BPSK	1	137	20.69	20.73	20.77		0.0
100	PI2 BPSK	1	271	20.53	20.61	20.74		
100	PI2 BPSK	138	0	20.16	20.28	20.27	21.0	0.5
100	PI2 BPSK	138	69	20.76	20.75	20.68	21.5	0.0
100	PI2 BPSK	138	138	20.15	20.24	20.18	21.0	0.5
100	PI2 BPSK	270	0	20.25	20.32	20.27		
100	QPSK	1	1	20.67	20.90	20.85		
100	QPSK	1	137	20.80	20.70	20.69	21.5	0.0
100	QPSK	1	271	20.47	20.61	20.58		
100	QPSK	138	0	19.69	19.87	19.74	20.5	1.0
100	QPSK	138	69	20.62	20.77	20.69	21.5	0.0
100	QPSK	138	138	19.56	19.67	19.62	20.5	1.0
100	QPSK	270	0	19.72	19.83	19.63		
100	16QAM	1	1	19.71	19.81	19.76	20.5	1.0
100	16QAM	1	1	18.71	18.78	18.71	19.0	2.5
100	256QAM	1	1	18.10	18.15	18.05	17.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.59	20.85	20.74	21.5	0.0
Channel								
Frequency (MHz)				649334	650000	649668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	650000	649000		
70	QPSK	1	1	20.51	20.81	20.67	21.5	0.0
Channel								
Frequency (MHz)				648668	650000	649334		
60	QPSK	1	1	20.50	20.84	20.71	21.5	0.0
Channel								
Frequency (MHz)				648334	650000	648668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.58	20.81	20.70	21.5	0.0
Channel								
Frequency (MHz)				647668	650000	648334		
30	QPSK	1	1	3710.01	3840	3970.02		
Channel								
Frequency (MHz)				647334	650000	648668		
20	QPSK	1	1	20.59	20.74	20.72	21.5	0.0

### Part270 n77 PC2 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.62	23.67	23.69		
100	PI2 BPSK	1	137	23.71	23.72	23.58	24.5	0.0
100	PI2 BPSK	1	271	23.66	23.64	23.60		
100	PI2 BPSK	138	0	23.09	23.12	23.20	24.0	0.5
100	PI2 BPSK	138	69	23.58	23.70	23.60	24.5	0.0
100	PI2 BPSK	138	138	23.08	23.20	23.12	24.0	0.5
100	PI2 BPSK	270	0	23.14	23.15	23.17		
100	QPSK	1	1	23.53	23.83	23.74		
100	QPSK	1	137	23.54	23.65	23.68	24.5	0.0
100	QPSK	1	271	23.57	23.55	23.47		
100	QPSK	138	0	22.62	22.72	22.57	23.5	1.0
100	QPSK	138	69	23.55	23.67	23.54	24.5	0.0
100	QPSK	138	138	22.66	22.69	22.56	23.5	1.0
100	QPSK	270	0	22.57	22.70	22.54		
100	16QAM	1	1	22.70	22.83	22.72	23.5	1.0
100	16QAM	1	1	21.64	21.71	21.61	22.0	2.5
100	256QAM	1	1	19.12	19.14	19.06	20.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.52	23.75	23.61	24.5	0.0
Channel								
Frequency (MHz)				649334	650000	649668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	650000	649000		
70	QPSK	1	1	23.56	23.69	23.55	24.5	0.0
Channel								
Frequency (MHz)				648668	650000	649334		
60	QPSK	1	1	23.51	23.73	23.59	24.5	0.0
Channel								
Frequency (MHz)				648334	650000	648668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.80	23.66	23.62	24.5	0.0
Channel								
Frequency (MHz)				647668	650000	648334		
30	QPSK	1	1	3710.01	3840	3970.02		
Channel								
Frequency (MHz)				647334	650000	648668		
20	QPSK	1	1	23.58	23.64	23.60	24.5	0.0

### Part270 n78 Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	20.17				
100	PI2 BPSK	1	137	20.03			21.5	0.0
100	PI2 BPSK	1	271	19.76				
100	PI2 BPSK	138	0	19.71			21.0	0.5
100	PI2 BPSK	138	69	19.97			21.5	0.0
100	PI2 BPSK	138	138	19.26			21.0	0.5
100	PI2 BPSK	270	0	19.53				
100	QPSK	1	1	20.23				
100	QPSK	1	137	20.11			21.5	0.0
100	QPSK	1	271	19.85				
100	QPSK	138	0	18.18			20.5	1.0
100	QPSK	138	69	19.94			21.5	0.0
100	QPSK	138	138	18.96			20.5	1.0
100	QPSK	270	0	19.03				
100	16QAM	1	1	19.27			20.5	1.0
100	16QAM	1	1	18.18			19.0	2.5
100	256QAM	1	1	15.48			17.0	4.5
Channel								
Frequency (MHz)				648668	650000	649334		
90	QPSK	1	1	20.15	20.12	20.18	21.5	0.0
Channel								
Frequency (MHz)				649334	650000	649668		
80	QPSK	1	1	3740.01	3750	3760.02		
Channel								
Frequency (MHz)				649000	650000	649000		
70	QPSK	1	1	20.16	20.10	20.12	21.5	0.0
Channel								
Frequency (MHz)				648668	650000	649334		
60	QPSK	1	1	20.14	20.20	20.16	21.5	0.0
Channel								
Frequency (MHz)				648334	650000	648668		
50	QPSK	1	1	3725.01	3750	3775.02		
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.14	20.17	20.15	21.5	0.0
Channel								
Frequency (MHz)				647668	650000	648334		
30	QPSK	1	1	3710.01	3750	3790.02		
Channel								
Frequency (MHz)				647334	650000	648668		
20	QPSK	1	1	20.16	20.19	20.11	21.5	0.0



**Part270 n78 PC2 Ant3**

BW [MHz]	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)				3760	3760	3760		
100	PI2 BPSK	1	1		21.13			
100	PI2 BPSK	1	137		21.03		22.5	0.0
100	PI2 BPSK	1	271		20.76		22.0	0.5
100	PI2 BPSK	135	0		20.73		22.5	0.0
100	PI2 BPSK	135	69		21.02		22.0	0.5
100	PI2 BPSK	135	138		20.25		21.5	1.0
100	PI2 BPSK	270	0		20.54		21.5	1.0
100	QPSK	1	1		21.21			
100	QPSK	1	137		21.07		22.5	0.0
100	QPSK	1	271		20.83		21.5	1.0
100	QPSK	135	0		20.17		22.5	0.0
100	QPSK	135	69		20.84		21.5	1.0
100	QPSK	135	138		20.02		21.5	1.0
100	QPSK	270	0		20.03		21.5	1.0
100	16QAM	1	1		20.27		20.0	2.5
100	16QAM	1	1		19.19		18.0	4.5
100	256QAM	1	1		16.48		18.0	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.10	21.17	21.09	22.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.10	21.18	21.11	22.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.18	21.13	21.16	22.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	21.08	21.08	21.07	22.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.14	21.14	21.11	22.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.12	21.09	21.07	22.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3755.01		
30	QPSK	1	1	21.13	21.12	21.10	22.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.11	21.15	21.10	22.5	0.0



### n7 Ant5

Channel	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	Pi/2 BPSK	1	1	22.53	22.57	22.48	24.0	0.0
40	Pi/2 BPSK	1	108	22.46	22.54	22.46		
40	Pi/2 BPSK	1	214	22.55	22.60	22.48		
40	Pi/2 BPSK	108	0	22.05	22.15	22.10	23.5	0.5
40	Pi/2 BPSK	108	54	22.49	22.59	22.54	24.0	0.0
40	Pi/2 BPSK	108	108	22.00	22.13	22.07		
40	Pi/2 BPSK	216	0	22.15	22.21	22.09	23.5	0.5
40	QPSK	1	1	22.62	22.66	22.59		
40	QPSK	1	108	22.52	22.63	22.57	24.0	0.0
40	QPSK	1	214	22.44	22.59	22.47		
40	QPSK	108	0	21.66	21.72	21.64	23.0	1.0
40	QPSK	108	54	22.53	22.61	22.54	24.0	0.0
40	QPSK	108	108	21.61	21.71	21.64		
40	QPSK	216	0	21.68	21.74	21.64	23.0	1.0
40	16QAM	1	1	21.43	21.54	21.39	23.0	1.0
40	64QAM	1	1	19.86	20.00	19.88	21.5	2.5
40	256QAM	1	1	17.81	17.87	17.75	19.5	4.5
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555					
30	QPSK	1	1	22.54	22.59	22.56	24.0	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5					
25	QPSK	1	1	22.49	22.52	22.51	24.0	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560					
20	QPSK	1	1	22.48	22.51	22.47	24.0	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	22.50	22.59	22.51	24.0	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	22.52	22.56	22.52	24.0	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	22.57	22.59	22.52	24.0	0.0



### Part270 n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.31	18.36	18.25		
100	PI2 BPSK	1	137	18.22	18.32	18.21		0.0
100	PI2 BPSK	1	271	18.06	18.23	18.16		
100	PI2 BPSK	135	0	17.76	17.89	17.85	19.0	0.5
100	PI2 BPSK	135	69	18.23	18.31	18.27	19.0	0.0
100	PI2 BPSK	135	138	17.73	17.84	17.70	19.0	0.5
100	PI2 BPSK	270	0	17.77	17.92	17.82		
100	QPSK	1	1	18.32	18.42	18.27		
100	QPSK	1	137	18.31	18.38	18.34	19.5	0.0
100	QPSK	1	271	18.23	18.30	18.24		
100	QPSK	135	0	17.43	17.48	17.45	18.5	1.0
100	QPSK	135	69	18.22	18.29	18.20	19.5	0.0
100	QPSK	135	138	17.30	17.38	17.23	18.5	1.0
100	QPSK	270	0	17.34	17.42	17.32		
100	16QAM	1	1	17.25	17.29	17.23	18.5	1.0
100	16QAM	1	1	15.62	15.77	15.63	17.0	2.5
100	256QAM	1	1	13.34	13.43	13.31	15.0	4.5
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.21	18.35	18.20	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.18	18.29	18.14	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.18	18.32	18.22	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.25	18.31	18.19	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.24	18.37	18.23	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.25	18.38	18.15	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.22	18.34	18.21	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.29	18.28	18.19	19.5	0.0

### Part270 n77 PC2 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	21.44	21.55	21.41		
100	PI2 BPSK	1	137	21.39	21.57	21.42	22.5	0.0
100	PI2 BPSK	1	271	21.23	21.45	21.38		
100	PI2 BPSK	135	0	20.94	21.11	21.08	22.0	0.5
100	PI2 BPSK	135	69	21.52	21.54	21.58	22.5	0.0
100	PI2 BPSK	135	138	20.99	21.12	20.98	22.0	0.5
100	PI2 BPSK	270	0	21.07	21.11	21.04		
100	QPSK	1	1	21.55	21.62	21.50		
100	QPSK	1	137	21.48	21.51	21.52	22.5	0.0
100	QPSK	1	271	21.52	21.45	21.40		
100	QPSK	135	0	20.58	20.61	20.68	21.5	1.0
100	QPSK	135	69	21.38	21.60	21.37	22.5	0.0
100	QPSK	135	138	20.44	20.45	20.38	21.5	1.0
100	QPSK	270	0	20.48	20.54	20.46		
100	16QAM	1	1	20.45	20.46	20.44	21.5	1.0
100	16QAM	1	1	18.79	18.90	18.80	20.0	2.5
100	256QAM	1	1	16.57	16.60	16.53	18.0	4.5
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.49	21.54	21.37	22.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.49	21.58	21.49	22.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.49	21.46	21.47	22.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.49	21.55	21.43	22.5	0.0
Channel								
Frequency (MHz)				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.46	21.42	21.44	22.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.45	21.55	21.42	22.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.42	21.60	21.39	22.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.40	21.53	21.44	22.5	0.0

### Part270 n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1			18.78		
100	PI2 BPSK	1	137			18.61		0.0
100	PI2 BPSK	1	271			18.53		
100	PI2 BPSK	135	0			18.25	19.0	0.5
100	PI2 BPSK	135	69			18.64	19.5	0.0
100	PI2 BPSK	135	138			17.93	19.0	0.5
100	PI2 BPSK	270	0			18.01		
100	QPSK	1	1			18.83		
100	QPSK	1	137			18.77	19.5	0.0
100	QPSK	1	271			18.49		
100	QPSK	135	0			17.75	18.5	1.0
100	QPSK	135	69			18.53	19.5	0.0
100	QPSK	135	138			17.46	18.5	1.0
100	QPSK	270	0			17.52		
100	16QAM	1	1			17.82	18.5	1.0
100	16QAM	1	1			16.48	17.0	2.5
100	256QAM	1	1			14.06	15.0	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.79	18.75	18.71	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.73	18.80	18.70	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.78	18.71	18.77	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.72	18.69	18.77	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.78	18.73	18.70	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.72	18.77	18.75	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.79	18.69	18.73	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.77	18.74	18.75	19.5	0.0



**Part270 n78 PC2 Ant5**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3760	3760	3760			
Frequency (MHz)									
100	PI2 BPSK	1	1		19.74				
100	PI2 BPSK	1	137		19.67		21.0	0.0	
100	PI2 BPSK	1	271		19.53		20.5	0.5	
100	PI2 BPSK	135	0		19.32		21.0	0.0	
100	PI2 BPSK	135	69		19.66		20.5	0.5	
100	PI2 BPSK	135	138		18.98				
100	PI2 BPSK	270	0		18.99				
100	QPSK	1	1		19.84				
100	QPSK	1	137		19.79		21.0	0.0	
100	QPSK	1	271		19.49				
100	QPSK	135	0		18.70		20.0	1.0	
100	QPSK	135	69		19.51		21.0	0.0	
100	QPSK	135	138		18.47		20.0	1.0	
100	QPSK	270	0		18.59				
100	16QAM	1	1		18.78		20.0	1.0	
100	16QAM	1	1		17.51		18.5	2.5	
100	256QAM	1	1		15.11		16.5	4.5	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.74	19.70	19.76	21.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.69	19.75	19.73	21.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1		19.71	19.69	19.70	21.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		19.70	19.78	19.74	21.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.77	19.71	19.79	21.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.72	19.77	19.79	21.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3755.01			
30	QPSK	1	1		19.74	19.73	19.76	21.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.78	19.72	19.73	21.0	0.0



### Part270 n77 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.37	19.42	19.44		
100	PI2 BPSK	1	137	19.20	19.29	19.28	21.0	0.0
100	PI2 BPSK	1	271	19.17	19.29	19.15		
100	PI2 BPSK	135	0	18.55	18.56	18.58	20.5	0.5
100	PI2 BPSK	135	69	19.28	19.32	19.24	21.0	0.0
100	PI2 BPSK	135	138	18.62	18.54	18.61	20.5	0.5
100	PI2 BPSK	270	0	18.56	18.62	18.65		
100	QPSK	1	1	19.40	19.49	19.42		
100	QPSK	1	137	19.41	19.47	19.27	21.0	0.0
100	QPSK	1	271	19.29	19.35	19.28		
100	QPSK	135	0	18.42	18.55	18.35	20.0	1.0
100	QPSK	135	69	19.28	19.44	19.39	21.0	0.0
100	QPSK	135	138	18.26	18.42	18.35	20.0	1.0
100	QPSK	270	0	18.41	18.45	18.44		
100	16QAM	1	1	18.09	18.17	18.07	20.0	1.0
100	16QAM	1	1	16.58	16.70	16.66	18.5	2.5
100	256QAM	1	1	14.76	14.91	14.74	16.5	4.5
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.36	19.36	19.35	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.27	19.35	19.34	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.27	19.42	19.39	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.31	19.40	19.39	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.31	19.37	19.31	21.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.34	19.43	19.37	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.27	19.44	19.39	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.34	19.36	19.30	21.0	0.0

### Part270 n77 PC2 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.27	22.43	22.36		
100	PI2 BPSK	1	137	22.42	22.41	22.39	24.0	0.0
100	PI2 BPSK	1	271	22.18	22.33	22.38		
100	PI2 BPSK	135	0	21.96	22.06	21.84	23.5	0.5
100	PI2 BPSK	135	69	22.38	22.52	22.41	24.0	0.0
100	PI2 BPSK	135	138	21.87	22.09	21.85	23.5	0.5
100	PI2 BPSK	270	0	22.12	22.11	21.97		
100	QPSK	1	1	22.46	22.55	22.50		
100	QPSK	1	137	22.38	22.53	22.40	24.0	0.0
100	QPSK	1	271	22.38	22.46	22.24		
100	QPSK	135	0	21.47	21.49	21.33	23.0	1.0
100	QPSK	135	69	22.33	22.51	22.35	24.0	0.0
100	QPSK	135	138	21.37	21.46	21.35	23.0	1.0
100	QPSK	270	0	21.45	21.55	21.43		
100	16QAM	1	1	21.17	21.28	21.10	23.0	1.0
100	16QAM	1	1	19.73	19.81	19.72	21.5	2.5
100	256QAM	1	1	17.88	17.98	17.90	19.5	4.5
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.41	22.47	22.44	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.36	22.47	22.39	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.37	22.43	22.40	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.33	22.47	22.41	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.38	22.52	22.41	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.34	22.47	22.38	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.33	22.42	22.40	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.35	22.49	22.44	24.0	0.0

### Part270 n78 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	19.49		19.49		
100	PI2 BPSK	1	137	19.41		19.41	21.0	0.0
100	PI2 BPSK	1	271	19.46		19.46		
100	PI2 BPSK	135	0	18.95		18.95	20.5	0.5
100	PI2 BPSK	135	69	19.43		19.43	21.0	0.0
100	PI2 BPSK	135	138	19.02		19.02	20.5	0.5
100	PI2 BPSK	270	0	19.06		19.06		
100	QPSK	1	1	19.00		19.00		
100	QPSK	1	137	19.55		19.55	21.0	0.0
100	QPSK	1	271	19.58		19.58		
100	QPSK	135	0	18.71		18.71	20.0	1.0
100	QPSK	135	69	19.56		19.56	21.0	0.0
100	QPSK	135	138	18.50		18.50	20.0	1.0
100	QPSK	270	0	18.55		18.55		
100	16QAM	1	1	18.62		18.62	20.0	1.0
100	16QAM	1	1	16.90		16.90	18.5	2.5
100	256QAM	1	1	15.31		15.31	16.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.52	19.49	19.46	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.42	19.39	19.40	21.0	0.0
Channel								
Frequency (MHz)				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.47	19.50	19.46	21.0	0.0
Channel								
Frequency (MHz)				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.50	19.44	19.42	21.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.44	19.39	19.45	21.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.50	19.42	19.46	21.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.49	19.43	19.35	21.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.49	19.39	19.38	21.0	0.0





**Part270 n78 PC2 Ant7**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3760	3760	3760		
100	PI2 BPSK	1	1		22.50			
100	PI2 BPSK	1	137		22.41		24.0	0.0
100	PI2 BPSK	1	271		22.32		23.5	0.5
100	PI2 BPSK	135	0		22.08		24.0	0.0
100	PI2 BPSK	135	89		21.98		23.5	0.5
100	PI2 BPSK	135	138		22.12			
100	QPSK	1	1		22.35		24.0	0.0
100	QPSK	1	137		22.44			
100	QPSK	1	271		22.43			
100	QPSK	135	0		21.48		23.0	1.0
100	QPSK	135	89		22.53		24.0	0.0
100	QPSK	135	138		21.62		23.0	1.0
100	QPSK	270	0		21.59			
100	16QAM	1	1		21.26		23.0	1.0
100	16QAM	1	1		19.75		21.5	2.5
100	256QAM	1	1		17.84		19.5	4.5
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.42	22.48	22.39	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.37	22.39	22.27	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.37	22.36	22.27	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	22.28	22.41	22.25	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.33	22.34	22.35	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.29	22.44	22.29	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	22.31	22.34	22.29	24.0	0.0
Channel				647334	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.34	22.39	22.31	24.0	0.0



Reduced Power Mode for DSI3 Standalone

n5 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	Pi/2 BPSK	1	1	22.75	22.81	22.69		
20	Pi/2 BPSK	1	53	22.53	22.68	22.59	24.0	0.0
20	Pi/2 BPSK	1	104	22.49	22.62	22.57		
20	Pi/2 BPSK	50	0	22.22	22.32	22.23	23.5	0.5
20	Pi/2 BPSK	50	28	22.57	22.67	22.58	24.0	0.0
20	Pi/2 BPSK	50	56	22.07	22.16	22.02		
20	Pi/2 BPSK	100	0	22.27	22.34	22.22	23.5	0.5
20	QPSK	1	1	22.87	22.88	22.82		
20	QPSK	1	53	22.64	22.71	22.65	24.0	0.0
20	QPSK	1	104	22.40	22.54	22.51		
20	QPSK	50	0	21.75	21.86	21.80	23.0	1.0
20	QPSK	50	28	22.60	22.71	22.66	24.0	0.0
20	QPSK	50	56	21.67	21.75	21.61		
20	QPSK	100	0	21.72	21.83	21.72	23.0	1.0
20	16QAM	1	1	21.64	21.76	21.70	23.0	1.0
20	64QAM	1	1	20.20	20.34	20.27	21.5	2.5
20	256QAM	1	1	18.14	18.29	18.17	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.74	22.83	22.70	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.76	22.79	22.75	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.77	22.85	22.69	24.0	0.0



### n5 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.19	23.25	23.21		
20	PI/2 BPSK	1	53	23.10	23.19	23.13	24.0	0.0
20	PI/2 BPSK	1	104	22.91	23.02	22.95		
20	PI/2 BPSK	50	0	22.57	22.66	22.54	23.5	0.5
20	PI/2 BPSK	50	28	22.92	22.99	22.87	24.0	0.0
20	PI/2 BPSK	50	56	22.45	22.49	22.41	23.5	0.5
20	PI/2 BPSK	100	0	22.56	22.63	22.57		
20	QPSK	1	1	23.23	23.28	23.19		
20	QPSK	1	53	22.84	22.98	22.90	24.0	0.0
20	QPSK	1	104	22.75	22.85	22.72		
20	QPSK	50	0	22.08	22.15	22.01	23.0	1.0
20	QPSK	50	28	22.88	23.01	22.92	24.0	0.0
20	QPSK	50	56	21.91	22.01	21.96	23.0	1.0
20	QPSK	100	0	22.20	22.25	22.14		
20	16QAM	1	1	22.13	22.24	22.20	23.0	1.0
20	64QAM	1	1	21.18	21.31	21.17	21.5	2.5
20	256QAM	1	1	18.66	18.72	18.58	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.23	23.12	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.15	23.07	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	833.5	840.5		
5	QPSK	1	1	23.11	23.18	23.09	24.0	0.0



Part270 n77 PC2&PC3 Ant2									
BW [MHz]	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	15.99	16.00	15.93	17.4	0.0	
100	PI/2 BPSK	1	137	15.87	15.86	15.95			
100	PI/2 BPSK	1	271	15.87	15.81	15.91			
100	PI/2 BPSK	135	0	15.79	15.82	15.90	17.4	0.0	
100	PI/2 BPSK	135	69	15.86	15.77	15.83	17.4	0.0	
100	PI/2 BPSK	135	138	15.80	15.87	15.82	17.4	0.0	
100	PI/2 BPSK	270	0	15.81	15.74	15.83			
100	QPSK	1	1	15.96	16.04	15.98			
100	QPSK	1	137	15.87	15.83	15.87	17.4	0.0	
100	QPSK	1	271	15.76	15.74	15.86			
100	QPSK	135	0	15.79	15.83	15.89	17.4	0.0	
100	QPSK	135	69	15.75	15.95	15.81	17.4	0.0	
100	QPSK	135	138	15.79	15.81	15.86	17.4	0.0	
100	QPSK	270	0	15.86	15.92	15.89	17.4	0.0	
100	16QAM	1	1	15.69	15.82	15.87	17.4	0.0	
100	64QAM	1	1	15.77	15.65	15.76	17.4	0.0	
100	256QAM	1	1	15.79	15.86	15.89	17.4	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	17.4	0.0	
90	QPSK	1	1	15.78	15.93	15.82	17.4	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	17.4	0.0	
80	QPSK	1	1	15.79	15.95	15.84	17.4	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945	17.4	0.0	
70	QPSK	1	1	15.87	15.90	15.88	17.4	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	17.4	0.0	
60	QPSK	1	1	15.80	15.86	15.90	17.4	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	17.4	0.0	
50	QPSK	1	1	15.83	15.95	15.90	17.4	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	17.4	0.0	
40	QPSK	1	1	15.89	15.88	15.85	17.4	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	17.4	0.0	
30	QPSK	1	1	15.83	15.91	15.85	17.4	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	17.4	0.0	
20	QPSK	1	1	15.79	15.87	15.82	17.4	0.0	

Part270 n78 PC2&PC3 Ant2									
BW [MHz]	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		16.00				
100	PI/2 BPSK	1	137		15.78		17.4	0.0	
100	PI/2 BPSK	1	271		15.79				
100	PI/2 BPSK	135	0		15.72		17.4	0.0	
100	PI/2 BPSK	135	69		15.86		17.4	0.0	
100	PI/2 BPSK	135	138		15.78		17.4	0.0	
100	PI/2 BPSK	270	0		15.72				
100	QPSK	1	1		16.03				
100	QPSK	1	137		15.80		17.4	0.0	
100	QPSK	1	271		15.84				
100	QPSK	135	0		15.79		17.4	0.0	
100	QPSK	135	69		15.87		17.4	0.0	
100	QPSK	135	138		15.73		17.4	0.0	
100	QPSK	270	0		15.86		17.4	0.0	
100	16QAM	1	1		15.87		17.4	0.0	
100	64QAM	1	1		15.82		17.4	0.0	
100	256QAM	1	1		15.82		17.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	17.4	0.0	
90	QPSK	1	1	15.81	15.90	15.89	17.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02	17.4	0.0	
80	QPSK	1	1	15.89	15.86	15.82	17.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	17.4	0.0	
70	QPSK	1	1	15.82	15.86	15.89	17.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01	17.4	0.0	
60	QPSK	1	1	15.84	15.93	15.81	17.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02	17.4	0.0	
50	QPSK	1	1	15.81	15.92	15.90	17.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780	17.4	0.0	
40	QPSK	1	1	15.85	15.84	15.79	17.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01	17.4	0.0	
30	QPSK	1	1	15.80	15.85	15.82	17.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02	17.4	0.0	
20	QPSK	1	1	15.87	15.84	15.83	17.4	0.0	



Part270 n77 PC2&PC3 Ant3									
BW [MHz]	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	13.20	13.24	13.14			
100	PI/2 BPSK	1	137	13.16	13.20	13.18	14.0	0.0	
100	PI/2 BPSK	1	271	13.26	13.21	13.15			
100	PI/2 BPSK	135	0	13.22	13.21	13.14	14.0	0.0	
100	PI/2 BPSK	135	69	13.06	13.15	13.05	14.0	0.0	
100	PI/2 BPSK	135	138	12.98	13.16	13.25	14.0	0.0	
100	PI/2 BPSK	270	0	13.00	12.98	13.02			
100	QPSK	1	1	13.30	13.36	13.26			
100	QPSK	1	137	13.16	13.27	13.19	14.0	0.0	
100	QPSK	1	271	13.12	13.06	13.15			
100	QPSK	135	0	13.27	13.18	13.19	14.0	0.0	
100	QPSK	135	69	13.09	13.31	13.07	14.0	0.0	
100	QPSK	135	138	13.12	13.09	13.14	14.0	0.0	
100	QPSK	270	0	13.12	13.21	13.20	14.0	0.0	
100	16QAM	1	1	12.88	13.26	13.16	14.0	0.0	
100	64QAM	1	1	13.00	13.03	13.16	14.0	0.0	
100	256QAM	1	1	13.07	13.14	13.05	14.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	14.0	0.0	
90	QPSK	1	1	13.13	12.94	13.10	14.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	14.0	0.0	
80	QPSK	1	1	13.04	12.99	12.97	14.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3910	3915	14.0	0.0	
70	QPSK	1	1	13.06	13.02	13.14	14.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	14.0	0.0	
60	QPSK	1	1	13.06	12.95	13.06	14.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	14.0	0.0	
50	QPSK	1	1	13.03	13.13	13.01	14.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	14.0	0.0	
40	QPSK	1	1	13.02	12.95	13.00	14.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	14.0	0.0	
30	QPSK	1	1	13.10	13.06	13.05	14.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	14.0	0.0	
20	QPSK	1	1	12.96	13.14	12.99	14.0	0.0	

Part270 n78 PC2&PC3 Ant3									
BW [MHz]	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		13.12				
100	PI/2 BPSK	1	137		13.01		14.0	0.0	
100	PI/2 BPSK	1	271		13.03				
100	PI/2 BPSK	135	0		12.93		14.0	0.0	
100	PI/2 BPSK	135	69		12.92		14.0	0.0	
100	PI/2 BPSK	135	138		12.97		14.0	0.0	
100	PI/2 BPSK	270	0		12.87				
100	QPSK	1	1		13.15				
100	QPSK	1	137		13.10		14.0	0.0	
100	QPSK	1	271		12.83				
100	QPSK	135	0		13.07		14.0	0.0	
100	QPSK	135	69		13.13		14.0	0.0	
100	QPSK	135	138		12.99		14.0	0.0	
100	QPSK	270	0		13.12		14.0	0.0	
100	16QAM	1	1		12.97		14.0	0.0	
100	64QAM	1	1		12.89		14.0	0.0	
100	256QAM	1	1		13.05		14.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	14.0	0.0	
90	QPSK	1	1	13.09	13.08	12.96	14.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	14.0	0.0	
80	QPSK	1	1	12.99	13.09	13.03	14.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	14.0	0.0	
70	QPSK	1	1	13.04	13.12	13.09	14.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	14.0	0.0	
60	QPSK	1	1	13.02	13.07	12.99	14.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	14.0	0.0	
50	QPSK	1	1	13.00	13.03	13.00	14.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	14.0	0.0	
40	QPSK	1	1	13.02	13.06	13.02	14.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	14.0	0.0	
30	QPSK	1	1	13.04	13.02	12.99	14.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	14.0	0.0	
20	QPSK	1	1	13.02	13.08	13.02	14.0	0.0	



### n7 Ant5

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
40	18.62	18.77	18.66	19.8	0.0
40	18.59	18.74	18.55	19.8	0.0
40	18.72	18.82	18.59	19.8	0.0
40	18.61	18.73	18.51	19.8	0.0
40	18.53	18.69	18.50	19.8	0.0
40	18.71	18.81	18.59	19.8	0.0
40	18.59	18.73	18.52	19.8	0.0
40	18.78	18.89	18.72	19.8	0.0
40	18.61	18.76	18.56	19.8	0.0
40	18.63	18.79	18.66	19.8	0.0
40	18.59	18.71	18.59	19.8	0.0
40	18.65	18.76	18.56	19.8	0.0
40	18.56	18.73	18.61	19.8	0.0
40	18.66	18.76	18.63	19.8	0.0
40	18.41	18.51	18.29	19.8	0.0
40	18.50	18.57	18.42	19.8	0.0
40	18.18	18.34	18.16	19.5	0.3
30	18.63	18.77	18.64	19.8	0.0
25	18.65	18.85	18.68	19.8	0.0
20	18.72	18.79	18.60	19.8	0.0
15	18.70	18.82	18.65	19.8	0.0
10	18.65	18.76	18.68	19.8	0.0
5	18.64	18.81	18.63	19.8	0.0



### Part270 n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.31	18.36	18.25		
100	PI2 BPSK	1	137	18.22	18.32	18.21		0.0
100	PI2 BPSK	1	271	18.06	18.23	18.16		
100	PI2 BPSK	135	0	17.76	17.89	17.85	19.5	0.5
100	PI2 BPSK	135	69	18.23	18.31	18.27	19.5	0.0
100	PI2 BPSK	135	138	17.73	17.84	17.70	19.0	0.5
100	PI2 BPSK	270	0	17.77	17.92	17.82		
100	QPSK	1	1	18.32	18.42	18.27		
100	QPSK	1	137	18.31	18.38	18.34	19.5	0.0
100	QPSK	1	271	18.23	18.30	18.24		
100	QPSK	135	0	17.43	17.48	17.45	18.5	1.0
100	QPSK	135	69	18.22	18.29	18.20	19.5	0.0
100	QPSK	135	138	17.30	17.38	17.23	18.5	1.0
100	QPSK	270	0	17.34	17.42	17.32		
100	16QAM	1	1	17.25	17.29	17.23	18.5	1.0
100	16QAM	1	1	15.62	15.77	15.63	17.0	2.5
100	256QAM	1	1	13.34	13.43	13.31	15.0	4.5
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.21	18.35	18.20	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.18	18.29	18.14	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.18	18.32	18.22	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.25	18.31	18.19	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.24	18.37	18.23	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.25	18.38	18.15	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	651334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.22	18.34	18.21	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.29	18.28	18.19	19.5	0.0

### Part270 n77 PC2 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	21.05	21.07	21.02		
100	PI2 BPSK	1	137	20.80	21.10	20.96	22.3	0.0
100	PI2 BPSK	1	271	20.83	20.93	20.77		
100	PI2 BPSK	135	0	20.42	20.59	20.68	22.0	0.3
100	PI2 BPSK	135	69	21.03	20.93	21.02	22.3	0.0
100	PI2 BPSK	135	138	20.42	20.70	20.49	22.0	0.3
100	PI2 BPSK	270	0	20.67	20.65	20.47		
100	QPSK	1	1	21.07	21.16	21.06		
100	QPSK	1	137	20.95	21.12	20.99	22.3	0.0
100	QPSK	1	271	20.95	20.97	20.93		
100	QPSK	135	0	20.08	20.23	20.18	21.5	0.8
100	QPSK	135	69	20.89	21.16	20.77	22.3	0.0
100	QPSK	135	138	18.84	20.05	19.88	21.5	0.8
100	QPSK	270	0	18.98	20.15	19.97		
100	16QAM	1	1	20.02	19.92	19.91	21.5	0.8
100	16QAM	1	1	18.28	18.39	18.21	20.2	1.8
100	256QAM	1	1	16.01	16.08	16.10	18.0	4.3
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.99	20.94	20.98	22.3	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.87	21.05	20.87	22.3	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.04	21.05	20.83	22.3	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.03	21.13	21.02	22.3	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.88	20.98	20.90	22.3	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.02	21.12	20.94	22.3	0.0
Channel								
Frequency (MHz)				647668	650000	651334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.84	21.01	20.84	22.3	0.0
Channel								
Frequency (MHz)				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.93	21.01	20.95	22.3	0.0

### Part270 n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		18.78			
100	PI2 BPSK	1	137		18.81		19.5	0.0
100	PI2 BPSK	1	271		18.53			
100	PI2 BPSK	135	0		18.25		19.0	0.5
100	PI2 BPSK	135	69		18.64		19.5	0.0
100	PI2 BPSK	135	138		17.93		19.0	0.5
100	PI2 BPSK	270	0		18.01			
100	QPSK	1	1		18.83		19.5	0.0
100	QPSK	1	137		18.77			
100	QPSK	1	271		18.49			
100	QPSK	135	0		17.75		18.5	1.0
100	QPSK	135	69		18.53		19.5	0.0
100	QPSK	135	138		17.46		18.5	1.0
100	QPSK	270	0		17.52			
100	16QAM	1	1		17.82		18.5	1.0
100	16QAM	1	1		16.48		17.0	2.5
100	256QAM	1	1		14.06		15.0	4.5
Channel								
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.79	18.75	18.71	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.73	18.80	18.70	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.78	18.71	18.77	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.72	18.69	18.77	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.78	18.73	18.70	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.72	18.77	18.75	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.79	18.69	18.73	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.77	18.74	18.75	19.5	0.0



**Part270 n78 PC2 Ant5**

BW [MHz]	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		19.74				
100	PI/2 BPSK	1	137		19.67		21.0	0.0	
100	PI/2 BPSK	1	271		19.53				
100	PI/2 BPSK	135	0		19.32		20.5	0.5	
100	PI/2 BPSK	135	69		19.06		21.0	0.0	
100	PI/2 BPSK	135	138		18.88		20.5	0.5	
100	PI/2 BPSK	270	0		18.99				
100	QPSK	1	1		19.84				
100	QPSK	1	137		19.79		21.0	0.0	
100	QPSK	1	271		19.49				
100	QPSK	135	0		18.70		20.0	1.0	
100	QPSK	135	69		19.51		21.0	0.0	
100	QPSK	135	138		18.47		20.0	1.0	
100	QPSK	270	0		18.59				
100	16QAM	1	1		18.78		20.0	1.0	
100	16QAM	1	1		17.51		18.5	2.5	
100	256QAM	1	1		15.11		16.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.74	19.70	19.76	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.69	19.75	19.73	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		19.71	19.69	19.70	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		19.70	19.78	19.74	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.77	19.71	19.79	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.72	19.77	19.79	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		19.74	19.73	19.76	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.78	19.72	19.73	21.0	0.0





Part270 n77 PC2&PC3 Ant7									
BW [MHz]	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	17.77	17.71	17.86	18.9	0.0	
100	PI/2 BPSK	1	137	17.71	17.80	17.92			
100	PI/2 BPSK	1	271	17.81	17.83	17.79			
100	PI/2 BPSK	135	0	17.77	17.82	17.76	18.9	0.0	
100	PI/2 BPSK	135	69	17.74	17.90	17.87	18.9	0.0	
100	PI/2 BPSK	135	138	17.76	17.82	17.71	18.9	0.0	
100	PI/2 BPSK	270	0	17.81	17.80	17.81			
100	QPSK	1	1	17.75	17.95	17.82	18.9	0.0	
100	QPSK	1	137	17.53	17.74	17.76			
100	QPSK	1	271	17.75	17.70	17.79			
100	QPSK	135	0	17.78	17.88	17.82	18.9	0.0	
100	QPSK	135	69	17.65	17.90	17.77	18.9	0.0	
100	QPSK	135	138	17.67	17.67	17.81	18.9	0.0	
100	QPSK	270	0	17.84	17.87	17.85			
100	16QAM	1	1	17.83	17.84	17.85	18.9	0.0	
100	64QAM	1	1	17.26	17.41	17.39	18.5	0.4	
100	256QAM	1	1	15.64	15.67	15.74	16.5	2.4	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	18.9	0.0	
90	QPSK	1	1	17.77	17.87	17.73	18.9	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	18.9	0.0	
80	QPSK	1	1	17.74	17.81	17.78	18.9	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3945	18.9	0.0	
70	QPSK	1	1	17.64	17.88	17.71	18.9	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	18.9	0.0	
60	QPSK	1	1	17.81	17.83	17.75	18.9	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	18.9	0.0	
50	QPSK	1	1	17.75	17.70	17.92	18.9	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	18.9	0.0	
40	QPSK	1	1	17.77	17.82	17.70	18.9	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	18.9	0.0	
30	QPSK	1	1	17.80	17.85	17.82	18.9	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	18.9	0.0	
20	QPSK	1	1	17.80	17.67	17.85	18.9	0.0	

Part270 n78 PC2&PC3 Ant7									
BW [MHz]	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		17.63		18.9	0.0	
100	PI/2 BPSK	1	137		17.62				
100	PI/2 BPSK	1	271		17.74				
100	PI/2 BPSK	135	0		17.66		18.9	0.0	
100	PI/2 BPSK	135	69		17.85		18.9	0.0	
100	PI/2 BPSK	135	138		17.71		18.9	0.0	
100	PI/2 BPSK	270	0		17.61				
100	QPSK	1	1		17.92		18.9	0.0	
100	QPSK	1	137		17.57				
100	QPSK	1	271		17.49				
100	QPSK	135	0		17.73		18.9	0.0	
100	QPSK	135	69		17.82		18.9	0.0	
100	QPSK	135	138		17.54		18.9	0.0	
100	QPSK	270	0		17.81				
100	16QAM	1	1		17.71		18.9	0.0	
100	64QAM	1	1		17.42		18.5	0.4	
100	256QAM	1	1		15.54		16.5	2.4	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	18.9	0.0	
90	QPSK	1	1	17.57	17.68	17.68	18.9	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	18.9	0.0	
80	QPSK	1	1	17.64	17.58	17.63	18.9	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3750	3765	18.9	0.0	
70	QPSK	1	1	17.43	17.70	17.82	18.9	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	18.9	0.0	
60	QPSK	1	1	17.64	17.72	17.86	18.9	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	18.9	0.0	
50	QPSK	1	1	17.57	17.66	17.67	18.9	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	18.9	0.0	
40	QPSK	1	1	17.62	17.65	17.75	18.9	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	18.9	0.0	
30	QPSK	1	1	17.52	17.70	17.60	18.9	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	18.9	0.0	
20	QPSK	1	1	17.49	17.65	17.75	18.9	0.0	



Reduced Power Mode for DSI3 Simultaneous

n5 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	Pi/2 BPSK	1	1	22.75	22.81	22.69		
20	Pi/2 BPSK	1	53	22.53	22.68	22.59	24.0	0.0
20	Pi/2 BPSK	1	104	22.49	22.62	22.57		
20	Pi/2 BPSK	50	0	22.22	22.32	22.23	23.5	0.5
20	Pi/2 BPSK	50	28	22.57	22.67	22.58	24.0	0.0
20	Pi/2 BPSK	50	56	22.07	22.16	22.02		
20	Pi/2 BPSK	100	0	22.27	22.34	22.22	23.5	0.5
20	QPSK	1	1	22.87	22.88	22.82		
20	QPSK	1	53	22.64	22.71	22.65	24.0	0.0
20	QPSK	1	104	22.40	22.54	22.51		
20	QPSK	50	0	21.75	21.86	21.80	23.0	1.0
20	QPSK	50	28	22.60	22.71	22.66	24.0	0.0
20	QPSK	50	56	21.67	21.75	21.61		
20	QPSK	100	0	21.72	21.83	21.72	23.0	1.0
20	16QAM	1	1	21.64	21.76	21.70	23.0	1.0
20	64QAM	1	1	20.20	20.34	20.27	21.5	2.5
20	256QAM	1	1	18.14	18.29	18.17	19.5	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.74	22.83	22.70	24.0	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.76	22.79	22.75	24.0	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.77	22.85	22.69	24.0	0.0



### n5 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.19	23.25	23.21		
20	PI/2 BPSK	1	53	23.10	23.19	23.13	24.0	0.0
20	PI/2 BPSK	1	104	22.91	23.02	22.95		
20	PI/2 BPSK	50	0	22.57	22.66	22.54	24.0	0.0
20	PI/2 BPSK	50	28	22.92	22.99	22.87	24.0	0.0
20	PI/2 BPSK	50	56	22.45	22.49	22.41	24.0	0.0
20	PI/2 BPSK	100	0	22.56	22.63	22.57		
20	QPSK	1	1	23.23	23.28	23.19		
20	QPSK	1	53	22.84	22.98	22.90	24.0	0.0
20	QPSK	1	104	22.75	22.85	22.72		
20	QPSK	50	0	22.08	22.15	22.01	24.0	0.0
20	QPSK	50	28	22.88	23.01	22.92	24.0	0.0
20	QPSK	50	56	21.91	22.01	21.96	24.0	0.0
20	QPSK	100	0	22.20	22.25	22.14		
20	16QAM	1	1	22.13	22.24	22.20	24.0	0.0
20	64QAM	1	1	21.18	21.31	21.17	24.0	0.0
20	256QAM	1	1	18.66	18.72	18.58	24.0	0.0
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.23	23.12	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.15	23.07	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	833.5	840.5		
5	QPSK	1	1	23.11	23.18	23.09	24.0	0.0



Part270 n77PC2&PC3 Ant2									
BW [MHz]	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	14.96	14.96	14.83			
100	PI/2 BPSK	1	137	14.89	14.80	14.84	16.4	0.0	
100	PI/2 BPSK	1	271	14.85	14.91	14.92			
100	PI/2 BPSK	135	0	14.84	14.83	14.91	16.4	0.0	
100	PI/2 BPSK	135	69	14.84	14.86	14.73	16.4	0.0	
100	PI/2 BPSK	135	138	14.72	14.89	14.84	16.4	0.0	
100	PI/2 BPSK	270	0	14.74	14.74	14.75			
100	QPSK	1	1	14.97	15.11	14.98			
100	QPSK	1	137	14.83	14.92	14.92	16.4	0.0	
100	QPSK	1	271	14.81	14.84	14.82			
100	QPSK	135	0	14.86	14.90	14.83	16.4	0.0	
100	QPSK	135	69	14.72	14.93	14.82	16.4	0.0	
100	QPSK	135	138	14.71	14.71	14.82	16.4	0.0	
100	QPSK	270	0	14.74	14.98	14.83			
100	16QAM	1	1	14.66	14.89	14.76	16.4	0.0	
100	64QAM	1	1	14.73	14.65	14.75	16.4	0.0	
100	256QAM	1	1	14.75	14.81	14.80	16.4	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	14.77	14.88	14.91	16.4	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	14.81	14.96	14.70	16.4	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3930	3945			
70	QPSK	1	1	14.77	14.98	14.74	16.4	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	14.70	14.76	14.93	16.4	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	14.81	14.80	14.83	16.4	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	14.92	14.88	14.84	16.4	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	14.78	14.80	14.71	16.4	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	14.84	14.94	14.79	16.4	0.0	

Part270 n78 PC2&PC3 Ant2									
BW [MHz]	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		14.87				
100	PI/2 BPSK	1	137		14.82		16.4	0.0	
100	PI/2 BPSK	1	271		14.74				
100	PI/2 BPSK	135	0		14.80		16.4	0.0	
100	PI/2 BPSK	135	69		14.75		16.4	0.0	
100	PI/2 BPSK	135	138		14.74		16.4	0.0	
100	PI/2 BPSK	270	0		14.70				
100	QPSK	1	1		15.01				
100	QPSK	1	137		14.91		16.4	0.0	
100	QPSK	1	271		14.85				
100	QPSK	135	0		14.86		16.4	0.0	
100	QPSK	135	69		14.89		16.4	0.0	
100	QPSK	135	138		14.90		16.4	0.0	
100	QPSK	270	0		14.90				
100	16QAM	1	1		14.74		16.4	0.0	
100	64QAM	1	1		14.55		16.4	0.0	
100	256QAM	1	1		14.72		16.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	14.65	14.88	14.56	16.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	14.66	14.67	14.62	16.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	14.65	14.77	14.54	16.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	14.78	14.85	14.82	16.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	14.80	14.82	14.74	16.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	14.82	14.76	14.63	16.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	14.63	14.68	14.73	16.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	14.71	14.87	14.67	16.4	0.0	



Part270 n77 PC2&PC3 Ant3									
BW [MHz]	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	11.78	11.84	11.71	13.0	0.0	
100	PI/2 BPSK	1	137	11.82	11.85	11.81			
100	PI/2 BPSK	1	271	11.84	11.90	11.75			
100	PI/2 BPSK	135	0	11.78	11.76	11.86	13.0	0.0	
100	PI/2 BPSK	135	69	11.69	11.75	11.73	13.0	0.0	
100	PI/2 BPSK	135	138	11.62	11.80	11.92	13.0	0.0	
100	PI/2 BPSK	270	0	11.53	11.56	11.69			
100	QPSK	1	1	11.81	12.07	11.89	13.0	0.0	
100	QPSK	1	137	11.87	11.69	11.68			
100	QPSK	1	271	11.65	11.55	11.74			
100	QPSK	135	0	11.82	11.82	11.78	13.0	0.0	
100	QPSK	135	69	11.58	12.03	11.62	13.0	0.0	
100	QPSK	135	138	11.75	11.61	11.74			
100	QPSK	270	0	11.72	11.96	11.67	13.0	0.0	
100	16QAM	1	1	11.55	11.81	11.78	13.0	0.0	
100	64QAM	1	1	11.61	11.69	11.80	13.0	0.0	
100	256QAM	1	1	11.77	11.80	11.63	13.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	13.0	0.0	
90	QPSK	1	1	11.86	11.78	11.85	13.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	13.0	0.0	
80	QPSK	1	1	11.82	11.93	11.78	13.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945	13.0	0.0	
70	QPSK	1	1	11.77	11.87	11.81	13.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	13.0	0.0	
60	QPSK	1	1	11.66	11.86	11.80	13.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	13.0	0.0	
50	QPSK	1	1	11.69	11.95	11.77	13.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	13.0	0.0	
40	QPSK	1	1	11.66	11.79	11.73	13.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	13.0	0.0	
30	QPSK	1	1	11.86	11.76	11.89	13.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	13.0	0.0	
20	QPSK	1	1	11.77	11.92	11.79	13.0	0.0	

Part270 n78 PC2&PC3 Ant3									
BW [MHz]	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		11.80		13.0	0.0	
100	PI/2 BPSK	1	137		11.70				
100	PI/2 BPSK	1	271		11.64				
100	PI/2 BPSK	135	0		11.76		13.0	0.0	
100	PI/2 BPSK	135	69		11.59		13.0	0.0	
100	PI/2 BPSK	135	138		11.72		13.0	0.0	
100	PI/2 BPSK	270	0		11.36				
100	QPSK	1	1		11.89		13.0	0.0	
100	QPSK	1	137		11.87				
100	QPSK	1	271		11.52				
100	QPSK	135	0		11.72		13.0	0.0	
100	QPSK	135	69		11.81		13.0	0.0	
100	QPSK	135	138		11.58				
100	QPSK	270	0		11.76		13.0	0.0	
100	16QAM	1	1		11.84		13.0	0.0	
100	64QAM	1	1		11.63		13.0	0.0	
100	256QAM	1	1		11.80		13.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	13.0	0.0	
90	QPSK	1	1	11.67	11.70	11.57	13.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	13.0	0.0	
80	QPSK	1	1	11.53	11.71	11.49	13.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	13.0	0.0	
70	QPSK	1	1	11.51	11.66	11.53	13.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	13.0	0.0	
60	QPSK	1	1	11.59	11.87	11.57	13.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	13.0	0.0	
50	QPSK	1	1	11.71	11.81	11.49	13.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	13.0	0.0	
40	QPSK	1	1	11.48	11.75	11.58	13.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	13.0	0.0	
30	QPSK	1	1	11.66	11.85	11.45	13.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	13.0	0.0	
20	QPSK	1	1	11.48	11.75	11.61	13.0	0.0	



### n7 Ant5

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	Pi/2 BPSK	1	1	18.62	18.77	18.66		
40	Pi/2 BPSK	1	108	18.59	18.74	18.55	19.8	0.0
40	Pi/2 BPSK	1	214	18.72	18.82	18.59		
40	Pi/2 BPSK	108	0	18.61	18.73	18.51	19.8	0.0
40	Pi/2 BPSK	108	54	18.53	18.69	18.50	19.8	0.0
40	Pi/2 BPSK	108	108	18.71	18.81	18.59		
40	Pi/2 BPSK	216	0	18.59	18.73	18.52	19.8	0.0
40	QPSK	1	1	18.78	18.89	18.72		
40	QPSK	1	108	18.61	18.76	18.56	19.8	0.0
40	QPSK	1	214	18.63	18.79	18.66		
40	QPSK	108	0	18.59	18.71	18.59	19.8	0.0
40	QPSK	108	54	18.65	18.76	18.56	19.8	0.0
40	QPSK	108	108	18.56	18.73	18.61		
40	QPSK	216	0	18.66	18.76	18.63	19.8	0.0
40	16QAM	1	1	18.41	18.51	18.29	19.8	0.0
40	64QAM	1	1	18.50	18.57	18.42	19.8	0.0
40	256QAM	1	1	18.18	18.34	18.16	19.5	0.3
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.63	18.77	18.64	19.8	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.65	18.85	18.68	19.8	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	18.72	18.79	18.60	19.8	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.70	18.82	18.65	19.8	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.65	18.76	18.68	19.8	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.64	18.81	18.63	19.8	0.0



### Part270 n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.31	18.36	18.25		
100	PI2 BPSK	1	137	18.22	18.32	18.21		0.0
100	PI2 BPSK	1	271	18.06	18.23	18.16		
100	PI2 BPSK	135	0	17.76	17.89	17.85	19.5	0.5
100	PI2 BPSK	135	69	18.23	18.31	18.27	19.5	0.0
100	PI2 BPSK	135	138	17.73	17.84	17.70	19.0	0.5
100	PI2 BPSK	270	0	17.77	17.92	17.82		
100	QPSK	1	1	18.32	18.42	18.27		
100	QPSK	1	137	18.31	18.38	18.34	19.5	0.0
100	QPSK	1	271	18.23	18.30	18.24		
100	QPSK	135	0	17.43	17.48	17.45	18.5	1.0
100	QPSK	135	69	18.22	18.29	18.20	19.5	0.0
100	QPSK	135	138	17.30	17.38	17.23	18.5	1.0
100	QPSK	270	0	17.34	17.42	17.32		
100	16QAM	1	1	17.25	17.29	17.23	18.5	1.0
100	16QAM	1	1	15.62	15.77	15.63	17.0	2.5
100	256QAM	1	1	13.34	13.43	13.31	15.0	4.5
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.21	18.35	18.20	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.18	18.29	18.14	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.18	18.32	18.22	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.25	18.31	18.19	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.24	18.37	18.23	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.25	18.38	18.15	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.22	18.34	18.21	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.29	18.28	18.19	19.5	0.0

### Part270 n77 PC2 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	21.05	21.07	21.02		
100	PI2 BPSK	1	137	20.80	21.10	20.96	22.3	0.0
100	PI2 BPSK	1	271	20.83	20.93	20.77		
100	PI2 BPSK	135	0	20.42	20.59	20.68	22.0	0.3
100	PI2 BPSK	135	69	21.03	20.93	21.02	22.3	0.0
100	PI2 BPSK	135	138	20.42	20.70	20.49	22.0	0.3
100	PI2 BPSK	270	0	20.67	20.65	20.47		
100	QPSK	1	1	21.07	21.16	21.06		
100	QPSK	1	137	20.95	21.12	20.99	22.3	0.0
100	QPSK	1	271	20.95	20.97	20.93		
100	QPSK	135	0	20.08	20.23	20.18	21.5	0.8
100	QPSK	135	69	20.89	21.16	20.77	22.3	0.0
100	QPSK	135	138	18.84	20.05	19.88	21.5	0.8
100	QPSK	270	0	18.98	20.15	19.97		
100	16QAM	1	1	20.02	19.92	19.91	21.5	0.8
100	16QAM	1	1	18.28	18.39	18.21	20.2	1.8
100	256QAM	1	1	16.01	16.08	16.10	18.0	4.3
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.99	20.94	20.96	22.3	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.87	21.05	20.87	22.3	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.04	21.05	20.83	22.3	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.03	21.13	21.02	22.3	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.88	20.98	20.90	22.3	0.0
Channel								
Frequency (MHz)				3720.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.02	21.12	20.94	22.3	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.84	21.01	20.84	22.3	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.93	21.01	20.95	22.3	0.0

### Part270 n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		18.78			
100	PI2 BPSK	1	137		18.81		19.5	0.0
100	PI2 BPSK	1	271		18.53			
100	PI2 BPSK	135	0		18.25		19.0	0.5
100	PI2 BPSK	135	69		18.64		19.5	0.0
100	PI2 BPSK	135	138		17.93		19.0	0.5
100	PI2 BPSK	270	0		18.01			
100	QPSK	1	1		18.83		19.5	0.0
100	QPSK	1	137		18.77			
100	QPSK	1	271		18.49			
100	QPSK	135	0		17.75		18.5	1.0
100	QPSK	135	69		18.53		19.5	0.0
100	QPSK	135	138		17.46		18.5	1.0
100	QPSK	270	0		17.52			
100	16QAM	1	1		17.82		18.5	1.0
100	16QAM	1	1		16.48		17.0	2.5
100	256QAM	1	1		14.06		15.0	4.5
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.79	18.75	18.71	19.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.73	18.80	18.70	19.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.78	18.71	18.77	19.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.72	18.69	18.77	19.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.78	18.73	18.70	19.5	0.0
Channel								
Frequency (MHz)				3720.02	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.72	18.77	18.75	19.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.79	18.69	18.73	19.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.77	18.74	18.75	19.5	0.0



**Part270 n78 PC2 Ant5**

BW [MHz]	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	PI2 BPSK	1	1		19.74				
100	PI2 BPSK	1	137		19.67		21.0	0.0	
100	PI2 BPSK	1	271		19.53		20.5	0.5	
100	PI2 BPSK	135	0		19.32		21.0	0.0	
100	PI2 BPSK	135	69		19.66		20.5	0.5	
100	PI2 BPSK	135	138		18.98				
100	PI2 BPSK	270	0		18.99				
100	QPSK	1	1		19.84				
100	QPSK	1	137		19.79		21.0	0.0	
100	QPSK	1	271		19.49				
100	QPSK	135	0		18.70		20.0	1.0	
100	QPSK	135	69		19.51		21.0	0.0	
100	QPSK	135	138		18.47		20.0	1.0	
100	QPSK	270	0		18.59				
100	16QAM	1	1		18.78		20.0	1.0	
100	16QAM	1	1		17.51		18.5	2.5	
100	256QAM	1	1		15.11		16.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.74	19.70	19.76	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.69	19.75	19.73	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		19.71	19.69	19.70	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		19.70	19.78	19.74	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.77	19.71	19.79	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.72	19.77	19.79	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		19.74	19.73	19.76	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.78	19.72	19.73	21.0	0.0





Part270 n77 PC2&PC3 Ant7									
BW [MHz]	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	16.57	16.54	16.73	17.9	0.0	
100	PI/2 BPSK	1	137	16.55	16.63	16.84			
100	PI/2 BPSK	1	271	16.82	16.80	16.58			
100	PI/2 BPSK	135	0	16.66	16.79	16.69	17.9	0.0	
100	PI/2 BPSK	135	69	16.56	16.70	16.72	17.9	0.0	
100	PI/2 BPSK	135	138	16.67	16.62	16.72	17.9	0.0	
100	PI/2 BPSK	270	0	16.65	16.74	16.70			
100	QPSK	1	1	16.97	17.00	16.91			
100	QPSK	1	137	16.63	16.66	16.56	17.9	0.0	
100	QPSK	1	271	16.74	16.69	16.60			
100	QPSK	135	0	16.57	16.72	16.74	17.9	0.0	
100	QPSK	135	69	16.81	16.98	16.74	17.9	0.0	
100	QPSK	135	138	16.62	16.55	16.69			
100	QPSK	270	0	16.68	16.90	16.69	17.9	0.0	
100	16QAM	1	1	16.66	16.65	16.87	17.9	0.0	
100	64QAM	1	1	16.20	16.38	16.28	17.9	0.0	
100	256QAM	1	1	14.58	14.59	14.74	16.5	1.4	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.71	16.68	16.81	17.9	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.73	16.80	16.63	17.9	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3940	3945			
70	QPSK	1	1	16.67	16.63	16.51	17.9	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.68	16.63	16.63	17.9	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.74	16.59	16.71	17.9	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.75	16.73	16.73	17.9	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.83	16.62	16.82	17.9	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.81	16.79	16.67	17.9	0.0	

Part270 n78 PC2&PC3 Ant7									
BW [MHz]	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		16.49				
100	PI/2 BPSK	1	137		16.71		17.9	0.0	
100	PI/2 BPSK	1	271		16.67				
100	PI/2 BPSK	135	0		16.65		17.9	0.0	
100	PI/2 BPSK	135	69		16.74		17.9	0.0	
100	PI/2 BPSK	135	138		16.62		17.9	0.0	
100	PI/2 BPSK	270	0		16.62				
100	QPSK	1	1		16.83				
100	QPSK	1	137		16.52		17.9	0.0	
100	QPSK	1	271		16.48				
100	QPSK	135	0		16.71		17.9	0.0	
100	QPSK	135	69		16.77		17.9	0.0	
100	QPSK	135	138		16.37		17.9	0.0	
100	QPSK	270	0		16.71		17.9	0.0	
100	16QAM	1	1		16.54		17.9	0.0	
100	64QAM	1	1		16.10		17.9	0.0	
100	256QAM	1	1		14.59		16.5	1.4	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.52	16.57	16.66	17.9	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	16.39	16.63	16.59	17.9	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	16.36	16.54	16.50	17.9	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	16.39	16.64	16.55	17.9	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	16.35	16.43	16.46	17.9	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	16.38	16.51	16.47	17.9	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	16.55	16.64	16.61	17.9	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	16.36	16.60	16.60	17.9	0.0	



Reduced Power Mode for DS16

n5 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	Pi/2 BPSK	1	1	22.75	22.81	22.69		
20	Pi/2 BPSK	1	53	22.53	22.68	22.59	24.0	0.0
20	Pi/2 BPSK	1	104	22.49	22.62	22.57		
20	Pi/2 BPSK	50	0	22.22	22.32	22.23	23.5	0.5
20	Pi/2 BPSK	50	28	22.57	22.67	22.58	24.0	0.0
20	Pi/2 BPSK	50	56	22.07	22.16	22.02		
20	Pi/2 BPSK	100	0	22.27	22.34	22.22	23.5	0.5
20	QPSK	1	1	22.87	22.88	22.82		
20	QPSK	1	53	22.64	22.71	22.65	24.0	0.0
20	QPSK	1	104	22.40	22.54	22.51		
20	QPSK	50	0	21.75	21.86	21.80	23.0	1.0
20	QPSK	50	28	22.60	22.71	22.66	24.0	0.0
20	QPSK	50	56	21.67	21.75	21.61		
20	QPSK	100	0	21.72	21.83	21.72	23.0	1.0
20	16QAM	1	1	21.64	21.76	21.70	23.0	1.0
20	64QAM	1	1	20.20	20.34	20.27	21.5	2.5
20	256QAM	1	1	18.14	18.29	18.17	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.74	22.83	22.70	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.76	22.79	22.75	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.77	22.85	22.69	24.0	0.0



### n5 Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.19	23.25	23.21		
20	PI/2 BPSK	1	53	23.10	23.19	23.13	24.0	0.0
20	PI/2 BPSK	1	104	22.91	23.02	22.95		
20	PI/2 BPSK	50	0	22.57	22.66	22.54	23.5	0.5
20	PI/2 BPSK	50	28	22.92	22.99	22.87	24.0	0.0
20	PI/2 BPSK	50	56	22.45	22.49	22.41	23.5	0.5
20	PI/2 BPSK	100	0	22.56	22.63	22.57		
20	QPSK	1	1	23.23	23.28	23.19		
20	QPSK	1	53	22.84	22.98	22.90	24.0	0.0
20	QPSK	1	104	22.75	22.85	22.72		
20	QPSK	50	0	22.08	22.15	22.01	23.0	1.0
20	QPSK	50	28	22.88	23.01	22.92	24.0	0.0
20	QPSK	50	56	21.91	22.01	21.96	23.0	1.0
20	QPSK	100	0	22.20	22.25	22.14		
20	16QAM	1	1	22.13	22.24	22.20	23.0	1.0
20	64QAM	1	1	21.18	21.31	21.17	21.5	2.5
20	256QAM	1	1	18.66	18.72	18.58	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.23	23.12	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.10	23.15	23.07	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	833.5	840.5		
5	QPSK	1	1	23.11	23.18	23.09	24.0	0.0



Part270 n77 PC2&PC3 Ant2									
BW [MHz]	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	18.71	18.73	18.65			
100	PI/2 BPSK	1	137	18.64	18.69	18.59	20.1	0.0	
100	PI/2 BPSK	1	271	18.84	18.91	18.85			
100	PI/2 BPSK	135	0	18.70	18.78	18.74	20.1	0.0	
100	PI/2 BPSK	135	69	18.72	18.81	18.70	20.1	0.0	
100	PI/2 BPSK	135	138	18.87	18.89	18.76	20.1	0.0	
100	PI/2 BPSK	270	0	18.63	18.74	18.67			
100	QPSK	1	1	18.95	18.97	18.84			
100	QPSK	1	137	18.78	18.91	18.81	20.1	0.0	
100	QPSK	1	271	18.69	18.80	18.78			
100	QPSK	135	0	18.66	18.73	18.69	20.1	0.0	
100	QPSK	135	69	18.92	18.95	18.85	20.1	0.0	
100	QPSK	135	138	18.80	18.85	18.73			
100	QPSK	270	0	18.74	18.86	18.84	20.1	0.0	
100	16QAM	1	1	18.64	18.71	18.63	20.1	0.0	
100	64QAM	1	1	18.64	18.78	18.71	20.1	0.0	
100	256QAM	1	1	18.39	18.41	18.30	19.5	0.6	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.73	18.87	18.86	20.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.89	18.82	18.91	20.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.93	18.98	18.98	20.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.75	18.82	18.89	20.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.70	18.89	18.86	20.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.90	18.72	18.74	20.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.81	18.91	18.85	20.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.73	18.80	18.71	20.1	0.0	

Part270 n78 PC2&PC3 Ant2									
BW [MHz]	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		18.50				
100	PI/2 BPSK	1	137		18.29		20.1	0.0	
100	PI/2 BPSK	1	271		18.42				
100	PI/2 BPSK	135	0		18.35		20.1	0.0	
100	PI/2 BPSK	135	69		18.44		20.1	0.0	
100	PI/2 BPSK	135	138		18.29		20.1	0.0	
100	PI/2 BPSK	270	0		18.45				
100	QPSK	1	1		18.52				
100	QPSK	1	137		18.40		20.1	0.0	
100	QPSK	1	271		18.37				
100	QPSK	135	0		18.41		20.1	0.0	
100	QPSK	135	69		18.44		20.1	0.0	
100	QPSK	135	138		18.37		20.1	0.0	
100	QPSK	270	0		18.42		20.1	0.0	
100	16QAM	1	1		18.35		20.1	0.0	
100	64QAM	1	1		18.44		20.1	0.0	
100	256QAM	1	1		18.07		19.5	0.6	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.36	18.42	18.40	20.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.43	18.33	18.43	20.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.47	18.51	18.33	20.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.51	18.38	18.34	20.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.41	18.44	18.30	20.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.38	18.41	18.43	20.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.46	18.38	18.47	20.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.40	18.28	18.42	20.1	0.0	



Part270 n77 PC2&PC3 Ant3									
BW [MHz]	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	15.65	15.73	15.61	17.0	0.0	
100	PI/2 BPSK	1	137	15.62	15.61	15.74			
100	PI/2 BPSK	1	271	15.62	15.81	15.58			
100	PI/2 BPSK	135	0	15.82	15.77	15.62	17.0	0.0	
100	PI/2 BPSK	135	69	15.67	15.71	15.69	17.0	0.0	
100	PI/2 BPSK	135	138	15.83	15.79	15.64	17.0	0.0	
100	PI/2 BPSK	270	0	15.68	15.79	15.72			
100	QPSK	1	1	15.81	15.88	15.86			
100	QPSK	1	137	15.72	15.70	15.81	17.0	0.0	
100	QPSK	1	271	15.81	15.63	15.71			
100	QPSK	135	0	15.71	15.63	15.75	17.0	0.0	
100	QPSK	135	69	15.80	15.81	15.73	17.0	0.0	
100	QPSK	135	138	15.71	15.59	15.71	17.0	0.0	
100	QPSK	270	0	15.67	15.75	15.66	17.0	0.0	
100	16QAM	1	1	15.70	15.81	15.70	17.0	0.0	
100	64QAM	1	1	15.73	15.75	15.76	17.0	0.0	
100	256QAM	1	1	15.84	15.82	15.68	17.0	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01	17.0	0.0	
90	QPSK	1	1	15.64	15.60	15.75	17.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	17.0	0.0	
80	QPSK	1	1	15.75	15.81	15.69	17.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	17.0	0.0	
70	QPSK	1	1	15.80	15.69	15.67	17.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	17.0	0.0	
60	QPSK	1	1	15.71	15.64	15.75	17.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	17.0	0.0	
50	QPSK	1	1	15.81	15.79	15.75	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	17.0	0.0	
40	QPSK	1	1	15.65	15.59	15.75	17.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	17.0	0.0	
30	QPSK	1	1	15.69	15.78	15.72	17.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	17.0	0.0	
20	QPSK	1	1	15.76	15.59	15.59	17.0	0.0	

Part270 n78 PC2&PC3 Ant3									
BW [MHz]	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		15.73				
100	PI/2 BPSK	1	137		15.65		17.0	0.0	
100	PI/2 BPSK	1	271		15.66				
100	PI/2 BPSK	135	0		15.59		17.0	0.0	
100	PI/2 BPSK	135	69		15.71		17.0	0.0	
100	PI/2 BPSK	135	138		15.59		17.0	0.0	
100	PI/2 BPSK	270	0		15.59				
100	QPSK	1	1		15.77				
100	QPSK	1	137		15.68		17.0	0.0	
100	QPSK	1	271		15.71				
100	QPSK	135	0		15.56		17.0	0.0	
100	QPSK	135	69		15.75		17.0	0.0	
100	QPSK	135	138		15.81		17.0	0.0	
100	QPSK	270	0		15.72		17.0	0.0	
100	16QAM	1	1		15.88		17.0	0.0	
100	64QAM	1	1		15.71		17.0	0.0	
100	256QAM	1	1		15.88		17.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	17.0	0.0	
90	QPSK	1	1	15.60	15.66	15.62	17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02	17.0	0.0	
80	QPSK	1	1	15.70	15.75	15.72	17.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	17.0	0.0	
70	QPSK	1	1	15.89	15.76	15.53	17.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01	17.0	0.0	
60	QPSK	1	1	15.63	15.57	15.86	17.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02	17.0	0.0	
50	QPSK	1	1	15.74	15.55	15.58	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780	17.0	0.0	
40	QPSK	1	1	15.62	15.62	15.73	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01	17.0	0.0	
30	QPSK	1	1	15.64	15.62	15.73	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02	17.0	0.0	
20	QPSK	1	1	15.65	15.68	15.75	17.0	0.0	



### n7 Ant5

Channel	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	Pi/2 BPSK	1	1	19.68	19.71	19.72	20.5	0.0
40	Pi/2 BPSK	1	108	19.69	19.77	19.71		
40	Pi/2 BPSK	1	214	19.70	19.73	19.76		
40	Pi/2 BPSK	108	0	19.71	19.73	19.74	20.5	0.0
40	Pi/2 BPSK	108	54	19.68	19.75	19.72	20.5	0.0
40	Pi/2 BPSK	108	108	19.76	19.78	19.70	20.5	0.0
40	Pi/2 BPSK	216	0	19.63	19.75	19.79		
40	QPSK	1	1	19.74	19.81	19.79	20.5	0.0
40	QPSK	1	108	19.68	19.75	19.72		
40	QPSK	1	214	19.70	19.79	19.72		
40	QPSK	108	0	18.72	18.76	18.76	19.5	1.0
40	QPSK	108	54	19.72	19.74	19.69	20.5	0.0
40	QPSK	108	108	18.65	18.71	18.65	19.5	1.0
40	QPSK	216	0	18.65	18.77	18.70		
40	16QAM	1	1	19.49	19.55	19.48	20.5	0.0
40	64QAM	1	1	19.51	19.53	19.53	20.5	0.0
40	256QAM	1	1	18.45	18.50	18.53	19.5	1.0
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555					
30	QPSK	1	1	19.69	19.73	19.75	20.5	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5					
25	QPSK	1	1	19.78	19.79	19.74	20.5	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560					
20	QPSK	1	1	19.66	19.76	19.72	20.5	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	19.69	19.74	19.80	20.5	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	19.74	19.77	19.72	20.5	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	19.77	19.76	19.76	20.5	0.0



### Part270 n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.31	18.36	18.25		
100	PI2 BPSK	1	137	18.22	18.32	18.21	19.5	0.0
100	PI2 BPSK	1	271	18.08	18.23	18.18		
100	PI2 BPSK	135	0	17.76	17.89	17.85	19.0	0.5
100	PI2 BPSK	135	69	18.23	18.31	18.27	19.5	0.0
100	PI2 BPSK	135	138	17.73	17.84	17.70	19.0	0.5
100	PI2 BPSK	270	0	17.77	17.82	17.82		
100	QPSK	1	1	18.32	18.42	18.27		
100	QPSK	1	137	18.31	18.36	18.34	19.5	0.0
100	QPSK	1	271	18.23	18.30	18.24		
100	QPSK	135	0	17.43	17.48	17.45	18.5	1.0
100	QPSK	135	69	18.22	18.29	18.20	19.5	0.0
100	QPSK	135	138	17.30	17.35	17.23	18.5	1.0
100	QPSK	270	0	17.34	17.42	17.32	18.5	1.0
100	16QAM	1	1	17.25	17.29	17.23	18.5	1.0
100	16QAM	1	1	15.62	15.77	15.63	17.0	2.5
100	25QAM	1	1	13.94	13.43	13.31	15.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.21	18.35	18.20	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.18	18.29	18.14	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.16	18.32	18.22	19.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.25	18.31	18.19	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.24	18.37	18.23	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.25	18.38	18.15	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.22	18.34	18.21	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.26	18.26	18.19	19.5	0.0

### Part270 n77 PC2 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.44	21.56	21.41		
100	PI2 BPSK	1	137	21.39	21.57	21.42	22.5	0.0
100	PI2 BPSK	1	271	21.23	21.45	21.38		
100	PI2 BPSK	135	0	20.84	21.11	21.08	22.0	0.5
100	PI2 BPSK	135	69	21.52	21.54	21.58	22.5	0.0
100	PI2 BPSK	135	138	20.99	21.12	20.98	22.0	0.5
100	PI2 BPSK	270	0	21.07	21.11	21.04		
100	QPSK	1	1	21.55	21.62	21.50		
100	QPSK	1	137	21.48	21.51	21.52	22.5	0.0
100	QPSK	1	271	21.52	21.45	21.40		
100	QPSK	135	0	20.58	20.61	20.68	21.5	1.0
100	QPSK	135	69	21.38	21.90	21.37	22.5	0.0
100	QPSK	135	138	20.44	20.45	20.38	21.5	1.0
100	QPSK	270	0	20.48	20.54	20.46		
100	16QAM	1	1	20.45	20.46	20.44	21.5	1.0
100	16QAM	1	1	18.79	18.90	18.80	20.0	2.5
100	25QAM	1	1	16.57	16.60	16.53	18.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.49	21.54	21.37	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.40	21.58	21.49	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.43	21.46	21.47	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.49	21.55	21.43	22.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.46	21.42	21.44	22.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.45	21.55	21.42	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.42	21.40	21.35	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.40	21.53	21.40	22.5	0.0

### Part270 n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.78	18.78	18.78		
100	PI2 BPSK	1	137	18.61	18.61	18.61	19.5	0.0
100	PI2 BPSK	1	271	18.53	18.53	18.53		
100	PI2 BPSK	135	0	18.25	18.25	18.25	19.0	0.5
100	PI2 BPSK	135	69	18.64	18.64	18.64	19.5	0.0
100	PI2 BPSK	135	138	17.93	17.93	17.93	19.0	0.5
100	PI2 BPSK	270	0	18.01	18.01	18.01		
100	QPSK	1	1	18.63	18.63	18.63		
100	QPSK	1	137	18.75	18.75	18.75	19.5	0.0
100	QPSK	1	271	18.49	18.49	18.49		
100	QPSK	135	0	17.75	17.75	17.75	18.5	1.0
100	QPSK	135	69	18.53	18.53	18.53	19.5	0.0
100	QPSK	135	138	17.46	17.46	17.46	18.5	1.0
100	QPSK	270	0	17.50	17.50	17.50	18.5	1.0
100	16QAM	1	1	17.82	17.82	17.82	18.5	1.0
100	16QAM	1	1	16.48	16.48	16.48	17.0	2.5
100	25QAM	1	1	14.00	14.00	14.00	15.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.79	18.75	18.71	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.73	18.80	18.76	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.76	18.71	18.77	19.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.72	18.69	18.77	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.78	18.73	18.70	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.72	18.77	18.75	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.73	18.69	18.73	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.77	18.74	18.75	19.5	0.0



**Part270 n78 PC2 Ant5**

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000		
Channel				3750	3750	3750		
Frequency (MHz)								
100	PI2 BPSK	1	1	19.74				
100	PI2 BPSK	1	137	19.57			21.0	0.0
100	PI2 BPSK	1	271	19.53				
100	PI2 BPSK	135	0	19.32			20.5	0.5
100	PI2 BPSK	135	69	19.46			21.0	0.0
100	PI2 BPSK	135	138	18.98			20.5	0.5
100	PI2 BPSK	270	0	18.99				
100	QPSK	1	1	19.64				
100	QPSK	1	137	19.79			21.0	0.0
100	QPSK	1	271	19.49				
100	QPSK	135	0	18.70			20.0	1.0
100	QPSK	135	69	19.51			21.0	0.0
100	QPSK	135	138	18.47			20.0	1.0
100	QPSK	270	0	18.55				
100	16QAM	1	1	18.78			20.0	1.0
100	64QAM	1	1	17.51			18.5	2.5
100	256QAM	1	1	15.11			16.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.74	19.70	19.76	21.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3742.91	3750	3752.92		
80	QPSK	1	1	19.69	19.75	19.73	21.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.21	19.69	19.20	21.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	19.70	19.76	19.74	21.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.91	3750	3755.02		
50	QPSK	1	1	19.77	19.71	19.79	21.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.72	19.77	19.79	21.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.74	19.73	19.73	21.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.91	3750	3790.02		
20	QPSK	1	1	19.78	19.72	19.73	21.0	0.0





### Part270 n77 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.37	19.42	19.44		
100	PI2 BPSK	1	137	19.20	19.29	19.28	21.0	0.0
100	PI2 BPSK	1	271	19.17	19.29	19.15		
100	PI2 BPSK	135	0	19.55	19.56	19.58	20.5	0.5
100	PI2 BPSK	135	69	19.28	19.32	19.24	21.0	0.0
100	PI2 BPSK	135	138	19.62	19.54	18.61	20.5	0.5
100	PI2 BPSK	270	0	19.56	19.62	18.65		
100	QPSK	1	1	19.40	19.49	19.42		
100	QPSK	1	137	19.41	19.47	19.27	21.0	0.0
100	QPSK	1	271	19.29	19.35	19.28		
100	QPSK	135	0	19.42	19.55	18.35	20.0	1.0
100	QPSK	135	69	19.28	19.44	19.39	21.0	0.0
100	QPSK	135	138	19.28	19.42	18.35	20.0	1.0
100	QPSK	270	0	19.41	19.45	18.44		
100	16QAM	1	1	18.09	18.17	18.07	20.0	1.0
100	16QAM	1	1	16.58	16.70	16.66	18.5	2.5
100	256QAM	1	1	14.76	14.91	14.74	16.5	4.5
Channel				649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.36	19.36	19.35	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.27	19.35	19.34	21.0	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.27	19.42	19.39	21.0	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.31	19.40	19.39	21.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.31	19.37	19.31	21.0	0.0
Channel				647668	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.34	19.43	19.37	21.0	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	19.27	19.44	19.39	21.0	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.34	19.36	19.30	21.0	0.0

### Part270 n77 PC2 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.61	19.77	19.62		
100	PI2 BPSK	1	137	19.61	19.80	19.67	21.5	0.0
100	PI2 BPSK	1	271	19.61	19.83	19.74		
100	PI2 BPSK	135	0	19.55	19.70	19.57	21.5	0.0
100	PI2 BPSK	135	69	19.57	19.73	19.54	21.5	0.0
100	PI2 BPSK	135	138	19.59	19.62	19.70	21.5	0.0
100	PI2 BPSK	270	0	19.66	19.80	19.74		
100	QPSK	1	1	19.79	19.93	19.81		
100	QPSK	1	137	19.54	19.65	19.67	21.5	0.0
100	QPSK	1	271	19.53	19.82	19.62		
100	QPSK	135	0	19.64	19.89	19.59	21.5	0.0
100	QPSK	135	69	19.63	19.88	19.59	21.5	0.0
100	QPSK	135	138	19.63	19.81	19.71	21.5	0.0
100	QPSK	270	0	19.68	19.83	19.64		
100	16QAM	1	1	19.59	19.66	19.73	21.5	0.0
100	16QAM	1	1	19.58	19.81	19.71	21.5	0.0
100	256QAM	1	1	18.02	17.97	18.13	19.5	2.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.61	19.65	19.57	21.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.64	19.69	19.77	21.5	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.66	19.71	19.56	21.5	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.56	19.82	19.74	21.5	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.55	19.76	19.77	21.5	0.0
Channel				647668	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.58	19.62	19.59	21.5	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	19.55	19.74	19.65	21.5	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.59	19.78	19.81	21.5	0.0

### Part270 n78 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3750	3750	3750				
100	PI2 BPSK	1	1			19.49				
100	PI2 BPSK	1	137			19.41	21.0	0.0		
100	PI2 BPSK	1	271			19.46				
100	PI2 BPSK	135	0			19.95	20.5	0.5		
100	PI2 BPSK	135	69			19.43	21.0	0.0		
100	PI2 BPSK	135	138			19.02	20.5	0.5		
100	PI2 BPSK	270	0			19.06				
100	QPSK	1	1			19.00				
100	QPSK	1	137			19.55	21.0	0.0		
100	QPSK	1	271			19.58				
100	QPSK	135	0			18.71	20.0	1.0		
100	QPSK	135	69			19.56	21.0	0.0		
100	QPSK	135	138			18.50	20.0	1.0		
100	QPSK	270	0			19.59				
100	16QAM	1	1			18.62	20.0	1.0		
100	16QAM	1	1			16.90	18.5	2.5		
100	256QAM	1	1			15.31	16.5	4.5		
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1			19.52	19.49	19.46	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1			19.42	19.39	19.40	21.0	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1			19.47	19.50	19.46	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1			19.50	19.44	19.42	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1			19.44	19.39	19.45	21.0	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1			19.50	19.42	19.46	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1			19.49	19.43	19.35	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1			19.49	19.39	19.38	21.0	0.0



**Part270 n78 PC2 Ant7**

BW [MHz]	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)				3760	3760	3760			
100	PI2 BPSK	1	1		19.65				
100	PI2 BPSK	1	137		19.62		21.5	0.0	
100	PI2 BPSK	1	271		19.64		21.5	0.0	
100	PI2 BPSK	135	0		19.53		21.5	0.0	
100	PI2 BPSK	135	69		19.55		21.5	0.0	
100	PI2 BPSK	135	138		19.67		21.5	0.0	
100	PI2 BPSK	270	0		19.73		21.5	0.0	
100	QPSK	1	1		19.74				
100	QPSK	1	137		19.58		21.5	0.0	
100	QPSK	1	271		19.64				
100	QPSK	135	0		19.65		21.5	0.0	
100	QPSK	135	69		19.73		21.5	0.0	
100	QPSK	135	138		19.64		21.5	0.0	
100	QPSK	270	0		19.68		21.5	0.0	
100	16QAM	1	1		19.54		21.5	0.0	
100	16QAM	1	1		19.71		21.5	0.0	
100	256QAM	1	1		18.00		19.5	2.0	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1		19.58	19.54	19.55	21.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1		19.59	19.71	19.54	21.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3736	3760	3765			
70	QPSK	1	1		19.55	19.68	19.54	21.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1		19.52	19.57	19.55	21.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1		19.51	19.68	19.55	21.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3760			
40	QPSK	1	1		19.54	19.62	19.54	21.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3760	3763.01			
30	QPSK	1	1		19.53	19.62	19.57	21.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3760.02			
20	QPSK	1	1		19.54	19.62	19.58	21.5	0.0



Reduced Power Mode for DSI 4

Part270 n77 PC2&PC3 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				850000	850000	860000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	21.35	21.36	21.24			
100	PI/2 BPSK	1	137	21.39	21.45	21.43	23.0	0.0	
100	PI/2 BPSK	1	271	21.40	21.51	21.41			
100	PI/2 BPSK	135	0	21.39	21.39	21.32	23.0	0.0	
100	PI/2 BPSK	135	69	21.33	21.44	21.39	23.0	0.0	
100	PI/2 BPSK	135	138	21.18	21.30	21.22	23.0	0.0	
100	PI/2 BPSK	270	0	21.30	21.31	21.29			
100	QPSK	1	1	21.76	21.82	21.75			
100	QPSK	1	137	21.42	21.47	21.38	23.0	0.0	
100	QPSK	1	271	21.26	21.36	21.32			
100	QPSK	135	0	21.31	21.35	21.33	23.0	0.0	
100	QPSK	135	69	21.68	21.76	21.69	23.0	0.0	
100	QPSK	135	138	21.39	21.47	21.37	23.0	0.0	
100	QPSK	270	0	21.64	21.70	21.68			
100	16QAM	1	1	21.35	21.40	21.39	23.0	0.0	
100	64QAM	1	1	19.77	19.78	19.77	21.5	1.5	
100	256QAM	1	1	18.69	18.71	18.65	19.5	3.5	
Channel				649688	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.70	21.72	21.61	23.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.64	21.77	21.63	23.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.66	21.75	21.71	23.0	0.0	
Channel				648688	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.62	21.78	21.65	23.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.62	21.69	21.68	23.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.62	21.71	21.65	23.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.65	21.74	21.62	23.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.65	21.69	21.60	23.0	0.0	

Part270 n78 PC2&PC3 Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				850000	850000	860000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		21.29				
100	PI/2 BPSK	1	137		21.32		23.0	0.0	
100	PI/2 BPSK	1	271		21.36				
100	PI/2 BPSK	135	0		21.26		23.0	0.0	
100	PI/2 BPSK	135	69		21.32		23.0	0.0	
100	PI/2 BPSK	135	138		21.16		23.0	0.0	
100	PI/2 BPSK	270	0		21.16				
100	QPSK	1	1		21.69				
100	QPSK	1	137		21.37		23.0	0.0	
100	QPSK	1	271		21.23				
100	QPSK	135	0		21.24		23.0	0.0	
100	QPSK	135	69		21.62		23.0	0.0	
100	QPSK	135	138		21.36		23.0	0.0	
100	QPSK	270	0		21.56				
100	16QAM	1	1		21.30		23.0	0.0	
100	64QAM	1	1		19.61		21.5	1.5	
100	256QAM	1	1		18.62		19.5	3.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.58	21.54	21.63	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.54	21.55	21.54	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.59	21.63	21.55	23.0	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.53	21.64	21.51	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	21.52	21.63	21.52	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.63	21.63	21.49	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.56	21.57	21.45	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.54	21.62	21.48	23.0	0.0	



### Part270 n77 PC2&PC3 Ant3

BW [MHz]	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	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	15.65	15.73	15.61	17.0	0.0
100	PI/2 BPSK	1	137	15.62	15.61	15.74		
100	PI/2 BPSK	1	271	15.62	15.81	15.58		
100	PI/2 BPSK	135	0	15.82	15.77	15.62	17.0	0.0
100	PI/2 BPSK	135	69	15.67	15.71	15.69	17.0	0.0
100	PI/2 BPSK	135	138	15.83	15.79	15.64	17.0	0.0
100	PI/2 BPSK	270	0	15.68	15.79	15.72		
100	QPSK	1	1	15.81	16.01	15.86	17.0	0.0
100	QPSK	1	137	15.72	15.70	15.81		
100	QPSK	1	271	15.81	15.63	15.71		
100	QPSK	135	0	15.71	15.63	15.75	17.0	0.0
100	QPSK	135	69	15.80	15.81	15.73	17.0	0.0
100	QPSK	135	138	15.71	15.59	15.71	17.0	0.0
100	QPSK	270	0	15.67	15.75	15.66		
100	16QAM	1	1	15.70	15.81	15.70	17.0	0.0
100	64QAM	1	1	15.73	15.75	15.76	17.0	0.0
100	256QAM	1	1	15.84	15.82	15.68	17.0	0.0
Channel				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.64	15.60	15.75	17.0	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.75	15.81	15.69	17.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3940	3945		
70	QPSK	1	1	15.80	15.69	15.67	17.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.71	15.64	15.75	17.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.81	15.79	15.75	17.0	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.65	15.59	15.75	17.0	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.69	15.78	15.72	17.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.76	15.59	15.59	17.0	0.0

### Part270 n78 PC2&PC3 Ant3

BW [MHz]	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		15.73		17.0	0.0
100	PI/2 BPSK	1	137		15.65			
100	PI/2 BPSK	1	271		15.66			
100	PI/2 BPSK	135	0		15.59		17.0	0.0
100	PI/2 BPSK	135	69		15.71		17.0	0.0
100	PI/2 BPSK	135	138		15.59		17.0	0.0
100	PI/2 BPSK	270	0		15.59			
100	QPSK	1	1		15.77		17.0	0.0
100	QPSK	1	137		15.68			
100	QPSK	1	271		15.71			
100	QPSK	135	0		15.55		17.0	0.0
100	QPSK	135	69		15.75		17.0	0.0
100	QPSK	135	138		15.61		17.0	0.0
100	QPSK	270	0		15.72			
100	16QAM	1	1		15.88		17.0	0.0
100	64QAM	1	1		15.71		17.0	0.0
100	256QAM	1	1		15.68		17.0	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	15.60	15.66	15.62	17.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3760	3760.02		
80	QPSK	1	1	15.70	15.75	15.72	17.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.89	15.76	15.53	17.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3760	3770.01		
60	QPSK	1	1	15.63	15.57	15.66	17.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3760	3775.02		
50	QPSK	1	1	15.74	15.55	15.58	17.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3760	3780		
40	QPSK	1	1	15.62	15.62	15.73	17.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3760	3785.01		
30	QPSK	1	1	15.64	15.62	15.73	17.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3760	3790.02		
20	QPSK	1	1	15.65	15.68	15.75	17.0	0.0



### Part270 n77 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.31	18.36	18.25		
100	PI2 BPSK	1	137	18.22	18.32	18.21	19.5	0.0
100	PI2 BPSK	1	271	18.08	18.23	18.18		
100	PI2 BPSK	135	0	17.76	17.89	17.85	19.0	0.5
100	PI2 BPSK	135	69	18.23	18.31	18.27	19.5	0.0
100	PI2 BPSK	135	138	17.73	17.84	17.70	19.0	0.5
100	PI2 BPSK	270	0	17.77	17.82	17.82		
100	QPSK	1	1	18.32	18.42	18.27		
100	QPSK	1	137	18.31	18.36	18.34	19.5	0.0
100	QPSK	1	271	18.23	18.30	18.24		
100	QPSK	135	0	17.43	17.48	17.45	18.5	1.0
100	QPSK	135	69	18.22	18.29	18.20	19.5	0.0
100	QPSK	135	138	17.30	17.35	17.23	18.5	1.0
100	QPSK	270	0	17.34	17.42	17.32	18.5	1.0
100	16QAM	1	1	17.25	17.29	17.23	18.5	1.0
100	16QAM	1	1	15.62	15.77	15.63	17.0	2.5
100	25QAM	1	1	13.94	13.43	13.31	15.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.21	18.35	18.20	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.18	18.29	18.14	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.16	18.32	18.22	19.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.25	18.31	18.19	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.24	18.37	18.23	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.25	18.38	18.15	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.22	18.34	18.21	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.26	18.26	18.19	19.5	0.0

### Part270 n77 PC2 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.44	21.56	21.41		
100	PI2 BPSK	1	137	21.39	21.57	21.42	22.5	0.0
100	PI2 BPSK	1	271	21.23	21.45	21.38		
100	PI2 BPSK	135	0	20.84	21.11	21.08	22.0	0.5
100	PI2 BPSK	135	69	21.52	21.54	21.58	22.5	0.0
100	PI2 BPSK	135	138	20.99	21.12	20.98	22.0	0.5
100	PI2 BPSK	270	0	21.07	21.11	21.04		
100	QPSK	1	1	21.55	21.62	21.50		
100	QPSK	1	137	21.48	21.51	21.52	22.5	0.0
100	QPSK	1	271	21.52	21.45	21.40		
100	QPSK	135	0	20.58	20.61	20.68	21.5	1.0
100	QPSK	135	69	21.38	21.90	21.37	22.5	0.0
100	QPSK	135	138	20.44	20.45	20.38	21.5	1.0
100	QPSK	270	0	20.48	20.54	20.46		
100	16QAM	1	1	20.45	20.46	20.44	21.5	1.0
100	16QAM	1	1	18.79	18.90	18.80	20.0	2.5
100	25QAM	1	1	16.57	16.60	16.53	18.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.49	21.54	21.37	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.40	21.58	21.49	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.48	21.46	21.47	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.49	21.55	21.43	22.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.46	21.42	21.44	22.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.45	21.55	21.42	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.42	21.60	21.50	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.40	21.53	21.40	22.5	0.0

### Part270 n78 Ant5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.78	18.78			
100	PI2 BPSK	1	137	18.61	18.61		19.5	0.0
100	PI2 BPSK	1	271	18.53	18.53			
100	PI2 BPSK	135	0	18.25	18.25		19.0	0.5
100	PI2 BPSK	135	69	18.64	18.64		19.5	0.0
100	PI2 BPSK	135	138	17.93	17.93		19.0	0.5
100	PI2 BPSK	270	0	18.01	18.01			
100	QPSK	1	1	18.63	18.63			
100	QPSK	1	137	18.75	18.75		19.5	0.0
100	QPSK	1	271	18.49	18.49			
100	QPSK	135	0	17.75	17.75		18.5	1.0
100	QPSK	135	69	18.53	18.53		19.5	0.0
100	QPSK	135	138	17.46	17.46		18.5	1.0
100	QPSK	270	0	17.50	17.50		18.5	1.0
100	16QAM	1	1	17.82	17.82		18.5	1.0
100	16QAM	1	1	16.48	16.48		17.0	2.5
100	25QAM	1	1	14.00	14.00		15.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.79	18.75	18.71	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.73	18.80	18.76	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.78	18.71	18.77	19.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.72	18.69	18.77	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.78	18.73	18.70	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.72	18.77	18.75	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.73	18.69	18.73	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.77	18.74	18.75	19.5	0.0



**Part270 n78 PC2 Ant5**

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000		
Channel				3750	3750	3750		
Frequency (MHz)								
100	PI2 BPSK	1	1	19.74			21.0	0.0
100	PI2 BPSK	1	137	19.57				
100	PI2 BPSK	1	271	19.53				
100	PI2 BPSK	135	0	19.32			20.5	0.5
100	PI2 BPSK	135	69	19.46			21.0	0.0
100	PI2 BPSK	135	138	18.98			20.5	0.5
100	PI2 BPSK	270	0	18.99				
100	QPSK	1	1	19.64			21.0	0.0
100	QPSK	1	137	19.79				
100	QPSK	1	271	19.49				
100	QPSK	135	0	18.70			20.0	1.0
100	QPSK	135	69	19.51			21.0	0.0
100	QPSK	135	138	18.47			20.0	1.0
100	QPSK	270	0	18.55				
100	16QAM	1	1	18.78			20.0	1.0
100	64QAM	1	1	17.51			18.5	2.5
100	256QAM	1	1	15.11			16.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.74	19.70	19.76	21.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3742.91	3750	3752.92		
80	QPSK	1	1	19.69	19.75	19.73	21.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.21	19.69	19.20	21.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	19.70	19.76	19.74	21.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.91	3750	3755.02		
50	QPSK	1	1	19.77	19.71	19.79	21.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3740		
40	QPSK	1	1	19.72	19.77	19.79	21.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3755.01		
30	QPSK	1	1	19.74	19.73	19.73	21.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.91	3750	3750.02		
20	QPSK	1	1	19.78	19.72	19.73	21.0	0.0



### Part270 n77 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
				3750	3840	3930		
100	PI2 BPSK	1	1	19.37	19.42	19.44		
100	PI2 BPSK	1	137	19.20	19.29	19.28	21.0	0.0
100	PI2 BPSK	1	271	19.17	19.29	19.15		
100	PI2 BPSK	135	0	18.55	18.56	18.58	20.5	0.5
100	PI2 BPSK	135	69	19.26	19.32	19.24	21.0	0.0
100	PI2 BPSK	135	138	18.62	18.54	18.61	20.5	0.5
100	PI2 BPSK	270	0	18.56	18.62	18.65		
100	QPSK	1	1	19.40	19.49	19.42		
100	QPSK	1	137	19.41	19.47	19.27	21.0	0.0
100	QPSK	1	271	19.29	19.35	19.29		
100	QPSK	135	0	18.42	18.55	18.35	20.0	1.0
100	QPSK	135	69	19.28	19.44	19.39	21.0	0.0
100	QPSK	135	138	18.28	18.42	18.35	20.0	1.0
100	QPSK	270	0	18.41	18.45	18.44		
100	16QAM	1	1	18.09	18.17	18.07	20.0	1.0
100	16QAM	1	1	18.58	18.70	18.68	18.5	2.5
100	25QAM	1	1	14.76	14.91	14.74	16.0	4.0
	Channel			64959	65000	65034	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3745.02	3840	3935.01	(dB)	
90	QPSK	1	1	19.36	19.36	19.36	21.0	0.0
	Channel			649334	650000	650688	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3740.01	3840	3940.02	(dB)	
80	QPSK	1	1	19.27	19.35	19.34	21.0	0.0
	Channel			649000	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3735	3840	3945	(dB)	
70	QPSK	1	1	20.21	20.42	20.33	21.5	0.0
	Channel			648968	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3730.02	3840	3950.01	(dB)	
60	QPSK	1	1	20.28	20.46	20.28	21.5	0.0
	Channel			648334	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3725.01	3840	3955.02	(dB)	
50	QPSK	1	1	20.22	20.37	20.32	21.5	0.0
	Channel			648000	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3720	3840	3950	(dB)	
40	QPSK	1	1	20.25	20.44	20.38	21.5	0.0
	Channel			647668	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3715.02	3840	3955.01	(dB)	
30	QPSK	1	1	20.27	20.41	20.35	21.0	0.0
	Channel			647334	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3710.01	3840	3970.02	(dB)	
20	QPSK	1	1	20.23	20.42	20.31	21.5	0.0

### Part270 n77 PC2 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
				650000	650000	650000		
100	PI2 BPSK	1	1	19.96	20.18	20.05		
100	PI2 BPSK	1	137	19.98	20.25	20.12	21.5	0.0
100	PI2 BPSK	1	271	20.07	20.07	20.09		
100	PI2 BPSK	135	0	19.97	20.11	20.00	21.5	0.0
100	PI2 BPSK	135	69	19.97	20.16	19.85	21.5	0.0
100	PI2 BPSK	135	138	19.96	20.00	20.15	21.5	0.0
100	PI2 BPSK	270	0	20.11	20.24	20.10		
100	QPSK	1	1	20.31	20.48	20.40		
100	QPSK	1	137	19.96	20.11	20.07	21.5	0.0
100	QPSK	1	271	19.97	20.27	19.96		
100	QPSK	135	0	20.04	20.14	19.97	21.5	0.0
100	QPSK	135	69	20.01	20.44	19.99	21.5	0.0
100	QPSK	135	138	20.08	20.25	20.15	21.5	0.0
100	QPSK	270	0	20.08	20.32	19.99		
100	16QAM	1	1	20.01	20.05	20.09	21.5	0.0
100	16QAM	1	1	19.97	20.18	20.09	21.5	0.0
100	25QAM	1	1	18.30	18.41	18.40	19.5	2.0
	Channel			64959	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3745.02	3840	3935.01	(dB)	
90	QPSK	1	1	20.23	20.37	20.34	21.5	0.0
	Channel			649334	650000	650688	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3740.01	3840	3940.02	(dB)	
80	QPSK	1	1	20.29	20.39	20.31	21.5	0.0
	Channel			649000	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3735	3840	3945	(dB)	
70	QPSK	1	1	20.30	20.42	20.33	21.5	0.0
	Channel			648968	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3730.02	3840	3950.01	(dB)	
60	QPSK	1	1	20.28	20.46	20.28	21.5	0.0
	Channel			648334	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3725.01	3840	3955.02	(dB)	
50	QPSK	1	1	20.22	20.37	20.32	21.5	0.0
	Channel			648000	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3720	3840	3950	(dB)	
40	QPSK	1	1	20.25	20.44	20.38	21.5	0.0
	Channel			647668	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3715.02	3840	3955.01	(dB)	
30	QPSK	1	1	20.27	20.41	20.35	21.0	0.0
	Channel			647334	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3710.01	3840	3970.02	(dB)	
20	QPSK	1	1	20.23	20.42	20.31	21.5	0.0

### Part270 n78 Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Tune-up limit (dBm)	MPR (dB)
				3750	3750	3750		
100	PI2 BPSK	1	1				19.49	
100	PI2 BPSK	1	137				19.41	21.0
100	PI2 BPSK	1	271				19.48	
100	PI2 BPSK	135	0				18.95	20.5
100	PI2 BPSK	135	69				19.43	21.0
100	PI2 BPSK	135	138				19.02	20.5
100	PI2 BPSK	270	0				18.06	
100	QPSK	1	1				19.60	
100	QPSK	1	137				19.58	21.0
100	QPSK	1	271				19.58	
100	QPSK	135	0				18.71	20.0
100	QPSK	135	69				19.56	21.0
100	QPSK	135	138				18.50	20.0
100	QPSK	270	0				18.50	
100	16QAM	1	1				18.62	20.0
100	16QAM	1	1				18.90	18.5
100	25QAM	1	1				15.21	16.5
	Channel			64968	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3745.02	3750	3755.01	(dB)	
90	QPSK	1	1	19.52	19.49	19.48	21.0	0.0
	Channel			649334	650000	650688	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3740.01	3750	3750.02	(dB)	
80	QPSK	1	1	19.42	19.39	19.46	21.0	0.0
	Channel			649000	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3735	3750	3765	(dB)	
70	QPSK	1	1	19.47	19.50	19.48	21.0	0.0
	Channel			648668	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3730.02	3750	3770.01	(dB)	
60	QPSK	1	1	19.50	19.44	19.42	21.0	0.0
	Channel			648334	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3725.01	3750	3775.02	(dB)	
50	QPSK	1	1	19.44	19.39	19.45	21.0	0.0
	Channel			648000	650000	650000	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3720	3750	3780	(dB)	
40	QPSK	1	1	19.50	19.42	19.46	21.0	0.0
	Channel			647668	650000	650334	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3715.02	3750	3785.01	(dB)	
30	QPSK	1	1	19.43	19.43	19.38	21.0	0.0
	Channel			647334	650000	650688	Tune-up limit (dBm)	MPR
	Frequency (MHz)			3710.01	3750	3790.02	(dB)	
20	QPSK	1	1	19.49	19.39	19.38	21.0	0.0



**Part270 n78 PC2 Ant7**

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 650000		
Channel				3750	3750	3750		
Frequency (MHz)								
100	PI2 BPSK	1	1	19.56			21.5	0.0
100	PI2 BPSK	1	137	19.52				
100	PI2 BPSK	1	271	19.64				
100	PI2 BPSK	135	0	19.53			21.5	0.0
100	PI2 BPSK	135	69	19.56				
100	PI2 BPSK	135	138	19.67			21.5	0.0
100	PI2 BPSK	270	0	19.73				
100	QPSK	1	1	19.74				
100	QPSK	1	137	19.58			21.5	0.0
100	QPSK	1	271	19.64				
100	QPSK	135	0	19.55			21.5	0.0
100	QPSK	135	69	19.73				
100	QPSK	135	138	19.64			21.5	0.0
100	QPSK	270	0	19.69				
100	16QAM	1	1	19.54			21.5	0.0
100	64QAM	1	1	19.71			21.5	0.0
100	256QAM	1	1	19.40			19.5	2.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.58	19.54	19.55	21.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3742.91	3750	3752.92		
80	QPSK	1	1	19.56	19.71	19.64	21.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.55	19.60	19.64	21.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	19.62	19.67	19.55	21.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.91	3750	3755.02		
50	QPSK	1	1	19.51	19.56	19.55	21.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.54	19.62	19.54	21.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.53	19.62	19.67	21.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.91	3750	3790.02		
20	QPSK	1	1	19.54	19.62	19.58	21.5	0.0





Art 8		Full power/Head for Standalone/Extremity for Standalone				Head for Simultaneous&Body-worn for Simultaneous/Hotspot for Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b Mbps	1	2412	19.23	20.50	14.72	16.00		100.00
		6	2437	18.92	20.50	14.46	16.00		
		11	2462	19.21	20.50	14.66	16.00		
	802.11g @Mbps	1	2412	18.09	19.50		16.00		98.28
		6	2437	18.94	20.50		16.00		
		10	2457	17.31	19.00		16.00		
	802.11n-HT20 MCS0	1	2412	17.39	19.00		16.00		98.16
		6	2437	18.76	20.50		16.00		
		10	2457	17.93	19.50		16.00		
	802.11n-HT40 MCS0	1	2412	14.70	16.00		16.00		94.93
		3	2422	14.44	16.00		16.00		
		6	2437	15.46	17.00		16.00		
	9	2452	12.88	14.00		14.50			

Art 8		Full power/Extremity for Standalone				Head for Standalone/Extremity for Simultaneous		Head for Simultaneous		Body-worn for Standalone		Body-worn for Simultaneous&Hotspot for Simultaneous		Extremity for Simultaneous	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a @Mbps	36	5180	18.06	19.00		13.00		13.00		14.00		11.00		98.26
		40	5200	17.87	19.00		15.00		13.00		14.00		11.00		
		44	5220	17.86	19.00		15.00		13.00		14.00		11.00		
		48	5240	17.47	19.00		15.00		13.00		14.00		11.00		
	802.11n-HT20 MCS0	36	5180	17.85	19.00		13.00		13.00		14.00		11.00		98.14
		40	5200	17.78	19.00		15.00		13.00		14.00		11.00		
		44	5220	17.77	19.00		15.00		13.00		14.00		11.00		
		48	5240	17.33	19.00		15.00		13.00		14.00		11.00		
	802.11n-HT40 MCS0	36	5180	16.24	19.00	Not Required	15.00		13.00		14.00		11.00		96.30
		46	5230	16.15	19.00		15.00		13.00		14.00		11.00		
	802.11ac-VHT20 MCS0	36	5180	17.92	19.00		15.00		13.00		14.00		11.00		98.15
		40	5200	17.82	19.00		15.00		13.00		14.00		11.00		
		44	5220	17.78	19.00		15.00		13.00		14.00		11.00		
		48	5240	17.49	19.00		15.00		13.00		14.00		11.00		
	802.11ac-VHT40 MCS0	38	5190	17.35	19.00		15.00		13.00		14.00		11.00		96.30
		46	5230	17.17	18.50		15.00		13.00		14.00		11.00		
	802.11ac-VHT80 MCS0	42	5210	16.15	17.00	13.41	15.00	11.51	13.00	12.77	14.00	9.83	11.00	82.17	

Art 8		Full power/Extremity for Standalone				Head for Standalone		Head for Simultaneous		Body-worn for Standalone		Body-worn for Simultaneous		Extremity for Simultaneous	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a @Mbps	52	5250	17.84	19.00		13.00		13.00		14.00		11.00		98.26
		56	5280	17.68	19.00		15.00		13.00		14.00		11.00		
		60	5300	17.71	19.00		15.00		13.00		14.00		11.00		
		64	5320	17.78	19.00		15.00		13.00		14.00		11.00		
	802.11n-HT20 MCS0	52	5250	17.88	19.00		13.00		13.00		14.00		11.00		98.14
		56	5280	17.73	19.00		15.00		13.00		14.00		11.00		
		60	5300	17.60	19.00		15.00		13.00		14.00		11.00		
		64	5320	17.58	19.00		15.00		13.00		14.00		11.00		
	802.11n-HT40 MCS0	54	5270	17.89	19.00	Not Required	15.00		13.00		14.00		11.00		96.30
		62	5310	16.90	19.00		15.00		13.00		14.00		11.00		
	802.11ac-VHT20 MCS0	52	5250	17.89	19.00		15.00		13.00		14.00		11.00		98.15
		56	5280	17.75	19.00		15.00		13.00		14.00		11.00		
		60	5300	17.82	19.00		15.00		13.00		14.00		11.00		
		64	5320	17.59	19.00		15.00		13.00		14.00		11.00		
	802.11ac-VHT40 MCS0	54	5270	16.88	18.50		15.00		13.00		14.00		11.00		96.30
		62	5310	16.57	18.00		15.00		13.00		14.00		11.00		
	802.11ac-VHT80 MCS0	58	5290	16.51	17.00	13.28	15.00	11.36	13.00	12.51	14.00	9.56	11.00	14.28	82.17

Art 8		Full power/Extremity for Standalone				Head for Standalone		Head for Simultaneous		Body-worn for Standalone		Body-worn for Simultaneous		Extremity for Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a @Mbps	100	5500	17.99	19.00		16.00		14.00		15.00		11.50		98.26	
		116	5580	17.73	19.00		16.00		14.00		15.00		11.50			
		124	5620	17.54	19.00		16.00		14.00		15.00		11.50			
		132	5660	17.93	19.00		16.00		14.00		15.00		11.50			
		140	5700	18.20	19.00		16.00		14.00		15.00		11.50			
		144	5720	18.16	19.00		16.00		14.00		15.00		11.50			
		100	5500	17.85	19.00		16.00		14.00		15.00		11.50			
		116	5580	17.53	19.00		16.00		14.00		15.00		11.50			
	802.11n-HT20 MCS0	124	5620	17.61	19.00		16.00		14.00		15.00		11.50		98.14	
		132	5660	17.72	19.00		16.00		14.00		15.00		11.50			
		140	5700	17.99	19.00		16.00		14.00		15.00		11.50			
		144	5720	17.94	19.00		16.00		14.00		15.00		11.50			
		102	5510	15.89	17.50		16.00		14.00		15.00		11.50			
		110	5550	17.70	19.00	Not Required	16.00		14.00		15.00		11.50			
		126	5630	17.59	19.00		16.00		14.00		15.00		11.50			
		134	5670	17.81	19.00		16.00		14.00		15.00		11.50			
	802.11ac-VHT40 MCS0	142	5710	16.23	19.00		16.00		14.00		15.00		11.50		96.30	
		100	5500	17.90	19.00		16.00		14.00		15.00		11.50			
		118	5580	17.56	19.00		16.00		14.00		15.00		11.50			
		124	5620	17.53	19.00		16.00		14.00		15.00		11.50			
	802.11ac-VHT20 MCS0	132	5660	17.73	19.00		16.00		14.00		15.00		11.50		98.15	
		140	5700	18.01	19.00		16.00		14.00		15.00		11.50			
		144	5720	18.00	19.00		16.00		14.00		15.00		11.50			
		102	5510	15.89	17.50		16.00		14.00		15.00		11.50			
	802.11ac-VHT40 MCS0	110	5550	16.89	18.50		16.00		14.00		15.00		11.50		96.30	
		126	5630	16.62	18.00		16.00		14.00		15.00		11.50			
		134	5670	16.81	18.00		16.00		14.00		15.00		11.50			
		142	5710	17.34	19.00		16.00		14.00		15.00		11.50			
	802.11ac-VHT80 MCS0	108	5530	13.92	16.00	14.12	15.00	12.09	14.00	13.33	15.00	9.78	11.50	15.38	15.50	92.17
		122	5610	15.20	16.00	14.00	16.00	12.05	14.00	13.41	15.00	9.52	11.50	14.71	16.50	
		138	5690	15.90	17.00	14.20	16.00	12.61	14.00	13.45	15.00	9.97	11.50	15.53	17.50	

Art 8		Full power/Extremity for Standalone				Head for Standalone		Head for Simultaneous		Body-worn for Standalone		Body-worn for Simultaneous		Extremity for Simultaneous	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a @Mbps	149	5745	18.06	19.00		18.00		15.00		16.00		12.00		98.26
		157	5785	17.93	19.00		18.00		15.00		16.00		12.00		
		165	5825	17.59	19.00		18.00		15.00		16.00		12.00		
	802.11n-HT20 MCS0	149	5745	17.84	19.00		18.00		15.00		16.00		12.00		98.14
		157	5785	17.70	19.00		18.00		15.00		16.00		12.00		
		165	5825	17.55	19.00		18.00		15.00		16.00		12.00		
	802.11n-HT40 MCS0	151	5785	16.35	20.00	Not Required	18.00		15.00		16.00		12.00		96.30
		159	5795	16.25	20.00		18.00		15.00		16.00		12.00		
	802.11ac-VHT20 MCS0	149	5745	17.85	19.00		18.00		15.00		16.00		12.00		98.15
		157	5785	17.71	19.00		18.00		15.00		16.00		12.00		
		165	5825	17.56	19.00		18.00								