



Full Power Mode for WWAN

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	189	251		526	189	251	
Frequency (MHz)	824.2	832.4	848.8	824.2	832.4	848.8		
GSM 1 Tx slot	31.89	32.10	32.05	33.50	22.89	23.10	23.05	24.50
GPRS 1 Tx slot	31.88	32.11	31.99	33.50	22.88	23.11	22.99	24.50
GPRS 2 Tx slots	30.99	31.24	31.19	32.00	24.99	25.24	25.19	26.00
GPRS 3 Tx slots	29.11	29.36	29.30	30.50	24.85	25.10	24.94	26.24
GPRS 4 Tx slots	27.80	28.10	28.05	29.00	24.80	25.10	25.05	26.00
EDGE 1 Tx slot	26.45	26.49	26.61	27.50	17.45	17.49	17.61	18.50
EDGE 2 Tx slots	25.25	25.29	25.38	26.50	19.25	19.29	19.38	20.50
EDGE 3 Tx slots	23.10	23.12	23.24	24.50	18.94	18.88	18.98	20.24
EDGE 4 Tx slots	21.88	22.03	22.12	23.00	18.88	19.03	19.12	20.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	651	810		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
GSM 1 Tx slot	29.37	29.32	29.29	30.50	20.37	20.32	20.29	21.50
GPRS 1 Tx slot	29.35	29.30	29.24	30.50	20.35	20.30	20.24	21.50
GPRS 2 Tx slots	28.38	28.41	28.35	29.50	22.38	22.41	22.35	23.50
GPRS 3 Tx slots	28.49	28.38	28.42	27.50	22.23	22.12	22.16	23.24
GPRS 4 Tx slots	25.21	25.11	25.14	26.00	22.21	22.11	22.14	23.00
EDGE 1 Tx slot	25.94	25.76	25.92	27.00	19.94	19.76	19.92	18.00
EDGE 2 Tx slots	24.80	24.56	24.43	26.00	18.80	18.56	18.43	20.00
EDGE 3 Tx slots	22.58	22.39	22.28	23.50	18.32	18.13	18.00	19.24
EDGE 4 Tx slots	21.03	20.90	20.89	22.00	18.03	17.90	17.89	19.00

Band	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			WCDMA V_Ant 0			Tune-up Limit (dBm)		
	TX Channel	9282	9450		9538	1312	1413	1513	4132	4182		4233	
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1732.4	1732.5	1752.6	4297	4407	4458			
3GPP Rel 99	AMR 12.2Kbps	22.78	22.84	22.80	24.00	22.98	23.01	22.88	24.00	22.42	22.62	22.55	24.00
3GPP Rel 99	RMC 12.2Kbps	22.80	22.85	22.81	24.00	23.00	23.04	22.89	24.00	22.43	22.64	22.57	24.00
3GPP Rel 6	HSDPA Subtest-1	21.88	21.82	21.81	23.00	21.90	21.97	21.93	23.00	21.43	21.60	21.52	23.00
3GPP Rel 6	HSDPA Subtest-2	21.85	21.80	21.85	23.00	21.99	22.09	21.99	23.00	21.59	21.54	21.50	23.00
3GPP Rel 6	HSDPA Subtest-3	21.16	21.18	21.20	22.50	21.47	21.54	21.52	22.50	21.00	21.01	21.00	22.50
3GPP Rel 6	HSDPA Subtest-4	21.12	21.28	21.02	22.50	21.29	21.66	21.27	22.50	20.91	21.18	20.90	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	21.70	21.91	21.69	23.00	21.98	22.10	21.89	23.00	21.48	21.67	21.40	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	21.63	21.88	21.92	23.00	21.98	21.98	22.11	23.00	21.47	21.60	21.64	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	21.08	21.43	21.27	22.50	21.50	21.56	21.49	22.50	20.95	21.15	21.02	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	21.25	21.49	21.11	22.50	21.55	21.60	21.29	22.50	21.07	21.20	20.91	22.50
3GPP Rel 6	HSUPA Subtest-1	21.63	21.77	21.44	23.00	21.80	22.05	21.83	23.00	21.39	21.51	21.27	23.00
3GPP Rel 6	HSUPA Subtest-2	19.82	19.62	19.67	21.00	20.02	19.87	19.82	21.00	19.55	19.47	19.39	21.00
3GPP Rel 6	HSUPA Subtest-3	20.45	20.64	20.59	22.00	20.80	20.89	20.87	22.00	20.29	20.46	20.47	22.00
3GPP Rel 6	HSUPA Subtest-4	19.65	19.61	19.65	21.00	19.87	19.94	19.80	21.00	19.46	19.43	19.52	21.00
3GPP Rel 6	HSUPA Subtest-5	21.59	22.01	21.92	23.00	21.89	22.13	22.10	23.00	21.48	21.76	21.63	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.99	19.00	19.01	20.50	19.15	19.32	19.32	20.50	18.78	18.88	18.88	20.50



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.32	22.40	22.35				
20	QPSK	1	49	22.30	22.38	22.23	24	0		
20	QPSK	1	99	22.21	22.32	22.22				
20	QPSK	50	0	21.30	21.34	21.26				
20	QPSK	50	24	21.21	21.29	21.15	23	1		
20	QPSK	50	50	20.42	20.46	20.30				
20	QPSK	100	0	21.35	21.37	21.34				
20	16QAM	1	0	21.53	21.56	21.42				
20	16QAM	1	49	21.37	21.45	21.43	23	1		
20	16QAM	1	99	21.42	21.50	21.35				
20	16QAM	50	0	20.37	20.54	20.49				
20	16QAM	50	24	20.42	20.46	20.40				
20	16QAM	50	50	20.29	20.39	20.33	22	2		
20	16QAM	100	0	20.53	20.65	20.53				
20	64QAM	1	0	20.53	20.57	20.47				
20	64QAM	1	49	20.40	20.45	20.41	22	2		
20	64QAM	1	99	20.36	20.48	20.32				
20	64QAM	50	0	19.44	19.51	19.47				
20	64QAM	50	24	19.35	19.44	19.28				
20	64QAM	50	50	19.30	19.38	19.32	21	3		
20	64QAM	100	0	19.32	19.49	19.41				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.39	22.25	22.30				
15	QPSK	1	37	22.27	22.35	22.11	24	0		
15	QPSK	1	74	22.12	22.16	22.08				
15	QPSK	36	0	21.23	21.19	21.17				
15	QPSK	36	20	21.16	21.16	21.07				
15	QPSK	36	39	21.17	21.20	21.18	23	1		
15	QPSK	75	0	21.32	21.20	21.31				
15	16QAM	1	0	21.25	21.25	21.25				
15	16QAM	1	37	21.23	21.27	21.25	23	1		
15	16QAM	1	74	21.32	21.33	21.18				
15	16QAM	36	0	20.28	20.49	20.33				
15	16QAM	36	20	20.40	20.39	20.25				
15	16QAM	36	39	20.22	20.30	20.29	22	2		
15	16QAM	75	0	20.45	20.48	20.41				
15	64QAM	1	0	20.51	20.40	20.37				
15	64QAM	1	37	20.34	20.37	20.25	22	2		
15	64QAM	1	74	20.29	20.44	20.18				
15	64QAM	36	0	19.35	19.40	19.40				
15	64QAM	36	20	19.18	19.38	19.22				
15	64QAM	36	39	19.16	19.25	19.23	21	3		
15	64QAM	75	0	19.22	19.39	19.28				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.32	22.26	22.20				
10	QPSK	1	25	22.19	22.26	22.18	24	0		
10	QPSK	1	49	22.14	22.15	22.06				
10	QPSK	25	0	21.21	21.28	21.21				
10	QPSK	25	12	21.06	21.20	21.09	23	1		
10	QPSK	25	25	21.05	21.23	21.24				
10	QPSK	50	0	21.32	21.24	21.29				
10	16QAM	1	0	21.35	21.46	21.37				
10	16QAM	1	25	21.33	21.40	21.39	23	1		
10	16QAM	1	49	21.35	21.37	21.33				
10	16QAM	25	0	20.36	20.46	20.46				
10	16QAM	25	12	20.38	20.29	20.35				
10	16QAM	25	25	20.16	20.29	20.15	22	2		
10	16QAM	50	0	20.46	20.56	20.39				
10	64QAM	1	0	20.37	20.50	20.31				
10	64QAM	1	25	20.33	20.28	20.24	22	2		
10	64QAM	1	49	20.33	20.46	20.27				
10	64QAM	25	0	19.28	19.47	19.32				
10	64QAM	25	12	19.20	19.27	19.19				
10	64QAM	25	25	19.16	19.32	19.21	21	3		
10	64QAM	50	0	19.21	19.34	19.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.37	22.24	22.22				
5	QPSK	1	12	22.19	22.25	22.07	24	0		
5	QPSK	1	24	22.17	22.15	22.08				
5	QPSK	12	0	21.28	21.17	21.13				
5	QPSK	12	7	21.16	21.26	21.01	23	1		
5	QPSK	12	13	21.06	21.26	21.20				
5	QPSK	25	0	21.30	21.33	21.31				
5	16QAM	1	0	21.45	21.38	21.38				
5	16QAM	1	12	21.21	21.43	21.32	23	1		
5	16QAM	1	24	21.30	21.37	21.24				
5	16QAM	12	0	20.29	20.46	20.40				
5	16QAM	12	7	20.27	20.37	20.35	22	2		
5	16QAM	12	13	20.17	20.25	20.18				
5	16QAM	25	0	20.48	20.51	20.38				
5	64QAM	1	0	20.44	20.47	20.34				
5	64QAM	1	12	20.24	20.28	20.31	22	2		
5	64QAM	1	24	20.21	20.31	20.30				
5	64QAM	12	0	19.28	19.47	19.36				
5	64QAM	12	7	19.25	19.34	19.27	21	3		
5	64QAM	12	13	19.25	19.31	19.17				
5	64QAM	25	0	19.29	19.40	19.28				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.39	22.31	22.31				
3	QPSK	1	8	22.24	22.34	22.09	24	0		
3	QPSK	1	14	22.16	22.23	22.12				
3	QPSK	8	0	21.14	21.19	21.22				
3	QPSK	8	4	21.13	21.15	21.08	23	1		
3	QPSK	8	7	21.13	21.20	21.17				
3	QPSK	15	0	21.28	21.22	21.27				
3	16QAM	1	0	21.37	21.46	21.40				
3	16QAM	1	8	21.27	21.32	21.35	23	1		
3	16QAM	1	14	21.39	21.37	21.21				
3	16QAM	8	0	20.25	20.37	20.44				
3	16QAM	8	4	20.26	20.42	20.31				
3	16QAM	8	7	20.17	20.27	20.22	22	2		
3	16QAM	15	0	20.43	20.51	20.45				
3	64QAM	1	0	20.38	20.41	20.36				
3	64QAM	1	8	20.28	20.33	20.28	22	2		
3	64QAM	1	14	20.32	20.35	20.28				
3	64QAM	8	0	19.33	19.46	19.45				
3	64QAM	8	4	19.26	19.38	19.26				
3	64QAM	8	7	19.16	19.25	19.25	21	3		
3	64QAM	15	0	19.25	19.42	19.29				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.28	22.24	22.25				
1.4	QPSK	1	22	22.13	22.21	22.12	24	0		
1.4	QPSK	1	5	22.05	22.26	22.19				
1.4	QPSK	3	0	22.15	22.31	22.08				
1.4	QPSK	3	1	22.14	22.16	22.01				
1.4	QPSK	3	3	22.11	22.27	22.27				
1.4	QPSK	6	0	21.25	21.23	21.24	23	1		
1.4	16QAM	1	0	21.49	21.41	21.40				
1.4	16QAM	1	3	21.33	21.32	21.39				
1.4	16QAM	1	5	21.30	21.38	21.18	23	1		
1.4	16QAM	3	0	21.28	21.39	21.35				
1.4	16QAM	3	1	21.37	21.36	21.27				
1.4	16QAM	3	3	21.26	21.27	21.28				
1.4	16QAM	6	0	20.43	20.38	20.28	22	2		
1.4	64QAM	1	0	20.41	20.38	20.35				
1.4	64QAM	1	3	20.36	20.28	20.23				
1.4	64QAM	1	5	20.25	20.40	20.28	22	2		
1.4	64QAM	3	0	20.37	20.42	20.38				
1.4	64QAM	3	1	20.28	20.42	20.26				
1.4	64QAM	3	3	20.20	20.32	20.29				
1.4	64QAM	6	0	19.28	19.42	19.30	21	3		

Band 4 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.				



Band 12 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				23060	23065	23130			
Frequency (MHz)				707.5	707.5	713.5			
10	QPSK	1	0	22.27	22.44	22.32			
10	QPSK	1	25	22.18	22.32	22.27	24	0	
10	QPSK	1	49	22.15	22.26	22.13			
10	QPSK	25	0	21.40	21.46	21.38			
10	QPSK	25	12	21.27	21.36	21.22	23	1	
10	QPSK	25	25	21.23	21.41	21.31			
10	QPSK	50	0	21.32	21.47	21.35			
10	16QAM	1	0	21.51	21.68	21.64			
10	16QAM	1	25	21.51	21.62	21.45	23	1	
10	16QAM	1	49	21.49	21.58	21.47			
10	16QAM	25	0	20.47	20.56	20.47			
10	16QAM	25	12	20.33	20.47	20.41			
10	16QAM	25	25	20.31	20.42	20.37	22	2	
10	16QAM	50	0	20.47	20.54	20.40			
10	64QAM	1	0	20.61	20.66	20.62			
10	64QAM	1	25	20.32	20.48	20.32	22	2	
10	64QAM	1	49	20.49	20.51	20.41			
10	64QAM	25	0	19.47	19.55	19.47			
10	64QAM	25	12	19.40	19.43	19.39			
10	64QAM	25	25	19.31	19.38	19.32	21	3	
10	64QAM	50	0	19.46	19.56	19.40			
Channel									
Frequency (MHz)				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				707.5	707.5	713.5			
5	QPSK	1	0	22.11	22.32	22.23			
5	QPSK	1	12	22.04	22.25	22.19	24	0	
5	QPSK	1	24	22.02	22.11	22.08			
5	QPSK	12	0	21.31	21.35	21.21			
5	QPSK	12	7	21.17	21.26	21.11	23	1	
5	QPSK	12	13	21.19	21.35	21.14			
5	QPSK	25	0	21.27	21.31	21.25			
5	16QAM	1	0	21.35	21.64	21.51			
5	16QAM	1	12	21.39	21.53	21.35	23	1	
5	16QAM	1	24	21.32	21.46	21.44			
5	16QAM	12	0	20.30	20.53	20.32			
5	16QAM	12	7	20.29	20.31	20.32	22	2	
5	16QAM	12	13	20.28	20.26	20.22			
5	16QAM	25	0	20.41	20.52	20.24			
5	64QAM	1	0	20.58	20.49	20.45			
5	64QAM	1	12	20.27	20.30	20.28	22	2	
5	64QAM	1	24	20.32	20.48	20.29			
5	64QAM	12	0	19.33	19.45	19.41			
5	64QAM	12	7	19.26	19.30	19.30	21	3	
5	64QAM	12	13	19.27	19.26	19.18			
5	64QAM	25	0	19.29	19.41	19.30			
Channel									
Frequency (MHz)				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				707.5	707.5	714.5			
3	QPSK	1	0	22.20	22.32	22.22			
3	QPSK	1	8	22.14	22.26	22.14	24	0	
3	QPSK	1	14	22.10	22.16	22.07			
3	QPSK	8	0	21.38	21.43	21.35			
3	QPSK	8	4	21.19	21.31	21.12	23	1	
3	QPSK	8	7	21.08	21.26	21.13			
3	QPSK	15	0	21.27	21.37	21.32			
3	16QAM	1	0	21.45	21.64	21.52			
3	16QAM	1	8	21.45	21.60	21.30	23	1	
3	16QAM	1	14	21.33	21.56	21.32			
3	16QAM	8	0	20.33	20.51	20.35			
3	16QAM	8	4	20.28	20.32	20.33	22	2	
3	16QAM	8	7	20.25	20.27	20.26			
3	16QAM	15	0	20.31	20.41	20.35			
3	64QAM	1	0	20.47	20.52	20.53			
3	64QAM	1	8	20.26	20.32	20.15	22	2	
3	64QAM	1	14	20.47	20.34	20.32			
3	64QAM	8	0	19.34	19.45	19.31			
3	64QAM	8	4	19.38	19.33	19.31	21	3	
3	64QAM	8	7	19.15	19.24	19.15			
3	64QAM	15	0	19.38	19.41	19.29			
Channel									
Frequency (MHz)				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	22.23	22.29	22.18			
1.4	QPSK	1	3	22.09	22.30	22.10	24	0	
1.4	QPSK	1	5	22.12	22.08	22.04			
1.4	QPSK	3	0	22.36	22.31	22.21			
1.4	QPSK	3	1	22.21	22.30	22.10			
1.4	QPSK	3	3	22.19	22.38	22.15			
1.4	QPSK	6	0	21.21	21.31	21.29	23	1	
1.4	16QAM	1	0	21.36	21.52	21.54			
1.4	16QAM	1	3	21.36	21.47	21.35	23	1	
1.4	16QAM	1	5	21.37	21.41	21.45			
1.4	16QAM	3	0	21.29	21.45	21.42			
1.4	16QAM	3	1	21.19	21.41	21.25			
1.4	16QAM	3	3	21.26	21.35	21.28			
1.4	16QAM	1	0	20.34	20.41	20.26	22	2	
1.4	64QAM	1	0	20.56	20.53	20.54			
1.4	64QAM	1	3	20.20	20.34	20.18			
1.4	64QAM	1	5	20.46	20.37	20.28	22	2	
1.4	64QAM	3	0	20.43	20.47	20.36			
1.4	64QAM	3	1	20.25	20.32	20.24			
1.4	64QAM	3	3	20.29	20.35	20.20			
1.4	64QAM	6	0	19.31	19.53	19.24	21	3	

Band 13 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				23260	23265	23330			
Frequency (MHz)				782	782	784.5			
10	QPSK	1	0	22.51					
10	QPSK	1	25	22.37			24	0	
10	QPSK	1	49	22.31					
10	QPSK	25	0	21.47					
10	QPSK	25	12	21.42			23	1	
10	QPSK	25	25	21.41					
10	QPSK	50	0	21.56					
10	16QAM	1	0	21.67					
10	16QAM	1	25	21.59			23	1	
10	16QAM	1	49	21.68					
10	16QAM	25	0	20.39					
10	16QAM	25	12	20.42			22	2	
10	16QAM	25	25	20.35					
10	16QAM	50	0	20.51					
10	64QAM	1	0	20.62					
10	64QAM	1	25	20.47			22	2	
10	64QAM	1	49	20.53					
10	64QAM	25	0	19.47					
10	64QAM	25	12	19.36			21	3	
10	64QAM	25	25	19.32					
10	64QAM	50	0	19.62					
Channel									
Frequency (MHz)				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	22.39	22.45	22.46			
5	QPSK	1	12	22.26	22.24	22.19	24	0	
5	QPSK	1	24	22.28	22.23	22.18			
5	QPSK	12	0	21.30	21.34	21.33			
5	QPSK	12	7	21.34	21.33	21.41	23	1	
5	QPSK	12	13	21.26	21.29	21.33			
5	QPSK	25	0	21.50	21.39	21.39			
5	16QAM	1	0	21.57	21.47	21.59			
5	16QAM	1	12	21.44	21.47	21.43	23	1	
5	16QAM	1	24	21.58	21.54	21.58			
5	16QAM	12	0	20.34	20.21	20.37			
5	16QAM	12	7	20.28	20.30	20.36	22	2	
5	16QAM	12	13	20.16	20.26	20.25			
5	16QAM	25	0	20.46	20.32	20.40			
5	64QAM	1	0	20.55	20.61	20.44			
5	64QAM	1	12	20.42	20.39	20.27	22	2	
5	64QAM	1	24	20.34	20.42	20.47			
5	64QAM	12	0	19.38	19.44	19.39			
5	64QAM	12	7	19.24	19.33	19.26	21	3	
5	64QAM	12	13	19.26	19.13	19.29			
5	64QAM	25	0	19.54	19.43	19.59			

Band 14 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.				



Band 17 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.22	22.38	22.27			
10	QPSK	1	25	22.18	22.22	22.13	24	0	
10	QPSK	1	49	22.15	22.30	22.13			
10	QPSK	25	0	21.20	21.27	21.22			
10	QPSK	25	12	21.05	21.20	21.12	23	1	
10	QPSK	25	25	21.10	21.16	21.04			
10	QPSK	50	0	21.15	21.23	21.16			
10	16QAM	1	0	21.38	21.53	21.44			
10	16QAM	1	25	21.32	21.44	21.29	23	1	
10	16QAM	1	49	21.30	21.40	21.34			
10	16QAM	25	0	20.24	20.35	20.33			
10	16QAM	25	12	20.25	20.31	20.15	22	2	
10	16QAM	25	25	20.08	20.23	20.15			
10	16QAM	50	0	20.25	20.33	20.28			
10	64QAM	1	0	20.34	20.51	20.41			
10	64QAM	1	25	20.40	20.46	20.31	22	2	
10	64QAM	1	49	20.32	20.44	20.29			
10	64QAM	25	0	19.25	19.36	19.21			
10	64QAM	25	12	19.13	19.31	19.25	21	3	
10	64QAM	25	25	19.16	19.34	19.27			
10	64QAM	50	0	19.23	19.32	19.25			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.09	22.33	22.17			
5	QPSK	1	12	22.13	22.13	22.04	24	0	
5	QPSK	1	24	22.04	22.20	22.09			
5	QPSK	12	0	21.14	21.14	21.06			
5	QPSK	12	7	21.02	21.02	21.08	23	1	
5	QPSK	12	13	21.07	21.05	21.10			
5	QPSK	25	0	21.08	21.05	21.14			
5	16QAM	1	0	21.32	21.40	21.40			
5	16QAM	1	12	21.23	21.34	21.27	23	1	
5	16QAM	1	24	21.22	21.37	21.22			
5	16QAM	12	0	20.13	20.25	20.22			
5	16QAM	12	7	20.11	20.17	20.15	22	2	
5	16QAM	12	13	20.04	20.13	20.06			
5	16QAM	25	0	20.11	20.23	20.22			
5	64QAM	1	0	20.25	20.34	20.25			
5	64QAM	1	12	20.28	20.32	20.17	22	2	
5	64QAM	1	24	20.23	20.32	20.22			
5	64QAM	12	0	19.19	19.25	19.13			
5	64QAM	12	7	19.10	19.24	19.13	21	3	
5	64QAM	12	13	19.05	19.22	19.18			
5	64QAM	25	0	19.16	19.24	19.16			

Band 25 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.40	22.41	22.37			
20	QPSK	1	49	22.29	22.37	22.26	24	0	
20	QPSK	1	99	22.17	22.23	22.20			
20	QPSK	50	0	21.21	21.37	21.31			
20	QPSK	50	24	21.14	21.24	21.24	23	1	
20	QPSK	50	50	21.18	21.24	21.11			
20	QPSK	100	0	21.30	21.34	21.17			
20	16QAM	1	0	21.52	21.55	21.44			
20	16QAM	1	49	21.38	21.41	21.38	23	1	
20	16QAM	1	99	21.47	21.51	21.43			
20	16QAM	50	0	20.44	20.53	20.36			
20	16QAM	50	24	20.42	20.49	20.45	22	2	
20	16QAM	50	50	20.31	20.44	20.28			
20	16QAM	100	0	20.28	20.40	20.36			
20	64QAM	1	0	20.51	20.61	20.55			
20	64QAM	1	49	20.41	20.57	20.44	22	2	
20	64QAM	1	99	20.40	20.53	20.36			
20	64QAM	50	0	19.44	19.47	19.30			
20	64QAM	50	24	19.34	19.51	19.36	21	3	
20	64QAM	50	50	19.25	19.38	19.34			
20	64QAM	100	0	19.28	19.35	19.27			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.28	22.23	22.32			
15	QPSK	1	37	22.42	22.27	22.14	24	0	
15	QPSK	1	74	22.05	22.17	22.13			
15	QPSK	36	0	21.15	21.21	21.14			
15	QPSK	36	20	21.11	21.24	21.10	23	1	
15	QPSK	36	39	21.06	21.08	21.02			
15	QPSK	75	0	21.15	21.27	21.11			
15	16QAM	1	0	21.45	21.37	21.37			
15	16QAM	1	37	21.32	21.37	21.23	23	1	
15	16QAM	1	74	21.41	21.35	21.29			
15	16QAM	36	0	20.29	20.43	20.19			
15	16QAM	36	20	20.30	20.32	20.32	22	2	
15	16QAM	36	39	20.23	20.39	20.16			
15	16QAM	75	0	20.24	20.30	20.28			
15	64QAM	1	0	20.58	20.51	20.40			
15	64QAM	1	37	20.28	20.55	20.32	22	2	
15	64QAM	1	74	20.29	20.40	20.21			
15	64QAM	36	0	19.29	19.31	19.22			
15	64QAM	36	20	19.17	19.48	19.31	21	3	
15	64QAM	36	39	19.14	19.53	19.24			
15	64QAM	75	0	19.11	19.19	19.12			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.26	22.31	22.30			
10	QPSK	1	25	22.17	22.27	22.14	24	0	
10	QPSK	1	49	22.10	22.15	22.09			
10	QPSK	25	0	21.17	21.23	21.26			
10	QPSK	25	12	21.04	21.16	21.21	23	1	
10	QPSK	25	25	21.10	21.15	21.07			
10	QPSK	50	0	21.13	21.17	21.10			
10	16QAM	1	0	21.49	21.45	21.40			
10	16QAM	1	25	21.21	21.30	21.28	23	1	
10	16QAM	1	49	21.44	21.39	21.31			
10	16QAM	25	0	20.33	20.33	20.31			
10	16QAM	25	12	20.40	20.45	20.40	22	2	
10	16QAM	25	25	20.22	20.34	20.08			
10	16QAM	50	0	20.21	20.37	20.33			
10	64QAM	1	0	20.44	20.44	20.44			
10	64QAM	1	25	20.28	20.53	20.32	22	2	
10	64QAM	1	49	20.24	20.36	20.31			
10	64QAM	25	0	19.42	19.43	19.17			
10	64QAM	25	12	19.22	19.37	19.28	21	3	
10	64QAM	25	25	19.17	19.25	19.28			
10	64QAM	50	0	19.13	19.21	19.11			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.25	22.28	22.25			
5	QPSK	1	12	22.22	22.23	22.23	24	0	
5	QPSK	1	24	22.13	22.06	22.05			
5	QPSK	12	0	21.04	21.27	21.22			
5	QPSK	12	7	21.08	21.17	21.12	23	1	
5	QPSK	12	13	21.12	21.06	21.01			
5	QPSK	25	0	21.13	21.30	21.09			
5	16QAM	1	0	21.43	21.40	21.40			
5	16QAM	1	12	21.21	21.28	21.30	23	1	
5	16QAM	1	24	21.44	21.38	21.41			
5	16QAM	12	0	20.34	20.48	20.25			
5	16QAM	12	7	20.29	20.38	20.36	22	2	
5	16QAM	12	13	20.22	20.31	20.23			
5	16QAM	25	0	20.20	20.33	20.27			
5	64QAM	1	0	20.46	20.44	20.46			
5	64QAM	1	12	20.30	20.49	20.31	22	2	
5	64QAM	1	24	20.25	20.50	20.31			
5	64QAM	12	0	19.35	19.30	19.13			
5	64QAM	12	7	19.17	19.36	19.29	21	3	
5	64QAM	12	13	19.12	19.24	19.27			
5	64QAM	25	0	19.23	19.31	19.21			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.32	22.27	22.24			
3	QPSK	1	8	22.20	22.22	22.09	24	0	
3	QPSK	1	14	22.12	22.17	22.04			
3	QPSK	8	0	21.17	21.21	21.25			
3	QPSK	8	4	21.00	21.24	21.15	23	1	
3	QPSK	8	7	21.12	21.16	21.07			



Band 66 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel 132072 132222 132572										
Frequency (MHz)										
20	QPSK	1	0	22.42	22.61	22.54	24	0		
20	QPSK	1	49	22.40	22.48	22.44				
20	QPSK	1	99	22.37	22.52	22.37				
20	QPSK	50	0	21.72	21.82	21.69	23	1		
20	QPSK	50	24	21.58	21.66	21.60				
20	QPSK	50	50	21.66	21.73	21.57				
20	QPSK	100	0	21.62	21.71	21.55	23	1		
20	16QAM	1	0	21.72	21.78	21.63				
20	16QAM	1	49	21.58	21.67	21.58				
20	16QAM	1	99	21.66	21.75	21.68	22	2		
20	16QAM	50	0	20.80	20.88	20.74				
20	16QAM	50	24	20.60	20.78	20.68				
20	16QAM	50	50	20.64	20.73	20.69	22	2		
20	16QAM	100	0	20.66	20.79	20.66				
20	16QAM	1	0	20.51	20.61	20.52				
20	64QAM	1	49	20.59	20.63	20.53	22	2		
20	64QAM	1	99	20.38	20.54	20.40				
20	64QAM	50	0	19.75	19.84	19.74				
20	64QAM	50	24	19.79	19.83	19.68	21	3		
20	64QAM	50	50	19.59	19.75	19.57				
20	64QAM	100	0	19.78	19.87	19.83				
Channel 132047 132222 132597										
Frequency (MHz)										
15	QPSK	1	0	22.26	22.50	22.43	24	0		
15	QPSK	1	37	22.28	22.30	22.33				
15	QPSK	1	74	22.29	22.44	22.33				
15	QPSK	36	0	21.66	21.77	21.57	23	1		
15	QPSK	36	20	21.51	21.56	21.54				
15	QPSK	36	39	21.57	21.65	21.48				
15	QPSK	75	0	21.45	21.54	21.51	23	1		
15	16QAM	1	0	21.64	21.75	21.47				
15	16QAM	1	37	21.55	21.57	21.54				
15	16QAM	1	74	21.62	21.70	21.57	22	2		
15	16QAM	36	0	20.73	20.77	20.60				
15	16QAM	36	20	20.43	20.62	20.62				
15	16QAM	36	39	20.49	20.70	20.56	22	2		
15	16QAM	75	0	20.51	20.72	20.52				
15	64QAM	1	0	20.43	20.52	20.37				
15	64QAM	1	37	20.41	20.45	20.47	22	2		
15	64QAM	1	74	20.29	20.45	20.27				
15	64QAM	36	0	19.59	19.78	19.66				
15	64QAM	36	20	19.72	19.69	19.57	21	3		
15	64QAM	36	39	19.51	19.62	19.45				
15	64QAM	75	0	19.63	19.72	19.70				
Channel 132022 132222 132622										
Frequency (MHz)										
10	QPSK	1	0	22.30	22.57	22.46	24	0		
10	QPSK	1	25	22.36	22.35	22.34				
10	QPSK	1	49	22.25	22.38	22.27				
10	QPSK	25	0	21.65	21.66	21.59	23	1		
10	QPSK	25	12	21.43	21.62	21.48				
10	QPSK	25	25	21.56	21.81	21.42				
10	QPSK	50	0	21.50	21.64	21.47	23	1		
10	16QAM	1	0	21.60	21.66	21.46				
10	16QAM	1	25	21.52	21.58	21.48				
10	16QAM	1	49	21.50	21.59	21.51	22	2		
10	16QAM	25	0	20.67	20.81	20.63				
10	16QAM	25	12	20.53	20.63	20.65				
10	16QAM	25	25	20.49	20.67	20.52	22	2		
10	16QAM	50	0	20.59	20.68	20.50				
10	64QAM	1	0	20.33	20.50	20.47				
10	64QAM	1	25	20.51	20.58	20.42	22	2		
10	64QAM	1	49	20.28	20.46	20.36				
10	64QAM	25	0	19.70	19.70	19.64				
10	64QAM	25	12	19.62	19.75	19.52	21	3		
10	64QAM	25	25	19.44	19.57	19.52				
10	64QAM	50	0	19.73	19.77	19.80				
Channel 131997 132222 132647										
Frequency (MHz)										
5	QPSK	1	0	22.37	22.45	22.49	24	0		
5	QPSK	1	12	22.23	22.32	22.39				
5	QPSK	1	24	22.23	22.42	22.26				
5	QPSK	12	0	21.57	21.66	21.56	23	1		
5	QPSK	12	7	21.47	21.58	21.48				
5	QPSK	12	13	21.56	21.55	21.41				
5	QPSK	25	0	21.59	21.67	21.46	23	1		
5	16QAM	1	0	21.67	21.66	21.58				
5	16QAM	1	12	21.56	21.55	21.45				
5	16QAM	1	24	21.61	21.59	21.55	22	2		
5	16QAM	12	0	20.70	20.75	20.59				
5	16QAM	12	7	20.54	20.72	20.54				
5	16QAM	12	13	20.46	20.63	20.59	22	2		
5	16QAM	25	0	20.61	20.69	20.52				
5	64QAM	1	0	20.40	20.50	20.41				
5	64QAM	1	12	20.56	20.60	20.44	22	2		
5	64QAM	1	24	20.28	20.41	20.32				
5	64QAM	12	0	19.59	19.74	19.70				
5	64QAM	12	7	19.75	19.72	19.52	21	3		
5	64QAM	12	13	19.50	19.73	19.42				
5	64QAM	25	0	19.76	19.78	19.69				
Channel 131987 132222 132697										
Frequency (MHz)										
3	QPSK	1	0	22.26	22.54	22.44	24	0		
3	QPSK	1	8	22.33	22.45	22.26				
3	QPSK	1	14	22.21	22.44	22.33				
3	QPSK	8	0	21.54	21.75	21.65	23	1		
3	QPSK	8	4	21.40	21.61	21.40				
3	QPSK	8	7	21.54	21.64	21.40				
3	QPSK	15	0	21.59	21.65	21.53	23	1		
3	16QAM	1	0	21.66	21.70	21.56				
3	16QAM	1	8	21.55	21.57	21.49				
3	16QAM	1	14	21.53	21.58	21.66	22	2		
3	16QAM	8	0	20.68	20.73	20.63				
3	16QAM	8	4	20.56	20.67	20.64				
3	16QAM	8	7	20.55	20.69	20.62	21	3		
3	16QAM	15	0	20.61	20.66	20.59				
3	64QAM	1	0	20.49	20.51	20.34				
3	64QAM	1	8	20.46	20.47	20.41	22	2		
3	64QAM	1	14	20.24	20.47	20.39				
3	64QAM	8	0	19.66	19.71	19.67				
3	64QAM	8	4	19.71	19.69	19.57	21	3		
3	64QAM	8	7	19.51	19.72	19.51				
3	64QAM	15	0	19.64	19.74	19.71				
Channel 131979 132222 132695										
Frequency (MHz)										
1.4	QPSK	1	0	22.25	22.55	22.44	24	0		
1.4	QPSK	1	3	22.25	22.41	22.34				
1.4	QPSK	1	5	22.30	22.35	22.22				
1.4	QPSK	3	0	22.36	22.48	22.41	23	1		
1.4	QPSK	3	1	22.28	22.38	22.25				
1.4	QPSK	3	3	22.38	22.39	22.31				
1.4	QPSK	8	0	21.30	21.39	21.23	23	1		
1.4	16QAM	1	0	21.63	21.61	21.52				
1.4	16QAM	1	3	21.42	21.51	21.40				
1.4	16QAM	1	5	21.58	21.70	21.59	22	2		
1.4	16QAM	3	0	21.51	21.62	21.45				
1.4	16QAM	3	1	21.29	21.47	21.45				
1.4	16QAM	3	3	21.40	21.45	21.34	22	2		
1.4	16QAM	6	0	20.33	20.51	20.38				
1.4	64QAM	1	0	20.48	20.56	20.44				
1.4	64QAM	1	3	20.48	20.51	20.37	22	2		
1.4	64QAM	1	5	20.28	20.37	20.36				
1.4	64QAM	3	0	20.52	20.56	20.38				
1.4	64QAM	3	1	20.50	20.58	20.40	21	3		
1.4	64QAM	3	3	20.28	20.40	20.33				
1.4	64QAM	6	0	19.40	19.56	19.47				

Band 71 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel 133222 133372 133372										
Frequency (MHz)										
20	QPSK	1	0	22.37	22.44	22.28	24	0		
20	QPSK	1	49	22.33	22.43	22.27				
20	QPSK	1	99	22.20	22.25	22.19				
20	QPSK	50	0	21.48	21.61	21.49	23	1		
20	QPSK	50	24	21.28	21.43	21.35				
20	QPSK	50	50	21.38	21.50	21.40				
20	QPSK	100	0	21.57						



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				20650	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.68	22.85	22.77			
20	QPSK	1	49	22.59	22.67	22.64	24	0	
20	QPSK	1	99	22.60	22.71	22.61			
20	QPSK	50	0	21.70	21.83	21.79			
20	QPSK	50	24	21.63	21.69	21.53	23	1	
20	QPSK	50	50	21.57	21.74	21.67			
20	QPSK	100	0	21.61	21.66	21.59			
20	16QAM	1	0	21.86	21.99	21.83			
20	16QAM	1	49	21.81	21.92	21.77	23	1	
20	16QAM	1	99	21.77	21.84	21.73			
20	16QAM	50	0	20.77	20.86	20.73			
20	16QAM	50	24	20.70	20.83	20.73	22	2	
20	16QAM	50	50	20.61	20.70	20.59			
20	16QAM	100	0	20.62	20.79	20.63			
20	64QAM	1	0	20.78	20.85	20.73			
20	64QAM	1	49	20.59	20.68	20.54	22	2	
20	64QAM	1	99	20.61	20.72	20.65			
20	64QAM	50	0	19.84	20.01	19.87			
20	64QAM	50	24	19.81	19.83	19.91	21	3	
20	64QAM	50	50	19.71	19.82	19.75			
20	64QAM	100	0	19.78	19.81	19.77			
Channel				20625	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.62	22.72	22.74			
15	QPSK	1	37	22.50	22.60	22.51	24	0	
15	QPSK	1	74	22.43	22.54	22.45			
15	QPSK	36	0	21.67	21.73	21.69			
15	QPSK	36	20	21.48	21.62	21.38	23	1	
15	QPSK	36	39	21.52	21.62	21.60			
15	QPSK	75	0	21.48	21.56	21.45			
15	16QAM	1	0	21.75	21.83	21.75	23	1	
15	16QAM	1	37	21.72	21.82	21.74			
15	16QAM	1	74	21.61	21.69	21.64			
15	16QAM	36	0	20.66	20.81	20.59			
15	16QAM	36	20	20.67	20.74	20.62	22	2	
15	16QAM	36	39	20.53	20.67	20.53			
15	16QAM	75	0	20.54	20.62	20.57			
15	64QAM	1	0	20.70	20.78	20.68	22	2	
15	64QAM	1	37	20.52	20.64	20.46			
15	64QAM	1	74	20.55	20.70	20.59			
15	64QAM	36	0	19.74	19.82	19.76			
15	64QAM	36	20	19.73	19.83	19.76	21	3	
15	64QAM	36	39	19.69	19.71	19.59			
15	64QAM	75	0	19.60	19.64	19.63			
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.55	22.71	22.66			
10	QPSK	1	25	22.52	22.52	22.54	24	0	
10	QPSK	1	49	22.49	22.68	22.47			
10	QPSK	25	0	21.53	21.67	21.62			
10	QPSK	25	12	21.49	21.52	21.48	23	1	
10	QPSK	25	25	21.52	21.65	21.65			
10	QPSK	50	0	21.57	21.61	21.42			
10	16QAM	1	0	21.83	21.84	21.80			
10	16QAM	1	25	21.68	21.85	21.61	23	1	
10	16QAM	1	49	21.70	21.74	21.65			
10	16QAM	25	0	20.69	20.69	20.70			
10	16QAM	25	12	20.60	20.67	20.60	22	2	
10	16QAM	25	25	20.48	20.63	20.50			
10	16QAM	50	0	20.50	20.67	20.52			
10	64QAM	1	0	20.71	20.78	20.64			
10	64QAM	1	25	20.42	20.66	20.38	22	2	
10	64QAM	1	49	20.48	20.64	20.53			
10	64QAM	25	0	19.74	19.91	19.85			
10	64QAM	25	12	19.66	19.78	19.76	21	3	
10	64QAM	25	25	19.66	19.75	19.67			
10	64QAM	50	0	19.63	19.74	19.65			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.51	22.69	22.72			
5	QPSK	1	12	22.55	22.49	22.48	24	0	
5	QPSK	1	24	22.52	22.67	22.50			
5	QPSK	12	0	21.64	21.75	21.71			
5	QPSK	12	7	21.57	21.51	21.38	23	1	
5	QPSK	12	13	21.45	21.62	21.54			
5	QPSK	25	0	21.55	21.54	21.49			
5	16QAM	1	0	21.80	21.96	21.86			
5	16QAM	1	12	21.65	21.82	21.67	23	1	
5	16QAM	1	24	21.66	21.79	21.70			
5	16QAM	12	0	20.68	20.83	20.58			
5	16QAM	12	7	20.68	20.73	20.68	22	2	
5	16QAM	12	13	20.52	20.56	20.41			
5	16QAM	25	0	20.58	20.74	20.45			
5	64QAM	1	0	20.63	20.80	20.60	22	2	
5	64QAM	1	12	20.51	20.66	20.51			
5	64QAM	1	24	20.54	20.68	20.58			
5	64QAM	12	0	19.80	19.84	19.71			
5	64QAM	12	7	19.65	19.86	19.80	21	3	
5	64QAM	12	13	19.65	19.75	19.61			
5	64QAM	25	0	19.63	19.63	19.66			

Band 30 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				27710	27710	27710			
Frequency (MHz)				2310	2310	2310			
10	QPSK	1	0	22.79					
10	QPSK	1	25	22.57			24	0	
10	QPSK	1	49	22.65					
10	QPSK	25	0	21.88					
10	QPSK	25	12	21.71			23	1	
10	QPSK	25	25	21.84					
10	QPSK	50	0	21.68					
10	16QAM	1	0	21.82					
10	16QAM	1	25	21.75			23	1	
10	16QAM	1	49	21.68					
10	16QAM	25	0	20.88					
10	16QAM	25	12	20.77			22	2	
10	16QAM	25	25	20.81					
10	16QAM	50	0	20.91					
10	64QAM	1	0	20.89					
10	64QAM	1	25	20.76			22	2	
10	64QAM	1	49	20.81					
10	64QAM	25	0	19.88					
10	64QAM	25	12	19.85			21	3	
10	64QAM	25	25	19.92					
10	64QAM	50	0	19.69					
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	22.69	22.65	22.70			
5	QPSK	1	12	22.53	22.50	22.50	24	0	
5	QPSK	1	24	22.58	22.59	22.54			
5	QPSK	12	0	21.73	21.81	21.80			
5	QPSK	12	7	21.57	21.56	21.65	23	1	
5	QPSK	12	13	21.68	21.76	21.78			
5	QPSK	25	0	21.59	21.52	21.53			
5	16QAM	1	0	21.76	21.78	21.75	23	1	
5	16QAM	1	12	21.63	21.69	21.66			
5	16QAM	1	24	21.57	21.59	21.55			
5	16QAM	12	0	20.71	20.83	20.76			
5	16QAM	12	7	20.64	20.70	20.59	22	2	
5	16QAM	12	13	20.68	20.71	20.66			
5	16QAM	25	0	20.86	20.89	20.84			
5	64QAM	1	0	20.85	20.82	20.74			
5	64QAM	1	12	20.80	20.71	20.68	22	2	
5	64QAM	1	24	20.77	20.73	20.65			
5	64QAM	12	0	19.89	19.82	19.81			
5	64QAM	12	7	19.74	19.80	19.83	21	3	
5	64QAM	12	13	19.78	19.81	19.89			
5	64QAM	25	0	19.62	19.57	19.63			



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)										
20	QPSK	1	0	22.40	22.47	22.44	24	0		
20	QPSK	1	49	22.26	22.31	22.21	23	1		
20	QPSK	50	0	21.30	21.42	21.29	23	1		
20	QPSK	50	24	21.24	21.30	21.29	23	1		
20	QPSK	50	24	21.26	21.38	21.31	23	1		
20	QPSK	100	0	21.22	21.35	21.33	23	1		
20	16QAM	1	0	21.31	21.44	21.36	23	1		
20	16QAM	1	49	21.25	21.30	21.20	23	1		
20	16QAM	50	0	21.22	21.27	21.25	22	2		
20	16QAM	50	0	20.20	20.36	20.27	22	2		
20	16QAM	50	24	20.20	20.33	20.26	22	2		
20	16QAM	50	50	20.20	20.29	20.23	22	2		
20	16QAM	100	0	20.26	20.31	20.20	22	2		
20	16QAM	1	0	20.16	20.29	20.18	22	2		
20	16QAM	1	49	20.18	20.33	20.19	22	2		
20	16QAM	1	99	20.12	20.25	20.15	21	3		
20	16QAM	50	0	19.34	19.40	19.31	21	3		
20	16QAM	50	24	19.37	19.30	19.30	21	3		
20	16QAM	50	50	19.43	19.51	19.43	21	3		
20	16QAM	100	0	19.52	19.60	19.52	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.35	22.45	22.31	24	0		
15	QPSK	1	49	22.24	22.31	22.28	24	0		
15	QPSK	1	74	22.10	22.24	22.04	24	0		
15	QPSK	36	0	21.27	21.28	21.20	23	1		
15	QPSK	36	20	21.10	21.14	21.09	23	1		
15	QPSK	36	39	21.22	21.27	21.21	23	1		
15	QPSK	75	0	21.19	21.31	21.26	23	1		
15	16QAM	1	0	21.22	21.32	21.31	23	1		
15	16QAM	1	49	21.18	21.28	21.18	23	1		
15	16QAM	1	74	21.10	21.18	21.15	23	1		
15	16QAM	36	0	20.29	20.27	20.14	22	2		
15	16QAM	36	20	20.25	20.29	20.19	22	2		
15	16QAM	36	39	20.08	20.20	20.19	22	2		
15	16QAM	75	0	20.23	20.18	20.14	22	2		
15	16QAM	1	0	20.10	20.20	20.14	22	2		
15	16QAM	1	49	21.22	21.27	21.21	22	2		
15	16QAM	1	74	20.04	20.17	20.12	21	3		
15	16QAM	36	0	19.16	19.27	19.16	21	3		
15	16QAM	36	20	19.24	19.15	19.16	21	3		
15	16QAM	36	39	19.20	19.35	19.39	21	3		
15	16QAM	75	0	19.30	19.58	19.36	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.38	22.43	22.35	24	0		
10	QPSK	1	29	22.22	22.42	22.36	24	0		
10	QPSK	1	49	22.13	22.17	22.05	23	1		
10	QPSK	25	0	21.17	21.31	21.14	23	1		
10	QPSK	25	12	21.14	21.12	21.10	23	1		
10	QPSK	50	0	21.06	21.30	21.21	23	1		
10	16QAM	1	0	21.15	21.41	21.20	23	1		
10	16QAM	1	29	21.10	21.22	21.12	23	1		
10	16QAM	1	49	21.04	21.25	21.22	23	1		
10	16QAM	25	0	20.26	20.31	20.24	22	2		
10	16QAM	25	12	20.27	20.29	20.15	22	2		
10	16QAM	25	25	20.11	20.23	20.05	22	2		
10	16QAM	50	0	20.09	20.18	20.12	22	2		
10	16QAM	1	0	20.01	20.14	20.01	22	2		
10	16QAM	1	29	20.04	20.30	20.16	22	2		
10	16QAM	1	49	20.03	20.18	20.01	21	3		
10	16QAM	25	0	19.30	19.32	19.17	21	3		
10	16QAM	25	12	19.27	19.15	19.16	21	3		
10	16QAM	25	25	19.30	19.37	19.31	21	3		
10	16QAM	50	0	19.46	19.56	19.37	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.37	22.41	22.35	24	0		
5	QPSK	1	12	22.30	22.41	22.35	24	0		
5	QPSK	1	24	22.13	22.18	22.13	23	1		
5	QPSK	12	0	21.15	21.39	21.18	23	1		
5	QPSK	12	7	21.12	21.22	21.13	23	1		
5	QPSK	12	13	21.20	21.22	21.22	23	1		
5	QPSK	25	0	21.04	21.26	21.21	23	1		
5	16QAM	1	0	21.10	21.29	21.14	23	1		
5	16QAM	1	12	21.06	21.29	21.17	23	1		
5	16QAM	1	24	21.14	21.14	21.15	23	1		
5	16QAM	12	0	20.14	20.33	20.19	22	2		
5	16QAM	12	7	20.17	20.20	20.21	22	2		
5	16QAM	12	13	20.10	20.17	20.07	22	2		
5	16QAM	25	0	20.12	20.16	20.13	22	2		
5	16QAM	1	0	20.05	20.12	20.01	22	2		
5	16QAM	1	12	20.05	20.26	20.10	22	2		
5	16QAM	1	24	20.02	20.19	20.02	21	3		
5	16QAM	12	0	19.24	19.34	19.19	21	3		
5	16QAM	12	7	19.20	19.14	19.20	21	3		
5	16QAM	12	13	19.41	19.46	19.33	21	3		
5	16QAM	25	0	19.41	19.49	19.37	21	3		

Band 41 PC3 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)										
20	QPSK	1	0	22.40	22.32	22.50	24	0		
20	QPSK	1	49	22.28	22.38	22.35	24	0		
20	QPSK	1	99	22.34	22.28	22.37	24	0		
20	QPSK	50	0	21.45	21.46	21.52	23	1		
20	QPSK	50	24	21.33	21.43	21.46	23	1		
20	QPSK	100	0	21.26	21.29	21.38	23	1		
20	QPSK	100	0	21.30	21.36	21.43	23	1		
20	16QAM	1	0	21.40	21.42	21.53	23	1		
20	16QAM	1	49	21.31	21.37	21.56	23	1		
20	16QAM	1	99	21.43	21.52	21.59	23	1		
20	16QAM	50	0	20.59	20.59	20.62	22	2		
20	16QAM	50	24	20.40	20.43	20.43	22	2		
20	16QAM	50	50	20.52	20.50	20.60	22	2		
20	16QAM	100	0	20.50	20.50	20.57	22	2		
20	16QAM	1	0	20.39	20.32	20.38	22	2		
20	16QAM	1	49	20.19	20.19	20.30	22	2		
20	16QAM	1	99	20.17	20.28	20.32	21	3		
20	16QAM	50	0	19.36	19.32	19.41	21	3		
20	16QAM	50	24	19.33	19.21	19.38	21	3		
20	16QAM	50	50	19.31	19.34	19.47	21	3		
20	16QAM	100	0	19.20	19.18	19.34	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.25	22.19	22.47	24	0		
15	QPSK	1	49	22.21	22.28	22.40	24	0		
15	QPSK	1	74	22.27	22.20	22.25	24	0		
15	QPSK	36	0	21.42	21.30	21.41	23	1		
15	QPSK	36	20	21.21	21.39	21.34	23	1		
15	QPSK	36	39	21.08	21.08	21.07	23	1		
15	QPSK	75	0	21.23	21.26	21.36	23	1		
15	16QAM	1	0	21.30	21.29	21.50	23	1		
15	16QAM	1	49	21.38	21.41	21.48	23	1		
15	16QAM	1	74	21.36	21.48	21.53	23	1		
15	16QAM	36	0	20.56	20.44	20.51	22	2		
15	16QAM	36	20	20.25	20.28	20.39	22	2		
15	16QAM	36	39	20.39	20.37	20.50	22	2		
15	16QAM	75	0	20.45	20.33	20.52	22	2		
15	16QAM	1	0	20.19	20.26	20.30	22	2		
15	16QAM	1	49	20.02	20.05	20.12	21	3		
15	16QAM	1	74	20.15	20.16	20.14	21	3		
15	16QAM	36	0	19.30	19.28	19.31	21	3		
15	16QAM	36	20	19.26	19.13	19.34	21	3		
15	16QAM	36	39	19.20	19.21	19.45	21	3		
15	16QAM	75	0	19.07	19.10	19.23	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.30	22.18	22.35	24	0		
10	QPSK	1	29	22.20	22.30	22.28	24	0		
10	QPSK	1	49	22.26	22.10	22.23	24	0		
10	QPSK	25	0	21.29	21.42	21.44	23	1		
10	QPSK	25	12	21.17	21.34	21.40	23	1		
10	QPSK	50	0	21.17	21.28	21.38	23	1		
10	16QAM	1	0	21.27	21.27	21.36	23	1		
10	16QAM	1	29	21.33	21.41	21.52	23	1		
10	16QAM	1	49	21.35	21.43	21.56	23	1		
10	16QAM	25	0	20.46	20.51	20.45	22	2		
10	16QAM	25	12	20.33	20.29	20.46	22	2		
10	16QAM	25	25	20.49	20.34	20.59	22	2		
10	16QAM	50	0	20.48	20.33	20.41	22	2		
10	16QAM	1	0	20.29	20.19	20.28	22	2		
10	16QAM	1	29	20.16	20.15	20.25	22	2		
10	16QAM	1	49	20.08	20.10	20.16	21	3		
10	16QAM	25	0	1						



Band 2 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.04	21.21	21.09	23	0		
20	QPSK	1	49	21.09	21.20	21.08				
20	QPSK	1	99	21.09	21.20	21.08				
20	QPSK	50	0	20.06	20.38	20.22	22	1		
20	QPSK	50	24	20.13	20.38	20.22				
20	QPSK	50	50	20.01	20.24	20.13				
20	QPSK	100	0	20.13	20.13	20.04	22	1		
20	16QAM	1	0	20.90	21.01	20.88				
20	16QAM	1	49	20.71	20.72	20.59				
20	16QAM	1	99	20.58	20.77	20.59	21	2		
20	16QAM	50	0	19.41	19.55	19.44				
20	16QAM	50	24	19.17	19.32	19.26				
20	16QAM	50	50	19.10	19.30	19.27	21	2		
20	16QAM	100	0	19.24	19.34	19.33				
20	64QAM	1	0	19.03	19.02	19.05				
20	64QAM	1	49	19.06	19.05	19.00	21	2		
20	64QAM	1	99	19.06	19.08	19.01				
20	64QAM	50	0	18.11	18.15	18.06				
20	64QAM	50	24	18.05	18.11	18.04	20	3		
20	64QAM	50	50	18.05	18.12	18.05				
20	64QAM	100	0	18.01	18.10	18.05				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.03	21.20	21.11	23	0		
15	QPSK	1	37	21.08	21.07	21.17				
15	QPSK	1	74	21.19	21.07	21.16				
15	QPSK	36	0	19.87	20.18	20.03	22	1		
15	QPSK	36	20	19.72	19.98	20.01				
15	QPSK	36	39	19.73	20.12	19.86				
15	QPSK	75	0	19.83	19.96	19.93	22	1		
15	16QAM	1	0	20.04	20.20	20.78				
15	16QAM	1	37	20.71	20.54	20.43				
15	16QAM	1	74	20.58	20.62	20.46	21	2		
15	16QAM	36	0	19.38	19.34	19.35				
15	16QAM	36	20	19.05	19.10	19.07				
15	16QAM	36	39	19.00	19.17	19.14	21	2		
15	16QAM	75	0	19.05	19.19	19.24				
15	64QAM	1	0	18.58	18.55	18.54				
15	64QAM	1	37	18.59	18.56	18.58	21	2		
15	64QAM	1	74	18.55	18.59	18.65				
15	64QAM	36	0	17.54	17.50	17.65				
15	64QAM	36	20	17.56	17.58	17.58	20	3		
15	64QAM	36	39	17.54	17.52	17.53				
15	64QAM	75	0	17.54	17.57	17.67				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.13	21.01	21.17	23	0		
10	QPSK	1	25	21.16	21.07	21.16				
10	QPSK	1	49	21.07	21.16	21.14				
10	QPSK	25	0	19.87	20.28	20.08	22	1		
10	QPSK	25	12	19.85	19.90	20.00				
10	QPSK	25	25	19.84	20.10	19.94				
10	QPSK	50	0	19.74	19.97	19.84	22	1		
10	16QAM	1	0	20.86	20.83	20.83				
10	16QAM	1	25	20.88	20.53	20.80				
10	16QAM	1	49	20.45	20.77	20.54	21	2		
10	16QAM	25	0	19.19	19.16	19.27				
10	16QAM	25	12	19.14	19.14	19.17				
10	16QAM	25	25	19.01	19.20	19.10	21	2		
10	16QAM	50	0	19.03	19.31	19.30				
10	64QAM	1	0	18.51	18.55	18.51				
10	64QAM	1	25	18.58	18.59	18.57	21	2		
10	64QAM	1	49	18.59	18.55	18.56				
10	64QAM	25	0	17.58	17.68	17.54				
10	64QAM	25	12	17.56	17.68	17.54	20	3		
10	64QAM	25	25	17.58	17.57	17.61				
10	64QAM	50	0	17.57	17.58	17.71				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.12	21.21	21.13	23	0		
5	QPSK	1	12	21.09	21.21	21.21				
5	QPSK	1	24	21.10	21.19	21.21				
5	QPSK	12	0	19.89	20.31	20.05	22	1		
5	QPSK	12	7	19.83	20.08	20.04				
5	QPSK	12	13	19.85	20.22	20.08				
5	QPSK	25	0	19.66	19.92	20.03	22	1		
5	16QAM	1	0	20.69	20.82	20.83				
5	16QAM	1	12	20.68	20.53	20.55				
5	16QAM	1	24	20.51	20.64	20.53	21	2		
5	16QAM	12	0	19.19	19.44	19.40				
5	16QAM	12	7	19.09	19.30	19.18				
5	16QAM	12	13	18.95	19.09	19.28	21	2		
5	16QAM	25	0	19.09	19.27	19.25				
5	64QAM	1	0	18.51	18.58	18.58				
5	64QAM	1	12	18.61	18.56	18.57	21	2		
5	64QAM	1	24	18.51	18.56	18.57				
5	64QAM	12	0	17.56	17.64	17.66				
5	64QAM	12	7	17.57	17.56	17.63	20	3		
5	64QAM	12	13	17.50	17.56	17.55				
5	64QAM	25	0	17.52	17.58	17.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.21	21.21	21.19	23	0		
3	QPSK	1	8	21.16	21.17	21.11				
3	QPSK	1	14	21.16	21.14	21.22				
3	QPSK	8	0	20.00	20.22	20.15	22	1		
3	QPSK	8	7	19.92	20.08	19.94				
3	QPSK	8	14	19.78	20.08	19.94				
3	QPSK	15	0	19.70	19.98	20.02	22	1		
3	16QAM	1	0	20.91	20.87	20.76				
3	16QAM	1	8	20.58	20.62	20.54				
3	16QAM	1	14	20.52	20.58	20.48	21	2		
3	16QAM	8	0	19.33	19.48	19.36				
3	16QAM	8	4	19.08	19.30	19.17				
3	16QAM	8	7	19.11	19.18	19.16	21	2		
3	16QAM	15	0	19.18	19.12	19.20				
3	64QAM	1	0	18.62	18.54	18.62				
3	64QAM	1	8	18.59	18.59	18.57	21	2		
3	64QAM	1	14	18.56	18.64	18.65				
3	64QAM	8	0	17.58	17.59	17.54				
3	64QAM	8	4	17.52	17.57	17.55	20	3		
3	64QAM	8	7	17.58	17.57	17.53				
3	64QAM	15	0	17.53	17.51	17.69				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.22	21.15	21.15	23	0		
1.4	QPSK	1	21	21.19	21.09	21.17				
1.4	QPSK	1	5	21.08	21.13	21.14				
1.4	QPSK	3	0	21.15	21.11	21.04	22	1		
1.4	QPSK	3	1	21.10	21.07	21.07				
1.4	QPSK	3	3	21.17	21.15	21.10				
1.4	QPSK	6	0	19.87	20.02	19.91	22	1		
1.4	16QAM	1	0	20.69	20.82	20.78				
1.4	16QAM	1	3	20.63	20.59	20.52				
1.4	16QAM	1	5	20.42	20.58	20.42	22	1		
1.4	16QAM	3	0	20.89	20.84	20.80				
1.4	16QAM	3	1	20.73	20.59	20.43				
1.4	16QAM	3	3	20.40	20.68	20.42	21	2		
1.4	16QAM	6	0	19.19	19.21	19.21				
1.4	64QAM	1	0	18.51	18.56	18.66				
1.4	64QAM	1	3	18.54	18.55	18.63	21	2		
1.4	64QAM	1	5	18.53	18.61	18.54				
1.4	64QAM	3	0	18.51	18.62	18.62				
1.4	64QAM	3	1	18.53	18.53	18.64	21	2		
1.4	64QAM	3	3	18.56	18.52	18.57				
1.4	64QAM	6	0	17.59	17.65	17.69				

Band 4 Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.22	21.23	21.19	23	0		
20	QPSK	1	49	21.05	21.16	21.03				
20	QPSK	1	99	21.22	21.12	21.13				
20	QPSK	50	0	20.42	20.62	20.51	22	1		
20	QPSK	50	24	20.26	20.36	20.42				
20	QPSK	50	50	20.23	20.40	20.22				
20	QPSK	100	0	20.17	20.37	20.19	22	1		
20	16QAM	1	0	20.53	20.77	20.86				
20	16QAM	1	49	20.33	20.68	20.40				
20	16QAM	1	99	20.38	20.49	20.35	21	2		
20	16QAM	50	0	19.58	19.67	19.41				
20	16QAM	50	24	19.43	19.56	19.30				
20	16QAM	50	50	19.33	19.42	19.19	21	2		
20	16QAM	100	0	19.45	19.35	19.20				
20	64QAM	1	0	19.34	19.51	19.35				
20	64QAM	1	49	19.06	19.40	19.14	21	2		
20	64QAM	1	99	19.15	19.31	19.22				



Band 7 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				20360	21100	21350		
Frequency (MHz)				2210	2260	2320		
20	QPSK	1	0	22.45	22.62	22.32		
20	QPSK	1	49	22.27	22.52	22.24	24	0
20	QPSK	1	99	22.30	22.47	22.23		
20	QPSK	50	0	21.53	21.72	21.41		
20	QPSK	50	24	21.28	21.62	21.32	23	1
20	QPSK	50	50	21.43	21.41	21.25		
20	QPSK	100	0	21.24	21.57	21.12		
20	16QAM	1	0	21.62	21.72	21.47		
20	16QAM	1	49	21.38	21.57	21.27	23	1
20	16QAM	1	99	21.48	21.56	21.31		
20	16QAM	50	0	20.58	20.68	20.50		
20	16QAM	50	24	20.30	20.41	20.40	22	2
20	16QAM	50	50	20.30	20.51	20.42		
20	16QAM	100	0	20.40	20.56	20.19		
20	64QAM	1	0	20.45	20.71	20.60		
20	64QAM	1	49	20.23	20.57	20.39	22	2
20	64QAM	1	99	20.37	20.40	20.39		
20	64QAM	50	0	19.39	19.65	19.50		
20	64QAM	50	24	19.20	19.56	19.20	21	3
20	64QAM	50	50	19.21	19.53	19.32		
20	64QAM	100	0	19.20	19.53	19.35		
Channel								
Frequency (MHz)				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.38	22.44	22.26		
15	QPSK	1	37	22.16	22.39	22.03	24	0
15	QPSK	1	74	22.28	22.36	22.23		
15	QPSK	36	0	21.45	21.60	21.39		
15	QPSK	36	20	21.22	21.51	21.27	23	1
15	QPSK	36	39	21.33	21.42	21.20		
15	QPSK	75	0	21.04	21.54	21.16		
15	16QAM	1	0	21.42	21.52	21.28		
15	16QAM	1	37	21.33	21.45	21.28	23	1
15	16QAM	1	74	21.38	21.42	21.14		
15	16QAM	36	0	20.52	20.58	20.38		
15	16QAM	36	20	20.25	20.27	20.30	22	2
15	16QAM	36	39	20.32	20.48	20.23		
15	16QAM	75	0	20.40	20.40	20.39		
15	64QAM	1	0	20.32	20.63	20.57		
15	64QAM	1	37	20.24	20.39	20.38	22	2
15	64QAM	1	74	20.38	20.32	20.27		
15	64QAM	36	0	19.29	19.64	19.51		
15	64QAM	36	20	19.23	19.35	19.16	21	3
15	64QAM	36	39	19.21	19.39	19.17		
15	64QAM	75	0	19.13	19.40	19.35		
Channel								
Frequency (MHz)				20890	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.30	22.55	22.17		
10	QPSK	1	25	22.06	22.43	22.20	24	0
10	QPSK	1	49	22.27	22.39	22.10		
10	QPSK	25	0	21.44	21.56	21.27		
10	QPSK	25	12	21.24	21.48	21.28	23	1
10	QPSK	25	25	21.31	21.33	21.19		
10	QPSK	50	0	21.14	21.48	21.00		
10	16QAM	1	0	21.46	21.55	21.39		
10	16QAM	1	25	21.34	21.48	21.27	23	1
10	16QAM	1	49	21.48	21.53	21.16		
10	16QAM	25	0	20.44	20.63	20.31		
10	16QAM	25	12	20.27	20.35	20.31	22	2
10	16QAM	25	25	20.13	20.44	20.21		
10	16QAM	50	0	20.27	20.45	20.11		
10	64QAM	1	0	20.38	20.51	20.53		
10	64QAM	1	25	20.11	20.54	20.20	22	2
10	64QAM	1	49	20.37	20.30	20.22		
10	64QAM	25	0	19.25	19.46	19.43		
10	64QAM	25	12	19.20	19.52	19.03	21	3
10	64QAM	25	25	19.19	19.34	19.28		
10	64QAM	50	0	19.07	19.40	19.31		
Channel								
Frequency (MHz)				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.26	22.57	22.22		
5	QPSK	1	12	22.20	22.37	22.25	24	0
5	QPSK	1	24	22.10	22.38	22.22		
5	QPSK	12	0	21.41	21.54	21.22		
5	QPSK	12	7	21.09	21.52	21.14	23	1
5	QPSK	12	13	21.30	21.42	21.23		
5	QPSK	25	0	21.07	21.41	21.00		
5	16QAM	1	0	21.63	21.54	21.47		
5	16QAM	1	12	21.17	21.54	21.24	23	1
5	16QAM	1	24	21.39	21.44	21.29		
5	16QAM	12	0	20.50	20.64	20.46		
5	16QAM	12	7	20.23	20.32	20.36	22	2
5	16QAM	12	13	20.25	20.49	20.20		
5	16QAM	25	0	20.18	20.42	20.06		
5	64QAM	1	0	20.28	20.55	20.58		
5	64QAM	1	12	20.17	20.46	20.40	22	2
5	64QAM	1	24	20.26	20.28	20.36		
5	64QAM	12	0	19.32	19.48	19.40		
5	64QAM	12	7	19.03	19.39	19.08	21	3
5	64QAM	12	13	19.03	19.49	19.26		
5	64QAM	25	0	19.01	19.46	19.34		

Band 12 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0		22.30				
10	QPSK	1	25		22.14		24	0	
10	QPSK	1	49		22.09				
10	QPSK	25	0		21.34				
10	QPSK	25	12		21.18		23	1	
10	QPSK	25	25		21.12				
10	QPSK	50	0		21.14				
10	16QAM	1	0		21.65				
10	16QAM	1	25		21.33		23	1	
10	16QAM	1	49		21.44				
10	16QAM	25	0		20.48				
10	16QAM	25	12		20.28		22	2	
10	16QAM	25	25		20.39				
10	16QAM	50	0		20.37				
10	64QAM	1	0		20.58				
10	64QAM	1	25		20.40		22	2	
10	64QAM	1	49		20.35				
10	64QAM	25	0		19.60				
10	64QAM	25	12		19.38		21	3	
10	64QAM	25	25		19.31				
10	64QAM	50	0		19.20				
Channel									
Frequency (MHz)				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0		22.08	22.13	22.20		
5	QPSK	1	12		22.15	22.14	22.12	24	0
5	QPSK	1	24		22.19	22.14	22.07		
5	QPSK	12	0		21.28	21.38	21.28		
5	QPSK	12	7		21.02	21.18	21.19	23	1
5	QPSK	12	13		21.09	21.13	21.10		
5	QPSK	25	0		21.16	21.00	21.10		
5	16QAM	1	0		21.67	21.53	21.64		
5	16QAM	1	12		21.28	21.35	21.21	23	1
5	16QAM	1	24		21.45	21.44	21.45		
5	16QAM	12	0		20.46	20.35	20.41		
5	16QAM	12	7		20.10	20.19	20.04	22	2
5	16QAM	12	13		20.37	20.27	20.30		
5	16QAM	25	0		20.25	20.25	20.31		
5	64QAM	1	0		20.60	20.41	20.41	22	2
5	64QAM	1	12		20.27	20.36	20.41		
5	64QAM	1	24		20.30	20.23	20.24		
5	64QAM	12	0		19.42	19.49	19.38		
5	64QAM	12	7		19.19	19.38	19.20	21	3
5	64QAM	12	13		19.13	19.14	19.24		
5	64QAM	25	0		19.16	19.22	19.19		
Channel									
Frequency (MHz)				23025	23095	23155			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0		22.05	22.15	22.03		
3	QPSK	1	8		22.04	22.11	22.06	24	0
3	QPSK	1	14		22.03	22.04	22.01		
3	QPSK	8	0		21.24	21.19	21.10		
3	QPSK	8	4		21.03	21.08	21.16	23	1
3	QPSK	8	7		21.08	21.05	21.07		
3	QPSK	15	0		21.09	21.08	21.09		
3	16QAM	1	0		21.48</				



Band 14 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				733						
10	QPSK	1	0	22.44	22.33	22.39	24	0		
10	QPSK	1	49	22.33	22.34	22.39				
10	QPSK	1	25	22.34	22.33	22.39				
10	QPSK	25	0	21.30	20.31	20.31				
10	QPSK	25	12	21.21	20.31	20.31				
10	QPSK	25	25	21.11	20.31	20.31	23	1		
10	QPSK	50	0	21.04	20.31	20.31				
10	16QAM	1	0	21.73	20.31	20.31				
10	16QAM	1	25	21.43	20.31	20.31				
10	16QAM	1	49	21.54	20.31	20.31				
10	16QAM	25	0	19.43	19.37	19.29	22	2		
10	16QAM	25	12	20.15	19.37	19.29				
10	16QAM	25	25	20.13	19.37	19.29				
10	16QAM	50	0	20.17	19.37	19.29				
10	64QAM	1	0	20.47	19.37	19.29				
10	64QAM	1	25	20.35	19.37	19.29	22	2		
10	64QAM	1	49	20.35	19.37	19.29				
10	64QAM	25	0	19.43	19.37	19.29				
10	64QAM	25	12	19.21	19.37	19.29				
10	64QAM	25	25	19.17	19.37	19.29				
10	64QAM	50	0	19.12	19.37	19.29	21	3		
10	64QAM	50	0	19.12	19.37	19.29				
Channel				23305	23330	23355				
Frequency (MHz)				790.5 793 795.5						
5	QPSK	1	0	22.26	22.33	22.39			24	0
5	QPSK	1	12	22.33	22.26	22.24				
5	QPSK	1	24	22.18	22.26	22.36				
5	QPSK	12	0	21.15	21.27	21.11				
5	QPSK	12	7	21.13	21.02	21.03				
5	QPSK	12	13	21.09	21.05	21.07	23	1		
5	QPSK	12	19	21.04	21.05	21.06				
5	16QAM	1	0	21.57	21.66	21.66				
5	16QAM	1	12	21.44	21.32	21.44				
5	16QAM	1	24	21.36	21.47	21.42				
5	16QAM	12	0	20.21	20.15	20.29	22	2		
5	16QAM	12	7	20.02	20.04	20.15				
5	16QAM	12	13	20.03	20.01	20.08				
5	16QAM	25	0	20.09	20.05	20.15				
5	64QAM	1	0	20.30	20.39	20.31				
5	64QAM	1	12	20.22	20.23	20.17	22	2		
5	64QAM	1	24	20.21	20.17	20.19				
5	64QAM	12	0	19.43	19.26	19.44				
5	64QAM	12	7	19.00	19.13	19.00				
5	64QAM	12	13	19.04	19.09	19.11				
5	64QAM	25	0	19.06	19.07	19.06	21	3		
5	64QAM	25	0	19.06	19.07	19.06				
Channel				26000	26340	26680				
Frequency (MHz)				1857.5 1860 1862.5						
15	QPSK	1	0	21.14	21.13	21.11			23	0
15	QPSK	1	37	21.02	21.11	21.04				
15	QPSK	1	74	21.00	21.02	21.03				
15	QPSK	36	0	20.00	20.18	20.14				
15	QPSK	36	20	20.12	20.06	20.02				
15	QPSK	36	39	20.07	20.09	20.02	22	1		
15	QPSK	75	0	19.95	20.14	19.95				
15	16QAM	1	0	20.12	20.15	20.15				
15	16QAM	1	37	20.02	20.02	19.83				
15	16QAM	1	74	20.16	20.11	20.04				
15	16QAM	36	0	19.24	19.26	19.29	21	2		
15	16QAM	36	20	18.98	19.27	18.95				
15	16QAM	36	39	19.08	19.14	19.09				
15	16QAM	75	0	19.00	19.23	19.04				
15	64QAM	1	0	19.27	19.38	19.35				
15	64QAM	1	37	19.21	19.18	19.19	21	2		
15	64QAM	1	74	19.44	19.34	19.25				
15	64QAM	36	0	18.26	18.35	18.22				
15	64QAM	36	20	18.17	18.23	18.04				
15	64QAM	36	39	18.11	18.27	18.08				
15	64QAM	75	0	18.04	18.04	18.04	20	3		
15	64QAM	75	0	18.04	18.04	18.04				
Channel				26095	26340	26685				
Frequency (MHz)				1862.5 1865 1867.5						
10	QPSK	1	0	21.18	21.06	21.08			23	0
10	QPSK	1	25	21.04	21.08	21.05				
10	QPSK	1	49	20.97	20.87	20.95				
10	QPSK	25	0	19.99	20.26	20.10				
10	QPSK	25	12	20.05	20.21	20.17				
10	QPSK	25	25	19.93	20.13	20.03	22	1		
10	QPSK	50	0	19.87	20.30	19.85				
10	16QAM	1	0	20.17	20.19	20.07				
10	16QAM	1	25	20.06	20.06	19.80				
10	16QAM	1	49	20.01	20.10	20.05				
10	16QAM	25	0	19.10	19.33	19.21	21	2		
10	16QAM	25	12	18.91	19.27	19.08				
10	16QAM	25	25	19.09	19.17	19.10				
10	16QAM	50	0	18.89	19.26	19.02				
10	64QAM	1	0	19.23	19.47	19.19				
10	64QAM	1	25	19.18	19.33	19.30	21	2		
10	64QAM	1	49	19.28	19.47	19.18				
10	64QAM	25	0	18.19	18.26	18.21				
10	64QAM	25	12	18.27	18.35	18.16				
10	64QAM	25	25	17.93	18.27	17.94				
10	64QAM	50	0	18.27	18.12	17.92	20	3		
10	64QAM	50	0	18.27	18.12	17.92				
Channel				26065	26340	26685				
Frequency (MHz)				1862.5 1865 1867.5						
5	QPSK	1	0	21.16	21.13	21.14			23	0
5	QPSK	1	12	21.03	21.06	21.03				
5	QPSK	1	24	20.92	20.99	20.83				
5	QPSK	12	0	20.02	20.15	20.23				
5	QPSK	12	7	20.07	20.16	20.04				
5	QPSK	12	13	19.95	20.10	20.18	22	1		
5	QPSK	25	0	19.95	20.17	19.99				
5	16QAM	1	0	20.16	20.19	20.19				
5	16QAM	1	12	20.19	19.95	19.82				
5	16QAM	1	24	20.11	19.98	19.83				
5	16QAM	12	0	19.26	19.26	19.23	21	2		
5	16QAM	12	7	19.08	19.30	19.14				
5	16QAM	12	13	18.99	19.15	19.14				
5	16QAM	25	0	19.07	19.13	19.06				
5	64QAM	1	0	19.39	19.49	19.19				
5	64QAM	1	12	19.20	19.31	19.17	21	2		
5	64QAM	1	24	19.45	19.46	19.17				
5	64QAM	12	0	18.36	18.23	18.10				
5	64QAM	12	7	18.17	18.31	18.21				
5	64QAM	12	13	18.13	18.15	18.17				
5	64QAM	25	0	18.25	18.15	18.03	20	3		
5	64QAM	25	0	18.25	18.15	18.03				
Channel				26095	26340	26675				
Frequency (MHz)				1851.5 1850 1813.5						
3	QPSK	1	0	21.22	21.20	21.14			23	0
3	QPSK	1	8	21.01	21.03	20.83				
3	QPSK	1	14	20.82	20.88	20.93				
3	QPSK	8	0	20.02	20.25	20.08				
3	QPSK	8	4	19.91	19.98	20.06				
3	QPSK	8	7	19.95	20.27	20.14	22	1		
3	QPSK	15	0	19.83	20.22	19.96				
3	16QAM	1	0	20.13	20.07	20.14				
3	16QAM	1	8	20.21	19.98	20.01				
3	16QAM	1	14	19.96	20.02	19.90				
3	16QAM	8	0	19.27	19.33	19.26	21	2		
3	16QAM	8	4	18.94	19.29	19.10				
3	16QAM	8	7	19.06	19.18	19.11				
3	16QAM	15	0	18.91	19.27	19.09				
3	64QAM	1	0	19.28	19.48	19.35				
3	64QAM	1	8	19.26	19.27	19.31	21	2		
3	64QAM	1	14	19.32	19.36	19.27				
3	64QAM	8	0	18.20	18.22	18.14				
3	64QAM	8	4	18.35	18.25	18.08				
3	64QAM	8	7	18.09	18.20	17.94				
3	64QAM	15	0	18.22	18.23	18.08	20	3		
3	64QAM	15	0	18.22	18.23	18.08				
Channel				26047	26340	26683				
Frequency (MHz)				1850.7 1850 1814.3						
1.4	QPSK	1	0	21.07	21.14	21.01			23	0
1.4	QPSK	1	3	21.06	21.05	20.99				
1.4	QPSK	1	5	20.85	21.09	20.98				
1.4	QPSK	3	0	21.08	21.09	21.16				
1.4	QPSK	3	1	21.01	21.12	20.99				
1.4	QPSK	3	3	20.98	21.00	20.88	22	1		
1.4	QPSK	6	0	19.82	20.13	19.89				
1.4	16QAM	1	0	20.20	20.16	20.15				
1.4	16QAM	1	3	20.12	20.00	19.84				
1.4	16QAM	1	5	20.04	20.15	19.81				
1.4	16QAM	3	0	19.82	20.19	19.89	22	1		
1.4	16QAM	3	1	20.17	20.17	20.07				
1.4	16QAM	3	3	20.07	19.99	19.88				
1.4	16QAM	6	0	19.91	19.96	19.86				
1.4	64QAM	1	0	19.42	19.45	19.37				
1.4	64QAM	1	3	19.30	19.25	19.16	21	2		
1.4										



Band 30 Ant 4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.06	22.07	22.01	24	0				
10	QPSK	1	25	22.10								
10	QPSK	1	49	22.11								
10	QPSK	25	0	21.89								
10	QPSK	25	12	21.89								
10	QPSK	25	25	21.72			23	1				
10	QPSK	50	0	21.72								
10	16QAM	1	0	21.68								
10	16QAM	1	25	21.51								
10	16QAM	1	49	21.57								
10	16QAM	25	0	20.84			22	2				
10	16QAM	25	12	20.71								
10	16QAM	25	25	20.53								
10	16QAM	50	0	20.74								
10	64QAM	1	0	20.51								
10	64QAM	1	25	20.41			22	2				
10	64QAM	1	49	20.31								
10	64QAM	25	0	19.82								
10	64QAM	25	12	19.70								
10	64QAM	25	25	19.69								
10	64QAM	50	0	19.58			21	3				
10	64QAM	50	0	19.58								
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.06	22.07	22.01				24	0	
5	QPSK	1	12	22.06	22.04	22.11						
5	QPSK	1	24	22.07	22.06	22.09						
5	QPSK	12	0	21.70	21.80	21.75						
5	QPSK	12	7	21.65	21.70	21.81						
5	QPSK	12	13	21.61	21.70	21.66	23	1				
5	QPSK	25	0	21.69	21.65	21.70						
5	16QAM	1	0	21.53	21.52	21.59						
5	16QAM	1	12	21.37	21.39	21.50						
5	16QAM	1	24	21.53	21.36	21.36						
5	16QAM	12	0	20.78	20.72	20.79	22	2				
5	16QAM	12	7	20.63	20.61	20.66						
5	16QAM	12	13	20.38	20.44	20.41						
5	16QAM	25	0	20.70	20.63	20.66						
5	64QAM	1	0	20.35	20.49	20.43						
5	64QAM	1	12	20.22	20.19	20.43	22	2				
5	64QAM	1	24	20.23	20.18	20.11						
5	64QAM	12	0	19.73	19.61	19.64						
5	64QAM	12	7	19.51	19.49	19.57						
5	64QAM	12	13	19.25	19.59	19.60						
5	64QAM	25	0	19.43	19.60	19.42	21	3				
5	64QAM	25	0	19.43	19.60	19.42						

Band 66 Ant 4												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.19	21.29	21.07	23	0				
20	QPSK	1	49	21.03	21.13	21.02						
20	QPSK	1	99	21.08	21.04	21.05						
20	QPSK	50	0	20.34	20.43	20.30						
20	QPSK	50	24	20.15	20.12	20.20						
20	QPSK	50	50	20.06	20.07	20.14	22	1				
20	QPSK	100	0	20.24	20.23	20.14						
20	16QAM	1	0	20.42	20.56	20.45						
20	16QAM	1	49	20.22	20.44	20.30						
20	16QAM	1	99	20.32	20.42	20.19						
20	16QAM	50	0	19.37	19.46	19.35	21	2				
20	16QAM	50	24	19.27	19.38	19.19						
20	16QAM	50	50	19.13	19.34	19.10						
20	16QAM	100	0	19.22	19.22	19.14						
20	64QAM	1	0	19.35	19.52	19.39						
20	64QAM	1	49	19.03	19.31	19.10	21	2				
20	64QAM	1	99	19.07	19.41	19.08						
20	64QAM	50	0	18.19	18.38	18.27						
20	64QAM	50	24	18.02	18.23	18.11						
20	64QAM	50	50	18.22	18.27	18.11						
20	64QAM	100	0	18.06	18.14	18.04	20	3				
20	64QAM	100	0	18.06	18.14	18.04						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.04	21.20	21.03				23	0	
15	QPSK	1	37	21.03	21.03	21.03						
15	QPSK	1	74	21.06	21.03	21.01						
15	QPSK	36	0	20.16	20.38	20.20						
15	QPSK	36	20	20.16	20.02	20.11						
15	QPSK	36	39	20.10	20.13	20.10	22	1				
15	QPSK	75	0	20.17	20.17	20.16						
15	16QAM	1	0	20.27	20.43	20.24						
15	16QAM	1	37	20.22	20.23	20.24						
15	16QAM	1	74	20.15	20.41	20.16						
15	16QAM	36	0	19.33	19.44	19.20	21	2				
15	16QAM	36	20	19.27	19.26	19.12						
15	16QAM	36	39	19.03	19.19	19.12						
15	16QAM	75	0	19.20	19.14	19.11						
15	64QAM	1	0	19.21	19.38	19.34						
15	64QAM	1	37	19.12	19.32	19.07	21	2				
15	64QAM	1	74	19.10	19.39	19.09						
15	64QAM	36	0	18.13	18.19	18.16						
15	64QAM	36	20	18.03	18.01	18.06						
15	64QAM	36	39	18.11	18.14	18.03						
15	64QAM	75	0	18.13	18.05	18.12	20	3				
15	64QAM	75	0	18.13	18.05	18.12						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.18	21.10	21.06				23	0	
10	QPSK	1	25	21.03	21.12	21.13						
10	QPSK	1	49	21.11	21.06	21.01						
10	QPSK	25	0	20.19	20.38	20.27						
10	QPSK	25	12	20.16	20.08	20.15						
10	QPSK	25	25	20.14	20.09	20.02	22	1				
10	QPSK	50	0	20.08	20.04	20.06						
10	16QAM	1	0	20.25	20.47	20.30						
10	16QAM	1	25	20.18	20.28	20.09						
10	16QAM	1	49	20.30	20.28	20.03						
10	16QAM	25	0	19.34	19.30	19.15	21	2				
10	16QAM	25	12	19.06	19.39	19.15						
10	16QAM	25	25	19.00	19.14	19.06						
10	16QAM	50	0	19.04	19.05	19.08						
10	64QAM	1	0	19.23	19.30	19.30						
10	64QAM	1	25	19.23	19.27	19.12	21	2				
10	64QAM	1	49	19.02	19.33	19.22						
10	64QAM	25	0	18.05	18.31	18.24						
10	64QAM	25	12	18.12	18.25	18.11						
10	64QAM	25	25	18.13	18.13	18.06						
10	64QAM	50	0	18.03	18.06	18.12	20	3				
10	64QAM	50	0	18.03	18.06	18.12						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.11	21.20	21.03				23	0	
5	QPSK	1	12	21.03	21.11	21.06						
5	QPSK	1	24	21.09	21.03	21.10						
5	QPSK	12	0	20.29	20.30	20.12						
5	QPSK	12	7	20.04	20.08	20.06						
5	QPSK	12	13	20.11	20.17	20.10	22	1				
5	QPSK	25	0	20.06	20.24	20.09						
5	16QAM	1	0	20.27	20.24	20.24						
5	16QAM	1	12	20.19	20.29	20.24						
5	16QAM	1	24	20.22	20.34	20.12						
5	16QAM	12	0	19.24	19.29	19.20	21	2				
5	16QAM	12	7	19.18	19.29	19.08						
5	16QAM	12	13	19.22	19.30	19.19						
5	16QAM	25	0	19.22	19.21	19.00						
5	64QAM	1	0	19.14	19.39	19.30						
5	64QAM	1	12	19.13	19.31	19.06	21	2				
5	64QAM	1	24	19.08	19.19	19.01						
5	64QAM	12	0	18.20	18.33	18.08						
5	64QAM	12	7	18.06	18.15	18.04						
5	64QAM	12	13	18.11	18.06	18.01						
5	64QAM	25	0	18.04	18.03	18.02	20	3				
5	64QAM	25	0	18.04	18.03	18.02						
Channel												
Frequency (MHz)												
3	QPSK	1	0	21.18	21.07	21.07				23	0	
3	QPSK	1	8	21.03	21.13	21.11						
3	QPSK	1	14	21.09	21.11	21.06						
3	QPSK	8	0	20.29	20.25	20.18						
3	QPSK	8	4	20.06	20.00	20.15						
3	QPSK	8	7	20.11	20.09	20.11	22	1				
3	QPSK	15	0	20.13	20.21	20.06						
3	16QAM	1	0	20.41	20.39	20.39						
3	16QAM	1	8	20.23	20.28	20.13						
3	16QAM	1	14	20.12	20.34	20.09						
3	16QAM	8	0	19.17	19.31	19.26	21	2				
3	16QAM	8	4	19.21	19.18	19.09						
3	16QAM	8	7	19.06	19.19	19.12						
3	16QAM	15	0	19.05	19.24	19.10						
3	64QAM	1	0	19.23	19.31	19.24						
3	64QAM	1	8	19.12	19.26	19.03	21	2				
3	64QAM	1	14	19.02	19.41	19.00						
3	64QAM	8	0	18.04	18.26	18.12						
3	64QAM	8	4	18.22	18.22	18.04						
3	64QAM	8	7	18.12	18.14	18.12						



Band 48 Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.49	22.67	22.50	22.31	24	0
20	QPSK	1	49	22.43	22.24	22.46	22.21		
20	QPSK	1	99	22.26	22.20	22.20	22.25	23	1
20	QPSK	50	0	21.19	21.36	21.18	21.35		
20	QPSK	50	24	21.19	21.19	21.11	21.16	23	1
20	QPSK	50	50	21.02	21.25	21.03	21.26		
20	QPSK	100	0	21.03	21.21	21.16	21.17	23	1
20	16QAM	1	0	21.13	21.37	21.15	21.20		
20	16QAM	1	49	21.00	21.16	21.16	21.16	22	2
20	16QAM	1	99	21.18	21.21	21.13	21.11		
20	16QAM	50	0	20.19	20.37	20.13	20.17	22	2
20	16QAM	50	24	20.01	20.20	20.05	20.01		
20	16QAM	50	50	20.28	20.19	20.29	20.05	21	3
20	16QAM	100	0	20.02	20.07	20.19	20.26		
20	64QAM	1	0	20.03	20.15	20.00	20.05	22	2
20	64QAM	1	49	20.18	20.00	20.20	20.13		
20	64QAM	1	99	20.22	20.24	20.29	20.14	21	3
20	64QAM	50	0	19.08	19.37	19.06	19.05		
20	64QAM	50	24	19.26	19.19	19.12	19.18	21	3
20	64QAM	50	50	19.18	19.17	19.17	19.12		
20	64QAM	100	0	19.13	19.05	19.19	19.27		
Channel				55315	55820	56160	56655		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	22.33	22.50	22.44	22.21	24	0
15	QPSK	1	37	22.31	22.12	22.35	22.16		
15	QPSK	1	74	22.23	22.20	22.16	22.25	23	1
15	QPSK	36	0	21.08	21.19	21.26	21.19		
15	QPSK	36	20	21.20	21.10	21.04	21.09	23	1
15	QPSK	36	39	21.19	21.07	21.19	21.04		
15	QPSK	75	0	21.17	21.16	21.09	21.03	23	1
15	16QAM	1	0	21.12	21.27	21.13	21.18		
15	16QAM	1	37	21.18	21.02	21.08	21.01	22	2
15	16QAM	1	74	21.17	21.20	21.13	21.13		
15	16QAM	36	0	20.01	20.28	20.00	20.02	22	2
15	16QAM	36	20	20.00	20.00	20.19	20.12		
15	16QAM	36	39	20.19	20.06	20.14	20.16	22	2
15	16QAM	75	0	20.03	20.17	20.05	20.07		
15	64QAM	1	0	20.16	20.14	20.16	20.14	22	2
15	64QAM	1	37	20.17	20.12	20.01	20.11		
15	64QAM	1	74	20.01	20.21	20.11	20.04	21	3
15	64QAM	36	0	19.08	19.33	19.14	19.06		
15	64QAM	36	20	19.24	19.09	19.29	19.14	21	3
15	64QAM	36	39	19.11	19.08	19.18	19.00		
15	64QAM	75	0	19.09	19.14	19.06	19.08		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.29	22.50	22.51	22.21	24	0
10	QPSK	1	25	22.35	22.11	22.27	22.14		
10	QPSK	1	49	22.09	22.21	22.21	22.06	23	1
10	QPSK	25	0	21.19	21.20	21.17	21.27		
10	QPSK	25	12	21.13	21.02	21.08	21.02	23	1
10	QPSK	25	25	21.17	21.12	21.07	21.22		
10	QPSK	50	0	21.08	21.01	21.20	21.06	23	1
10	16QAM	1	0	21.08	21.35	21.03	21.05		
10	16QAM	1	25	21.17	21.05	21.09	21.13	22	2
10	16QAM	1	49	21.01	21.17	21.13	21.03		
10	16QAM	25	0	20.12	20.17	20.01	20.11	22	2
10	16QAM	25	12	20.01	20.04	20.03	20.02		
10	16QAM	25	25	20.29	20.15	20.28	20.04	21	3
10	16QAM	50	0	20.06	20.00	20.19	20.16		
10	64QAM	1	0	20.09	20.08	20.01	20.02	22	2
10	64QAM	1	25	20.00	20.09	20.21	20.01		
10	64QAM	1	49	20.06	20.03	20.30	20.15	21	3
10	64QAM	25	0	19.04	19.21	19.07	19.09		
10	64QAM	25	12	19.05	19.16	19.08	19.06	21	3
10	64QAM	25	25	19.01	19.09	19.07	19.02		
10	64QAM	50	0	19.01	19.05	19.20	19.18		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.37	22.51	22.49	22.13	24	0
5	QPSK	1	12	22.34	22.11	22.31	22.03		
5	QPSK	1	24	22.24	22.04	22.17	22.13	23	1
5	QPSK	12	0	21.14	21.31	21.05	21.32		
5	QPSK	12	7	21.18	21.08	21.02	21.11	23	1
5	QPSK	12	13	21.02	21.21	21.00	21.24		
5	QPSK	25	0	21.02	21.00	21.20	21.07	23	1
5	16QAM	1	0	21.03	21.17	21.09	21.12		
5	16QAM	1	12	21.04	21.07	21.14	21.15	22	2
5	16QAM	1	24	21.08	21.08	21.02	21.09		
5	16QAM	12	0	20.03	20.17	20.07	20.06	22	2
5	16QAM	12	7	20.08	20.18	20.04	20.07		
5	16QAM	12	13	20.19	20.17	20.25	20.05	22	2
5	16QAM	25	0	20.01	20.09	20.21	20.19		
5	64QAM	1	0	20.08	20.06	20.09	20.09	22	2
5	64QAM	1	12	20.07	20.01	20.02	20.04		
5	64QAM	1	24	20.24	20.04	20.06	20.06	21	3
5	64QAM	12	0	19.02	19.29	19.00	19.20		
5	64QAM	12	7	19.08	19.20	19.05	19.08	21	3
5	64QAM	12	13	19.09	19.02	19.14	19.05		
5	64QAM	25	0	19.14	19.07	19.19	19.24		



Reduced Power Mode for Receiver on for WWAN

Table for Band 2 Ant 4 SA DSI2. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), and MPR (dB). Rows list various configurations for QPSK, 16QAM, and 64QAM across different bandwidths and modulation rates.

Table for Band 4 Ant 4 SA DSI2. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), and MPR (dB). Rows list various configurations for QPSK, 16QAM, and 64QAM across different bandwidths and modulation rates.

Table for Band 25 Ant 4 SA DSI2. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), and MPR (dB). Rows list various configurations for QPSK, 16QAM, and 64QAM across different bandwidths and modulation rates.



Band 66 Ant 4 SA DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132222	132572			
Frequency (MHz)				1723	1745	1773			
20	QPSK	1	0	20.72	20.83	20.59	22	0	
20	QPSK	1	49	20.58	20.60	20.55			
20	QPSK	1	99	20.56	20.54	20.53			
20	QPSK	50	0	20.34	20.43	20.30			
20	QPSK	30	24	20.15	20.12	20.20	21.5	0.5	
20	QPSK	50	50	20.26	20.27	20.14			
20	QPSK	100	0	20.21	20.23	20.14			
20	16QAM	1	0	20.42	20.56	20.45			
20	16QAM	1	49	20.22	20.44	20.30	21.5	0.5	
20	16QAM	1	99	20.32	20.42	20.19			
20	16QAM	50	0	19.37	19.46	19.35			
20	16QAM	50	24	19.27	19.38	19.19			
20	16QAM	50	50	19.13	19.34	19.10	20.5	1.5	
20	16QAM	100	0	19.22	19.22	19.14			
20	64QAM	1	0	19.35	19.52	19.39			
20	64QAM	1	49	19.03	19.31	19.10	20.5	1.5	
20	64QAM	1	99	19.07	19.41	19.08			
20	64QAM	50	0	18.19	18.38	18.27			
20	64QAM	50	24	18.12	18.23	18.11	19.5	2.5	
20	64QAM	50	50	18.18	18.27	18.11			
20	64QAM	100	0	18.15	18.14	18.04			
Channel				132475	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	20.64	20.75	20.52	22	0	
15	QPSK	1	37	20.57	20.58	20.53			
15	QPSK	1	74	20.56	20.53	20.54			
15	QPSK	36	0	20.16	20.38	20.20			
15	QPSK	36	20	20.16	20.02	20.11	21.5	0.5	
15	QPSK	36	39	20.10	20.13	20.12			
15	QPSK	75	0	20.17	20.17	20.16			
15	16QAM	1	0	20.37	20.37	20.43			
15	16QAM	1	37	20.22	20.23	20.24	21.5	0.5	
15	16QAM	1	74	20.15	20.41	20.18			
15	16QAM	36	0	19.33	19.44	19.20			
15	16QAM	36	20	19.27	19.26	19.12	20.5	1.5	
15	16QAM	36	39	19.03	19.19	19.18			
15	16QAM	75	0	19.20	19.14	19.16			
15	64QAM	1	0	19.21	19.38	19.34			
15	64QAM	1	37	19.09	19.32	19.07	20.5	1.5	
15	64QAM	1	74	19.19	19.39	19.09			
15	64QAM	36	0	18.13	18.19	18.16			
15	64QAM	36	20	18.09	18.01	18.03	19.5	2.5	
15	64QAM	36	39	18.05	18.14	18.03			
15	64QAM	75	0	18.06	18.05	18.01			
Channel				132922	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	20.69	20.73	20.61	22	0	
10	QPSK	1	25	20.58	20.60	20.53			
10	QPSK	1	49	20.55	20.51	20.51			
10	QPSK	25	0	20.19	20.38	20.27			
10	QPSK	25	12	20.16	20.17	20.15	21.5	0.5	
10	QPSK	25	25	20.14	20.06	20.02			
10	QPSK	50	0	20.08	20.04	20.05			
10	16QAM	1	0	20.25	20.47	20.30			
10	16QAM	1	25	20.18	20.28	20.09	21.5	0.5	
10	16QAM	1	49	20.30	20.28	20.03			
10	16QAM	25	0	19.34	19.30	19.15			
10	16QAM	25	12	19.08	19.30	19.15	20.5	1.5	
10	16QAM	25	25	19.00	19.14	19.16			
10	16QAM	50	0	19.04	19.05	19.08			
10	64QAM	1	0	19.23	19.30	19.30			
10	64QAM	1	25	19.14	19.27	19.12	20.5	1.5	
10	64QAM	1	49	19.13	19.33	19.15			
10	64QAM	25	0	18.05	18.31	18.24			
10	64QAM	25	12	18.14	18.25	18.11	19.5	2.5	
10	64QAM	25	25	18.12	18.13	18.11			
10	64QAM	50	0	18.16	18.20	18.16			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	20.65	20.81	20.59	22	0	
5	QPSK	1	12	20.55	20.59	20.54			
5	QPSK	1	24	20.55	20.54	20.53			
5	QPSK	12	0	20.29	20.30	20.12			
5	QPSK	12	7	20.04	20.05	20.05	21.5	0.5	
5	QPSK	12	13	20.11	20.17	20.10			
5	QPSK	25	0	20.06	20.24	20.09			
5	16QAM	1	0	20.27	20.43	20.24			
5	16QAM	1	12	20.19	20.29	20.24	21.5	0.5	
5	16QAM	1	24	20.22	20.34	20.12			
5	16QAM	12	0	19.24	19.29	19.20			
5	16QAM	12	7	19.18	19.29	19.08	20.5	1.5	
5	16QAM	12	13	19.23	19.30	19.24			
5	16QAM	25	0	19.22	19.21	19.06			
5	64QAM	1	0	19.14	19.39	19.32			
5	64QAM	1	12	19.17	19.31	19.06	20.5	1.5	
5	64QAM	1	24	19.13	19.19	19.01			
5	64QAM	12	0	18.20	18.33	18.08			
5	64QAM	12	7	18.06	18.15	18.04	19.5	2.5	
5	64QAM	12	13	18.05	18.06	18.01			
5	64QAM	25	0	18.08	18.03	18.05			
Channel				131997	132322	132665			
Frequency (MHz)				1710.7	1745	1779.3			
3	QPSK	1	0	20.73	20.76	20.59	22	0	
3	QPSK	1	8	20.58	20.56	20.53			
3	QPSK	1	14	20.55	20.52	20.53			
3	QPSK	8	0	20.29	20.25	20.18			
3	QPSK	8	4	20.12	20.20	20.15	21.5	0.5	
3	QPSK	8	7	20.11	20.09	20.11			
3	QPSK	15	0	20.13	20.21	20.12			
3	16QAM	1	0	20.41	20.39	20.39			
3	16QAM	1	8	20.23	20.28	20.13	21.5	0.5	
3	16QAM	1	14	20.12	20.34	20.09			
3	16QAM	8	0	19.17	19.31	19.28			
3	16QAM	8	4	19.21	19.18	19.09	20.5	1.5	
3	16QAM	8	7	19.13	19.19	19.14			
3	16QAM	15	0	19.05	19.24	19.10			
3	64QAM	1	0	19.23	19.31	19.24			
3	64QAM	1	8	19.22	19.26	19.21	20.5	1.5	
3	64QAM	1	14	19.21	19.25	19.16			
3	64QAM	8	0	18.04	18.28	18.12			
3	64QAM	8	4	18.17	18.22	18.04	19.5	2.5	
3	64QAM	8	7	18.17	18.14	18.16			
3	64QAM	15	0	18.12	18.10	18.13			
Channel				131979	132322	132685			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	20.58	20.66	20.56	22	0	
1.4	QPSK	1	3	20.59	20.60	20.53			
1.4	QPSK	1	5	20.57	20.52	20.54			
1.4	QPSK	3	0	20.58	20.58	20.55			
1.4	QPSK	3	1	20.53	20.53	20.53			
1.4	QPSK	3	3	20.50	20.51	20.57			
1.4	QPSK	6	0	20.14	20.21	20.15	21.5	0.5	
1.4	16QAM	1	0	20.27	20.39	20.38			
1.4	16QAM	1	3	20.15	20.34	20.24			
1.4	16QAM	1	5	20.18	20.40	20.08	21.5	0.5	
1.4	16QAM	3	0	20.05	20.10	20.04			
1.4	16QAM	3	1	20.22	20.40	20.31			
1.4	16QAM	3	3	20.14	20.37	20.15			
1.4	16QAM	6	0	18.14	18.09	18.12	20.5	1.5	
1.4	64QAM	1	0	19.20	19.38	19.25			
1.4	64QAM	1	3	19.20	19.24	19.16			
1.4	64QAM	1	5	19.02	19.34	19.13	20.5	1.5	
1.4	64QAM	3	0	19.33	19.37	19.30			
1.4	64QAM	3	1	19.17	19.13	19.03			
1.4	64QAM	3	3	19.08	19.26	19.23			
1.4	64QAM	6	0	18.06	18.06	18.01	19.5	2.5	



Band 48 Ant 5 SA DSI2

Channel	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	55340	55830	56150	56640		
Frequency (MHz)	3560	3609	3641	3690		
20 QPSK 1 0	16.42	16.63	16.44	16.20	18	0
20 QPSK 1 49	16.38	16.27	16.50	16.24		
20 QPSK 1 99	16.22	16.21	16.17	16.28		
20 QPSK 50 0	16.40	16.59	16.46	16.21		
20 QPSK 50 24	16.34	16.24	16.44	16.16	18	0
20 QPSK 50 50	16.16	16.14	16.13	16.22		
20 QPSK 100 0	16.38	16.54	16.45	16.24		
20 16QAM 1 0	16.42	16.24	16.21	16.21		
20 16QAM 1 49	16.34	16.21	16.46	16.21	18	0
20 16QAM 1 99	16.17	16.18	16.12	16.23		
20 16QAM 50 0	16.37	16.32	16.40	16.17		
20 16QAM 50 24	16.27	16.19	16.37	16.09		
20 16QAM 50 50	16.14	16.06	16.05	16.19	18	0
20 16QAM 100 0	16.33	16.62	16.37	16.21		
20 64QAM 1 0	16.41	16.58	16.42	16.21		
20 64QAM 1 49	16.35	16.20	16.46	16.19		
20 64QAM 1 99	16.18	16.15	16.13	16.21	18	0
20 64QAM 50 0	16.32	16.31	16.41	16.17		
20 64QAM 50 24	16.29	16.21	16.36	16.10		
20 64QAM 50 50	16.12	16.07	16.09	16.14		
20 64QAM 100 0	16.30	16.58	16.39	16.17		
Channel	55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3557.5	3608	3642	3692.5		
15 QPSK 1 0	16.35	16.61	16.40	16.12	18	0
15 QPSK 1 37	16.33	16.24	16.45	16.17		
15 QPSK 1 74	16.19	16.18	16.14	16.21		
15 QPSK 36 0	16.34	16.51	16.38	16.19		
15 QPSK 36 20	16.32	16.18	16.39	16.10	18	0
15 QPSK 36 39	16.10	16.12	16.06	16.16		
15 QPSK 75 0	16.35	16.47	16.39	16.21		
15 16QAM 1 0	16.37	16.51	16.36	16.15		
15 16QAM 1 37	16.28	16.16	16.42	16.14	18	0
15 16QAM 1 74	16.13	16.14	16.05	16.19		
15 16QAM 36 0	16.34	16.27	16.32	16.12		
15 16QAM 36 20	16.24	16.16	16.34	16.05		
15 16QAM 36 39	16.09	16.03	16.00	16.11	18	0
15 16QAM 75 0	16.28	16.54	16.32	16.14		
15 64QAM 1 0	16.37	16.56	16.37	16.16		
15 64QAM 1 37	16.27	16.14	16.43	16.15		
15 64QAM 1 74	16.14	16.08	16.10	16.15	18	0
15 64QAM 36 0	16.29	16.55	16.34	16.13		
15 64QAM 36 20	16.26	16.15	16.32	16.07		
15 64QAM 36 39	16.08	16.10	16.05	16.08		
15 64QAM 75 0	16.25	16.53	16.33	16.13		
Channel	55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3525	3575.5	3612.5	3665		
10 QPSK 1 0	16.39	16.50	16.40	16.17	18	0
10 QPSK 1 25	16.34	16.24	16.45	16.16		
10 QPSK 1 49	16.15	16.19	16.14	16.25		
10 QPSK 25 0	16.37	16.56	16.42	16.14		
10 QPSK 25 12	16.30	16.17	16.42	16.10	18	0
10 QPSK 25 25	16.13	16.07	16.10	16.14		
10 QPSK 50 0	16.33	16.48	16.37	16.20		
10 16QAM 1 0	16.36	16.47	16.36	16.13		
10 16QAM 1 25	16.31	16.15	16.40	16.15	18	0
10 16QAM 1 49	16.10	16.14	16.08	16.20		
10 16QAM 25 0	16.31	16.26	16.37	16.11		
10 16QAM 25 12	16.24	16.13	16.31	16.02		
10 16QAM 25 25	16.08	16.02	16.03	16.12	18	0
10 16QAM 50 0	16.29	16.56	16.31	16.14		
10 64QAM 1 0	16.39	16.54	16.40	16.17		
10 64QAM 1 25	16.28	16.16	16.41	16.15		
10 64QAM 1 49	16.11	16.11	16.09	16.13	18	0
10 64QAM 25 0	16.29	16.51	16.37	16.11		
10 64QAM 25 12	16.26	16.19	16.32	16.05		
10 64QAM 25 25	16.06	16.02	16.01	16.11		
10 64QAM 50 0	16.28	16.55	16.37	16.11		
Channel	55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3522.5	3577	3613	3677.5		
5 QPSK 1 0	16.35	16.56	16.37	16.14	18	0
5 QPSK 1 12	16.31	16.23	16.45	16.17		
5 QPSK 1 24	16.17	16.18	16.12	16.25		
5 QPSK 12 0	16.37	16.51	16.40	16.13		
5 QPSK 12 7	16.26	16.18	16.40	16.13	18	0
5 QPSK 12 13	16.12	16.12	16.09	16.19		
5 QPSK 25 0	16.34	16.50	16.39	16.18		
5 16QAM 1 0	16.35	16.51	16.38	16.15		
5 16QAM 1 12	16.31	16.16	16.43	16.16	18	0
5 16QAM 1 24	16.11	16.13	16.05	16.18		
5 16QAM 12 0	16.33	16.28	16.34	16.13		
5 16QAM 12 7	16.21	16.11	16.29	16.05		
5 16QAM 12 13	16.10	16.00	16.01	16.14	18	0
5 16QAM 25 0	16.30	16.59	16.34	16.19		
5 64QAM 1 0	16.34	16.51	16.35	16.19		
5 64QAM 1 12	16.33	16.17	16.43	16.17		
5 64QAM 1 24	16.11	16.09	16.09	16.14	18	0
5 64QAM 12 0	16.29	16.53	16.33	16.09		
5 64QAM 12 7	16.24	16.16	16.30	16.03		
5 64QAM 12 13	16.05	16.04	16.07	16.11		
5 64QAM 25 0	16.25	16.51	16.35	16.13		



Band 7 Ant 1 NSA DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.64	21.89	21.64			
20	QPSK	1	49	21.51	21.68	21.65	23	0	
20	QPSK	1	99	21.55	21.67	21.52			
20	QPSK	50	0	21.62	21.77	21.69			
20	QPSK	50	24	21.56	21.99	21.45	23	0	
20	QPSK	50	50	21.47	21.73	21.61			
20	QPSK	100	0	21.54	21.64	21.58			
20	16QAM	1	0	21.77	21.82	21.79			
20	16QAM	1	49	21.73	21.85	21.68	23	0	
20	16QAM	1	99	21.70	21.81	21.71			
20	16QAM	50	0	20.73	20.83	20.68			
20	16QAM	50	24	20.68	20.81	20.71			
20	16QAM	50	50	20.58	20.68	20.53	22	1	
20	16QAM	100	0	20.54	20.70	20.58			
20	64QAM	1	0	20.70	20.76	20.65			
20	64QAM	1	49	20.53	20.61	20.51	22	1	
20	64QAM	1	99	20.57	20.62	20.62			
20	64QAM	50	0	19.80	20.00	19.81			
20	64QAM	50	24	19.78	19.92	19.87			
20	64QAM	50	50	19.62	19.73	19.71	21	2	
20	64QAM	100	0	19.71	19.72	19.71			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	21.66	21.83	21.66	23	0	
15	QPSK	1	74	21.61	21.86	21.64			
15	QPSK	1	148	21.60	21.70	21.61			
15	QPSK	36	0	21.69	21.80	21.77			
15	QPSK	36	20	21.56	21.68	21.47	23	0	
15	QPSK	36	39	21.55	21.72	21.83			
15	QPSK	75	0	21.58	21.62	21.58			
15	16QAM	1	0	21.84	21.85	21.80	23	0	
15	16QAM	1	37	21.72	21.81	21.71			
15	16QAM	1	74	21.67	21.81	21.69			
15	16QAM	36	0	20.74	20.84	20.66			
15	16QAM	36	20	20.61	20.74	20.73	22	1	
15	16QAM	36	39	20.57	20.69	20.50			
15	16QAM	75	0	20.60	20.75	20.57			
15	64QAM	1	0	20.75	20.83	20.71			
15	64QAM	1	37	20.53	20.81	20.47	22	1	
15	64QAM	1	74	20.54	20.67	20.60			
15	64QAM	36	0	19.83	19.92	19.83			
15	64QAM	36	20	19.76	19.86	19.84	21	2	
15	64QAM	36	39	19.62	19.82	19.65			
15	64QAM	75	0	19.74	19.74	19.77			
Channel				20900	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	21.63	21.84	21.65	23	0	
10	QPSK	1	25	21.51	21.62	21.59			
10	QPSK	1	49	21.59	21.64	21.57			
10	QPSK	25	0	21.65	21.62	21.77			
10	QPSK	25	12	21.62	21.65	21.45	23	0	
10	QPSK	25	25	21.56	21.66	21.65			
10	QPSK	50	0	21.59	21.63	21.50			
10	16QAM	1	0	21.79	21.83	21.81	23	0	
10	16QAM	1	25	21.79	21.80	21.74			
10	16QAM	1	49	21.70	21.77	21.66			
10	16QAM	25	0	20.77	20.82	20.72			
10	16QAM	25	12	20.68	20.74	20.73	22	1	
10	16QAM	25	25	20.61	20.69	20.52			
10	16QAM	50	0	20.62	20.77	20.55			
10	64QAM	1	0	20.69	20.75	20.64	22	1	
10	64QAM	1	25	20.49	20.63	20.53			
10	64QAM	1	49	20.59	20.69	20.65			
10	64QAM	25	0	19.80	19.98	19.81			
10	64QAM	25	12	19.73	19.85	19.90	21	2	
10	64QAM	25	25	19.70	19.80	19.65			
10	64QAM	50	0	19.77	19.76	19.68			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	21.80	21.85	21.72	23	0	
5	QPSK	1	12	21.59	21.64	21.63			
5	QPSK	1	24	21.54	21.66	21.57			
5	QPSK	12	0	21.62	21.74	21.77			
5	QPSK	12	7	21.59	21.64	21.52	23	0	
5	QPSK	12	13	21.53	21.66	21.64			
5	QPSK	25	0	21.55	21.62	21.57			
5	16QAM	1	0	21.78	21.80	21.74	23	0	
5	16QAM	1	12	21.72	21.80	21.73			
5	16QAM	1	24	21.68	21.79	21.65			
5	16QAM	12	0	20.76	20.84	20.68			
5	16QAM	12	7	20.69	20.81	20.70	22	1	
5	16QAM	12	13	20.59	20.64	20.54			
5	16QAM	25	0	20.59	20.71	20.56			
5	64QAM	1	0	20.71	20.77	20.66			
5	64QAM	1	12	20.51	20.62	20.52	22	1	
5	64QAM	1	24	20.55	20.67	20.65			
5	64QAM	12	0	19.82	19.94	19.86			
5	64QAM	12	7	19.80	19.86	19.89	21	2	
5	64QAM	12	13	19.68	19.80	19.73			
5	64QAM	25	0	19.75	19.75	19.76			

Band 30 Ant 1 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
10	QPSK	1	0		22.79				
10	QPSK	1	25		22.57		24	0	
10	QPSK	1	49		22.65				
10	QPSK	25	0		21.88				
10	QPSK	25	12		21.71		23	1	
10	QPSK	25	25		21.84				
10	QPSK	50	0		21.68				
10	16QAM	1	0		21.82				
10	16QAM	1	25		21.75		23	1	
10	16QAM	1	49		21.68				
10	16QAM	25	0		20.88				
10	16QAM	25	12		20.77		22	2	
10	16QAM	25	25		20.81				
10	16QAM	50	0		20.91				
10	64QAM	1	0		20.89				
10	64QAM	1	25		20.76		22	2	
10	64QAM	1	49		20.81				
10	64QAM	25	0		19.89				
10	64QAM	25	12		19.85		21	3	
10	64QAM	25	25		19.92				
10	64QAM	50	0		19.69				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	22.69	22.65	22.70	24	0	
5	QPSK	1	12	22.53	22.50	22.50			
5	QPSK	1	24	22.58	22.59	22.54			
5	QPSK	12	0	21.73	21.81	21.80			
5	QPSK	12	7	21.57	21.56	21.65	23	1	
5	QPSK	12	13	21.68	21.76	21.78			
5	QPSK	25	0	21.59	21.52	21.53			
5	16QAM	1	0	21.76	21.78	21.75	23	1	
5	16QAM	1	12	21.63	21.68	21.66			
5	16QAM	1	24	21.57	21.59	21.55			
5	16QAM	12	0	20.71	20.83	20.76			
5	16QAM	12	7	20.64	20.70	20.59	22	2	
5	16QAM	12	13	20.68	20.71	20.66			
5	16QAM	25	0	20.66	20.69	20.64			
5	64QAM	1	0	20.85	20.82	20.74			
5	64QAM	1	12	20.60	20.71	20.68	22	2	
5	64QAM	1	24	20.77	20.73	20.65			
5	64QAM	12	0	19.89	19.82	19.81			
5	64QAM	12	7	19.74	19.80	19.83	21	3	
5	64QAM	12	13	19.78	19.81	19.89			
5	64QAM	25	0	19.52	19.57	19.63			



Band 4 Ant 4 NSA DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1890	1890	1900		
20	QPSK	1	0	16.97	17.15	16.95		
20	QPSK	1	49	16.81	17.00	16.78	18.5	0
20	QPSK	1	99	16.79	16.88	16.82		
20	QPSK	50	0	16.59	16.80	16.76		
20	QPSK	50	24	16.50	16.74	16.71	18.5	0
20	QPSK	50	50	16.56	16.74	16.75		
20	QPSK	100	0	16.59	16.70	16.68		
20	16QAM	1	0	16.57	16.56	16.55		
20	16QAM	1	49	16.56	16.71	16.68	18.5	0
20	16QAM	1	99	16.57	16.61	16.56		
20	16QAM	50	0	16.59	16.71	16.68		
20	16QAM	50	24	16.65	16.76	16.66	18.5	0
20	16QAM	50	50	16.56	16.58	16.51		
20	16QAM	100	0	16.74	16.85	16.87		
20	64QAM	1	0	16.54	16.76	16.73		
20	64QAM	1	49	16.62	16.71	16.66	18.5	0
20	64QAM	1	99	16.54	16.54	16.55		
20	64QAM	50	0	16.59	16.66	16.72		
20	64QAM	50	24	16.59	16.62	16.58	18.5	0
20	64QAM	50	50	16.61	16.70	16.71		
20	64QAM	100	0	16.57	16.59	16.52		
Channel								
Frequency (MHz)				1875	1890	19125	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	16.94	17.13	16.96		
15	QPSK	1	37	16.80	17.04	16.74	18.5	0
15	QPSK	1	74	16.79	16.90	16.86		
15	QPSK	36	0	16.55	16.83	16.72		
15	QPSK	36	20	16.56	16.78	16.67	18.5	0
15	QPSK	36	39	16.65	16.71	16.66		
15	QPSK	75	0	16.53	16.61	16.54		
15	16QAM	1	0	16.62	16.68	16.61		
15	16QAM	1	37	16.59	16.63	16.54	18.5	0
15	16QAM	1	74	16.59	16.74	16.63		
15	16QAM	36	0	16.52	16.61	16.54		
15	16QAM	36	20	16.68	16.79	16.81	18.5	0
15	16QAM	36	39	16.71	16.71	16.77		
15	16QAM	75	0	16.72	16.87	16.89		
15	16QAM	1	0	16.56	16.74	16.73	18.5	0
15	64QAM	1	37	16.57	16.76	16.75		
15	64QAM	1	74	16.60	16.68	16.65		
15	64QAM	36	0	16.53	16.55	16.55		
15	64QAM	36	20	16.55	16.75	16.75	18.5	0
15	64QAM	36	39	16.58	16.66	16.63		
15	64QAM	75	0	16.54	16.56	16.58		
Channel								
Frequency (MHz)				1850	1890	19150	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	16.92	17.11	16.93		
10	QPSK	1	25	16.80	16.99	16.80	18.5	0
10	QPSK	1	49	16.81	16.89	16.80		
10	QPSK	25	0	16.66	16.76	16.72		
10	QPSK	25	12	16.62	16.83	16.80	18.5	0
10	QPSK	25	25	16.58	16.76	16.75		
10	QPSK	50	0	16.64	16.74	16.69		
10	16QAM	1	0	16.59	16.62	16.51		
10	16QAM	1	25	16.58	16.78	16.68	18.5	0
10	16QAM	1	49	16.58	16.66	16.64		
10	16QAM	25	0	16.53	16.63	16.60		
10	16QAM	25	12	16.62	16.82	16.79	18.5	0
10	16QAM	25	25	16.56	16.78	16.75		
10	16QAM	50	0	16.71	16.86	16.91		
10	64QAM	1	0	16.55	16.75	16.66		
10	64QAM	1	25	16.62	16.76	16.69	18.5	0
10	64QAM	1	49	16.57	16.57	16.51		
10	64QAM	25	0	16.61	16.71	16.64	18.5	0
10	64QAM	25	12	16.60	16.54	16.56		
10	64QAM	25	25	16.58	16.70	16.67		
10	64QAM	50	0	16.60	16.54	16.54		
Channel								
Frequency (MHz)				1825	1890	19175	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	16.94	17.12	16.98		
5	QPSK	1	12	16.77	16.80	16.80	18.5	0
5	QPSK	1	24	16.77	16.88	16.83		
5	QPSK	12	0	16.62	16.77	16.75		
5	QPSK	12	7	16.64	16.67	16.66	18.5	0
5	QPSK	12	13	16.56	16.60	16.57		
5	QPSK	25	0	16.59	16.70	16.67		
5	16QAM	1	0	16.59	16.63	16.61		
5	16QAM	1	12	16.59	16.73	16.70	18.5	0
5	16QAM	1	24	16.53	16.59	16.56		
5	16QAM	12	0	16.86	17.02	16.97		
5	16QAM	12	7	16.67	16.86	16.75	18.5	0
5	16QAM	12	13	16.56	16.73	16.78		
5	16QAM	25	0	16.71	16.83	16.85		
5	16QAM	25	1	16.64	16.74	16.69	18.5	0
5	64QAM	1	12	16.61	16.60	16.59		
5	64QAM	1	24	16.57	16.66	16.67	18.5	0
5	64QAM	12	0	16.52	16.55	16.59		
5	64QAM	12	7	16.63	16.70	16.66	18.5	0
5	64QAM	12	13	16.62	16.69	16.69		
5	64QAM	25	0	16.60	16.61	16.52		
Channel								
Frequency (MHz)				18915	18900	19185	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	16.99	17.07	16.96		
3	QPSK	1	8	16.77	17.04	16.77	18.5	0
3	QPSK	1	14	16.81	16.91	16.85		
3	QPSK	8	0	16.61	16.77	16.78		
3	QPSK	8	4	16.61	16.82	16.81	18.5	0
3	QPSK	8	7	16.57	16.62	16.59		
3	QPSK	15	0	16.60	16.76	16.65		
3	16QAM	1	0	16.61	16.59	16.52		
3	16QAM	1	8	16.61	16.70	16.71	18.5	0
3	16QAM	1	14	16.58	16.60	16.55		
3	16QAM	8	0	16.85	17.00	16.94		
3	16QAM	8	4	16.65	16.83	16.73	18.5	0
3	16QAM	8	7	16.58	16.78	16.81		
3	16QAM	15	0	16.72	16.87	16.87		
3	64QAM	1	0	16.59	16.70	16.67		
3	64QAM	1	8	16.54	16.61	16.56	18.5	0
3	64QAM	1	14	16.65	16.73	16.67		
3	64QAM	8	0	16.59	16.59	16.58		
3	64QAM	8	4	16.57	16.72	16.71	18.5	0
3	64QAM	8	7	16.64	16.68	16.70		
3	64QAM	15	0	16.58	16.61	16.51		
Channel								
Frequency (MHz)				18907	18900	19193	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	16.95	17.06	16.94		
1.4	QPSK	1	3	16.83	16.89	16.84	18.5	0
1.4	QPSK	1	5	16.79	16.93	16.82		
1.4	QPSK	3	0	16.64	16.65	16.75		
1.4	QPSK	3	1	16.62	16.73	16.69	18.5	0
1.4	QPSK	3	3	16.59	16.61	16.53		
1.4	QPSK	6	0	16.60	16.69	16.68		
1.4	16QAM	1	0	16.65	16.65	16.68	18.5	0
1.4	16QAM	1	3	16.57	16.70	16.63		
1.4	16QAM	1	5	16.56	16.54	16.50		
1.4	16QAM	3	0	16.92	17.04	16.93	18.5	0
1.4	16QAM	3	1	16.61	16.85	16.81		
1.4	16QAM	3	3	16.55	16.75	16.73		
1.4	16QAM	6	0	16.7	16.89	16.86	18.5	0
1.4	64QAM	1	0	16.57	16.74	16.65		
1.4	64QAM	1	3	16.53	16.62	16.57		
1.4	64QAM	1	5	16.56	16.74	16.62	18.5	0
1.4	64QAM	3	0	16.53	16.58	16.51		
1.4	64QAM	3	1	16.60	16.70	16.67		
1.4	64QAM	3	3	16.57	16.69	16.68	18.5	0
1.4	64QAM	6	0	16.54	16.61	16.57		

Band 4 Ant 4 NSA DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2050	1732.5	2030		
20	QPSK	1	0	18.34	18.46	18.39		
20	QPSK	1	49	18.24	18.31	18.23	19.5	0
20	QPSK	1	99	18.33	18.37	18.20		
20	QPSK	50	0	18.27	18.26	18.20		
20	QPSK	50	24	18.22	18.25	18.25	19.5	0
20	QPSK	50	50	18.18	18.18	18.17		
20	QPSK	100	0	18.19	18.27	18.24		
20	16QAM	1	0	18.08	18.22	18.08		
20	16QAM	1	49	18.18				



Band 7 Ant 4 NSA DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	13.75	13.78	13.69				
20	QPSK	1	49	13.45	13.73	13.45	15	0		
20	QPSK	1	99	13.43	13.59	13.40				
20	QPSK	50	0	13.52	13.63	13.40				
20	QPSK	50	24	13.41	13.52	13.42	15	0		
20	QPSK	50	50	13.37	13.57	13.31				
20	QPSK	100	0	13.55	13.67	13.49				
20	16QAM	1	0	13.42	13.65	13.43				
20	16QAM	1	49	13.38	13.57	13.31	15	0		
20	16QAM	1	99	13.56	13.60	13.47				
20	16QAM	50	0	13.41	13.53	13.37				
20	16QAM	50	24	13.42	13.55	13.34				
20	16QAM	50	50	13.56	13.61	13.43	15	0		
20	16QAM	100	0	13.42	13.66	13.41				
20	64QAM	1	0	13.39	13.59	13.35				
20	64QAM	1	49	13.48	13.62	13.49	15	0		
20	64QAM	1	99	13.39	13.68	13.43				
20	64QAM	50	0	13.35	13.51	13.35				
20	64QAM	50	24	13.50	13.65	13.42				
20	64QAM	50	50	13.45	13.63	13.45	15	0		
20	64QAM	100	0	13.41	13.49	13.36				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.51	13.76	13.45				
15	QPSK	1	37	13.40	13.72	13.41	15	0		
15	QPSK	1	74	13.41	13.52	13.37				
15	QPSK	36	0	13.47	13.62	13.39				
15	QPSK	36	20	13.40	13.69	13.35	15	0		
15	QPSK	36	39	13.36	13.50	13.25				
15	QPSK	75	0	13.53	13.58	13.49				
15	16QAM	1	0	13.35	13.58	13.38				
15	16QAM	1	37	13.33	13.56	13.26	15	0		
15	16QAM	1	74	13.56	13.51	13.38				
15	16QAM	36	0	13.37	13.54	13.28				
15	16QAM	36	20	13.37	13.49	13.27	15	0		
15	16QAM	36	39	13.55	13.61	13.33				
15	16QAM	75	0	13.36	13.66	13.36				
15	64QAM	1	0	13.37	13.57	13.28				
15	64QAM	1	37	13.39	13.56	13.47	15	0		
15	64QAM	1	74	13.32	13.66	13.41				
15	64QAM	36	0	13.31	13.42	13.33				
15	64QAM	36	20	13.41	13.63	13.41	15	0		
15	64QAM	36	39	13.43	13.53	13.40				
15	64QAM	75	0	13.34	13.40	13.33				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.38	13.55	13.25				
10	QPSK	1	25	13.22	13.49	13.22	15	0		
10	QPSK	1	49	13.22	13.34	13.22				
10	QPSK	25	0	13.34	13.37	13.19				
10	QPSK	25	12	13.21	13.49	13.20	15	0		
10	QPSK	25	25	13.16	13.39	13.06				
10	QPSK	50	0	13.37	13.42	13.31				
10	16QAM	1	0	13.20	13.39	13.21	15	0		
10	16QAM	1	25	13.15	13.38	13.13				
10	16QAM	1	49	13.39	13.37	13.22				
10	16QAM	25	0	13.23	13.45	13.16	15	0		
10	16QAM	25	12	13.17	13.32	13.16				
10	16QAM	25	25	13.38	13.44	13.25				
10	16QAM	50	0	13.23	13.41	13.17	15	0		
10	64QAM	1	0	13.14	13.32	13.13				
10	64QAM	1	25	13.29	13.38	13.29	15	0		
10	64QAM	1	49	13.17	13.50	13.23				
10	64QAM	25	0	13.17	13.34	13.16	15	0		
10	64QAM	25	12	13.31	13.46	13.19				
10	64QAM	25	25	13.20	13.38	13.22				
10	64QAM	50	0	13.15	13.26	13.17	15	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.34	13.59	13.28				
5	QPSK	1	12	13.23	13.55	13.24	15	0		
5	QPSK	1	24	13.24	13.35	13.20				
5	QPSK	12	0	13.30	13.45	13.22				
5	QPSK	12	7	13.23	13.52	13.18	15	0		
5	QPSK	12	13	13.19	13.33	13.08				
5	QPSK	25	0	13.36	13.41	13.32				
5	16QAM	1	0	13.18	13.41	13.21	15	0		
5	16QAM	1	12	13.16	13.39	13.09				
5	16QAM	1	24	13.39	13.34	13.21				
5	16QAM	12	0	13.20	13.37	13.11	15	0		
5	16QAM	12	7	13.20	13.32	13.10				
5	16QAM	12	13	13.38	13.44	13.16				
5	16QAM	25	0	13.19	13.49	13.19	15	0		
5	64QAM	1	0	13.20	13.40	13.11				
5	64QAM	1	12	13.22	13.39	13.30	15	0		
5	64QAM	1	24	13.15	13.49	13.24				
5	64QAM	12	0	13.14	13.25	13.14				
5	64QAM	12	7	13.24	13.46	13.24	15	0		
5	64QAM	12	13	13.26	13.36	13.23				
5	64QAM	25	0	13.17	13.23	13.16	15	0		

Band 12 Ant 4 NSA DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.84	19.84	19.84				
10	QPSK	1	25	19.66	19.66	19.66	21.5	0		
10	QPSK	1	49	19.60	19.60	19.60				
10	QPSK	25	0	19.81	19.81	19.81				
10	QPSK	25	12	19.61	19.63	19.60	21.5	0		
10	QPSK	25	25	19.58	19.58	19.58				
10	QPSK	50	0	19.78	19.78	19.78				
10	16QAM	1	0	19.61	19.61	19.61				
10	16QAM	1	25	19.59	19.59	19.59	21.5	0		
10	16QAM	1	49	19.61	19.61	19.61				
10	16QAM	25	0	19.61	19.61	19.61				
10	16QAM	25	12	19.51	19.51	19.51	21.5	0		
10	16QAM	25	25	19.21	19.21	19.21				
10	16QAM	50	0	19.62	19.62	19.62				
10	64QAM	1	0	19.60	19.60	19.60				
10	64QAM	1	25	19.75	19.75	19.75	21.5	0		
10	64QAM	1	49	19.63	19.63	19.63				
10	64QAM	25	0	19.30	19.30	19.30	21.5	0		
10	64QAM	25	12	19.38	19.38	19.38				
10	64QAM	25	25	19.31	19.31	19.31	21	0.5		
10	64QAM	50	0	19.20	19.20	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.63	19.64	19.71				
5	QPSK	1	12	19.61	19.63	19.60	21.5	0		
5	QPSK	1	24	19.68	19.67	19.53				
5	QPSK	12	0	19.59	19.67	19.74				
5	QPSK	12	7	19.69	19.64	19.60	21.5	0		
5	QPSK	12	13	19.68	19.63	19.57				
5	QPSK	25	0	19.62	19.59	19.68				
5	16QAM	1	0	19.60	19.60	19.65	21.5	0		
5	16QAM	1	12	19.70	19.69	19.54				
5	16QAM	1	24	19.58	19.66	19.73				
5	16QAM	12	0	19.62	19.65	19.57	21.5	0		
5	16QAM	12	7	19.68	19.61	19.58				
5	16QAM	12	13	19.56	19.63	19.66				
5	16QAM	25	0	19.69	19.67	19.59				
5	64QAM	1	0	19.70	19.61	19.57	21.5	0		
5	64QAM	1	12	19.56	19.59	19.72				
5	64QAM	1	24	19.66	19.62	19.65				
5	64QAM	12	0	19.11	19.07	19.23	21.5	0		
5	64QAM	12	7	19.06	19.15	19.22				
5	64QAM	12	13	19.13	19.11</					



Band 26 Ant 4 NSA DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.23	18.50	18.21				
15	QPSK	1	37	18.26	18.14	18.15	20	0		
15	QPSK	1	74	18.27	18.11	18.16				
15	QPSK	36	0	18.19	18.40	18.16				
15	QPSK	36	20	18.16	18.12	18.07	20	0		
15	QPSK	36	39	18.21	18.18	18.16				
15	QPSK	75	0	18.23	18.46	18.19				
15	16QAM	1	0	18.22	18.06	18.05				
15	16QAM	1	37	18.19	18.14	18.14	20	0		
15	16QAM	1	74	18.17	18.41	18.16				
15	16QAM	36	0	18.21	18.13	18.06				
15	16QAM	36	20	18.23	18.21	18.07	20	0		
15	16QAM	36	39	18.18	18.44	18.19				
15	16QAM	75	0	18.24	18.16	18.11				
15	64QAM	1	0	18.23	18.22	18.08				
15	64QAM	1	37	18.17	18.44	18.16	20	0		
15	64QAM	1	74	18.22	18.05	18.07				
15	64QAM	36	0	18.25	18.18	18.07				
15	64QAM	36	20	18.17	18.48	18.15	20	0		
15	64QAM	36	39	18.17	18.09	18.11				
15	64QAM	75	0	18.27	18.17	18.08				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.19	18.42	18.20				
10	QPSK	1	25	18.23	18.06	18.10	20	0		
10	QPSK	1	49	18.26	18.06	18.16				
10	QPSK	25	0	18.15	18.41	18.09				
10	QPSK	25	12	18.18	18.11	18.03	20	0		
10	QPSK	25	25	18.18	18.15	18.09				
10	QPSK	50	0	18.22	18.45	18.15				
10	16QAM	1	0	18.24	18.06	18.06				
10	16QAM	1	25	18.16	18.09	18.13	20	0		
10	16QAM	1	49	18.09	18.36	18.15				
10	16QAM	25	0	18.22	18.12	18.08				
10	16QAM	25	12	18.24	18.20	18.06	20	0		
10	16QAM	25	25	18.15	18.38	18.16				
10	16QAM	50	0	18.21	18.04	18.04				
10	64QAM	1	0	18.16	18.17	18.07				
10	64QAM	1	25	18.14	18.40	18.09	20	0		
10	64QAM	1	49	18.18	18.03	18.03				
10	64QAM	25	0	18.25	18.14	18.06				
10	64QAM	25	12	18.16	18.42	18.15	20	0		
10	64QAM	25	25	18.12	18.03	18.08				
10	64QAM	50	0	18.23	18.15	18.04				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.20	18.31	18.21				
5	QPSK	1	12	18.26	18.14	18.14	20	0		
5	QPSK	1	24	18.21	18.03	18.12				
5	QPSK	12	0	18.18	18.33	18.15				
5	QPSK	12	7	18.17	18.13	18.03	20	0		
5	QPSK	12	13	18.21	18.19	18.12				
5	QPSK	25	0	18.20	18.47	18.20				
5	16QAM	1	0	18.17	18.07	18.05				
5	16QAM	1	12	18.20	18.14	18.09	20	0		
5	16QAM	1	24	18.11	18.36	18.13				
5	16QAM	12	0	18.14	18.07	18.01				
5	16QAM	12	7	18.19	18.15	18.07	20	0		
5	16QAM	12	13	18.16	18.39	18.16				
5	16QAM	25	0	18.22	18.16	18.10				
5	64QAM	1	0	18.21	18.21	18.08				
5	64QAM	1	12	18.15	18.40	18.16	20	0		
5	64QAM	1	24	18.18	18.06	18.00				
5	64QAM	12	0	18.22	18.18	18.01				
5	64QAM	12	7	18.16	18.46	18.13	20	0		
5	64QAM	12	13	18.17	18.03	18.11				
5	64QAM	25	0	18.23	18.14	18.05				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.24	18.45	18.15				
3	QPSK	1	8	18.21	18.07	18.13	20	0		
3	QPSK	1	14	18.28	18.10	18.12				
3	QPSK	8	0	18.12	18.34	18.17				
3	QPSK	8	4	18.14	18.06	18.05	20	0		
3	QPSK	8	7	18.22	18.16	18.13				
3	QPSK	15	0	18.17	18.40	18.17				
3	16QAM	1	0	18.15	18.08	18.10				
3	16QAM	1	8	18.13	18.14	18.16	20	0		
3	16QAM	1	14	18.16	18.34	18.16				
3	16QAM	8	0	18.22	18.08	18.01				
3	16QAM	8	4	18.23	18.19	18.07	20	0		
3	16QAM	8	7	18.16	18.43	18.15				
3	16QAM	15	0	18.24	18.11	18.06				
3	64QAM	1	0	18.22	18.22	18.05				
3	64QAM	1	8	18.09	18.43	18.10	20	0		
3	64QAM	1	14	18.20	18.12	18.15				
3	64QAM	8	0	18.20	18.15	18.03				
3	64QAM	8	4	18.13	18.42	18.11	20	0		
3	64QAM	8	7	18.15	18.01	18.09				
3	64QAM	15	0	18.20	18.17	18.07				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.23	18.45	18.14				
1.4	QPSK	1	3	18.21	18.10	18.12				
1.4	QPSK	1	5	18.21	18.08	18.09	20	0		
1.4	QPSK	3	0	18.16	18.36	18.15				
1.4	QPSK	3	1	18.18	18.09	18.03				
1.4	QPSK	3	3	18.20	18.18	18.16				
1.4	QPSK	6	0	18.19	18.41	18.13	20	0		
1.4	16QAM	1	0	18.22	18.01	18.05				
1.4	16QAM	1	3	18.15	18.15	18.09				
1.4	16QAM	1	5	18.14	18.39	18.18	20	0		
1.4	16QAM	3	0	18.13	18.08	18.10				
1.4	16QAM	3	1	18.18	18.22	18.07				
1.4	16QAM	3	3	18.14	18.42	18.15				
1.4	16QAM	6	0	18.25	18.05	18.12	20	0		
1.4	64QAM	1	0	18.17	18.15	18.08				
1.4	64QAM	1	3	18.13	18.38	18.15				
1.4	64QAM	1	5	18.20	18.03	18.05	20	0		
1.4	64QAM	3	0	18.20	18.17	18.05				
1.4	64QAM	3	1	18.13	18.48	18.16				
1.4	64QAM	3	3	18.11	18.04	18.11				
1.4	64QAM	6	0	18.27	18.17	18.09	20	0		

Band 30 Ant 4 NSA DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0		18.57					
10	QPSK	1	25	18.41			17	0		
10	QPSK	1	49	18.37						
10	QPSK	25	0	18.54						
10	QPSK	25	12	18.35			17	0		
10	QPSK	25	25	18.41						
10	QPSK	50	0	18.53						
10	16QAM	1	0	18.45						
10	16QAM	1	25	18.39			17	0		
10	16QAM	1	49	18.54						
10	16QAM	25	0	18.37						
10	16QAM	25	12	18.37			17	0		
10	16QAM	25	25	18.53						
10	16QAM	50	0	18.38						
10	64QAM	1	0	18.42						
10	64QAM	1	25	18.50			17	0		
10	64QAM	1	49	18.40						
10	64QAM	25	0	18.43						
10	64QAM	25	12	18.53			17	0		
10	64QAM	25	25	18.43						
10	64QAM	50	0	18.37						
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.40	18.36	18.31				
5	QPSK	1	12	18.38	18.39	18.38				



Band 48 Ant 5 NSA DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	12.44	12.60	12.53	12.33	14	0
20	QPSK	1	49	12.41	12.24	12.46	12.16		
20	QPSK	1	99	12.30	12.20	12.16	12.25		
20	QPSK	50	0	12.49	12.57	12.46	12.35		
20	QPSK	50	24	12.42	12.22	12.43	12.17	14	0
20	QPSK	50	50	12.30	12.21	12.20	12.29		
20	QPSK	100	0	12.51	12.59	12.54	12.33		
20	16QAM	1	0	12.46	12.27	12.44	12.21		
20	16QAM	1	49	12.22	12.17	12.51	12.27	14	0
20	16QAM	1	99	12.47	12.52	12.48	12.33		
20	16QAM	50	0	12.42	12.24	12.44	12.28		
20	16QAM	50	24	12.22	12.15	12.24	12.26		
20	16QAM	50	50	12.54	12.58	12.54	12.30	14	0
20	16QAM	100	0	12.41	12.27	12.42	12.25		
20	64QAM	1	0	12.29	12.20	12.24	12.23		
20	64QAM	1	49	12.47	12.58	12.47	12.32		
20	64QAM	1	99	12.38	12.29	12.44	12.24	14	0
20	64QAM	50	0	12.22	12.21	12.21	12.21		
20	64QAM	50	24	12.53	12.56	12.55	12.28		
20	64QAM	50	50	12.47	12.28	12.49	12.18		
20	64QAM	100	0	12.23	12.22	12.20	12.27		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	12.44	12.60	12.47	12.28	14	0
15	QPSK	1	37	12.41	12.25	12.47	12.19		
15	QPSK	1	74	12.30	12.14	12.17	12.22		
15	QPSK	36	0	12.49	12.53	12.40	12.32		
15	QPSK	36	20	12.40	12.15	12.38	12.16	14	0
15	QPSK	36	39	12.24	12.16	12.19	12.30		
15	QPSK	75	0	12.51	12.53	12.46	12.33		
15	QPSK	1	0	12.45	12.19	12.44	12.20		
15	16QAM	1	37	12.20	12.11	12.19	12.25	14	0
15	16QAM	1	74	12.44	12.47	12.40	12.31		
15	16QAM	36	0	12.44	12.17	12.43	12.23		
15	16QAM	36	20	12.18	12.11	12.23	12.18		
15	16QAM	36	39	12.55	12.56	12.48	12.30	14	0
15	16QAM	75	0	12.38	12.22	12.37	12.25		
15	64QAM	1	0	12.28	12.13	12.21	12.19		
15	64QAM	1	37	12.45	12.56	12.41	12.29		
15	64QAM	1	74	12.32	12.30	12.40	12.25	14	0
15	64QAM	36	0	12.20	12.23	12.14	12.19		
15	64QAM	36	20	12.49	12.40	12.48	12.25		
15	64QAM	36	39	12.48	12.28	12.47	12.13		
15	64QAM	75	0	12.25	12.14	12.20	12.28		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3597.5	3642.5	3695		
10	QPSK	1	0	12.45	12.54	12.51	12.32	14	0
10	QPSK	1	26	12.40	12.23	12.45	12.08		
10	QPSK	1	49	12.31	12.17	12.12	12.23		
10	QPSK	25	0	12.51	12.55	12.39	12.28		
10	QPSK	25	12	12.37	12.17	12.45	12.18	14	0
10	QPSK	25	25	12.36	12.16	12.13	12.30		
10	QPSK	50	0	12.50	12.54	12.48	12.35		
10	16QAM	1	0	12.42	12.28	12.43	12.17		
10	16QAM	1	26	12.16	12.10	12.23	12.21	14	0
10	16QAM	1	49	12.42	12.53	12.48	12.32		
10	16QAM	25	0	12.37	12.25	12.44	12.27		
10	16QAM	25	12	12.22	12.09	12.22	12.27		
10	16QAM	25	25	12.46	12.53	12.55	12.31	14	0
10	16QAM	50	0	12.35	12.23	12.35	12.26		
10	64QAM	1	0	12.26	12.13	12.21	12.18		
10	64QAM	1	26	12.46	12.55	12.46	12.29		
10	64QAM	1	49	12.34	12.31	12.39	12.19	14	0
10	64QAM	25	0	12.18	12.15	12.22	12.18		
10	64QAM	25	12	12.46	12.49	12.57	12.27		
10	64QAM	25	25	12.42	12.27	12.45	12.13		
10	64QAM	50	0	12.16	12.22	12.16	12.22		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	12.42	12.59	12.45	12.25	14	0
5	QPSK	1	12	12.43	12.22	12.41	12.10		
5	QPSK	1	24	12.23	12.18	12.17	12.20		
5	QPSK	12	0	12.46	12.56	12.44	12.29		
5	QPSK	12	7	12.41	12.20	12.43	12.11	14	0
5	QPSK	12	13	12.34	12.20	12.13	12.27		
5	QPSK	25	0	12.52	12.56	12.49	12.25		
5	16QAM	1	0	12.42	12.20	12.38	12.18		
5	16QAM	1	12	12.17	12.12	12.22	12.28	14	0
5	16QAM	1	24	12.46	12.46	12.46	12.26		
5	16QAM	12	0	12.40	12.17	12.37	12.20		
5	16QAM	12	7	12.22	12.08	12.20	12.23		
5	16QAM	12	13	12.47	12.50	12.47	12.31	14	0
5	16QAM	25	0	12.38	12.22	12.42	12.26		
5	64QAM	1	0	12.22	12.17	12.25	12.23		
5	64QAM	1	12	12.45	12.52	12.45	12.26		
5	64QAM	1	24	12.37	12.26	12.46	12.18	14	0
5	64QAM	12	0	12.23	12.15	12.16	12.19		
5	64QAM	12	7	12.52	12.56	12.56	12.24		
5	64QAM	12	13	12.41	12.28	12.50	12.11		
5	64QAM	25	0	12.21	12.18	12.16	12.28		



Reduced Power Mode for Hotspot on for WWAN

Default												
GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)				
	128	189	251		128	189	251					
Tx Channel	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4	848.6			
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4	848.6			
GSM 1 Tx slot	31.89	32.10	32.05	33.50	22.89	23.10	23.05	24.50				
GPRS 1 Tx slot	31.88	32.11	31.99	33.50	22.88	23.11	22.99	24.50				
GPRS 2 Tx slots	30.99	31.24	31.19	32.00	24.99	25.24	25.19	26.00				
GPRS 3 Tx slots	29.11	29.36	29.20	30.50	24.85	25.10	24.94	25.24				
GPRS 4 Tx slots	27.80	28.10	28.05	29.00	24.80	25.10	25.05	26.00				
EDGE 1 Tx slot	28.45	28.49	28.51	27.50	17.45	17.49	17.61	18.50				
EDGE 2 Tx slots	25.25	25.29	25.38	26.50	19.25	19.29	19.38	20.50				
EDGE 3 Tx slots	23.10	23.12	23.24	24.50	18.84	18.86	18.98	20.24				
EDGE 4 Tx slots	21.88	22.03	22.12	23.00	18.88	19.03	19.12	20.00				
SA DS07												
GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)				
	512	661	810		512	661	810					
Tx Channel	1852	1913	1974	1852	1913	1974	1852	1913	1974			
Frequency (MHz)	1852	1913	1974	1852	1913	1974	1852	1913	1974			
GSM 1 Tx slot	21.25	21.33	21.31	22.50	12.25	12.33	12.31	13.50				
GPRS 1 Tx slot	21.25	21.29	21.26	22.50	12.25	12.29	12.26	13.50				
GPRS 2 Tx slots	20.35	20.42	20.34	21.50	14.35	14.42	14.34	15.50				
GPRS 3 Tx slots	18.29	18.37	18.38	19.50	14.03	14.11	14.12	15.24				
GPRS 4 Tx slots	17.07	17.11	17.04	18.00	14.07	14.11	14.04	15.00				
EDGE 1 Tx slot	17.75	17.76	17.74	19.00	8.75	8.76	8.74	10.00				
EDGE 2 Tx slots	16.54	16.56	16.56	18.00	10.54	10.56	10.56	12.00				
EDGE 3 Tx slots	14.35	14.39	14.34	15.50	10.04	10.13	10.08	11.24				
EDGE 4 Tx slots	12.83	12.91	12.90	14.00	9.83	9.91	9.90	11.00				
SA DS07												
Default												
Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 0			
	962	960	958		1312	1313	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	1637	1638	1738	4367	4407	4458			
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99 AMR 12.2Kbps	13.77	13.80	13.78	15.00	15.97	15.98	15.82	17.00	22.42	22.62	22.55	24.00
3GPP Rel 99 AMR 12.2Kbps	13.79	13.83	13.78	15.00	16.03	16.09	15.87	17.00	22.43	22.64	22.57	24.00
3GPP Rel 6 HSDPA Subtest-1	12.86	12.80	12.87	14.00	14.92	15.00	14.94	16.00	21.43	21.60	21.52	23.00
3GPP Rel 6 HSDPA Subtest-2	12.90	12.77	12.84	14.00	15.05	15.05	14.94	16.00	21.59	21.54	21.50	23.00
3GPP Rel 6 HSDPA Subtest-3	12.20	12.15	12.20	13.50	14.43	14.57	14.56	15.00	21.01	21.01	21.00	22.50
3GPP Rel 6 HSDPA Subtest-4	12.12	12.33	11.97	13.50	14.28	14.68	14.33	15.50	20.91	21.16	20.90	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	12.71	12.88	12.67	14.00	15.01	15.16	14.85	16.00	21.48	21.67	21.40	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	12.85	12.85	12.89	14.00	14.95	14.91	15.15	16.00	21.47	21.60	21.64	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	12.05	12.38	12.26	13.50	14.50	14.61	14.47	15.50	20.95	21.15	21.02	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	12.23	12.48	12.15	13.50	14.60	14.60	14.29	15.50	21.07	21.20	20.91	22.50
3GPP Rel 6 HSUPA Subtest-1	12.66	12.77	12.42	14.00	14.75	15.05	14.84	16.00	21.39	21.51	21.27	23.00
3GPP Rel 6 HSUPA Subtest-2	10.79	10.84	10.72	12.00	13.04	12.88	12.81	14.00	19.55	19.47	19.39	21.00
3GPP Rel 6 HSUPA Subtest-3	11.41	11.66	11.37	13.00	13.79	13.94	13.87	15.00	20.29	20.46	20.47	22.00
3GPP Rel 6 HSUPA Subtest-4	10.82	10.63	10.85	12.00	12.82	12.97	12.86	14.00	19.46	19.43	19.52	21.00
3GPP Rel 6 HSUPA Subtest-5	12.61	12.99	12.89	14.00	14.90	15.12	15.20	16.00	21.48	21.76	21.63	23.00
3GPP Rel 7 HSPA (12QAM) Subtest-1	9.94	10.04	10.04	11.50	12.17	12.36	12.29	13.50	18.78	18.89	18.88	20.50



Band 2 Ant 0 SA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	13.41	13.47	13.32	15	0		
20	QPSK	1	49	13.35	13.35	13.29				
20	QPSK	1	99	13.21	13.35	13.18				
20	QPSK	50	0	13.33	13.35	13.34	15	0		
20	QPSK	50	24	13.25	13.36	13.17				
20	QPSK	50	50	13.15	13.38	13.15				
20	QPSK	100	0	13.40	13.43	13.28	15	0		
20	16QAM	1	0	13.31	13.41	13.24				
20	16QAM	1	49	13.25	13.32	13.17				
20	16QAM	1	99	13.24	13.33	13.33	15	0		
20	16QAM	50	0	13.26	13.36	13.24				
20	16QAM	50	24	13.15	13.41	13.31				
20	16QAM	50	50	13.35	13.39	13.37	15	0		
20	16QAM	100	0	13.20	13.31	13.22				
20	64QAM	1	0	13.22	13.39	13.16				
20	64QAM	1	49	13.33	13.39	13.34	15	0		
20	64QAM	1	99	13.30	13.33	13.25				
20	64QAM	50	0	13.28	13.38	13.21				
20	64QAM	50	24	13.33	13.33	13.36	15	0		
20	64QAM	50	50	13.29	13.34	13.27				
20	64QAM	100	0	13.20	13.34	13.28				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.39	13.42	13.33	15	0		
15	QPSK	1	37	13.40	13.31	13.18				
15	QPSK	1	74	13.20	13.24	13.20				
15	QPSK	36	0	13.25	13.36	13.24	15	0		
15	QPSK	36	20	13.23	13.33	13.12				
15	QPSK	36	39	13.00	13.41	13.18				
15	QPSK	75	0	13.36	13.39	13.24	15	0		
15	16QAM	1	0	13.15	13.38	13.15				
15	16QAM	1	37	13.28	13.22	13.17				
15	16QAM	1	74	13.21	13.20	13.36	15	0		
15	16QAM	36	0	13.17	13.32	13.10				
15	16QAM	36	20	13.03	13.43	13.19				
15	16QAM	36	39	13.34	13.32	13.40	15	0		
15	16QAM	75	0	13.15	13.24	13.18				
15	64QAM	1	0	13.23	13.40	13.07				
15	64QAM	1	37	13.35	13.32	13.36	15	0		
15	64QAM	1	74	13.22	13.25	13.12				
15	64QAM	36	0	13.33	13.28	13.06				
15	64QAM	36	20	13.37	13.22	13.25	15	0		
15	64QAM	36	39	13.22	13.21	13.21				
15	64QAM	75	0	13.14	13.32	13.17				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.31	13.36	13.25	15	0		
10	QPSK	1	25	13.21	13.25	13.22				
10	QPSK	1	49	13.21	13.33	13.03				
10	QPSK	25	0	13.35	13.31	13.26	15	0		
10	QPSK	25	12	13.30	13.32	13.03				
10	QPSK	25	25	13.14	13.38	13.06				
10	QPSK	50	0	13.43	13.45	13.17	15	0		
10	16QAM	1	0	13.24	13.34	13.13				
10	16QAM	1	25	13.22	13.27	13.05				
10	16QAM	1	49	13.18	13.34	13.35	15	0		
10	16QAM	25	0	13.17	13.33	13.17				
10	16QAM	25	12	13.16	13.41	13.31				
10	16QAM	25	25	13.28	13.35	13.37	15	0		
10	16QAM	50	0	13.08	13.34	13.22				
10	64QAM	1	0	13.21	13.33	13.03				
10	64QAM	1	25	13.28	13.29	13.20	15	0		
10	64QAM	1	49	13.25	13.36	13.29				
10	64QAM	25	0	13.22	13.32	13.17				
10	64QAM	25	12	13.24	13.28	13.27	15	0		
10	64QAM	25	25	13.29	13.21	13.18				
10	64QAM	50	0	13.09	13.34	13.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.27	13.32	13.23	15	0		
5	QPSK	1	12	13.36	13.34	13.22				
5	QPSK	1	24	13.15	13.35	13.13				
5	QPSK	12	0	13.27	13.35	13.37	15	0		
5	QPSK	12	7	13.23	13.43	13.04				
5	QPSK	12	13	13.19	13.28	13.16				
5	QPSK	25	0	13.33	13.34	13.29	15	0		
5	16QAM	1	0	13.29	13.45	13.09				
5	16QAM	1	12	13.15	13.21	13.21				
5	16QAM	1	24	13.10	13.26	13.22	15	0		
5	16QAM	12	0	13.23	13.36	13.13				
5	16QAM	12	7	13.08	13.45	13.22				
5	16QAM	12	13	13.25	13.35	13.28	15	0		
5	16QAM	25	0	13.17	13.24	13.12				
5	64QAM	1	0	13.22	13.31	13.05				
5	64QAM	1	12	13.21	13.42	13.31	15	0		
5	64QAM	1	24	13.21	13.29	13.29				
5	64QAM	12	0	13.24	13.27	13.17				
5	64QAM	12	7	13.27	13.22	13.24	15	0		
5	64QAM	12	13	13.30	13.21	13.17				
5	64QAM	25	0	13.22	13.27	13.22				
Channel										
Frequency (MHz)										
3	QPSK	1	0	13.32	13.35	13.35	15	0		
3	QPSK	1	8	13.36	13.24	13.17				
3	QPSK	1	14	13.19	13.37	13.20				
3	QPSK	8	0	13.20	13.21	13.22	15	0		
3	QPSK	8	4	13.23	13.42	13.10				
3	QPSK	8	7	13.04	13.31	13.02				
3	QPSK	15	0	13.29	13.35	13.19	15	0		
3	16QAM	1	0	13.26	13.34	13.27				
3	16QAM	1	8	13.20	13.26	13.21				
3	16QAM	1	14	13.10	13.34	13.24	15	0		
3	16QAM	8	0	13.25	13.29	13.27				
3	16QAM	8	4	13.01	13.37	13.35				
3	16QAM	8	7	13.23	13.36	13.26	15	0		
3	16QAM	15	0	13.18	13.36	13.15				
3	64QAM	1	0	13.22	13.27	13.20				
3	64QAM	1	8	13.24	13.43	13.27	15	0		
3	64QAM	1	14	13.33	13.36	13.21				
3	64QAM	8	0	13.24	13.42	13.15				
3	64QAM	8	4	13.32	13.29	13.24	15	0		
3	64QAM	8	7	13.20	13.31	13.28				
3	64QAM	15	0	13.14	13.26	13.18				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	13.44	13.42	13.26	15	0		
1.4	QPSK	1	3	13.38	13.40	13.24				
1.4	QPSK	1	5	13.10	13.29	13.15				
1.4	QPSK	3	0	13.34	13.39	13.25	15	0		
1.4	QPSK	3	1	13.30	13.33	13.06				
1.4	QPSK	3	3	13.15	13.25	13.17				
1.4	QPSK	6	0	13.33	13.38	13.31	15	0		
1.4	16QAM	1	0	13.29	13.28	13.29				
1.4	16QAM	1	3	13.14	13.37	13.06				
1.4	16QAM	1	5	13.15	13.37	13.22	15	0		
1.4	16QAM	3	0	13.13	13.30	13.19				
1.4	16QAM	3	1	13.16	13.42	13.17				
1.4	16QAM	3	3	13.31	13.26	13.26	15	0		
1.4	16QAM	6	0	13.07	13.13	13.13				
1.4	64QAM	1	0	13.26	13.24	13.06				
1.4	64QAM	1	3	13.25	13.36	13.22	15	0		
1.4	64QAM	1	5	13.15	13.18	13.26				
1.4	64QAM	3	0	13.16	13.24	13.08				
1.4	64QAM	3	1	13.35	13.23	13.26	15	0		
1.4	64QAM	3	3	13.20	13.29	13.14				
1.4	64QAM	6	0	13.18	13.35	13.27				

Band 4 Ant 0 SA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.41	15.42	15.44	17	0		
20	QPSK	1	49	15.46	15.48	15.45				
20	QPSK	1	99	15.32	15.49	15.41				
20	QPSK	50	0	15.50	15.55	15.42	17	0		
20	QPSK	50	24	15.51	15.46	15.48				
20	QPSK	50	50	15.39	15.47	15.38				
20	QPSK	100	0	15.47	15.56	15.46	17	0		
20	16QAM	1	0	15.52	15.51	15.47				
20	16QAM</									



Band 25 Ant 0 SA DSI7											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				26160	26340	26590					
Frequency (MHz)				1860	1880	1907.5					
20	QPSK	1	0	13.38	13.47	13.39					
20	QPSK	1	49	13.33	13.33	13.27	15	0			
20	QPSK	1	99	13.15	13.22	13.20					
20	QPSK	50	0	13.36	13.45	13.35					
20	QPSK	50	24	13.33	13.37	13.22	15	0			
20	QPSK	50	50	13.16	13.18	13.23					
20	QPSK	100	0	13.45	13.46	13.43					
20	16QAM	1	0	13.29	13.39	13.28					
20	16QAM	1	49	13.22	13.24	13.23	15	0			
20	16QAM	1	99	13.41	13.41	13.42					
20	16QAM	50	0	13.24	13.41	13.24					
20	16QAM	50	24	13.18	13.26	13.21	15	0			
20	16QAM	50	50	13.36	13.43	13.42					
20	16QAM	100	0	13.32	13.40	13.24					
20	64QAM	1	0	13.12	13.19	13.14					
20	64QAM	1	49	13.43	13.43	13.33	15	0			
20	64QAM	1	99	13.27	13.40	13.24					
20	64QAM	50	0	13.15	13.29	13.20					
20	64QAM	50	24	13.43	13.36	13.41	15	0			
20	64QAM	50	50	13.30	13.36	13.29					
20	64QAM	100	0	13.19	13.17	13.16					
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1857.5	1880	1907.5					
15	QPSK	1	0	13.32	13.40	13.37					
15	QPSK	1	49	13.23	13.28	13.24	15	0			
15	QPSK	1	74	13.15	13.11	13.19					
15	QPSK	36	0	13.35	13.37	13.28					
15	QPSK	36	20	13.22	13.32	13.11	15	0			
15	QPSK	36	39	13.09	13.17	13.19					
15	QPSK	75	0	13.39	13.38	13.33					
15	16QAM	1	0	13.16	13.32	13.25					
15	16QAM	1	37	13.15	13.19	13.13	15	0			
15	16QAM	1	74	13.33	13.36	13.41					
15	16QAM	36	0	13.18	13.36	13.23					
15	16QAM	36	20	13.16	13.22	13.13	15	0			
15	16QAM	36	39	13.31	13.42	13.42					
15	16QAM	75	0	13.29	13.33	13.16					
15	64QAM	1	0	13.10	13.19	13.07					
15	64QAM	1	37	13.33	13.34	13.28	15	0			
15	64QAM	1	74	13.16	13.29	13.22					
15	64QAM	36	0	13.04	13.24	13.10					
15	64QAM	36	20	13.40	13.30	13.39	15	0			
15	64QAM	36	39	13.18	13.13	13.25					
15	64QAM	75	0	13.08	13.15	13.04					
Channel				26090	26340	26660	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1855	1880	1910					
10	QPSK	1	0	13.31	13.44	13.30					
10	QPSK	1	25	13.27	13.30	13.16	15	0			
10	QPSK	1	49	13.09	13.10	13.09					
10	QPSK	25	0	13.26	13.44	13.26					
10	QPSK	25	12	13.21	13.33	13.16	15	0			
10	QPSK	25	25	13.05	13.06	13.23					
10	QPSK	50	0	13.44	13.35	13.33					
10	16QAM	1	0	13.25	13.27	13.16					
10	16QAM	1	25	13.20	13.16	13.15	15	0			
10	16QAM	1	49	13.34	13.32	13.37					
10	16QAM	25	0	13.16	13.34	13.21					
10	16QAM	25	12	13.13	13.19	13.10	15	0			
10	16QAM	25	25	13.32	13.42	13.42					
10	16QAM	50	0	13.28	13.33	13.13					
10	64QAM	1	0	13.00	13.18	13.06					
10	64QAM	1	25	13.41	13.39	13.28	15	0			
10	64QAM	1	49	13.17	13.34	13.16					
10	64QAM	25	0	13.04	13.23	13.12					
10	64QAM	25	12	13.42	13.34	13.34	15	0			
10	64QAM	25	25	13.19	13.34	13.17					
10	64QAM	50	0	13.14	13.15	13.09					
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1852.5	1880	1912.5					
5	QPSK	1	0	13.27	13.36	13.32					
5	QPSK	1	12	13.23	13.33	13.24	15	0			
5	QPSK	1	24	13.03	13.11	13.14					
5	QPSK	12	0	13.33	13.44	13.34					
5	QPSK	12	7	13.28	13.29	13.15	15	0			
5	QPSK	12	13	13.09	13.13	13.21					
5	QPSK	25	0	13.38	13.37	13.31					
5	16QAM	1	0	13.19	13.39	13.28					
5	16QAM	1	12	13.13	13.16	13.16	15	0			
5	16QAM	1	24	13.32	13.34	13.33					
5	16QAM	12	0	13.13	13.41	13.21					
5	16QAM	12	7	13.17	13.18	13.18	15	0			
5	16QAM	12	13	13.25	13.35	13.36					
5	16QAM	25	0	13.24	13.31	13.22					
5	64QAM	1	0	13.11	13.08	13.05					
5	64QAM	1	12	13.31	13.39	13.28	15	0			
5	64QAM	1	24	13.21	13.32	13.14					
5	64QAM	12	0	13.04	13.18	13.10					
5	64QAM	12	7	13.42	13.29	13.29	15	0			
5	64QAM	12	13	13.16	13.26	13.19					
5	64QAM	25	0	13.07	13.12	13.08					
Channel				26065	26340	26675	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1851.5	1880	1913.5					
3	QPSK	1	0	13.31	13.35	13.29					
3	QPSK	1	8	13.32	13.27	13.16	15	0			
3	QPSK	1	14	13.10	13.20	13.18					
3	QPSK	8	0	13.25	13.37	13.34					
3	QPSK	8	4	13.22	13.37	13.17	15	0			
3	QPSK	8	7	13.12	13.18	13.20					
3	QPSK	15	0	13.37	13.38	13.43					
3	16QAM	1	0	13.24	13.37	13.28					
3	16QAM	1	8	13.17	13.13	13.15	15	0			
3	16QAM	1	14	13.32	13.35	13.30					
3	16QAM	8	0	13.23	13.30	13.16					
3	16QAM	8	4	13.08	13.24	13.09	15	0			
3	16QAM	8	7	13.34	13.36	13.35					
3	16QAM	15	0	13.26	13.40	13.18					
3	64QAM	1	0	13.05	13.12	13.08					
3	64QAM	1	8	13.32	13.37	13.21	15	0			
3	64QAM	1	14	13.19	13.34	13.17					
3	64QAM	8	0	13.12	13.28	13.21					
3	64QAM	8	4	13.31	13.28	13.30	15	0			
3	64QAM	8	7	13.27	13.25	13.18					
3	64QAM	15	0	13.08	13.15	13.07					
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1850.7	1880	1914.3					
1.4	QPSK	1	0	13.35	13.39	13.29					
1.4	QPSK	1	3	13.32	13.33	13.19	15	0			
1.4	QPSK	1	5	13.09	13.15	13.17					
1.4	QPSK	3	0	13.28	13.45	13.24					
1.4	QPSK	3	1	13.25	13.30	13.17					
1.4	QPSK	3	3	13.08	13.06	13.12	15	0			
1.4	QPSK	8	0	13.37	13.35	13.36					
1.4	16QAM	1	0	13.19	13.28	13.21					
1.4	16QAM	1	3	13.12	13.23	13.13	15	0			
1.4	16QAM	1	5	13.36	13.35	13.30					
1.4	16QAM	3	0	13.16	13.37	13.24					
1.4	16QAM	3	1	13.10	13.16	13.13	15	0			
1.4	16QAM	3	3	13.29	13.32	13.33					
1.4	16QAM	6	0	13.31	13.29	13.22					
1.4	64QAM	1	0	13.07	13.11	13.12	15	0			
1.4	64QAM	1	3	13.38	13.38	13.33					
1.4	64QAM	1	5	13.21	13.33	13.17					
1.4	64QAM	3	0	13.13	13.24	13.20	15	0			
1.4	64QAM	3	1	13.35	13.36	13.32					
1.4	64QAM	3	3	13.18	13.32	13.27					
1.4	64QAM	6	0	13.11	13.08	13.16	15	0			

Band 66 Ant 0 SA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132322	132572				
Frequency (MHz)				1725	1745	1772.5				
20	QPSK	1	0	15.37	15.62	15.59				
20	QPSK	1	49	15.39	15.45	15.40	17	0		
20	QPSK	1	99	15.32	15.53	15.42				
20	QPSK	50	0	15.38	15.60	15.55				
20	QPSK	50	24	15.36	15.51	15.42	17	0		
20	QPSK	50	50	15.32	15.55	15.36				
20	QPSK	100	0	15.44	15.58	15.57				
20	16QAM	1	0	15.41	15.49	15.38				
20	16QAM	1	49	15.42	15.47	15.40	17	0		
20	16QAM	1	99	15.39	15.57	15.49				
20	16QAM									



Band 7 Ant 1 SA DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	18.69	18.83	18.82			
20	QPSK	1	49	18.82	18.87	18.88	20	0	
20	QPSK	1	99	18.57	18.74	18.83			
20	QPSK	50	0	18.72	18.77	18.73			
20	QPSK	50	24	18.83	18.90	18.82	20	0	
20	QPSK	50	50	18.57	18.70	18.60			
20	QPSK	100	0	18.70	18.79	18.77			
20	16QAM	1	0	18.59	18.67	18.88			
20	16QAM	1	49	18.59	18.71	18.85	20	0	
20	16QAM	1	99	18.70	18.78	18.76			
20	16QAM	50	0	18.57	18.68	18.85			
20	16QAM	50	24	18.61	18.73	18.58	20	0	
20	16QAM	50	50	18.66	18.72	18.74			
20	16QAM	100	0	18.56	18.68	18.65			
20	64QAM	1	0	18.64	18.74	18.60			
20	64QAM	1	49	18.72	18.80	18.75	20	0	
20	64QAM	1	99	18.58	18.72	18.66			
20	64QAM	50	0	18.61	18.69	18.61	20	0	
20	64QAM	50	24	18.69	18.80	18.72			
20	64QAM	50	50	18.55	18.66	18.61			
20	64QAM	100	0	18.63	18.68	18.57			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	18.65	18.78	18.74			
15	QPSK	1	37	18.59	18.64	18.64	20	0	
15	QPSK	1	74	18.53	18.72	18.57			
15	QPSK	36	0	18.70	18.75	18.69			
15	QPSK	36	20	18.57	18.65	18.52	20	0	
15	QPSK	36	39	18.52	18.59	18.52			
15	QPSK	75	0	18.65	18.70	18.72			
15	16QAM	1	0	18.52	18.58	18.65			
15	16QAM	1	37	18.48	18.64	18.59	20	0	
15	16QAM	1	74	18.65	18.76	18.68			
15	16QAM	36	0	18.48	18.62	18.62			
15	16QAM	36	20	18.57	18.69	18.56	20	0	
15	16QAM	36	39	18.61	18.79	18.68			
15	16QAM	75	0	18.50	18.65	18.62			
15	64QAM	1	0	18.57	18.68	18.50			
15	64QAM	1	37	18.65	18.79	18.65	20	0	
15	64QAM	1	74	18.55	18.68	18.62			
15	64QAM	36	0	18.51	18.62	18.51			
15	64QAM	36	20	18.62	18.75	18.65	20	0	
15	64QAM	36	39	18.47	18.58	18.56			
15	64QAM	75	0	18.56	18.59	18.51			
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	18.63	18.72	18.77			
10	QPSK	1	25	18.56	18.59	18.65	20	0	
10	QPSK	1	49	18.48	18.64	18.55			
10	QPSK	25	0	18.63	18.73	18.70			
10	QPSK	25	12	18.56	18.65	18.54	20	0	
10	QPSK	25	25	18.48	18.60	18.53			
10	QPSK	50	0	18.68	18.74	18.74			
10	16QAM	1	0	18.49	18.57	18.66			
10	16QAM	1	25	18.52	18.65	18.64	20	0	
10	16QAM	1	49	18.69	18.75	18.73			
10	16QAM	25	0	18.53	18.62	18.59			
10	16QAM	25	12	18.50	18.72	18.48	20	0	
10	16QAM	25	25	18.58	18.78	18.67			
10	16QAM	50	0	18.46	18.62	18.60			
10	64QAM	1	0	18.54	18.65	18.56			
10	64QAM	1	25	18.67	18.74	18.65	20	0	
10	64QAM	1	49	18.55	18.66	18.61			
10	64QAM	25	0	18.57	18.59	18.58			
10	64QAM	25	12	18.64	18.69	18.68	20	0	
10	64QAM	25	25	18.53	18.63	18.57			
10	64QAM	50	0	18.52	18.65	18.53			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	18.67	18.74	18.79			
5	QPSK	1	12	18.59	18.59	18.65	20	0	
5	QPSK	1	24	18.48	18.70	18.56			
5	QPSK	12	0	18.63	18.71	18.62			
5	QPSK	12	7	18.55	18.66	18.58	20	0	
5	QPSK	12	13	18.53	18.61	18.56			
5	QPSK	25	0	18.68	18.76	18.75			
5	16QAM	1	0	18.56	18.64	18.67			
5	16QAM	1	12	18.55	18.65	18.63	20	0	
5	16QAM	1	24	18.61	18.69	18.70			
5	16QAM	12	0	18.54	18.59	18.56			
5	16QAM	12	7	18.53	18.62	18.49	20	0	
5	16QAM	12	13	18.56	18.78	18.64			
5	16QAM	25	0	18.47	18.66	18.60			
5	64QAM	1	0	18.60	18.70	18.59			
5	64QAM	1	12	18.70	18.82	18.73	20	0	
5	64QAM	1	24	18.51	18.67	18.58			
5	64QAM	12	0	18.55	18.62	18.54			
5	64QAM	12	7	18.59	18.70	18.66	20	0	
5	64QAM	12	13	18.47	18.64	18.58			
5	64QAM	25	0	18.56	18.62	18.48			

Band 30 Ant 1 SA DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
10	QPSK	1	0		19.78				
10	QPSK	1	25		19.52		21	0	
10	QPSK	1	49		19.65				
10	QPSK	25	0		19.72				
10	QPSK	25	12		19.67		21	0	
10	QPSK	25	25		19.64				
10	QPSK	50	0		19.73				
10	16QAM	1	0		19.49				
10	16QAM	1	25		19.72		21	0	
10	16QAM	1	49		19.69				
10	16QAM	25	0		19.65				
10	16QAM	25	12		19.56		21	0	
10	16QAM	25	25		19.77				
10	16QAM	50	0		19.56				
10	64QAM	1	0		19.68				
10	64QAM	1	25		19.76		21	0	
10	64QAM	1	49		19.54				
10	64QAM	25	0		19.59				
10	64QAM	25	12		19.75		21	0	
10	64QAM	25	25		19.64				
10	64QAM	50	0		19.71				
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	19.67	19.69	19.68			
5	QPSK	1	12	19.60	19.51	19.45	21	0	
5	QPSK	1	24	19.51	19.65	19.52			
5	QPSK	12	0	19.70	19.72	19.63			
5	QPSK	12	7	19.52	19.45	19.43	21	0	
5	QPSK	12	13	19.57	19.59	19.55			
5	QPSK	25	0	19.66	19.61	19.68			
5	16QAM	1	0	19.54	19.55	19.48	21	0	
5	16QAM	1	12	19.63	19.67	19.58			
5	16QAM	1	24	19.61	19.62	19.77			
5	16QAM	12	0	19.56	19.43	19.52			
5	16QAM	12	7	19.60	19.55	19.53	21	0	
5	16QAM	12	13	19.75	19.59	19.63			
5	16QAM	25	0	19.55	19.50	19.54			
5	64QAM	1	0	19.55	19.59	19.51			
5	64QAM	1	12	19.77	19.68	19.70	21	0	
5	64QAM	1	24	19.53	19.53	19.56			
5	64QAM	12	0	19.58	19.52	19.46			
5	64QAM	12	7	19.77	19.62	19.77	21	0	
5	64QAM	12	13	19.52	19.47	19.51			
5	64QAM	25	0	19.66	19.65	19.53			



Band 38 Ant 1 SA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.84	18.06	17.96	18.5	0		
20	QPSK	5	0	17.84	18.06	17.96	18.5	0		
20	QPSK	1	99	17.68	17.85	17.63	18.5	0		
20	QPSK	50	0	17.86	18.01	17.89	18.5	0		
20	QPSK	50	24	17.81	17.97	17.86	18.5	0		
20	QPSK	50	50	17.76	17.88	17.78	18.5	0		
20	QPSK	100	0	17.83	17.96	17.89	18.5	0		
20	16QAM	1	0	17.82	17.96	17.85	18.5	0		
20	16QAM	1	49	17.73	17.77	17.77	18.5	0		
20	16QAM	1	99	17.67	17.65	17.66	18.5	0		
20	16QAM	50	0	17.83	18.00	17.97	18.5	0		
20	16QAM	50	24	17.79	17.80	17.79	18.5	0		
20	16QAM	50	50	17.67	17.69	17.69	18.5	0		
20	16QAM	100	0	17.84	17.99	17.96	18.5	0		
20	64QAM	1	0	17.82	18.03	18.00	18.5	0		
20	64QAM	1	49	17.82	17.88	17.84	18.5	0		
20	64QAM	1	99	17.71	17.73	17.76	18.5	0		
20	64QAM	50	0	17.84	17.90	17.81	18.5	0		
20	64QAM	50	24	17.87	17.80	17.80	18.5	0		
20	64QAM	50	50	17.63	18.01	17.83	18.5	0		
20	64QAM	100	0	18.02	18.02	18.02	18.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.80	18.02	17.93	18.5	0		
15	QPSK	1	37	17.80	17.88	17.81	18.5	0		
15	QPSK	1	74	17.66	17.82	17.61	18.5	0		
15	QPSK	36	0	17.82	17.97	17.99	18.5	0		
15	QPSK	36	20	17.77	17.83	17.84	18.5	0		
15	QPSK	36	39	17.73	17.84	17.75	18.5	0		
15	QPSK	75	0	17.80	17.81	17.84	18.5	0		
15	16QAM	1	0	17.87	17.94	17.82	18.5	0		
15	16QAM	1	37	17.80	17.83	17.84	18.5	0		
15	16QAM	1	74	17.64	17.50	17.54	18.5	0		
15	16QAM	36	0	17.91	17.95	17.96	18.5	0		
15	16QAM	36	20	17.82	17.88	17.89	18.5	0		
15	16QAM	36	39	17.83	17.87	17.85	18.5	0		
15	16QAM	75	0	17.81	17.97	17.92	18.5	0		
15	64QAM	1	0	17.80	18.02	17.96	18.5	0		
15	64QAM	1	37	17.80	17.84	17.85	18.5	0		
15	64QAM	1	74	17.67	17.69	17.72	18.5	0		
15	64QAM	36	0	17.86	17.77	17.86	18.5	0		
15	64QAM	36	20	17.82	17.86	17.82	18.5	0		
15	64QAM	36	39	17.75	17.85	17.82	18.5	0		
15	64QAM	75	0	17.81	17.87	17.88	18.5	0		
15	64QAM	75	20	17.77	17.85	17.82	18.5	0		
15	64QAM	75	39	17.73	17.86	17.82	18.5	0		
15	64QAM	100	0	17.78	17.80	17.80	18.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.80	18.01	17.92	18.5	0		
10	QPSK	1	25	17.81	17.96	17.82	18.5	0		
10	QPSK	1	49	17.67	17.80	17.60	18.5	0		
10	QPSK	25	0	17.84	17.96	18.00	18.5	0		
10	QPSK	25	12	17.79	17.86	17.83	18.5	0		
10	QPSK	25	25	17.72	17.85	17.77	18.5	0		
10	QPSK	50	0	17.81	17.91	17.86	18.5	0		
10	16QAM	1	0	17.82	17.94	17.81	18.5	0		
10	16QAM	1	25	17.82	17.86	17.83	18.5	0		
10	16QAM	1	49	17.68	17.76	17.65	18.5	0		
10	16QAM	25	0	17.80	17.97	17.93	18.5	0		
10	16QAM	25	12	17.74	17.79	17.80	18.5	0		
10	16QAM	25	25	17.63	17.95	17.85	18.5	0		
10	16QAM	50	0	17.83	17.95	17.88	18.5	0		
10	64QAM	1	0	17.89	17.89	17.86	18.5	0		
10	64QAM	1	25	17.79	17.84	17.80	18.5	0		
10	64QAM	1	49	17.68	17.70	17.70	18.5	0		
10	64QAM	25	0	17.80	17.82	17.87	18.5	0		
10	64QAM	25	12	17.77	17.85	17.86	18.5	0		
10	64QAM	25	25	17.60	17.87	17.81	18.5	0		
10	64QAM	50	0	17.86	18.06	17.87	18.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.83	17.99	17.93	18.5	0		
5	QPSK	1	12	17.89	17.85	17.89	18.5	0		
5	QPSK	1	24	17.65	17.60	17.61	18.5	0		
5	QPSK	12	0	17.84	17.95	18.00	18.5	0		
5	QPSK	12	7	17.76	17.83	17.82	18.5	0		
5	QPSK	12	13	17.75	17.87	17.86	18.5	0		
5	QPSK	25	0	17.79	17.84	17.85	18.5	0		
5	16QAM	1	0	17.88	17.94	17.83	18.5	0		
5	16QAM	1	12	17.85	17.83	17.83	18.5	0		
5	16QAM	1	24	17.65	17.61	17.61	18.5	0		
5	16QAM	12	0	17.81	17.97	17.93	18.5	0		
5	16QAM	12	7	17.76	17.78	17.80	18.5	0		
5	16QAM	12	13	17.63	17.94	17.85	18.5	0		
5	16QAM	25	0	17.81	17.97	17.92	18.5	0		
5	64QAM	1	0	17.75	17.86	17.82	18.5	0		
5	64QAM	1	12	17.74	17.78	17.84	18.5	0		
5	64QAM	1	24	17.69	17.72	17.71	18.5	0		
5	64QAM	12	0	17.74	17.84	17.87	18.5	0		
5	64QAM	12	7	17.73	17.84	17.80	18.5	0		
5	64QAM	12	13	17.61	17.86	17.83	18.5	0		
5	64QAM	25	0	17.81	17.99	17.87	18.5	0		

Band 41 PC2 Ant 1 SA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.85	17.88	18.03	17.97	17.92	19.5	0
20	QPSK	1	49	17.81	17.72	17.85	17.81	17.59	19.5	0
20	QPSK	1	99	17.66	17.77	17.89	17.66	17.66	19.5	0
20	QPSK	50	0	17.78	17.84	17.99	17.92	17.88	19.5	0
20	QPSK	50	24	17.77	17.89	17.83	17.68	17.72	19.5	0
20	QPSK	50	50	17.80	17.72	17.85	17.61	17.59	19.5	0
20	QPSK	100	0	17.81	17.84	18.00	17.81	17.87	19.5	0
20	16QAM	1	0	17.75	17.86	17.84	17.71	17.73	19.5	0
20	16QAM	1	49	17.82	17.71	17.86	17.69	17.62	19.5	0
20	16QAM	1	99	17.62	17.81	17.89	17.62	17.89	19.5	0
20	16QAM	50	0	17.76	17.85	17.82	17.71	17.74	19.5	0
20	16QAM	50	24	17.76	17.82	17.96	17.63	17.68	19.5	0
20	16QAM	50	50	17.80	17.84	17.98	17.84	17.85	19.5	0
20	16QAM	100	0	17.77	17.87	17.83	17.70	17.70	19.5	0
20	64QAM	1	0	17.81	17.71	17.85	17.60	17.59	19.5	0
20	64QAM	1	49	17.80	17.82	17.97	17.63	17.69	19.5	0
20	64QAM	1	99	17.78	17.88	17.82	17.69	17.74	19.5	0
20	64QAM	50	0	17.82	17.71	17.84	17.62	17.62	19.5	0
20	64QAM	50	24	17.76	17.82	17.96	17.63	17.68	19.5	0
20	64QAM	50	50	17.74	17.87	17.83	17.72	17.71	19.5	0
20	64QAM	100	0	17.79	17.72	17.83	17.62	17.62	19.5	0
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.84	17.85	17.88	17.97	17.90	19.5	0
15	QPSK	1	37	17.77	17.81	17.87	17.63	17.78	19.5	0
15	QPSK	1	74	17.63	17.73	17.85	17.64	17.63	19.5	0
15	QPSK	36	0	17.74	17.84	17.96	17.84	17.83	19.5	0
15	QPSK	36	20	17.76	17.88	17.89	17.67	17.69	19.5	0
15	QPSK	36	39	17.76	17.82	17.81	17.59	17.58	19.5	0
15	QPSK	75	0	17.80	17.84	17.99	17.88	17.85	19.5	0
15	16QAM	1	0	17.73	17.82	17.82	17.70	17.72	19.5	0
15	16QAM									



Band 2 Ant 4 SA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				18700	18800	19100				
Frequency (MHz)				18700	18800	19100				
20	QPSK	1	0	19.91	20.13	19.94				
20	QPSK	1	49	19.74	19.92	19.82	21	0		
20	QPSK	1	99	19.83	19.86	19.75				
20	QPSK	50	0	19.93	20.07	19.94				
20	QPSK	50	24	19.75	19.92	19.77	21	0		
20	QPSK	50	50	19.77	19.92	19.78				
20	QPSK	100	0	19.97	20.12	20.04				
20	16QAM	1	0	19.79	19.92	19.80				
20	16QAM	1	49	19.82	19.93	19.78	21	0		
20	16QAM	1	99	19.51	19.71	19.58				
20	16QAM	50	0	19.41	19.55	19.44				
20	16QAM	50	24	19.17	19.32	19.26	20.5	0.5		
20	16QAM	50	50	19.10	19.30	19.27				
20	16QAM	100	0	19.24	19.34	19.33				
20	64QAM	1	0	18.62	18.57	18.65				
20	64QAM	1	49	18.66	18.64	18.65	20.5	0.5		
20	64QAM	1	99	18.63	18.65	18.64				
20	64QAM	50	0	17.61	17.67	17.65				
20	64QAM	50	24	17.54	17.55	17.63	19.5	1.5		
20	64QAM	50	50	17.53	17.59	17.58				
20	64QAM	100	0	17.51	17.50	17.71				
Channel				18875	18900	19125				
Frequency (MHz)				18875	18900	19125				
15	QPSK	1	0	19.88	20.07	19.88				
15	QPSK	1	37	19.67	19.83	19.79	21	0		
15	QPSK	1	74	19.76	19.79	19.67				
15	QPSK	36	0	19.88	19.97	19.88				
15	QPSK	36	20	19.67	19.95	19.68	21	0		
15	QPSK	36	39	19.88	19.84	19.75				
15	QPSK	75	0	19.67	20.12	20.02				
15	16QAM	1	0	19.69	19.85	19.79				
15	16QAM	1	37	19.76	19.84	19.77	21	0		
15	16QAM	1	74	19.47	19.62	19.52				
15	16QAM	36	0	19.38	19.34	19.35				
15	16QAM	36	20	19.05	19.10	19.07	20.5	0.5		
15	16QAM	36	39	19.00	19.17	19.14				
15	16QAM	75	0	19.05	19.19	19.24				
15	64QAM	1	0	18.58	18.55	18.54	20.5	0.5		
15	64QAM	1	37	18.59	18.56	18.58				
15	64QAM	1	74	18.55	18.59	18.65				
15	64QAM	36	0	17.54	17.50	17.65				
15	64QAM	36	20	17.56	17.58	17.58	19.5	1.5		
15	64QAM	36	39	17.54	17.52	17.53				
15	64QAM	75	0	17.54	17.57	17.67				
Channel				18925	18900	19150				
Frequency (MHz)				18925	18900	19150				
10	QPSK	1	0	19.90	20.07	19.92				
10	QPSK	1	25	19.65	19.88	19.81	21	0		
10	QPSK	1	49	19.75	19.82	19.65				
10	QPSK	25	0	19.83	20.00	19.91				
10	QPSK	25	12	19.75	19.89	19.74	21	0		
10	QPSK	25	25	19.77	19.82	19.75				
10	QPSK	50	0	19.90	20.12	20.03				
10	16QAM	1	0	19.76	19.90	19.70				
10	16QAM	1	25	19.76	19.91	19.77	21	0		
10	16QAM	1	49	19.49	19.67	19.48				
10	16QAM	25	0	19.23	19.46	19.27				
10	16QAM	25	12	19.14	19.14	19.17	20.5	0.5		
10	16QAM	25	25	19.01	19.20	19.10				
10	16QAM	50	0	19.03	19.31	19.30				
10	64QAM	1	0	18.51	18.55	18.51	20.5	0.5		
10	64QAM	1	25	18.58	18.59	18.57				
10	64QAM	1	49	18.59	18.55	18.56				
10	64QAM	25	0	17.58	17.68	17.54	19.5	1.5		
10	64QAM	25	12	17.56	17.68	17.54				
10	64QAM	25	25	17.58	17.57	17.61				
10	64QAM	50	0	17.57	17.58	17.71				
Channel				18825	18900	19175				
Frequency (MHz)				18825	18900	19175				
5	QPSK	1	0	19.90	20.09	19.93				
5	QPSK	1	12	19.74	19.94	19.80	21	0		
5	QPSK	1	24	19.75	19.85	19.73				
5	QPSK	12	0	19.85	19.98	19.89				
5	QPSK	12	7	19.74	19.89	19.73	21	0		
5	QPSK	12	13	19.68	19.89	19.69				
5	QPSK	25	0	19.91	20.12	20.04				
5	16QAM	1	0	19.78	19.92	19.76				
5	16QAM	1	12	19.72	19.90	19.71	21	0		
5	16QAM	1	24	19.47	19.66	19.55				
5	16QAM	12	0	19.19	19.44	19.40				
5	16QAM	12	7	19.09	19.30	19.18	20.5	0.5		
5	16QAM	12	13	18.95	19.09	19.28				
5	16QAM	25	0	19.09	19.27	19.25				
5	64QAM	1	0	18.51	18.55	18.58	20.5	0.5		
5	64QAM	1	12	18.61	18.56	18.57				
5	64QAM	1	24	18.51	18.56	18.57				
5	64QAM	12	0	17.56	17.64	17.66				
5	64QAM	12	7	17.57	17.56	17.63	19.5	1.5		
5	64QAM	12	13	17.50	17.55	17.65				
5	64QAM	25	0	17.52	17.58	17.64				
Channel				19815	18900	19185				
Frequency (MHz)				18515	18800	19085				
3	QPSK	1	0	19.89	20.10	19.84				
3	QPSK	1	8	19.66	19.88	19.78	21	0		
3	QPSK	1	14	19.81	19.82	19.73				
3	QPSK	8	0	19.86	19.98	19.93				
3	QPSK	8	4	19.70	19.95	19.69	21	0		
3	QPSK	8	7	19.68	19.84	19.73				
3	QPSK	15	0	19.93	20.00	19.96				
3	16QAM	1	0	19.79	19.84	19.78				
3	16QAM	1	8	19.73	19.87	19.69	21	0		
3	16QAM	1	14	19.42	19.67	19.50				
3	16QAM	8	0	19.33	19.48	19.36				
3	16QAM	8	4	19.08	19.30	19.17	20.5	0.5		
3	16QAM	8	7	19.11	19.18	19.16				
3	16QAM	15	0	19.18	19.12	19.20				
3	64QAM	1	0	18.62	18.54	18.62	20.5	0.5		
3	64QAM	1	8	18.59	18.59	18.57				
3	64QAM	1	14	18.58	18.64	18.65				
3	64QAM	8	0	17.58	17.59	17.54				
3	64QAM	8	4	17.52	17.57	17.55	19.5	1.5		
3	64QAM	8	7	17.58	17.57	17.53				
3	64QAM	15	0	17.53	17.51	17.69				
Channel				18607	18900	19193				
Frequency (MHz)				18507	18800	19093				
1.4	QPSK	1	0	19.86	20.05	19.92				
1.4	QPSK	1	3	19.71	19.83	19.79	21	0		
1.4	QPSK	1	5	19.80	19.79	19.67				
1.4	QPSK	3	0	19.86	20.06	19.86				
1.4	QPSK	3	1	19.75	19.88	19.67				
1.4	QPSK	3	3	19.67	19.92	19.73	21	0		
1.4	QPSK	6	0	19.83	20.05	20.04				
1.4	16QAM	1	0	19.69	19.82	19.71				
1.4	16QAM	1	3	19.75	19.89	19.68	21	0		
1.4	16QAM	1	5	19.42	19.70	19.53				
1.4	16QAM	3	0	19.65	19.74	19.65	21	0		
1.4	16QAM	3	1	19.65	19.82	19.60				
1.4	16QAM	3	3	19.36	19.67	19.44	20.5	0.5		
1.4	16QAM	6	0	19.19	19.34	19.21				
1.4	64QAM	1	0	18.51	18.56	18.66	20.5	0.5		
1.4	64QAM	1	3	18.54	18.55	18.63				
1.4	64QAM	1	5	18.53	18.61	18.54	20.5	0.5		
1.4	64QAM	3	0	18.51	18.62	18.62	</			



Band 25 Ant 4 SA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				26140	26340	26590				
Frequency (MHz)				1820	1880	1920				
20	QPSK	1	0	19.71	19.73	19.77				
20	QPSK	1	49	19.58	19.62	19.75	21	0		
20	QPSK	1	99	19.70	19.76	19.71				
20	QPSK	50	0	19.64	19.74	19.53				
20	QPSK	50	24	19.66	19.59	19.71	21	0		
20	QPSK	50	50	19.63	19.66	19.67				
20	QPSK	100	0	19.68	19.76	19.65				
20	16QAM	1	0	19.53	19.58	19.67				
20	16QAM	1	49	19.65	19.71	19.72	21	0		
20	16QAM	1	99	19.59	19.77	19.55				
20	16QAM	50	0	19.26	19.37	19.29				
20	16QAM	50	24	19.07	19.31	19.15	20.5	0.5		
20	16QAM	50	50	19.11	19.36	19.13				
20	16QAM	100	0	19.06	19.28	19.12				
20	64QAM	1	0	19.43	19.51	19.37				
20	64QAM	1	49	19.35	19.40	19.31	20.5	0.5		
20	64QAM	1	99	19.43	19.48	19.38				
20	64QAM	50	0	19.35	19.39	19.32				
20	64QAM	50	24	18.34	18.34	18.24	19.5	1.5		
20	64QAM	50	50	18.15	18.38	18.15				
20	64QAM	100	0	18.29	18.25	18.13				
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1907.5				
15	QPSK	1	0	19.62	19.72	19.53	21	0		
15	QPSK	1	37	19.61	19.61	19.75				
15	QPSK	1	74	19.63	19.78	19.77				
15	QPSK	36	0	19.55	19.69	19.54				
15	QPSK	36	20	19.63	19.60	19.70	21	0		
15	QPSK	36	39	19.63	19.78	19.76				
15	QPSK	75	0	19.65	19.71	19.69				
15	16QAM	1	0	19.58	19.57	19.64				
15	16QAM	1	37	19.65	19.71	19.71	21	0		
15	16QAM	1	74	19.60	19.75	19.50				
15	16QAM	36	0	19.24	19.26	19.29				
15	16QAM	36	20	19.28	19.27	19.25	20.5	0.5		
15	16QAM	36	39	19.08	19.14	19.09				
15	16QAM	75	0	19.00	19.23	19.04				
15	64QAM	1	0	19.27	19.38	19.35				
15	64QAM	1	37	19.21	19.18	19.19	20.5	0.5		
15	64QAM	1	74	19.44	19.34	19.25				
15	64QAM	36	0	18.26	18.35	18.22				
15	64QAM	36	20	18.17	18.23	18.04	19.5	1.5		
15	64QAM	36	39	18.11	18.27	18.06				
15	64QAM	75	0	18.21	18.06	18.04				
Channel				26090	26340	26660	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1910				
10	QPSK	1	0	19.64	19.73	19.55	21	0		
10	QPSK	1	25	19.56	19.60	19.76				
10	QPSK	1	49	19.69	19.71	19.66				
10	QPSK	25	0	19.62	19.73	19.76				
10	QPSK	25	12	19.60	19.63	19.76	21	0		
10	QPSK	25	25	19.70	19.77	19.72				
10	QPSK	50	0	19.70	19.74	19.62				
10	16QAM	1	0	19.56	19.56	19.71				
10	16QAM	1	25	19.58	19.75	19.76	21	0		
10	16QAM	1	49	19.67	19.76	19.51				
10	16QAM	25	0	19.10	19.33	19.21				
10	16QAM	25	12	19.25	19.27	19.08	20.5	0.5		
10	16QAM	25	25	19.09	19.17	19.10				
10	16QAM	50	0	19.29	19.26	19.02				
10	64QAM	1	0	19.23	19.47	19.19				
10	64QAM	1	25	19.18	19.33	19.30	20.5	0.5		
10	64QAM	1	49	19.29	19.47	19.16				
10	64QAM	25	0	18.19	18.26	18.21				
10	64QAM	25	12	18.27	18.35	18.16	19.5	1.5		
10	64QAM	25	25	18.13	18.27	18.15				
10	64QAM	50	0	18.07	18.12	18.11				
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1912.5				
5	QPSK	1	0	19.68	19.76	19.58	21	0		
5	QPSK	1	12	19.58	19.58	19.67				
5	QPSK	1	24	19.72	19.75	19.74				
5	QPSK	12	0	19.63	19.78	19.65				
5	QPSK	12	7	19.59	19.60	19.77	21	0		
5	QPSK	12	13	19.64	19.77	19.67				
5	QPSK	25	0	19.66	19.78	19.65				
5	16QAM	1	0	19.55	19.62	19.66				
5	16QAM	1	12	19.65	19.70	19.75	21	0		
5	16QAM	1	24	19.65	19.77	19.50				
5	16QAM	12	0	19.26	19.26	19.23				
5	16QAM	12	7	19.08	19.30	19.14	20.5	0.5		
5	16QAM	12	13	19.09	19.15	19.14				
5	16QAM	25	0	19.07	19.13	19.15				
5	64QAM	1	0	19.38	19.48	19.19				
5	64QAM	1	12	19.20	19.31	19.17	20.5	0.5		
5	64QAM	1	24	19.45	19.46	19.17				
5	64QAM	12	0	18.36	18.23	18.10				
5	64QAM	12	7	18.17	18.31	18.21	19.5	1.5		
5	64QAM	12	13	18.13	18.19	18.17				
5	64QAM	25	0	18.25	18.15	18.03				
Channel				26095	26340	26675	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1851.5	1880	1913.5				
3	QPSK	1	0	19.65	19.76	19.53	21	0		
3	QPSK	1	8	19.59	19.58	19.66				
3	QPSK	1	14	19.68	19.72	19.69				
3	QPSK	8	0	19.55	19.76	19.65				
3	QPSK	8	4	19.67	19.63	19.73	21	0		
3	QPSK	8	7	19.62	19.75	19.72				
3	QPSK	15	0	19.62	19.70	19.65				
3	16QAM	1	0	19.58	19.59	19.66				
3	16QAM	1	8	19.61	19.70	19.75	21	0		
3	16QAM	1	14	19.61	19.71	19.69				
3	16QAM	8	0	19.27	19.33	19.26				
3	16QAM	8	4	19.14	19.20	19.10	20.5	0.5		
3	16QAM	8	7	19.06	19.18	19.11				
3	16QAM	15	0	19.11	19.27	19.09				
3	64QAM	1	0	19.28	19.48	19.35				
3	64QAM	1	8	19.26	19.27	19.31	20.5	0.5		
3	64QAM	1	14	19.32	19.36	19.27				
3	64QAM	8	0	18.20	18.22	18.14				
3	64QAM	8	4	18.35	18.25	18.08	19.5	1.5		
3	64QAM	8	7	18.09	18.20	18.14				
3	64QAM	15	0	18.22	18.23	18.08				
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1850.7	1880	1914.3				
1.4	QPSK	1	0	19.63	19.76	19.57	21	0		
1.4	QPSK	1	3	19.64	19.59	19.66				
1.4	QPSK	1	5	19.66	19.75	19.71				
1.4	QPSK	3	0	19.64	19.76	19.64				
1.4	QPSK	3	1	19.59	19.59	19.77				
1.4	QPSK	3	3	19.66	19.78	19.72				
1.4	QPSK	8	0	19.69	19.73	19.53	21	0		
1.4	16QAM	1	0	19.54	19.60	19.66				
1.4	16QAM	1	3	19.58	19.69	19.69				
1.4	16QAM	1	5	19.60	19.72	19.67	21	0		
1.4	16QAM	3	0	19.61	19.59	19.63				
1.4	16QAM	3	1	19.61	19.67	19.71				
1.4	16QAM	3	3	19.60	19.75	19.54				
1.4	16QAM	8	0	19.18	19.38	19.29	20.5	0.5		
1.4	64QAM	1	0	19.42	19.45	19.37				
1.4	64QAM	1	3	19.30	19.25	19.16				
1.4	64QAM	1	5	19.40	19.31	19.29	20.5	0.5		
1.4	64QAM	3	0	19.31	19.31	19.26				
1.4	64QAM	3	1	19.14	19.28	19.25				
1.4	64QAM	3	3	19.44	19.27	19.34				
1.4	64QAM	6	0	18.27	18.16	18.16	19.5	1.5		

Band 66 Ant 4 SA DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	20.29	20.35	20.30			
20	QPSK	1	49	20.16	20.29	20.28	21.5	0	
20	QPSK	1	99	20.30	20.33	20.25			
20	QPSK	50	0	20.29	20.33	20.30			
20	QPSK	50	24	20.15	20.12	20.20	21.5	0	
20	QPSK	50	50	20.25	20.27	20.14			
20	QPSK	100	0	20.22	20.24	20.14			
20	16QAM	1	0	20.23	20.26	20.25			
20	16QAM	1	49	20.22	20.24	20.30	21.5	0	
20	16QAM	1	99	20.32	20.33	20.19			
20	16QAM	50	0	19.37	19.46	19.35			
20	16QAM	50	24	19.27	19.38	19.19	20.5	1	
20	16QAM	50	50	19.13	19.34	19.10			
20	16QAM	100	0	19.22	19.22	19.14			
20	64QAM	1	0	19.35	19.52	19.39			
20	64QAM	1	49	19.03	19.31	19.10	20.5	1	
20	64QAM	1	99	19.07	19.41	19.08</			



Band 48 Ant 5 SA DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	16.98	17.15	17.03	16.77	18.5	0
20	QPSK	1	49	16.97	16.74	16.93	16.72		
20	QPSK	1	99	16.72	16.66	16.72	16.79		
20	QPSK	50	0	16.93	17.10	17.01	16.70		
20	QPSK	50	24	16.93	16.68	16.87	16.66		
20	QPSK	50	50	16.69	16.62	16.65	16.74		
20	QPSK	100	0	16.93	17.12	16.98	16.70		
20	16QAM	1	0	16.95	17.10	16.99	16.72		
20	16QAM	1	49	16.99	16.70	16.95	16.67		
20	16QAM	1	99	16.67	16.60	16.69	16.77		
20	16QAM	50	0	16.91	17.07	16.99	16.73	18.5	0
20	16QAM	50	24	16.94	16.69	16.87	16.68		
20	16QAM	50	50	16.68	16.64	16.68	16.76		
20	16QAM	100	0	16.93	17.07	16.97	16.74		
20	64QAM	1	0	16.95	17.11	16.99	16.73		
20	64QAM	1	49	16.93	16.95	16.89	16.69		
20	64QAM	1	99	16.92	16.94	16.69	16.74		
20	64QAM	50	0	16.91	17.08	17.01	16.70		
20	64QAM	50	24	16.86	16.66	16.87	16.66		
20	64QAM	50	50	16.69	16.61	16.64	16.77		
20	64QAM	100	0	16.64	16.76	16.64	16.68		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	16.93	17.08	16.99	16.74	18.5	0
15	QPSK	1	37	16.90	16.71	16.87	16.65		
15	QPSK	1	74	16.68	16.65	16.69	16.76		
15	QPSK	36	0	16.87	17.04	16.97	16.67		
15	QPSK	36	20	16.89	16.60	16.81	16.61		
15	QPSK	36	39	16.66	16.56	16.62	16.69		
15	QPSK	75	0	16.90	17.04	16.94	16.64		
15	16QAM	1	0	16.89	17.05	16.94	16.70		
15	16QAM	1	37	16.85	16.66	16.80	16.61		
15	16QAM	1	74	16.61	16.58	16.66	16.71		
15	16QAM	36	0	16.83	16.99	16.93	16.65	18.5	0
15	16QAM	36	20	16.90	16.66	16.81	16.65		
15	16QAM	36	39	16.66	16.56	16.64	16.69		
15	16QAM	75	0	16.90	16.99	16.94	16.69		
15	64QAM	1	0	16.93	17.08	16.92	16.66		
15	64QAM	1	37	16.89	16.91	16.82	16.62		
15	64QAM	1	74	16.84	16.89	16.61	16.69		
15	64QAM	36	0	16.88	17.03	16.98	16.64		
15	64QAM	36	20	16.94	16.58	16.92	16.64		
15	64QAM	36	39	16.66	16.58	16.57	16.71		
15	64QAM	75	0	16.58	16.73	16.58	16.63		
Channel				55290	55815	56160	56690		
Frequency (MHz)				3523	3573.5	3613	3673.5		
10	QPSK	1	0	16.92	17.12	16.99	16.72	18.5	0
10	QPSK	1	26	16.91	16.70	16.88	16.68		
10	QPSK	1	49	16.68	16.64	16.70	16.75		
10	QPSK	25	0	16.87	17.04	16.98	16.62		
10	QPSK	25	12	16.89	16.65	16.82	16.64		
10	QPSK	25	25	16.62	16.60	16.59	16.71		
10	QPSK	50	0	16.96	17.04	16.92	16.64		
10	16QAM	1	0	16.89	17.05	16.92	16.70		
10	16QAM	1	26	16.86	16.67	16.79	16.64		
10	16QAM	1	49	16.65	16.57	16.66	16.72		
10	16QAM	25	0	16.87	17.03	16.95	16.68	18.5	0
10	16QAM	25	12	16.89	16.63	16.80	16.62		
10	16QAM	25	25	16.62	16.58	16.62	16.74		
10	16QAM	50	0	16.89	17.01	16.90	16.71		
10	64QAM	1	0	16.89	17.07	16.94	16.68		
10	64QAM	1	26	16.85	16.89	16.81	16.64		
10	64QAM	1	49	16.65	16.86	16.66	16.70		
10	64QAM	25	0	16.88	17.03	16.95	16.65		
10	64QAM	25	12	16.84	16.61	16.79	16.60		
10	64QAM	25	25	16.61	16.55	16.57	16.73		
10	64QAM	50	0	16.58	16.68	16.62	16.64		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3523.2	3577	3613	3677.5		
5	QPSK	1	0	16.91	17.10	17.00	16.72	18.5	0
5	QPSK	1	12	16.92	16.67	16.88	16.65		
5	QPSK	1	24	16.69	16.63	16.65	16.73		
5	QPSK	12	0	16.90	17.05	16.94	16.63		
5	QPSK	12	7	16.90	16.63	16.83	16.62		
5	QPSK	12	13	16.63	16.58	16.61	16.66		
5	QPSK	25	0	16.87	17.04	16.92	16.62		
5	16QAM	1	0	16.88	17.03	16.93	16.69		
5	16QAM	1	12	16.85	16.67	16.81	16.60		
5	16QAM	1	24	16.62	16.53	16.66	16.69		
5	16QAM	12	0	16.86	17.04	16.92	16.65	18.5	0
5	16QAM	12	7	16.90	16.63	16.82	16.61		
5	16QAM	12	13	16.62	16.60	16.65	16.73		
5	16QAM	25	0	16.89	17.03	16.94	16.69		
5	64QAM	1	0	16.88	17.08	16.95	16.66		
5	64QAM	1	12	16.87	16.91	16.82	16.63		
5	64QAM	1	24	16.87	16.87	16.93	16.70		
5	64QAM	12	0	16.84	17.02	16.94	16.66		
5	64QAM	12	7	16.86	16.64	16.82	16.60		
5	64QAM	12	13	16.61	16.58	16.61	16.71		
5	64QAM	25	0	16.61	16.73	16.57	16.63		



Band 4 Ant 0 NSA DSI1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)										
20	QPSK	1	0	13.10	13.12	12.85				
20	QPSK	1	49	12.94	13.08	13.01	14.5	0		
20	QPSK	1	99	12.86	12.91	12.97				
20	QPSK	50	0	12.88	13.09	12.84				
20	QPSK	50	24	13.04	13.00	12.96	14.5	0		
20	QPSK	50	50	12.86	13.07	12.91				
20	QPSK	100	0	12.94	13.00	12.83				
20	16QAM	1	0	12.93	13.01	12.96				
20	16QAM	1	49	13.02	12.97	13.05	14.5	0		
20	16QAM	1	99	12.93	13.06	12.98				
20	16QAM	50	0	13.10	13.07	12.89				
20	16QAM	50	24	12.93	13.10	12.92	14.5	0		
20	16QAM	50	50	12.97	13.08	12.97				
20	16QAM	100	0	13.04	13.02	12.94				
20	64QAM	1	0	12.75	12.92	13.00				
20	64QAM	1	49	13.04	13.05	13.03	14.5	0		
20	64QAM	1	99	13.05	13.07	12.99				
20	64QAM	50	0	12.97	13.03	12.89				
20	64QAM	50	24	13.10	13.08	12.92	14.5	0		
20	64QAM	50	50	13.00	12.93	12.90				
20	64QAM	100	0	12.93	13.02	12.95				
Channel Frequency (MHz)										
15	QPSK	1	0	13.11	13.25	12.91				
15	QPSK	1	37	12.90	12.93	12.93	14.5	0		
15	QPSK	1	74	12.77	12.84	12.92				
15	QPSK	36	0	12.99	13.10	12.74				
15	QPSK	36	20	13.04	13.01	12.88	14.5	0		
15	QPSK	36	39	12.91	13.02	12.80				
15	QPSK	75	0	12.87	13.00	12.83				
15	16QAM	1	0	12.86	12.83	12.89				
15	16QAM	1	37	13.00	12.94	13.00	14.5	0		
15	16QAM	1	74	12.88	13.03	12.98				
15	16QAM	36	0	13.06	12.96	12.81				
15	16QAM	36	20	12.86	13.11	12.86	14.5	0		
15	16QAM	36	39	12.87	13.05	12.97				
15	16QAM	75	0	12.86	12.88	12.92				
15	16QAM	1	0	12.87	12.87	12.92				
15	64QAM	1	37	13.03	13.04	12.98	14.5	0		
15	64QAM	1	74	12.88	13.03	12.85				
15	64QAM	36	0	12.93	12.96	12.83				
15	64QAM	36	20	13.02	12.99	12.92	14.5	0		
15	64QAM	36	39	12.86	13.02	12.87				
15	64QAM	75	0	12.93	12.91	12.86				
Channel Frequency (MHz)										
10	QPSK	1	0	13.08	13.03	12.97				
10	QPSK	1	25	12.93	12.99	12.91	14.5	0		
10	QPSK	1	49	12.83	12.85	12.94				
10	QPSK	25	0	12.89	13.01	12.84				
10	QPSK	25	12	13.05	12.99	12.94	14.5	0		
10	QPSK	25	25	12.95	13.02	12.88				
10	QPSK	50	0	12.84	12.95	12.82				
10	16QAM	1	0	12.85	12.92	12.92				
10	16QAM	1	25	12.94	12.89	12.99	14.5	0		
10	16QAM	1	49	12.93	12.99	12.90				
10	16QAM	25	0	13.06	12.88	12.85				
10	16QAM	25	12	12.92	12.98	12.85	14.5	0		
10	16QAM	25	25	12.92	13.05	12.92				
10	16QAM	50	0	12.94	12.97	12.85				
10	64QAM	1	0	12.70	12.84	12.90				
10	64QAM	1	25	13.04	13.06	12.96	14.5	0		
10	64QAM	1	49	13.03	13.01	12.86				
10	64QAM	25	0	12.86	12.86	12.87				
10	64QAM	25	12	13.09	13.00	12.84	14.5	0		
10	64QAM	25	25	12.86	12.81	12.87				
10	64QAM	50	0	12.89	12.97	12.86				
Channel Frequency (MHz)										
5	QPSK	1	0	13.09	13.10	12.85				
5	QPSK	1	12	12.81	12.85	12.85	14.5	0		
5	QPSK	1	24	12.81	12.88	12.93				
5	QPSK	12	0	12.87	13.10	12.74				
5	QPSK	12	7	12.85	12.99	12.92	14.5	0		
5	QPSK	12	13	12.96	12.95	12.82				
5	QPSK	25	0	12.93	12.98	12.83				
5	16QAM	1	0	12.95	12.85	12.84				
5	16QAM	1	12	12.92	12.94	12.98	14.5	0		
5	16QAM	1	24	12.92	12.95	12.99				
5	16QAM	12	0	13.02	12.91	12.83				
5	16QAM	12	7	12.93	13.07	12.91	14.5	0		
5	16QAM	12	13	12.86	13.02	12.92				
5	16QAM	25	0	12.89	12.85	12.84				
5	64QAM	1	0	12.70	12.90	12.90				
5	64QAM	1	12	13.02	13.01	12.99	14.5	0		
5	64QAM	1	24	13.00	13.01	12.89				
5	64QAM	12	0	12.94	12.95	12.80				
5	64QAM	12	7	13.03	13.00	12.83	14.5	0		
5	64QAM	12	13	12.85	12.83	12.86				
5	64QAM	25	0	12.91	12.95	12.94				
Channel Frequency (MHz)										
3	QPSK	1	0	13.03	13.11	12.87				
3	QPSK	1	8	12.85	13.06	12.95	14.5	0		
3	QPSK	1	14	12.76	12.81	12.92				
3	QPSK	8	0	12.91	13.04	12.80				
3	QPSK	8	4	12.85	12.83	12.81	14.5	0		
3	QPSK	8	7	12.93	12.96	12.91				
3	QPSK	15	0	12.84	12.91	12.77				
3	16QAM	1	0	12.94	12.92	12.85				
3	16QAM	1	8	13.00	12.96	12.95	14.5	0		
3	16QAM	1	14	12.91	12.96	12.94				
3	16QAM	8	0	13.04	12.92	12.88				
3	16QAM	8	4	12.87	13.09	12.86	14.5	0		
3	16QAM	8	7	12.97	13.06	12.90				
3	16QAM	15	0	12.97	13.03	12.95				
3	64QAM	1	0	12.75	12.86	12.96				
3	64QAM	1	8	13.01	12.94	13.03	14.5	0		
3	64QAM	1	14	12.96	13.00	13.00				
3	64QAM	8	0	12.93	12.95	12.90				
3	64QAM	8	4	13.04	13.01	12.88	14.5	0		
3	64QAM	8	7	13.00	12.87	12.81				
3	64QAM	15	0	12.93	12.92	12.90				
Channel Frequency (MHz)										
1.4	QPSK	1	0	13.08	13.21	12.83				
1.4	QPSK	1	3	12.83	12.89	12.90	14.5	0		
1.4	QPSK	1	5	12.81	12.83	12.98				
1.4	QPSK	3	0	12.80	13.04	12.75				
1.4	QPSK	3	1	13.02	12.99	12.95				
1.4	QPSK	3	3	12.96	13.03	12.81	14.5	0		
1.4	QPSK	6	0	12.83	12.91	12.77				
1.4	16QAM	1	0	12.83	13.02	12.85				
1.4	16QAM	1	3	12.91	12.93	12.98				
1.4	16QAM	1	5	12.87	12.99	12.88	14.5	0		
1.4	16QAM	3	0	13.09	12.91	12.83				
1.4	16QAM	3	1	12.85	13.07	12.92				
1.4	16QAM	3	3	12.97	13.06	12.95	14.5	0		
1.4	64QAM	1	0	12.86	12.86	12.88				
1.4	64QAM	1	0	12.72	12.82	12.91				
1.4	64QAM	1	3	12.98	12.99	13.02				
1.4	64QAM	1	5	13.05	13.01	12.88	14.5	0		
1.4	64QAM	3	0	12.87	12.93	12.88				
1.4	64QAM	3	1	13.10	13.08	12.87				
1.4	64QAM	3	3	12.90	12.85	12.91	14.5	0		
1.4	64QAM	6	0	12.87	13.03	12.92				

Band 25 Ant 0 NSA DSI1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)</			



Band 7 Ant 1 NSA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2310	2335	2360			
20	QPSK	1	0	15.71	15.83	15.80			
20	QPSK	1	49	15.59	15.64	15.62	17	0	
20	QPSK	1	99	15.81	15.88	15.58			
20	QPSK	50	0	15.65	15.81	15.80			
20	QPSK	50	24	15.81	15.74	15.81	17	0	
20	QPSK	50	50	15.83	15.68	15.80			
20	QPSK	100	0	15.68	15.80	15.72			
20	16QAM	1	0	15.82	15.83	15.88			
20	16QAM	1	49	15.56	15.73	15.83	17	0	
20	16QAM	1	99	15.73	15.82	15.74			
20	16QAM	50	0	15.55	15.82	15.83			
20	16QAM	50	24	15.58	15.69	15.58	17	0	
20	16QAM	50	50	15.83	15.76	15.73			
20	16QAM	100	0	15.65	15.67	15.64			
20	64QAM	1	0	15.82	15.66	15.58			
20	64QAM	1	49	15.64	15.79	15.73	17	0	
20	64QAM	1	99	15.57	15.67	15.63			
20	64QAM	50	0	15.07	15.69	15.68			
20	64QAM	50	24	15.83	15.70	15.78	17	0	
20	64QAM	50	50	15.68	15.68	15.64			
20	64QAM	100	0	15.65	15.75	15.64			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	15.70	15.74	15.71	17	0	
15	QPSK	1	37	15.37	15.37	15.35			
15	QPSK	1	74	15.58	15.64	15.56			
15	QPSK	36	0	15.56	15.77	15.77			
15	QPSK	36	20	15.54	15.60	15.59	17	0	
15	QPSK	36	39	15.53	15.85	15.53			
15	QPSK	75	0	15.60	15.79	15.65			
15	16QAM	1	0	15.81	15.54	15.85	17	0	
15	16QAM	1	37	15.53	15.70	15.82			
15	16QAM	1	74	15.68	15.72	15.71			
15	16QAM	36	0	15.45	15.80	15.80			
15	16QAM	36	20	15.52	15.65	15.53	17	0	
15	16QAM	36	39	15.56	15.78	15.64			
15	16QAM	75	0	15.52	15.56	15.80			
15	64QAM	1	0	15.60	15.82	15.54	17	0	
15	64QAM	1	37	15.59	15.64	15.82			
15	64QAM	1	74	15.49	15.56	15.57			
15	64QAM	36	0	15.48	15.88	15.56			
15	64QAM	36	20	15.60	15.82	15.72	17	0	
15	64QAM	36	39	15.36	15.66	15.83			
15	64QAM	75	0	15.64	15.65	15.60			
Channel				20500	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	15.68	15.76	15.72	17	0	
10	QPSK	1	25	15.55	15.60	15.52			
10	QPSK	1	49	15.52	15.65	15.51			
10	QPSK	25	0	15.61	15.74	15.71	17	0	
10	QPSK	25	12	15.51	15.81	15.59			
10	QPSK	25	25	15.58	15.83	15.55			
10	QPSK	50	0	15.60	15.77	15.63			
10	16QAM	1	0	15.52	15.81	15.83	17	0	
10	16QAM	1	25	15.47	15.71	15.54			
10	16QAM	1	49	15.65	15.75	15.68			
10	16QAM	25	0	15.51	15.54	15.54	17	0	
10	16QAM	25	12	15.49	15.81	15.52			
10	16QAM	25	25	15.58	15.80	15.67			
10	16QAM	50	0	15.46	15.57	15.54			
10	64QAM	1	0	15.53	15.84	15.54	17	0	
10	64QAM	1	25	15.62	15.81	15.69			
10	64QAM	1	49	15.53	15.57	15.80			
10	64QAM	25	0	15.52	15.81	15.55	17	0	
10	64QAM	25	12	15.54	15.75	15.70			
10	64QAM	25	25	15.50	15.84	15.56			
10	64QAM	50	0	15.64	15.68	15.60			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	15.65	15.77	15.77	17	0	
5	QPSK	1	12	15.53	15.82	15.54			
5	QPSK	1	24	15.59	15.82	15.48			
5	QPSK	12	0	15.60	15.74	15.75	17	0	
5	QPSK	12	7	15.52	15.83	15.60			
5	QPSK	12	13	15.59	15.81	15.57			
5	QPSK	25	0	15.66	15.78	15.66	17	0	
5	16QAM	1	0	15.87	15.81	15.86			
5	16QAM	1	12	15.49	15.83	15.58	17	0	
5	16QAM	1	24	15.71	15.71	15.70			
5	16QAM	12	0	15.44	15.58	15.57			
5	16QAM	12	7	15.54	15.84	15.54	17	0	
5	16QAM	12	13	15.60	15.79	15.71			
5	16QAM	25	0	15.48	15.80	15.83			
5	64QAM	1	0	15.80	15.84	15.49	17	0	
5	64QAM	1	12	15.62	15.79	15.88			
5	64QAM	1	24	15.54	15.56	15.59			
5	64QAM	12	0	15.49	15.82	15.80			
5	64QAM	12	7	15.60	15.80	15.73	17	0	
5	64QAM	12	13	15.57	15.59	15.82			
5	64QAM	25	0	15.82	15.84	15.59			

Band 30 Ant 1 NSA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
10	QPSK	1	0	17.20	17.16	17.19	18.5	0	
10	QPSK	1	25		17.08				
10	QPSK	1	49		17.11				
10	QPSK	25	0		17.22				
10	QPSK	25	12		17.11				
10	QPSK	25	25		17.19				
10	QPSK	50	0		17.23				
10	16QAM	1	0		17.14				
10	16QAM	1	25		17.19				
10	16QAM	1	49		17.29				
10	16QAM	25	0		17.12				
10	16QAM	25	12		17.19				
10	16QAM	25	25		17.28				
10	16QAM	50	0		17.09				
10	64QAM	1	0		17.22				
10	64QAM	1	25		17.25				
10	64QAM	1	49		17.11				
10	64QAM	25	0		17.09				
10	64QAM	25	12		17.29				
10	64QAM	25	25		17.13				
10	64QAM	50	0		17.11				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	17.20	17.16	17.19	18.5	0	
5	QPSK	1	12	17.09	16.92	17.01			
5	QPSK	1	24	17.02	17.06	17.05			
5	QPSK	12	0	17.17	17.20	17.18			
5	QPSK	12	7	16.99	16.92	17.01	18.5	0	
5	QPSK	12	13	17.09	17.03	16.98			
5	QPSK	25	0	17.19	17.17	17.27			
5	16QAM	1	0	17.03	17.01	16.96	18.5	0	
5	16QAM	1	12	17.05	17.12	17.11			
5	16QAM	1	24	17.17	17.08	17.20			
5	16QAM	12	0	17.06	16.84	17.05			
5	16QAM	12	7	17.00	17.11	17.11	18.5	0	
5	16QAM	12	13	17.20	17.09	17.22			
5	16QAM	25	0	17.04	16.99	17.07			
5	64QAM	1	0	17.07	17.04	17.04	18.5	0	
5	64QAM	1	12	17.12	17.19	17.24			
5	64QAM	1	24	17.02	17.06	17.00			
5	64QAM	12	0	17.05	17.13	17.12			
5	64QAM	12	7	17.25	17.18	17.21	18.5	0	
5	64QAM	12	13	16.96	17.04	16.95			
5	64QAM	25	0	17.08	17.15	17.08			



Band 2 Ant 4 NSA DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1890	1890	1900		
20	QPSK	1	0	15.98	16.14	16.11		
20	QPSK	1	49	15.88	15.93	15.85	17	0
20	QPSK	1	99	15.86	15.85	15.84		
20	QPSK	50	0	15.89	16.10	15.96		
20	QPSK	50	24	15.90	16.01	15.93	17	0
20	QPSK	50	50	15.78	15.92	15.73		
20	QPSK	100	0	15.98	16.10	15.98		
20	16QAM	1	0	15.81	15.99	15.79		
20	16QAM	1	49	15.76	15.90	15.80	17	0
20	16QAM	1	99	15.98	16.10	16.01		
20	16QAM	50	0	15.83	15.96	15.78		
20	16QAM	50	24	15.75	15.91	15.83	17	0
20	16QAM	50	50	15.99	16.10	16.03		
20	16QAM	100	0	15.75	15.93	15.77		
20	64QAM	1	0	15.75	15.89	15.75		
20	64QAM	1	49	15.95	16.12	15.95	17	0
20	64QAM	1	99	15.77	15.99	15.80		
20	64QAM	25	0	15.75	15.90	15.77		
20	64QAM	50	24	15.93	16.11	15.95	17	0
20	64QAM	50	50	15.76	15.99	15.80		
20	64QAM	100	0	15.83	15.89	15.75		
Channel								
Frequency (MHz)				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	15.83	16.09	15.92		
15	QPSK	1	37	15.74	15.87	15.68	17	0
15	QPSK	1	74	15.78	15.84	15.73		
15	QPSK	36	0	15.88	16.08	15.93		
15	QPSK	36	20	15.74	15.98	15.76	17	0
15	QPSK	36	39	15.77	15.84	15.64		
15	QPSK	75	0	15.97	16.09	15.95		
15	16QAM	1	0	15.78	15.99	15.71		
15	16QAM	1	37	15.68	15.86	15.75	17	0
15	16QAM	1	74	15.91	16.08	15.99		
15	16QAM	36	0	15.73	15.87	15.76		
15	16QAM	36	20	15.70	15.89	15.82	17	0
15	16QAM	36	39	15.94	16.09	15.97		
15	16QAM	75	0	15.73	15.88	15.75		
15	16QAM	1	0	15.85	15.81	15.68		
15	64QAM	1	37	15.92	16.06	15.87	17	0
15	64QAM	1	74	15.69	15.83	15.74		
15	64QAM	36	0	15.69	15.80	15.70		
15	64QAM	36	20	15.93	16.08	15.87	17	0
15	64QAM	36	39	15.68	15.83	15.76		
15	64QAM	75	0	15.75	15.84	15.73		
Channel								
Frequency (MHz)				18950	18990	19150	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	15.83	16.07	15.93		
10	QPSK	1	25	15.71	15.86	15.66	17	0
10	QPSK	1	49	15.72	15.76	15.71		
10	QPSK	25	0	15.89	16.07	15.89		
10	QPSK	25	12	15.79	15.93	15.77	17	0
10	QPSK	25	25	15.77	15.93	15.66		
10	QPSK	50	0	15.97	16.07	15.94		
10	16QAM	1	0	15.80	15.98	15.72		
10	16QAM	1	25	15.76	15.83	15.78	17	0
10	16QAM	1	49	15.94	16.06	16.00		
10	16QAM	25	0	15.78	15.88	15.73		
10	16QAM	25	12	15.74	15.83	15.74	17	0
10	16QAM	25	25	15.93	16.08	15.93		
10	16QAM	50	0	15.70	15.84	15.68		
10	64QAM	1	0	15.67	15.80	15.68		
10	64QAM	1	25	15.93	16.02	15.94	17	0
10	64QAM	1	49	15.69	15.86	15.77		
10	64QAM	25	0	15.70	15.85	15.70		
10	64QAM	25	12	15.90	16.12	15.87	17	0
10	64QAM	25	25	15.74	15.89	15.71		
10	64QAM	50	0	15.81	15.83	15.73		
Channel								
Frequency (MHz)				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	15.80	16.08	15.99		
5	QPSK	1	12	15.69	15.87	15.68	17	0
5	QPSK	1	24	15.76	15.84	15.72		
5	QPSK	12	0	15.87	16.03	15.87		
5	QPSK	12	7	15.75	15.87	15.75	17	0
5	QPSK	12	13	15.76	15.87	15.64		
5	QPSK	25	0	15.98	16.04	15.94		
5	16QAM	1	0	15.77	15.97	15.77		
5	16QAM	1	12	15.69	15.82	15.73	17	0
5	16QAM	1	24	15.90	16.03	15.99		
5	16QAM	12	0	15.79	15.94	15.76		
5	16QAM	12	7	15.74	15.89	15.74	17	0
5	16QAM	12	13	15.96	16.07	16.01		
5	16QAM	25	0	15.70	15.85	15.68		
5	64QAM	1	0	15.65	15.82	15.70		
5	64QAM	1	12	15.90	16.10	15.87	17	0
5	64QAM	1	24	15.74	15.90	15.72		
5	64QAM	12	0	15.70	15.83	15.70		
5	64QAM	12	7	15.85	16.07	15.87	17	0
5	64QAM	12	13	15.68	15.85	15.74		
5	64QAM	25	0	15.81	15.88	15.65		
Channel								
Frequency (MHz)				18915	18990	19185	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	15.80	16.05	15.92		
3	QPSK	1	8	15.71	15.92	15.74	17	0
3	QPSK	1	14	15.76	15.84	15.68		
3	QPSK	8	0	15.83	16.08	15.87		
3	QPSK	8	4	15.72	15.85	15.72	17	0
3	QPSK	8	7	15.72	15.85	15.71		
3	QPSK	15	0	15.91	16.06	15.95		
3	16QAM	1	0	15.79	15.91	15.72		
3	16QAM	1	8	15.66	15.88	15.70	17	0
3	16QAM	1	14	15.94	16.05	15.93		
3	16QAM	8	0	15.78	15.92	15.78		
3	16QAM	8	4	15.69	15.85	15.77	17	0
3	16QAM	8	7	15.97	16.00	16.02		
3	16QAM	15	0	15.67	15.93	15.71		
3	64QAM	1	0	15.66	15.81	15.74		
3	64QAM	1	8	15.91	16.03	15.87	17	0
3	64QAM	1	14	15.74	15.90	15.78		
3	64QAM	8	0	15.74	15.81	15.73		
3	64QAM	8	4	15.91	16.07	15.93	17	0
3	64QAM	8	7	15.73	15.99	15.76		
3	64QAM	15	0	15.75	15.87	15.74		
Channel								
Frequency (MHz)				18907	18990	19193	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	15.87	16.08	15.95		
1.4	QPSK	1	3	15.77	15.89	15.68	17	0
1.4	QPSK	1	5	15.78	15.81	15.66		
1.4	QPSK	3	0	15.87	16.03	15.81		
1.4	QPSK	3	1	15.80	16.00	15.74		
1.4	QPSK	3	3	15.77	15.84	15.64	17	0
1.4	QPSK	6	0	15.89	16.09	15.90		
1.4	16QAM	1	0	15.74	15.90	15.78		
1.4	16QAM	1	3	15.69	15.87	15.74	17	0
1.4	16QAM	1	5	15.91	16.05	15.94		
1.4	16QAM	3	0	15.77	15.89	15.71		
1.4	16QAM	3	1	15.67	15.81	15.77		
1.4	16QAM	3	3	15.98	16.01	16.02	17	0
1.4	16QAM	6	0	15.71	15.85	15.78		
1.4	64QAM	1	0	15.73	15.87	15.74		
1.4	64QAM	1	3	15.86	16.07	15.95	17	0
1.4	64QAM	1	5	15.71	15.94	15.73		
1.4	64QAM	3	0	15.69	15.81	15.75		
1.4	64QAM	3	1	15.86	16.10	15.85	17	0
1.4	64QAM	3	3	15.71	15.88	15.72		
1.4	64QAM	6	0	15.74	15.80	15.66	17	0

Band 4 Ant 4 NSA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2050	2050	2050		
20	QPSK	1	0	18.38	18.48	18.29		
20	QPSK	1	49	18.27	18.21	18.24	19.5	0
20	QPSK	1	99	18.31	18.35	18.30		
20	QPSK	50	0	18.30	18.45	18.19		
20	QPSK	50	24	18.09	18.30	18.02	19.5	0
20	QPSK	50	50	18.14	18.27	17.98		
20	QPSK	100	0	18.30	18.47	18.14		
20	16QAM	1	0	18.07	18.30	18.01		
20	16QAM	1	49	18.16	18.32	17.93	19.5	0
20	16QAM	1	99	18.28</				



Band 7 Ant 4 NSA DSI7												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	12.92	13.10	12.87	14.5	0				
20	QPSK	1	49	12.76	13.07	12.74						
20	QPSK	1	99	12.76	12.94	12.77						
20	QPSK	50	0	12.90	13.08	12.88	14.5	0				
20	QPSK	50	24	12.79	13.06	12.79						
20	QPSK	50	50	12.82	12.92	12.77						
20	QPSK	100	0	12.92	13.06	12.80	14.5	0				
20	16QAM	1	0	12.80	12.98	12.72						
20	16QAM	1	49	12.80	13.02	12.88						
20	16QAM	1	99	12.99	13.06	12.85	14.5	0				
20	16QAM	50	0	12.75	12.97	12.99						
20	16QAM	50	24	12.83	12.97	12.77						
20	16QAM	50	50	12.95	13.07	12.79	14.5	0				
20	16QAM	100	0	12.75	13.00	12.69						
20	16QAM	1	0	12.81	13.01	12.69						
20	16QAM	1	49	12.96	13.07	12.84	14.5	0				
20	16QAM	50	0	12.74	13.06	12.74						
20	16QAM	50	24	12.83	12.97	12.76						
20	16QAM	50	50	12.93	13.06	12.86	14.5	0				
20	16QAM	50	50	12.83	13.00	12.78						
20	16QAM	100	0	12.82	12.96	12.77						
Channel												
Frequency (MHz)												
15	QPSK	1	0	12.89	13.08	12.78	14.5	0				
15	QPSK	1	37	12.72	13.04	12.76						
15	QPSK	1	74	12.76	12.93	12.70						
15	QPSK	36	0	12.86	13.00	12.79	14.5	0				
15	QPSK	36	20	12.76	12.97	12.78						
15	QPSK	36	39	12.75	12.95	12.88						
15	QPSK	75	0	12.83	13.07	12.72	14.5	0				
15	16QAM	1	0	12.71	12.93	12.70						
15	16QAM	1	37	12.73	13.01	12.68						
15	16QAM	1	74	12.95	13.02	12.81	14.5	0				
15	16QAM	36	0	12.73	12.95	12.60						
15	16QAM	36	20	12.83	13.00	12.74						
15	16QAM	36	39	12.91	12.98	12.71	14.5	0				
15	16QAM	75	0	12.89	12.93	12.80						
15	16QAM	75	0	12.83	13.02	12.82						
15	84QAM	1	0	12.83	13.03	12.86	14.5	0				
15	84QAM	1	37	12.92	13.03	12.86						
15	84QAM	1	74	12.67	13.07	12.71						
15	84QAM	36	0	12.78	12.92	12.71	14.5	0				
15	84QAM	36	20	12.88	13.08	12.81						
15	84QAM	36	39	12.79	12.92	12.75						
15	84QAM	75	0	12.79	12.92	12.73	14.5	0				
Channel												
Frequency (MHz)												
10	QPSK	1	0	12.84	13.00	12.87	14.5	0				
10	QPSK	1	25	12.70	13.05	12.65						
10	QPSK	1	49	12.68	12.94	12.68						
10	QPSK	25	0	12.83	12.99	12.89	14.5	0				
10	QPSK	25	12	12.72	13.03	12.79						
10	QPSK	25	25	12.76	12.87	12.68						
10	QPSK	50	0	12.83	13.00	12.74	14.5	0				
10	16QAM	1	0	12.71	12.93	12.63						
10	16QAM	1	25	12.80	13.00	12.83						
10	16QAM	1	49	12.94	13.00	12.82	14.5	0				
10	16QAM	25	0	12.77	12.94	12.61						
10	16QAM	25	12	12.81	12.90	12.76						
10	16QAM	25	25	12.92	12.98	12.79	14.5	0				
10	16QAM	50	0	12.71	12.95	12.67						
10	16QAM	1	0	12.81	12.95	12.68						
10	16QAM	1	25	12.91	13.04	12.85	14.5	0				
10	16QAM	1	49	12.99	13.07	12.87						
10	16QAM	25	0	12.80	12.85	12.78						
10	16QAM	25	12	12.92	13.07	12.87	14.5	0				
10	16QAM	25	25	12.74	12.98	12.70						
10	16QAM	50	0	12.73	12.96	12.69						
Channel												
Frequency (MHz)												
5	QPSK	1	0	12.88	13.04	12.80	14.5	0				
5	QPSK	1	12	12.72	13.00	12.74						
5	QPSK	1	24	12.66	12.85	12.75						
5	QPSK	12	0	12.81	13.00	12.82	14.5	0				
5	QPSK	12	7	12.74	13.00	12.81						
5	QPSK	12	13	12.83	12.90	12.69						
5	QPSK	25	0	12.86	12.96	12.79	14.5	0				
5	16QAM	1	0	12.79	12.90	12.69						
5	16QAM	1	12	12.81	13.03	12.66						
5	16QAM	1	24	12.98	13.08	12.83	14.5	0				
5	16QAM	12	0	12.75	12.93	12.60						
5	16QAM	12	7	12.84	12.96	12.69						
5	16QAM	12	13	12.93	13.07	12.80	14.5	0				
5	16QAM	25	0	12.86	12.90	12.66						
5	16QAM	25	0	12.71	13.02	12.69						
5	84QAM	1	0	12.93	13.06	12.75	14.5	0				
5	84QAM	1	24	12.66	13.02	12.69						
5	84QAM	12	0	12.75	12.82	12.69						
5	84QAM	12	7	12.84	13.08	12.78	14.5	0				
5	84QAM	12	13	12.81	12.98	12.71						
5	84QAM	25	0	12.81	12.95	12.75						

Band 12 Ant 4 NSA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.77	21.77	21.77	23.5	0		
10	QPSK	1	25	21.75	21.75	21.75				
10	QPSK	1	49	21.72	21.72	21.72				
10	QPSK	25	0	21.34	21.34	21.34	23	0.5		
10	QPSK	25	12	21.18	21.18	21.18				
10	QPSK	25	25	21.12	21.12	21.12				
10	QPSK	50	0	21.14	21.14	21.14	23	0.5		
10	16QAM	1	0	21.65	21.65	21.65				
10	16QAM	1	25	21.33	21.33	21.33				
10	16QAM	1	49	21.44	21.44	21.44	22	1.5		
10	16QAM	25	0	20.48	20.48	20.48				
10	16QAM	25	12	20.28	20.28	20.28				
10	16QAM	25	25	20.39	20.39	20.39	22	1.5		
10	16QAM	50	0	20.37	20.37	20.37				
10	16QAM	1	0	20.59	20.59	20.59				
10	16QAM	1	25	20.40	20.40	20.40	22	1.5		
10	16QAM	1	49	20.35	20.35	20.35				
10	16QAM	25	0	19.31	19.31	19.31				
10	16QAM	25	12	19.38	19.38	19.38	21	2.5		
10	16QAM	25	25	19.31	19.31	19.31				
10	16QAM	50	0	19.20	19.20	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.68	21.68	21.68	23.5	0		
5	QPSK	1	12	21.68	21.68	21.68				
5	QPSK	1	24	21.73	21.64	21.57				
5	QPSK	12	0	21.28	21.36	21.26	23	0.5		
5	QPSK	12	7	21.02	21.18	21.19				
5	QPSK	12	13	21.09	21.13	21.10				
5	QPSK	25	0	21.16	21.00	21.10	23	0.5		
5	16QAM	1	0	21.67	21.53	21.64				
5	16QAM	1	12	21.26	21.35	21.21				
5	16QAM	1	24	21.45	21.44	21.45	22	1.5		
5	16QAM	12	0	20.46	20.46	20.41				
5	16QAM	12	7	20.10	20.19	20.04				
5	16QAM	12	13	20.37	20.27	20.30	22	1.5		
5	16QAM	25	0	20.25	20.25	20.31				
5	16QAM	1	0	20.61	20.41	20.41				
5	84QAM	1	0	20.27	20.36	20.41	22	1.5		
5	84QAM	1	24	20.30	20.23	20.24				
5	84QAM	12	0	19.42	19.49	19.38				
5	84QAM	12	7	19.19	19.38	19.20	21	2.5		
5	84QAM	12	13	19.13	19.14	19.24				
5	84QAM	25	0	19.16	19.22	19.19				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.59	21.60	21.71	23.5	0		
3	QPSK	1	8	21.68	21.69	21.59				
3	QPSK	1	14	21.65	21.66	21.57				
3	QPSK	8	0	21.24	21.19	21.10	23	0.5		
3	QPSK	8	4	21.03	21.08	21.16				
3	QPSK	8	7	21.08	21.05	21.07				
3	QPSK	15	0	21.09	21.08	21.09	23	0.5		
3	16QAM	1	0	21.48	21.36	21.45				
3	16QAM	1	8	21.26	21.20	21.11				
3	16QAM	1	14	21.31	21.41	21.39	22	1.5		
3	16QAM	8	0	20.43	20.33	20.35				
3	16QAM	8	4	20.08	20.06	20.03				
3	16QAM	8	7	20.21	20.17	20.22	22	1.5		
3	16QAM	15	0	20.26	20.27	20.26				
3	16QAM	1	0</							



Band 26 Ant 4 NSA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.27	21.37	21.28	23	0		
15	QPSK	1	37	21.15	21.09	21.14				
15	QPSK	1	74	21.24	21.03	21.13				
15	QPSK	36	0	21.14	21.25	21.17	23	0		
15	QPSK	36	20	21.13	21.06	21.16				
15	QPSK	36	39	21.00	21.08	21.28				
15	QPSK	75	0	21.04	21.18	21.18	23	0		
15	16QAM	1	0	21.20	21.33	21.35				
15	16QAM	1	37	21.10	21.34	21.07				
15	16QAM	1	74	21.04	21.36	21.16	22	1		
15	16QAM	36	0	20.20	20.29	20.03				
15	16QAM	36	20	20.10	20.04	20.14				
15	16QAM	36	39	20.09	20.15	20.12	22	1		
15	16QAM	75	0	20.10	20.28	20.12				
15	16QAM	1	0	20.26	20.42	20.32				
15	16QAM	1	37	20.03	20.18	20.22	21	2		
15	16QAM	1	74	20.12	20.28	20.14				
15	16QAM	36	0	19.22	19.31	19.16				
15	16QAM	36	20	19.01	19.17	19.03	21	2		
15	16QAM	36	39	19.27	19.06	19.11				
15	16QAM	75	0	19.03	19.13	19.06				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.06	21.29	21.06	23	0		
10	QPSK	1	25	21.15	21.17	21.21				
10	QPSK	1	49	21.17	21.23	21.21				
10	QPSK	25	0	21.02	21.22	21.02	23	0		
10	QPSK	25	12	21.05	21.02	21.08				
10	QPSK	25	25	21.06	21.09	21.06				
10	QPSK	50	0	21.07	21.08	21.12	23	0		
10	16QAM	1	0	21.13	21.35	21.16				
10	16QAM	1	25	21.02	21.35	21.02				
10	16QAM	1	49	21.05	21.22	21.07	22	1		
10	16QAM	25	0	20.10	20.20	20.03				
10	16QAM	25	12	20.09	20.03	20.08				
10	16QAM	25	25	20.03	20.04	20.09	22	1		
10	16QAM	50	0	20.10	20.24	20.06				
10	16QAM	1	0	20.34	20.41	20.18				
10	84QAM	1	25	20.02	20.10	20.05	22	1		
10	84QAM	1	49	20.05	20.10	20.09				
10	84QAM	25	0	19.23	19.28	19.05				
10	84QAM	25	12	19.08	19.12	19.09	21	2		
10	84QAM	25	25	19.08	19.00	19.09				
10	84QAM	50	0	19.03	19.06	19.07				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.06	21.36	21.18	23	0		
5	QPSK	1	12	21.13	21.20	21.11				
5	QPSK	1	24	21.26	21.28	21.22				
5	QPSK	12	0	21.12	21.19	21.02	23	0		
5	QPSK	12	7	21.08	21.02	21.18				
5	QPSK	12	13	21.04	21.08	21.19				
5	QPSK	25	0	21.01	21.09	21.19	23	0		
5	16QAM	1	0	21.16	21.31	21.34				
5	16QAM	1	12	21.03	21.23	21.04				
5	16QAM	1	24	21.00	21.20	21.11	22	1		
5	16QAM	12	0	20.12	20.11	20.03				
5	16QAM	12	7	20.06	20.06	20.11				
5	16QAM	12	13	20.09	20.15	20.08	22	1		
5	16QAM	25	0	20.07	20.14	20.01				
5	16QAM	25	12	20.22	20.32	20.10				
5	84QAM	1	12	20.04	20.14	20.12	22	1		
5	84QAM	1	24	20.01	20.21	20.12				
5	84QAM	12	0	19.10	19.23	19.06				
5	84QAM	12	7	19.08	19.08	19.06	21	2		
5	84QAM	12	13	19.22	19.05	19.08				
5	84QAM	25	0	19.02	19.06	19.02				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.07	21.22	21.14	23	0		
3	QPSK	1	8	21.24	21.18	21.23				
3	QPSK	1	14	21.23	21.06	21.19				
3	QPSK	8	0	21.04	21.12	21.15	23	0		
3	QPSK	8	4	21.11	21.00	21.10				
3	QPSK	8	7	21.05	21.04	21.28				
3	QPSK	15	0	21.04	21.06	21.10	23	0		
3	16QAM	1	0	21.06	21.36	21.28				
3	16QAM	1	8	21.05	21.25	21.07				
3	16QAM	1	14	21.07	21.15	21.10	22	1		
3	16QAM	8	0	20.20	20.21	20.05				
3	16QAM	8	4	20.09	20.09	20.15				
3	16QAM	8	7	20.07	20.09	20.19	22	1		
3	16QAM	15	0	20.00	20.14	20.08				
3	16QAM	15	0	20.21	20.31	20.28				
3	84QAM	1	8	20.07	20.10	20.24	22	1		
3	84QAM	1	14	20.07	20.07	20.05				
3	84QAM	8	0	19.07	19.21	19.17				
3	84QAM	8	4	19.02	19.13	19.10	21	2		
3	84QAM	8	7	19.07	19.06	19.11				
3	84QAM	15	0	19.01	19.10	19.09				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.09	21.20	21.10	23	0		
1.4	QPSK	1	3	21.20	21.18	21.22				
1.4	QPSK	1	5	21.30	21.24	21.18				
1.4	QPSK	3	0	21.14	21.34	21.17	23	0		
1.4	QPSK	3	1	21.24	21.17	21.19				
1.4	QPSK	3	3	21.26	21.03	21.22				
1.4	QPSK	6	0	21.09	21.07	21.07	23	0		
1.4	16QAM	1	0	21.12	21.20	21.22				
1.4	16QAM	1	3	21.07	21.25	21.02				
1.4	16QAM	1	5	21.06	21.28	21.06	23	0		
1.4	16QAM	3	0	21.03	21.26	21.15				
1.4	16QAM	3	1	21.05	21.18	21.01				
1.4	16QAM	3	3	21.07	21.23	21.08	22	1		
1.4	16QAM	6	0	20.09	20.30	20.02				
1.4	84QAM	1	0	20.16	20.43	20.28				
1.4	84QAM	1	3	20.08	20.01	20.06	22	1		
1.4	84QAM	1	5	20.07	20.14	20.04				
1.4	84QAM	3	0	20.18	20.21	20.12				
1.4	84QAM	3	1	20.07	20.09	20.07	21	2		
1.4	84QAM	3	3	20.09	20.12	20.02				
1.4	84QAM	6	0	19.04	19.08	19.04				

Band 30 Ant 4 NSA DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	14.37			16	0		
10	QPSK	1	25	14.12						
10	QPSK	1	49	14.26						
10	QPSK	25	0	14.05			16	0		
10	QPSK	25	12	14.08						
10	QPSK	25	25	14.17						
10	QPSK	50	0	14.10			16	0		
10	16QAM	1	0	14.30						
10	16QAM	1	25	14.29						
10	16QAM	1	49	14.20			16	0		
10	16QAM	25	0	14.15						
10	16QAM	25	12	14.13						
10	16QAM	25	25	14.16			16	0		
10	16QAM	50	0	14.05						
10	16QAM	1	0	14.10						
10	84QAM	1	25	14.29			16	0		
10	84QAM	1	49	14.35						
10	84QAM	25	0	14.02						
10	84QAM	25	12	14.16			16	0		
10	84QAM	25	25	14.22						
10	84QAM	50	0	14.09						
Channel										
Frequency (MHz)										
5	QPSK	1	0	14.04	14.09	14.02	16	0		
5	QPSK	1	12	14.03	14.05	14.10				
5	QPSK	1	24	14.06	14.07	14.07				
5	QPSK	12	0	14.07	14.06	14.02	16	0		
5	QPSK	12	7	14.02	14.07	14.07				
5	QPSK	12	13	14.03	14.03	14.05				
5	QPSK	25	0	14.10	14.11	14.04	16	0		
5	16QAM	1	0	14.04	14.12	14.12				
5	16QAM	1	12	14.12	14.03	14.06				
5	16QAM	1	24	14.02	14.05	14.04	16	0		
5	16QAM	12	0	14.04	14.04	14.18				



Band 48 Ant 5 NSA DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	13.03	13.21	12.99	12.86	14.5	0
20	QPSK	1	49	12.95	12.76	12.93	12.79		
20	QPSK	1	99	12.76	12.72	12.88	12.90		
20	QPSK	50	0	13.00	13.16	12.98	12.83		
20	QPSK	50	24	12.96	12.73	12.96	12.75	14.5	0
20	QPSK	50	50	12.80	12.72	12.71	12.76		
20	QPSK	100	0	13.02	13.16	12.96	12.84		
20	16QAM	1	0	12.99	13.17	13.04	12.79		
20	16QAM	1	49	12.95	12.70	12.96	12.75	14.5	0
20	16QAM	1	99	12.73	12.67	12.72	12.70		
20	16QAM	50	0	13.04	13.16	12.97	12.83		
20	16QAM	50	24	12.98	12.73	12.99	12.74		
20	16QAM	50	50	12.79	12.75	12.71	12.71	14.5	0
20	16QAM	100	0	13.03	13.11	13.01	12.78		
20	64QAM	1	0	12.96	13.16	13.02	12.76		
20	64QAM	1	49	12.94	12.71	12.99	12.70		
20	64QAM	1	99	12.76	12.75	12.72	12.78	14.5	0
20	64QAM	50	0	12.99	13.20	12.97	12.82		
20	64QAM	50	24	12.95	12.71	12.94	12.85		
20	64QAM	50	50	12.81	12.72	12.87	12.74		
20	64QAM	100	0	12.97	13.15	13.02	12.77		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	12.99	13.16	12.95	12.82	14.5	0
15	QPSK	1	37	12.91	12.69	12.90	12.66		
15	QPSK	1	74	12.70	12.68	12.89	12.74		
15	QPSK	36	0	12.95	13.10	12.92	12.79		
15	QPSK	36	20	12.91	12.67	12.89	12.71	14.5	0
15	QPSK	36	39	12.76	12.69	12.65	12.69		
15	QPSK	75	0	12.99	13.10	12.90	12.78		
15	16QAM	1	0	12.92	13.11	12.96	12.75		
15	16QAM	1	37	12.91	12.67	12.90	12.70	14.5	0
15	16QAM	1	74	12.69	12.63	12.66	12.64		
15	16QAM	36	0	12.99	13.11	12.93	12.78		
15	16QAM	36	20	12.95	12.67	12.95	12.68		
15	16QAM	36	39	12.74	12.71	12.68	12.66	14.5	0
15	16QAM	75	0	12.96	13.15	12.96	12.73		
15	64QAM	1	0	12.92	13.12	12.98	12.73		
15	64QAM	1	37	12.88	12.65	12.93	12.66		
15	64QAM	1	74	12.71	12.69	12.68	12.72	14.5	0
15	64QAM	36	0	12.94	13.14	12.90	12.78		
15	64QAM	36	20	12.90	12.67	12.87	12.69		
15	64QAM	36	39	12.75	12.66	12.73	12.68		
15	64QAM	75	0	12.91	13.10	12.98	12.74		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	12.88	13.11	12.88	12.80	14.5	0
10	QPSK	1	26	12.89	12.79	12.80	12.66		
10	QPSK	1	49	12.88	12.89	12.78	12.71		
10	QPSK	25	0	12.94	13.06	12.85	12.74		
10	QPSK	25	12	12.87	12.61	12.84	12.65	14.5	0
10	QPSK	25	29	12.70	12.62	12.85	12.62		
10	QPSK	50	0	12.92	13.07	12.93	12.69		
10	16QAM	1	0	12.94	13.07	12.92	12.71		
10	16QAM	1	26	12.81	12.61	12.86	12.60	14.5	0
10	16QAM	1	49	12.64	12.60	12.67	12.60		
10	16QAM	25	0	12.97	13.10	12.84	12.77		
10	16QAM	25	12	12.85	12.65	12.94	12.66		
10	16QAM	25	26	12.74	12.68	12.66	12.59	14.5	0
10	16QAM	25	25	12.74	12.68	12.66	12.59		
10	16QAM	50	0	12.93	13.11	12.91	12.64		
10	64QAM	1	0	12.91	13.02	12.91	12.62		
10	64QAM	1	26	12.82	12.59	12.92	12.64	14.5	0
10	64QAM	1	49	12.67	12.63	12.62	12.67		
10	64QAM	25	0	12.85	13.07	12.83	12.72		
10	64QAM	25	12	12.85	12.63	12.86	12.85		
10	64QAM	25	26	12.66	12.63	12.62	12.59	14.5	0
10	64QAM	25	25	12.66	12.63	12.62	12.59		
10	64QAM	50	0	12.83	13.03	12.93	12.67		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	12.97	13.07	12.91	12.80	14.5	0
5	QPSK	1	12	12.85	12.64	12.78	12.77		
5	QPSK	1	24	12.67	12.79	12.62	12.67		
5	QPSK	12	0	12.92	13.02	12.88	12.77		
5	QPSK	12	7	12.84	12.66	12.84	12.68	14.5	0
5	QPSK	12	13	12.68	12.60	12.84	12.63		
5	QPSK	25	0	12.90	13.03	12.89	12.71		
5	16QAM	1	0	12.93	13.04	12.96	12.66		
5	16QAM	1	12	12.80	12.58	12.87	12.64	14.5	0
5	16QAM	1	24	12.63	12.56	12.67	12.57		
5	16QAM	12	0	12.95	13.06	12.88	12.73		
5	16QAM	12	7	12.84	12.61	12.91	12.61		
5	16QAM	12	13	12.70	12.61	12.58	12.66	14.5	0
5	16QAM	25	0	12.94	13.15	12.89	12.66		
5	64QAM	1	0	12.85	13.08	12.93	12.64		
5	64QAM	1	12	12.80	12.56	12.93	12.63		
5	64QAM	1	24	12.65	12.64	12.56	12.70	14.5	0
5	64QAM	12	0	12.88	13.09	12.88	12.81		
5	64QAM	12	7	12.84	12.65	12.88	12.86		
5	64QAM	12	13	12.88	12.89	12.86	12.84		
5	64QAM	25	0	12.87	13.09	12.89	12.64		



Reduced Power Mode for Sensor on for WWAN

Default									
GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
Tx Channel	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4	848.6
Frequency (MHz)	812.8	825.0	837.2	812.8	825.0	837.2	812.8	825.0	837.2
GSM 1 Tx slot	31.89	32.10	32.05	33.50	22.89	23.10	23.05	24.50	
GPRS 1 Tx slot	31.88	32.11	31.99	33.50	22.88	23.11	22.99	24.50	
GPRS 2 Tx slots	30.99	31.24	31.19	32.00	24.99	25.24	25.19	26.00	
GPRS 3 Tx slots	29.11	29.36	29.20	30.50	24.85	25.10	24.94	25.24	
GPRS 4 Tx slots	27.80	28.10	28.05	29.00	24.80	25.10	25.05	26.00	
EDGE 1 Tx slot	28.45	28.49	28.01	27.50	17.45	17.49	17.61	18.50	
EDGE 2 Tx slots	25.25	25.29	25.39	26.50	19.25	19.29	19.38	20.50	
EDGE 3 Tx slots	23.10	23.12	23.24	24.50	18.84	18.86	18.98	20.24	
EDGE 4 Tx slots	21.88	22.03	22.12	23.00	18.88	19.03	19.12	20.00	
SA DS03									
GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
Tx Channel	1824.2	1836.4	1848.6	1824.2	1836.4	1848.6	1824.2	1836.4	1848.6
Frequency (MHz)	1812.8	1825.0	1837.2	1812.8	1825.0	1837.2	1812.8	1825.0	1837.2
GSM 1 Tx slot	23.23	23.31	23.23	24.50	14.25	14.31	14.23	15.50	
GPRS 1 Tx slot	23.27	23.29	23.23	24.50	14.27	14.29	14.23	15.50	
GPRS 2 Tx slots	22.36	22.42	22.36	23.50	16.36	16.42	16.36	17.50	
GPRS 3 Tx slots	20.31	20.38	20.38	21.50	10.05	10.12	10.12	11.24	
GPRS 4 Tx slots	19.10	19.12	19.03	20.00	10.10	10.12	10.03	11.00	
EDGE 1 Tx slot	19.68	19.76	19.70	21.00	10.68	10.76	10.70	12.00	
EDGE 2 Tx slots	18.46	18.56	18.50	20.00	12.46	12.56	12.50	14.00	
EDGE 3 Tx slots	16.33	16.39	16.38	17.50	12.06	12.13	12.13	13.24	
EDGE 4 Tx slots	14.83	14.91	14.86	16.00	11.83	11.91	11.86	13.00	
SA DS03									
Default									
Band	WCDMA V_Ant 0			WCDMA IV_Ant 0			WCDMA IV_Ant 0		
Tx Channel	9662	9660	9538	1312	1413	1513	4132	4182	4233
Rx Channel	9662	9800	9938	1637	1638	1738	4367	4407	4458
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
3GPP Rel 99 AMR 12.2Kbps	14.78	14.80	14.77	16.00	16.44	16.53	18.50	22.42	22.62
3GPP Rel 99 AMR 12.2Kbps	14.75	14.83	14.80	16.00	16.52	16.56	18.50	22.43	22.64
3GPP Rel 6 HSDPA Subtest-1	13.82	13.78	13.84	15.00	17.45	17.47	17.43	18.50	21.43
3GPP Rel 6 HSDPA Subtest-2	13.81	13.83	13.86	15.00	17.52	17.58	17.52	18.50	21.59
3GPP Rel 6 HSDPA Subtest-3	13.16	13.13	13.21	14.50	17.01	17.01	16.98	18.00	21.01
3GPP Rel 6 HSDPA Subtest-4	13.10	13.42	12.89	14.50	16.76	17.15	16.77	18.00	20.91
3GPP Rel 6 DC-HSDPA Subtest-1	13.86	13.84	13.74	15.00	17.50	17.83	17.37	18.50	21.48
3GPP Rel 6 DC-HSDPA Subtest-2	13.58	13.89	13.90	15.00	17.49	17.43	17.59	18.50	21.47
3GPP Rel 6 DC-HSDPA Subtest-3	13.11	13.44	13.23	14.50	16.98	17.01	16.98	18.00	20.95
3GPP Rel 6 DC-HSDPA Subtest-4	13.30	13.54	13.08	14.50	17.02	17.07	16.80	18.00	21.07
3GPP Rel 6 HSUPA Subtest-1	13.65	13.77	13.42	15.00	17.32	17.54	17.34	18.50	21.39
3GPP Rel 6 HSUPA Subtest-2	11.86	11.81	11.65	13.00	15.54	15.34	15.36	16.50	19.47
3GPP Rel 6 HSUPA Subtest-3	12.47	12.88	12.81	14.00	16.27	16.35	16.41	17.50	20.29
3GPP Rel 6 HSUPA Subtest-4	11.83	11.81	11.83	13.00	15.35	15.45	15.41	16.50	19.48
3GPP Rel 6 HSUPA Subtest-5	13.56	14.01	13.87	15.00	17.36	17.59	17.68	18.50	21.48
3GPP Rel 7 HSPA (12QAM) Subtest-1	10.98	11.01	10.97	12.50	14.64	14.78	14.60	16.00	18.78



Band 2 Ant 0 SA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.33	15.43	15.37	17	0	
20	QPSK	1	49	15.32	15.40	15.21			
20	QPSK	1	99	15.21	15.33	15.17			
20	QPSK	50	0	15.37	15.42	15.33	17	0	
20	QPSK	50	24	15.27	15.35	15.18			
20	QPSK	50	50	15.16	15.32	15.28			
20	QPSK	100	0	15.31	15.36	15.32	17	0	
20	16QAM	1	0	15.27	15.41	15.22			
20	16QAM	1	49	15.23	15.34	15.21			
20	16QAM	1	99	15.35	15.41	15.30	17	0	
20	16QAM	50	0	15.28	15.36	15.27			
20	16QAM	50	24	15.17	15.29	15.18			
20	16QAM	50	50	15.32	15.38	15.32	17	0	
20	16QAM	100	0	15.27	15.36	15.28			
20	64QAM	1	0	15.21	15.35	15.26			
20	64QAM	1	49	15.33	15.39	15.35	17	0	
20	64QAM	1	99	15.27	15.39	15.25			
20	64QAM	50	0	15.23	15.28	15.26			
20	64QAM	50	24	15.28	15.38	15.39	17	0	
20	64QAM	50	50	15.27	15.41	15.19			
20	64QAM	100	0	15.25	15.33	15.22			
Channel									
Frequency (MHz)									
15	QPSK	1	0	15.23	15.38	15.34	17	0	
15	QPSK	1	37	15.23	15.33	15.13			
15	QPSK	1	74	15.18	15.32	15.13			
15	QPSK	36	0	15.30	15.40	15.31	17	0	
15	QPSK	36	20	15.26	15.29	15.08			
15	QPSK	36	39	15.06	15.27	15.18			
15	QPSK	75	0	15.29	15.36	15.27	17	0	
15	16QAM	1	0	15.26	15.40	15.17			
15	16QAM	1	37	15.23	15.24	15.12			
15	16QAM	1	74	15.31	15.34	15.25	17	0	
15	16QAM	36	0	15.19	15.33	15.22			
15	16QAM	36	20	15.10	15.24	15.16			
15	16QAM	36	39	15.24	15.34	15.28	17	0	
15	16QAM	75	0	15.26	15.32	15.24			
15	64QAM	1	0	15.18	15.32	15.26			
15	64QAM	1	37	15.31	15.32	15.30	17	0	
15	64QAM	1	74	15.20	15.32	15.23			
15	64QAM	36	0	15.19	15.19	15.19			
15	64QAM	36	20	15.22	15.32	15.30	17	0	
15	64QAM	36	39	15.18	15.39	15.19			
15	64QAM	75	0	15.17	15.28	15.13			
Channel									
Frequency (MHz)									
10	QPSK	1	0	15.31	15.38	15.36	17	0	
10	QPSK	1	25	15.26	15.37	15.17			
10	QPSK	1	49	15.16	15.23	15.12			
10	QPSK	25	0	15.34	15.38	15.24	17	0	
10	QPSK	25	12	15.20	15.27	15.17			
10	QPSK	25	25	15.15	15.23	15.16			
10	QPSK	50	0	15.22	15.26	15.30	17	0	
10	16QAM	1	0	15.19	15.35	15.18			
10	16QAM	1	25	15.17	15.26	15.19			
10	16QAM	1	49	15.26	15.32	15.26	17	0	
10	16QAM	25	0	15.26	15.36	15.21			
10	16QAM	25	12	15.14	15.29	15.10			
10	16QAM	25	25	15.31	15.41	15.29	17	0	
10	16QAM	50	0	15.17	15.29	15.20			
10	64QAM	1	0	15.16	15.29	15.18			
10	64QAM	1	25	15.24	15.33	15.34	17	0	
10	64QAM	1	49	15.22	15.29	15.22			
10	64QAM	25	0	15.17	15.20	15.18			
10	64QAM	25	12	15.19	15.29	15.31	17	0	
10	64QAM	25	25	15.18	15.37	15.09			
10	64QAM	50	0	15.17	15.30	15.21			
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.32	15.36	15.31	17	0	
5	QPSK	1	12	15.24	15.31	15.11			
5	QPSK	1	24	15.18	15.29	15.15			
5	QPSK	12	0	15.31	15.40	15.30	17	0	
5	QPSK	12	7	15.21	15.31	15.17			
5	QPSK	12	13	15.12	15.23	15.20			
5	QPSK	25	0	15.25	15.33	15.26	17	0	
5	16QAM	1	0	15.22	15.39	15.15			
5	16QAM	1	12	15.15	15.27	15.11			
5	16QAM	1	24	15.27	15.37	15.29	17	0	
5	16QAM	12	0	15.25	15.31	15.19			
5	16QAM	12	7	15.14	15.26	15.16			
5	16QAM	12	13	15.28	15.37	15.29	17	0	
5	16QAM	25	0	15.19	15.26	15.26			
5	64QAM	1	0	15.20	15.32	15.21			
5	64QAM	1	12	15.23	15.36	15.32	17	0	
5	64QAM	1	24	15.26	15.32	15.17			
5	64QAM	12	0	15.21	15.20	15.25			
5	64QAM	12	7	15.27	15.33	15.32	17	0	
5	64QAM	12	13	15.26	15.36	15.14			
5	64QAM	25	0	15.18	15.24	15.20			
Channel									
Frequency (MHz)									
3	QPSK	1	0	15.32	15.33	15.36	17	0	
3	QPSK	1	8	15.30	15.36	15.13			
3	QPSK	1	14	15.16	15.33	15.17			
3	QPSK	8	0	15.29	15.32	15.32	17	0	
3	QPSK	8	4	15.21	15.30	15.11			
3	QPSK	8	7	15.10	15.28	15.19			
3	QPSK	15	0	15.25	15.31	15.23	17	0	
3	16QAM	1	0	15.19	15.37	15.14			
3	16QAM	1	8	15.23	15.28	15.12			
3	16QAM	1	14	15.27	15.36	15.25	17	0	
3	16QAM	8	0	15.22	15.31	15.25			
3	16QAM	8	4	15.09	15.26	15.09			
3	16QAM	8	7	15.23	15.42	15.23	17	0	
3	16QAM	15	0	15.18	15.35	15.26			
3	64QAM	1	0	15.11	15.28	15.26			
3	64QAM	1	8	15.29	15.33	15.32	17	0	
3	64QAM	1	14	15.20	15.36	15.25			
3	64QAM	8	0	15.13	15.19	15.16			
3	64QAM	8	4	15.25	15.36	15.32	17	0	
3	64QAM	8	7	15.19	15.38	15.10			
3	64QAM	15	0	15.16	15.30	15.13			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	15.28	15.34	15.31	17	0	
1.4	QPSK	1	3	15.31	15.36	15.15			
1.4	QPSK	1	5	15.16	15.33	15.14			
1.4	QPSK	3	0	15.34	15.39	15.28	17	0	
1.4	QPSK	3	1	15.24	15.34	15.08			
1.4	QPSK	3	3	15.13	15.25	15.25			
1.4	QPSK	6	0	15.22	15.32	15.26	17	0	
1.4	16QAM	1	0	15.20	15.34	15.15			
1.4	16QAM	1	3	15.16	15.25	15.15			
1.4	16QAM	1	5	15.27	15.38	15.25	17	0	
1.4	16QAM	3	0	15.27	15.36	15.22			
1.4	16QAM	3	1	15.09	15.21	15.11			
1.4	16QAM	3	3	15.26	15.35	15.29	17	0	
1.4	16QAM	6	0	15.26	15.29	15.27			
1.4	64QAM	1	0	15.18	15.31	15.17			
1.4	64QAM	1	3	15.29	15.39	15.32	17	0	
1.4	64QAM	1	5	15.25	15.37	15.20			
1.4	64QAM	3	0	15.15	15.27	15.26			
1.4	64QAM	3	1	15.26	15.33	15.38	17	0	
1.4	64QAM	3	3	15.21	15.36	15.15			
1.4	64QAM	6	0	15.23	15.28	15.17			

Band 4 Ant 0 SA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.05	17.10	16.93	18.5	0	
20	QPSK	1	49	17.04	17.00	17.01			
20	QPSK	1	99	16.91	17.02	16.89			
20	QPSK	50	0	17.02	17.05	16.97	18.5	0	
20	QPSK	50	24	17.04	17.04	16.96			
20	QPSK	50	50	16.90	17.01	16.91			
20	QPSK	100	0	16.98	17.00	16.98	18.5	0	
20	16QAM	1	0	16.98	17.01	16.95			
20	16QAM	1	49	16.82	17.05	16.91			
20	16QAM	1	99	17.02	17.03	16.96	18.5	0	
20	16QAM	50	0	16.98	17.01	16.95			
20	16QAM	50	24	16.87	16.99	16.93			
20	16QAM	50	50	17.01	17.05	16.95	18.5	0	
20	16QAM	100	0	16.98	17.07	17.01			
20	64QAM	1	0	16.87	17.00	16.85			
20	64QAM	1	49	17.04	17.01	16.97	18.5	0	
20	64QAM	1	99	16.9					



Band 25 Ant 0 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				26140	26340	26590		
20	QPSK	1	0	15.42	15.40	15.38	17	0
20	QPSK	1	49	15.30	15.39	15.22		
20	QPSK	1	99	15.17	15.19	15.21		
20	QPSK	50	0	15.40	15.41	15.36		
20	QPSK	50	24	15.33	15.36	15.24	17	0
20	QPSK	50	50	15.17	15.27	15.20		
20	QPSK	100	0	15.38	15.40	15.39		
20	QPSK	100	49	15.24	15.40	15.29		
20	16QAM	1	0	15.17	15.25	15.24	17	0
20	16QAM	1	49	15.17	15.25	15.24		
20	16QAM	1	99	15.43	15.40	15.40		
20	16QAM	50	0	15.27	15.36	15.21		
20	16QAM	50	24	15.13	15.21	15.25	17	0
20	16QAM	50	50	15.36	15.39	15.41		
20	16QAM	100	0	15.31	15.35	15.27		
20	16QAM	100	49	15.17	15.19	15.20		
20	64QAM	1	0	15.17	15.19	15.20	17	0
20	64QAM	1	49	15.36	15.40	15.36		
20	64QAM	1	99	15.32	15.36	15.21		
20	64QAM	50	0	15.15	15.19	15.21		
20	64QAM	50	24	15.41	15.40	15.35	17	0
20	64QAM	50	50	15.34	15.34	15.22		
20	64QAM	100	0	15.19	15.23	15.18		
20	64QAM	100	49	15.17	15.19	15.20		
Channel								
Frequency (MHz)				26115	26340	26615		
15	QPSK	1	0	15.33	15.44	15.38	17	0
15	QPSK	1	37	15.25	15.27	15.15		
15	QPSK	1	74	15.15	15.08	15.15		
15	QPSK	36	0	15.27	15.40	15.27		
15	QPSK	36	20	15.29	15.38	15.13	17	0
15	QPSK	36	39	15.03	15.30	15.20		
15	QPSK	75	0	15.31	15.42	15.44		
15	16QAM	1	0	15.19	15.34	15.23		
15	16QAM	1	37	15.08	15.25	15.17	17	0
15	16QAM	1	74	15.37	15.38	15.31		
15	16QAM	36	0	15.19	15.25	15.15		
15	16QAM	36	20	15.17	15.18	15.14		
15	16QAM	36	39	15.39	15.43	15.39	17	0
15	16QAM	75	0	15.21	15.33	15.14		
15	64QAM	1	0	15.04	15.20	15.08		
15	64QAM	1	37	15.25	15.30	15.28		
15	64QAM	1	74	15.26	15.23	15.09	17	0
15	64QAM	36	0	15.11	15.20	15.06		
15	64QAM	36	20	15.45	15.44	15.40		
15	64QAM	36	39	15.33	15.28	15.22		
15	64QAM	75	0	15.14	15.14	15.11		
Channel								
Frequency (MHz)				26090	26340	26640		
10	QPSK	1	0	15.28	15.40	15.36	17	0
10	QPSK	1	25	15.19	15.31	15.16		
10	QPSK	1	49	15.19	15.17	15.23		
10	QPSK	25	0	15.36	15.40	15.25		
10	QPSK	25	12	15.25	15.29	15.12	17	0
10	QPSK	25	25	15.16	15.31	15.14		
10	QPSK	50	0	15.29	15.26	15.30		
10	16QAM	1	0	15.25	15.29	15.24		
10	16QAM	1	25	15.03	15.29	15.13	17	0
10	16QAM	1	49	15.29	15.38	15.31		
10	16QAM	25	0	15.20	15.32	15.06		
10	16QAM	25	12	15.00	15.25	15.11		
10	16QAM	25	25	15.28	15.42	15.41	17	0
10	16QAM	50	0	15.26	15.33	15.27		
10	64QAM	1	0	15.19	15.04	15.24		
10	64QAM	1	25	15.31	15.31	15.30		
10	64QAM	1	49	15.34	15.26	15.25	17	0
10	64QAM	25	0	15.02	15.08	15.14		
10	64QAM	25	12	15.33	15.42	15.40		
10	64QAM	25	25	15.38	15.32	15.21		
10	64QAM	50	0	15.21	15.24	15.09		
Channel								
Frequency (MHz)				26065	26340	26665		
5	QPSK	1	0	15.35	15.41	15.24	17	0
5	QPSK	1	12	15.28	15.39	15.19		
5	QPSK	1	24	15.12	15.23	15.14		
5	QPSK	12	0	15.33	15.45	15.29		
5	QPSK	12	7	15.20	15.30	15.21	17	0
5	QPSK	12	13	15.07	15.28	15.10		
5	QPSK	25	0	15.38	15.34	15.35		
5	16QAM	1	0	15.15	15.33	15.23		
5	16QAM	1	12	15.15	15.11	15.27	17	0
5	16QAM	1	24	15.31	15.31	15.28		
5	16QAM	12	0	15.26	15.24	15.16		
5	16QAM	12	7	15.13	15.11	15.28		
5	16QAM	12	13	15.32	15.38	15.34	17	0
5	16QAM	25	0	15.26	15.38	15.30		
5	64QAM	1	0	15.18	15.13	15.19		
5	64QAM	1	12	15.22	15.28	15.24		
5	64QAM	1	24	15.31	15.33	15.10	17	0
5	64QAM	12	0	15.10	15.19	15.23		
5	64QAM	12	7	15.32	15.42	15.24		
5	64QAM	12	13	15.24	15.25	15.11		
5	64QAM	25	0	15.13	15.20	15.08		
Channel								
Frequency (MHz)				26055	26340	26675		
3	QPSK	1	0	15.38	15.38	15.40	17	0
3	QPSK	1	8	15.26	15.43	15.07		
3	QPSK	1	14	15.17	15.09	15.17		
3	QPSK	8	0	15.42	15.42	15.26		
3	QPSK	8	4	15.25	15.26	15.23	17	0
3	QPSK	8	7	15.18	15.30	15.26		
3	QPSK	15	0	15.43	15.37	15.45		
3	16QAM	1	0	15.22	15.44	15.33		
3	16QAM	1	8	15.07	15.11	15.27	17	0
3	16QAM	1	14	15.30	15.32	15.35		
3	16QAM	8	0	15.31	15.32	15.13		
3	16QAM	8	4	15.00	15.17	15.18		
3	16QAM	8	7	15.37	15.26	15.26	17	0
3	16QAM	15	0	15.28	15.38	15.30		
3	64QAM	1	0	15.12	15.08	15.25		
3	64QAM	1	8	15.26	15.28	15.29		
3	64QAM	1	14	15.29	15.36	15.09	17	0
3	64QAM	8	0	15.19	15.17	15.26		
3	64QAM	8	4	15.34	15.39	15.24		
3	64QAM	8	7	15.31	15.26	15.11		
3	64QAM	15	0	15.11	15.17	15.21		
Channel								
Frequency (MHz)				26047	26340	26683		
1.4	QPSK	1	0	15.33	15.44	15.33	17	0
1.4	QPSK	1	3	15.18	15.04	15.22		
1.4	QPSK	1	5	15.18	15.06	15.25		
1.4	QPSK	3	0	15.30	15.28	15.26		
1.4	QPSK	3	1	15.28	15.37	15.12	17	0
1.4	QPSK	3	3	15.11	15.12	15.14		
1.4	QPSK	6	0	15.33	15.36	15.40		
1.4	16QAM	1	0	15.13	15.34	15.20		
1.4	16QAM	1	3	15.19	15.13	15.25	17	0
1.4	16QAM	1	5	15.39	15.39	15.37		
1.4	16QAM	3	0	15.31	15.30	15.16		
1.4	16QAM	3	1	15.11	15.09	15.17		
1.4	16QAM	3	3	15.38	15.33	15.37	17	0
1.4	16QAM	6	0	15.21	15.31	15.29		
1.4	64QAM	1	0	15.07	15.14	15.19		
1.4	64QAM	1	3	15.41	15.30	15.27		
1.4	64QAM	1	5	15.34	15.25	15.16	17	0
1.4	64QAM	3	0	15.02	15.09	15.10		
1.4	64QAM	3	1	15.39	15.35	15.28		
1.4	64QAM	3	3	15.24	15.37	15.10		
1.4	64QAM	6	0	15.14	15.26	15.04		

Band 66 Ant 0 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				132072	132322	132572		
20	QPSK	1	0	16.94	17.16	17.03	18.5	0
20	QPSK	1	49	16.90	17.05	16.95		
20	QPSK	1	99	16.91	17.02	16.82		
20	QPSK	50	0	16.84	17.15	16.96		
20	QPSK	50	24	16.87	16.82	16.83	18.5	0
20	QPSK	50	50	16.92	17.07	16.80		
20	QPSK	100	0	16.84	17.08	16.97		
20	QPSK	100	49	16.82	17.03	16.94		
20	16QAM	1	0	16.79	17.09	16.89	18.5	0
20	16QAM	1	49	16.98	17.15	17.01		
20	16QAM	1	99	16.98	17.15	17.01		
20	16QAM	50	0	16.84	16.95	17.00		
20	16QAM	50	24	16.83	17.02	16.90	18.5	0
20	16QAM	50	50	16.97	17.03	17.02		
20	16QAM	100	0	16.86	17.04	16.91		
20	16QAM	100	49	16.91	17.08	16.85		
20	64QAM	1						



Band 7 Ant 1 SA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2310	2335	2360			
20	QPSK	1	0	18.69	18.83	18.82			
20	QPSK	1	49	18.82	18.87	18.88	20	0	
20	QPSK	1	99	18.57	18.74	18.83			
20	QPSK	50	0	18.72	18.77	18.73			
20	QPSK	50	24	18.83	18.90	18.82	20	0	
20	QPSK	50	50	18.57	18.70	18.60			
20	QPSK	100	0	18.70	18.79	18.77			
20	16QAM	1	0	18.59	18.67	18.88			
20	16QAM	1	49	18.59	18.71	18.85	20	0	
20	16QAM	1	99	18.70	18.78	18.76			
20	16QAM	50	0	18.57	18.68	18.85			
20	16QAM	50	24	18.61	18.73	18.58	20	0	
20	16QAM	50	50	18.66	18.72	18.74			
20	16QAM	100	0	18.56	18.68	18.85			
20	64QAM	1	0	18.64	18.74	18.80			
20	64QAM	1	49	18.72	18.80	18.75	20	0	
20	64QAM	1	99	18.58	18.72	18.66			
20	64QAM	50	0	18.61	18.69	18.61	20	0	
20	64QAM	50	24	18.69	18.80	18.72			
20	64QAM	50	50	18.55	18.66	18.61			
20	64QAM	100	0	18.63	18.68	18.57			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	18.65	18.78	18.74			
15	QPSK	1	37	18.59	18.64	18.64	20	0	
15	QPSK	1	74	18.53	18.72	18.57			
15	QPSK	36	0	18.70	18.75	18.69			
15	QPSK	36	20	18.57	18.65	18.52	20	0	
15	QPSK	36	39	18.52	18.59	18.52			
15	QPSK	75	0	18.65	18.70	18.72			
15	16QAM	1	0	18.52	18.58	18.65			
15	16QAM	1	37	18.48	18.64	18.59	20	0	
15	16QAM	1	74	18.65	18.76	18.68			
15	16QAM	36	0	18.48	18.62	18.62			
15	16QAM	36	20	18.57	18.69	18.56	20	0	
15	16QAM	36	39	18.61	18.79	18.68			
15	16QAM	75	0	18.50	18.65	18.62			
15	64QAM	1	0	18.57	18.68	18.50			
15	64QAM	1	37	18.65	18.79	18.65	20	0	
15	64QAM	1	74	18.55	18.68	18.62			
15	64QAM	36	0	18.51	18.62	18.51			
15	64QAM	36	20	18.62	18.75	18.65	20	0	
15	64QAM	36	39	18.47	18.58	18.56			
15	64QAM	75	0	18.56	18.59	18.51			
Channel				20900	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	18.63	18.72	18.77			
10	QPSK	1	25	18.56	18.59	18.65	20	0	
10	QPSK	1	49	18.48	18.64	18.55			
10	QPSK	25	0	18.63	18.73	18.70			
10	QPSK	25	12	18.56	18.65	18.54	20	0	
10	QPSK	25	25	18.48	18.60	18.53			
10	QPSK	50	0	18.68	18.74	18.74			
10	16QAM	1	0	18.49	18.57	18.66			
10	16QAM	1	25	18.52	18.65	18.64	20	0	
10	16QAM	1	49	18.69	18.75	18.73			
10	16QAM	25	0	18.53	18.62	18.59			
10	16QAM	25	12	18.50	18.72	18.48	20	0	
10	16QAM	25	25	18.58	18.78	18.67			
10	16QAM	50	0	18.46	18.62	18.60			
10	64QAM	1	0	18.54	18.65	18.56			
10	64QAM	1	25	18.67	18.74	18.65	20	0	
10	64QAM	1	49	18.55	18.66	18.61			
10	64QAM	25	0	18.57	18.59	18.58			
10	64QAM	25	12	18.64	18.69	18.68	20	0	
10	64QAM	25	25	18.53	18.63	18.57			
10	64QAM	50	0	18.52	18.65	18.53			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	18.67	18.74	18.79			
5	QPSK	1	12	18.59	18.69	18.65	20	0	
5	QPSK	1	24	18.48	18.70	18.56			
5	QPSK	12	0	18.63	18.71	18.62			
5	QPSK	12	7	18.55	18.66	18.58	20	0	
5	QPSK	12	13	18.53	18.61	18.56			
5	QPSK	25	0	18.68	18.76	18.75			
5	16QAM	1	0	18.56	18.64	18.67			
5	16QAM	1	12	18.55	18.65	18.63	20	0	
5	16QAM	1	24	18.61	18.69	18.70			
5	16QAM	12	0	18.54	18.59	18.56			
5	16QAM	12	7	18.53	18.62	18.49	20	0	
5	16QAM	12	13	18.56	18.78	18.64			
5	16QAM	25	0	18.47	18.66	18.60			
5	64QAM	1	0	18.60	18.70	18.59			
5	64QAM	1	12	18.70	18.82	18.73	20	0	
5	64QAM	1	24	18.51	18.67	18.58			
5	64QAM	12	0	18.55	18.62	18.54			
5	64QAM	12	7	18.59	18.70	18.66	20	0	
5	64QAM	12	13	18.47	18.64	18.58			
5	64QAM	25	0	18.56	18.62	18.48			

Band 30 Ant 1 SA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
10	QPSK	1	0	19.78					
10	QPSK	1	25	19.52			21	0	
10	QPSK	1	49	19.65					
10	QPSK	25	0	19.72					
10	QPSK	25	12	19.67			21	0	
10	QPSK	25	25	19.64					
10	QPSK	50	0	19.73					
10	16QAM	1	0	19.49					
10	16QAM	1	25	19.72			21	0	
10	16QAM	1	49	19.69					
10	16QAM	25	0	19.65					
10	16QAM	25	12	19.56			21	0	
10	16QAM	25	25	19.77					
10	16QAM	50	0	19.56					
10	64QAM	1	0	19.68					
10	64QAM	1	25	19.76			21	0	
10	64QAM	1	49	19.54					
10	64QAM	25	0	19.59					
10	64QAM	25	12	19.75			21	0	
10	64QAM	25	25	19.64					
10	64QAM	50	0	19.71					
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	19.67	19.69	19.68			
5	QPSK	1	12	19.60	19.51	19.45	21	0	
5	QPSK	1	24	19.51	19.65	19.52			
5	QPSK	12	0	19.70	19.72	19.63			
5	QPSK	12	7	19.52	19.45	19.43	21	0	
5	QPSK	12	13	19.57	19.59	19.55			
5	QPSK	25	0	19.66	19.61	19.68			
5	16QAM	1	0	19.54	19.55	19.48	21	0	
5	16QAM	1	12	19.63	19.67	19.58			
5	16QAM	1	24	19.61	19.62	19.77			
5	16QAM	12	0	19.56	19.43	19.52			
5	16QAM	12	7	19.60	19.55	19.53	21	0	
5	16QAM	12	13	19.75	19.59	19.63			
5	16QAM	25	0	19.55	19.50	19.54			
5	64QAM	1	0	19.55	19.59	19.51			
5	64QAM	1	12	19.77	19.68	19.70	21	0	
5	64QAM	1	24	19.53	19.53	19.56			
5	64QAM	12	0	19.58	19.52	19.46			
5	64QAM	12	7	19.77	19.62	19.77	21	0	
5	64QAM	12	13	19.52	19.47	19.51			
5	64QAM	25	0	19.66	19.65	19.53			



Band 38 Ant 1 SA DSI3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch/Freq, Power Middle Ch/Freq, Power High Ch/Freq, Channel, Tune-up limit (dBm), MPR (dB). Includes rows for QPSK, 15QAM, 64QAM at various rates.

Band 41 PC2 Ant 1 SA DSI3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch/Freq, Power Middle Ch/Freq, Power High Ch/Freq, Channel, Tune-up limit (dBm), MPR (dB). Includes rows for QPSK, 15QAM, 64QAM at various rates.

Band 41 PC2 Ant 1 SA DSI3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch/Freq, Power Middle Ch/Freq, Power High Ch/Freq, Channel, Tune-up limit (dBm), MPR (dB). Includes rows for QPSK, 15QAM, 64QAM at various rates.



Band 2 Ant 4 SA DSI3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				18700	18900	19100						
Frequency (MHz)				18700	18900	19100						
20	QPSK	1	0	19.91	20.13	19.94	21	0				
20	QPSK	1	49	19.74	19.92	19.82						
20	QPSK	1	99	19.83	19.86	19.75						
20	QPSK	50	0	19.93	20.07	19.94						
20	QPSK	50	24	19.75	19.92	19.77	21	0				
20	QPSK	50	49	19.77	19.92	19.78						
20	QPSK	100	0	19.97	20.12	20.04						
20	16QAM	1	0	19.79	19.92	19.80						
20	16QAM	1	49	19.82	19.83	19.78	21	0				
20	16QAM	1	99	19.51	19.71	19.58						
20	16QAM	50	0	19.41	19.55	19.44						
20	16QAM	50	24	19.17	19.32	19.26						
20	16QAM	50	50	19.10	19.30	19.27	20.5	0.5				
20	16QAM	100	0	19.24	19.34	19.33						
20	64QAM	1	0	18.62	18.57	18.65						
20	64QAM	1	49	18.66	18.64	18.65						
20	64QAM	1	99	18.63	18.65	18.64	20.5	0.5				
20	64QAM	50	0	17.61	17.67	17.65						
20	64QAM	50	24	17.54	17.55	17.63						
20	64QAM	50	50	17.53	17.59	17.58						
20	64QAM	100	0	17.51	17.50	17.71	19.5	1.5				
Channel				18675	18900	19125						
Frequency (MHz)				1857.5	1880	1902.5						
15	QPSK	1	0	19.86	20.07	19.86			21	0		
15	QPSK	1	37	19.67	19.83	19.79						
15	QPSK	1	74	19.76	19.79	19.67						
15	QPSK	36	0	19.88	19.97	19.88						
15	QPSK	36	20	19.67	19.95	19.68	21	0				
15	QPSK	36	39	19.88	19.84	19.75						
15	QPSK	75	0	19.67	20.12	20.02						
15	16QAM	1	0	19.69	19.85	19.79						
15	16QAM	1	37	19.76	19.84	19.77	21	0				
15	16QAM	1	74	19.47	19.62	19.52						
15	16QAM	36	0	19.38	19.34	19.35						
15	16QAM	36	20	19.05	19.10	19.07						
15	16QAM	36	39	19.00	19.17	19.14	20.5	0.5				
15	16QAM	75	0	19.05	19.19	19.34						
15	64QAM	1	0	18.58	18.55	18.54						
15	64QAM	1	37	18.59	18.56	18.58						
15	64QAM	1	74	18.55	18.59	18.65	20.5	0.5				
15	64QAM	36	0	17.54	17.50	17.65						
15	64QAM	36	20	17.56	17.58	17.58						
15	64QAM	36	39	17.54	17.52	17.53						
15	64QAM	75	0	17.54	17.57	17.67	19.5	1.5				
Channel				18550	18800	19050						
Frequency (MHz)				18550	18800	1902.5						
10	QPSK	1	0	19.90	20.07	19.92			21	0		
10	QPSK	1	25	19.65	19.88	19.81						
10	QPSK	1	49	19.75	19.82	19.65						
10	QPSK	25	0	19.83	20.00	19.91						
10	QPSK	25	12	19.75	19.89	19.74	21	0				
10	QPSK	25	25	19.77	19.82	19.75						
10	QPSK	50	0	19.90	20.12	20.03						
10	16QAM	1	0	19.76	19.90	19.70						
10	16QAM	1	25	19.76	19.91	19.77	21	0				
10	16QAM	1	49	19.49	19.67	19.48						
10	16QAM	25	0	19.23	19.46	19.27						
10	16QAM	25	12	19.14	19.14	19.17						
10	16QAM	25	25	19.01	19.20	19.10	20.5	0.5				
10	16QAM	50	0	19.03	19.31	19.30						
10	64QAM	1	0	18.51	18.55	18.51						
10	64QAM	1	25	18.58	18.59	18.57						
10	64QAM	1	49	18.59	18.55	18.56	20.5	0.5				
10	64QAM	25	0	17.58	17.68	17.54						
10	64QAM	25	12	17.56	17.68	17.54						
10	64QAM	25	25	17.58	17.57	17.61						
10	64QAM	50	0	17.57	17.58	17.71	19.5	1.5				
Channel				18625	18900	19175						
Frequency (MHz)				1852.5	1880	1907.5						
5	QPSK	1	0	19.90	20.09	19.93			21	0		
5	QPSK	1	12	19.74	19.94	19.80						
5	QPSK	1	24	19.75	19.85	19.73						
5	QPSK	12	0	19.85	19.98	19.89						
5	QPSK	12	7	19.74	19.89	19.73	21	0				
5	QPSK	12	13	19.68	19.89	19.69						
5	QPSK	25	0	19.91	20.12	20.04						
5	16QAM	1	0	19.78	19.92	19.76						
5	16QAM	1	12	19.72	19.90	19.71	21	0				
5	16QAM	1	24	19.47	19.66	19.55						
5	16QAM	12	0	19.19	19.44	19.40						
5	16QAM	12	7	19.09	19.30	19.18						
5	16QAM	12	13	18.95	19.09	19.28	20.5	0.5				
5	16QAM	25	0	19.09	19.27	19.25						
5	64QAM	1	0	18.51	18.55	18.58						
5	64QAM	1	12	18.61	18.56	18.57						
5	64QAM	1	24	18.51	18.56	18.57	20.5	0.5				
5	64QAM	12	0	17.56	17.64	17.66						
5	64QAM	12	7	17.57	17.56	17.63						
5	64QAM	12	13	17.50	17.55	17.65						
5	64QAM	25	0	17.52	17.58	17.64	19.5	1.5				
Channel				19815	19900	19185						
Frequency (MHz)				1851.5	1880	1908.5						
3	QPSK	1	0	19.89	20.10	19.84			21	0		
3	QPSK	1	8	19.66	19.88	19.78						
3	QPSK	1	14	19.61	19.82	19.73						
3	QPSK	8	0	19.86	19.98	19.93						
3	QPSK	8	4	19.70	19.95	19.69	21	0				
3	QPSK	8	7	19.68	19.84	19.73						
3	QPSK	15	0	19.93	20.00	19.96						
3	16QAM	1	0	19.79	19.84	19.78						
3	16QAM	1	8	19.73	19.87	19.69	21	0				
3	16QAM	1	14	19.42	19.67	19.50						
3	16QAM	8	0	19.33	19.48	19.36						
3	16QAM	8	4	19.08	19.30	19.17						
3	16QAM	8	7	19.11	19.18	19.16	20.5	0.5				
3	16QAM	15	0	19.18	19.12	19.20						
3	64QAM	1	0	18.62	18.54	18.62						
3	64QAM	1	8	18.59	18.59	18.57						
3	64QAM	1	14	18.58	18.64	18.65	20.5	0.5				
3	64QAM	8	0	17.58	17.59	17.54						
3	64QAM	8	4	17.52	17.57	17.55						
3	64QAM	8	7	17.58	17.57	17.53						
3	64QAM	15	0	17.53	17.51	17.69	19.5	1.5				
Channel				18607	18900	19193						
Frequency (MHz)				1850.7	1880	1909.3						
1.4	QPSK	1	0	19.86	20.05	19.92			21	0		
1.4	QPSK	1	3	19.71	19.83	19.79						
1.4	QPSK	1	5	19.80	19.79	19.67						
1.4	QPSK	3	0	19.86	20.06	19.86						
1.4	QPSK	3	1	19.75	19.88	19.67	21	0				
1.4	QPSK	3	3	19.67	19.92	19.73						
1.4	QPSK	6	0	19.83	20.05	20.04						
1.4	16QAM	1	0	19.69	19.82	19.71						
1.4	16QAM	1	3	19.75	19.89	19.68	21	0				
1.4	16QAM	1	5	19.42	19.70	19.53						
1.4	16QAM	3	0	19.65	19.74	19.65						
1.4	16QAM	3	1	19.65	19.82	19.60						
1.4	16QAM	3	3	19.36	19.67	19.44	20.5	0.5				
1.4	16QAM	6	0	19.19	19.34	19.21						
1.4	64QAM	1	0	18.51	18.56	18.66						
1.4	64QAM	1	3	18.54	18.55	18.63						
1.4	64QAM	1	5	18.53	18.61	18.54	20.5	0.5				
1.4	64QAM	3	0	18.51	18.62	18.62						
1.4	64QAM	3	1	18.53	18.53	18.64						
1.4	64QAM	3	3	18.58	18.53	18.57						
1.4	64QAM	6	0	17.59	17.65	17.69	19.5	1.5				

Band 4 Ant 4 SA DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20500	20175	20300				
Frequency (MHz)				20500	20175	20300				
20	QPSK	1	0	20.41	20.49	20.38	21.5	0		
20	QPSK	1	49	20.35	20.47	20.22				
20	QPSK	1	99	20.32	20.43	20.22				
20	QPSK	50	0	20.31	20.42	20.37				
20	QPSK	50	24	20.16	20.17	20.24	21.5	0		
20	QPSK	50	49	20.10	20.24	20.22				
20	QPSK	100	0	20.00	20.20	19.99				
20	16QAM	1	0	20.22	20.32	20.29				
20	16QAM	1	49	20.13	20.27	20.21	21.5	0		
20	16QAM	1	99	20.21	20.34	20.19				
20	16QAM	50	0	19.58	19.67	19.41				
20	16QAM	50	24	19.43	19.56	19.30				
20	16QAM	50	50	19.33	19.42	19.19	20.5	1		
20	16QAM	100	0	19.45	19.35	19.20				
20	64QAM	1	0	19.34	19.51	19.35				
20	64QAM	1	49	19.06	19.40	19.24				
20	64QAM	1	99	19.15	19.31	19.22	20.5	1		
20	64QAM	50	0	18.50	18.62	18.39				
20	64QAM	50	24	18.25	18.34	18.24				
20	64QAM	50	50	18.26	18.42	18.27				



Band 25 Ant 4 SA DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				26140	26340	26590				
Frequency (MHz)				1860	1880	1905				
20	QPSK	1	0	19.71	19.73	19.77				
20	QPSK	1	49	19.58	19.62	19.75	21	0		
20	QPSK	1	99	19.70	19.76	19.71				
20	QPSK	50	0	19.64	19.74	19.53				
20	QPSK	50	24	19.66	19.59	19.71	21	0		
20	QPSK	50	50	19.63	19.66	19.55				
20	QPSK	100	0	19.68	19.76	19.65				
20	16QAM	1	0	19.53	19.58	19.67				
20	16QAM	1	49	19.65	19.71	19.72	21	0		
20	16QAM	1	99	19.59	19.77	19.55				
20	16QAM	50	0	19.26	19.37	19.29				
20	16QAM	50	24	19.07	19.31	19.15	20.5	0.5		
20	16QAM	50	50	19.11	19.36	19.13				
20	16QAM	100	0	19.06	19.28	19.12				
20	64QAM	1	0	19.43	19.51	19.37				
20	64QAM	1	49	19.35	19.40	19.31	20.5	0.5		
20	64QAM	1	99	19.43	19.48	19.38				
20	64QAM	50	0	19.35	19.39	19.32				
20	64QAM	50	24	18.34	18.34	18.24	19.5	1.5		
20	64QAM	50	50	18.15	18.38	18.15				
20	64QAM	100	0	18.29	18.25	18.13				
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1907.5				
15	QPSK	1	0	19.62	19.72	19.53	21	0		
15	QPSK	1	37	19.61	19.61	19.75				
15	QPSK	1	74	19.63	19.78	19.77				
15	QPSK	36	0	19.55	19.69	19.54				
15	QPSK	36	20	19.63	19.60	19.70	21	0		
15	QPSK	36	39	19.63	19.78	19.76				
15	QPSK	75	0	19.65	19.71	19.69				
15	16QAM	1	0	19.56	19.57	19.64				
15	16QAM	1	37	19.65	19.71	19.71	21	0		
15	16QAM	1	74	19.60	19.75	19.50				
15	16QAM	36	0	19.24	19.26	19.29				
15	16QAM	36	20	19.28	19.27	19.25	20.5	0.5		
15	16QAM	36	39	19.08	19.14	19.09				
15	16QAM	75	0	19.00	19.23	19.04				
15	64QAM	1	0	19.27	19.38	19.35	20.5	0.5		
15	64QAM	1	37	19.21	19.18	19.15				
15	64QAM	1	74	19.44	19.34	19.25				
15	64QAM	36	0	18.26	18.35	18.22				
15	64QAM	36	20	18.17	18.23	18.04	19.5	1.5		
15	64QAM	36	39	18.11	18.27	18.06				
15	64QAM	75	0	18.21	18.06	18.04				
Channel				26090	26340	26660	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1910				
10	QPSK	1	0	19.64	19.73	19.55	21	0		
10	QPSK	1	25	19.56	19.60	19.76				
10	QPSK	1	49	19.69	19.71	19.76				
10	QPSK	25	0	19.62	19.73	19.66				
10	QPSK	25	12	19.60	19.63	19.76	21	0		
10	QPSK	25	25	19.70	19.77	19.72				
10	QPSK	50	0	19.70	19.74	19.62				
10	16QAM	1	0	19.56	19.56	19.71				
10	16QAM	1	25	19.58	19.75	19.76	21	0		
10	16QAM	1	49	19.67	19.76	19.51				
10	16QAM	25	0	19.10	19.33	19.21				
10	16QAM	25	12	19.25	19.27	19.08	20.5	0.5		
10	16QAM	25	25	19.09	19.17	19.10				
10	16QAM	50	0	19.29	19.26	19.02				
10	64QAM	1	0	19.23	19.47	19.19				
10	64QAM	1	25	19.18	19.33	19.30	20.5	0.5		
10	64QAM	1	49	19.29	19.47	19.16				
10	64QAM	25	0	18.19	18.26	18.21				
10	64QAM	25	12	18.27	18.35	18.16	19.5	1.5		
10	64QAM	25	25	18.13	18.27	18.15				
10	64QAM	50	0	18.07	18.12	18.11				
Channel				26065	26340	26685	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1912.5				
5	QPSK	1	0	19.66	19.76	19.58	21	0		
5	QPSK	1	12	19.58	19.58	19.67				
5	QPSK	1	24	19.72	19.75	19.74				
5	QPSK	12	0	19.63	19.78	19.65				
5	QPSK	12	7	19.59	19.60	19.77	21	0		
5	QPSK	12	13	19.64	19.77	19.67				
5	QPSK	25	0	19.66	19.78	19.65				
5	16QAM	1	0	19.55	19.62	19.66				
5	16QAM	1	12	19.65	19.70	19.75	21	0		
5	16QAM	1	24	19.65	19.77	19.50				
5	16QAM	12	0	19.26	19.26	19.23				
5	16QAM	12	7	19.08	19.30	19.14	20.5	0.5		
5	16QAM	12	13	19.09	19.15	19.14				
5	16QAM	25	0	19.07	19.13	19.15				
5	64QAM	1	0	19.36	19.46	19.19				
5	64QAM	1	12	19.20	19.31	19.17	20.5	0.5		
5	64QAM	1	24	19.45	19.46	19.17				
5	64QAM	12	0	18.36	18.23	18.10				
5	64QAM	12	7	18.17	18.31	18.21	19.5	1.5		
5	64QAM	12	13	18.13	18.19	18.17				
5	64QAM	25	0	18.25	18.15	18.03				
Channel				26095	26340	26675	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1851.5	1880	1913.5				
3	QPSK	1	0	19.65	19.76	19.53	21	0		
3	QPSK	1	8	19.59	19.58	19.66				
3	QPSK	1	14	19.68	19.72	19.69				
3	QPSK	8	0	19.55	19.76	19.65				
3	QPSK	8	4	19.67	19.63	19.73	21	0		
3	QPSK	8	7	19.62	19.75	19.72				
3	QPSK	15	0	19.62	19.70	19.65				
3	16QAM	1	0	19.58	19.59	19.66				
3	16QAM	1	8	19.61	19.70	19.75	21	0		
3	16QAM	1	14	19.61	19.71	19.69				
3	16QAM	8	0	19.27	19.33	19.26				
3	16QAM	8	4	19.14	19.20	19.10	20.5	0.5		
3	16QAM	8	7	19.06	19.18	19.11				
3	16QAM	15	0	19.11	19.27	19.09				
3	64QAM	1	0	19.28	19.48	19.35				
3	64QAM	1	8	19.26	19.27	19.31	20.5	0.5		
3	64QAM	1	14	19.32	19.36	19.27				
3	64QAM	8	0	18.20	18.22	18.14				
3	64QAM	8	4	18.35	18.25	18.08	19.5	1.5		
3	64QAM	8	7	18.09	18.20	18.14				
3	64QAM	15	0	18.22	18.23	18.08				
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1850.7	1880	1914.3				
1.4	QPSK	1	0	19.63	19.76	19.57	21	0		
1.4	QPSK	1	3	19.64	19.59	19.66				
1.4	QPSK	1	5	19.66	19.75	19.71				
1.4	QPSK	3	0	19.64	19.76	19.64				
1.4	QPSK	3	1	19.59	19.59	19.77				
1.4	QPSK	3	3	19.66	19.78	19.72				
1.4	QPSK	8	0	19.69	19.73	19.53	21	0		
1.4	16QAM	1	0	19.54	19.60	19.66				
1.4	16QAM	1	3	19.58	19.69	19.69				
1.4	16QAM	1	5	19.60	19.72	19.67	21	0		
1.4	16QAM	3	0	19.61	19.59	19.63				
1.4	16QAM	3	1	19.61	19.67	19.71				
1.4	16QAM	3	3	19.60	19.75	19.54				
1.4	16QAM	8	0	19.18	19.38	19.29	20.5	0.5		
1.4	64QAM	1	0	19.42	19.45	19.37				
1.4	64QAM	1	3	19.30	19.25	19.16				
1.4	64QAM	1	5	19.40	19.31	19.29	20.5	0.5		
1.4	64QAM	3	0	19.31	19.31	19.26				
1.4	64QAM	3	1	19.14	19.28	19.25				
1.4	64QAM	3	3	19.44	19.27	19.34				
1.4	64QAM	6	0	18.27	18.16	18.16	19.5	1.5		

Band 66 Ant 4 SA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	20.29	20.35	20.30			
20	QPSK	1	49	20.16	20.29	20.28	21.5	0	
20	QPSK	1	99	20.30	20.33	20.25			
20	QPSK	50	0	20.29	20.33	20.30			
20	QPSK	50	24	20.15	20.12	20.20	21.5	0	
20	QPSK	50	50	20.25	20.27	20.14			
20	QPSK	100	0	20.22	20.24	20.14			
20	16QAM	1	0	20.23	20.26	20.25			
20	16QAM	1	49	20.22	20.24	20.30	21.5	0	
20	16QAM	1	99	20.32	20.33	20.19			
20	16QAM	50	0	19.37	19.46	19.35			
20	16QAM	50	24	19.27	19.36	19.19	20.5	1	
20	16QAM	50	50	19.13	19.34	19.10			
20	16QAM	100	0	19.22	19.22	19.14			
20	64QAM	1	0	19.35	19.52	19.39			
20	64QAM	1	49	19.03	19.31	19.10	20.5	1	
20	64QAM	1	99	19.07	19.41	19.08			



Band 48 Ant 5 SA DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	16.98	17.15	17.03	16.77	18.5	0
20	QPSK	1	49	16.97	16.74	16.93	16.72		
20	QPSK	1	99	16.72	16.68	16.72	16.79		
20	QPSK	50	0	16.93	17.10	17.01	16.70		
20	QPSK	50	24	16.93	16.68	16.87	16.66	18.5	0
20	QPSK	50	50	16.69	16.62	16.65	16.74		
20	QPSK	100	0	16.93	17.12	16.98	16.70		
20	16QAM	1	0	16.95	17.10	16.99	16.72		
20	16QAM	1	49	16.99	16.70	16.95	16.67	18.5	0
20	16QAM	1	99	16.67	16.60	16.69	16.77		
20	16QAM	50	0	16.91	17.07	16.99	16.73		
20	16QAM	50	24	16.94	16.69	16.87	16.68		
20	16QAM	50	50	16.68	16.64	16.68	16.76	18.5	0
20	16QAM	100	0	16.93	17.07	16.97	16.74		
20	64QAM	1	0	16.95	17.11	16.99	16.73		
20	64QAM	1	49	16.93	16.95	16.89	16.69		
20	64QAM	1	99	16.92	16.94	16.69	16.74	18.5	0
20	64QAM	50	0	16.91	17.08	17.01	16.70		
20	64QAM	50	24	16.86	16.66	16.87	16.66		
20	64QAM	50	50	16.69	16.61	16.64	16.77		
20	64QAM	100	0	16.64	16.76	16.64	16.68		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	16.93	17.08	16.99	16.74	18.5	0
15	QPSK	1	37	16.90	16.71	16.87	16.65		
15	QPSK	1	74	16.68	16.65	16.69	16.76		
15	QPSK	36	0	16.87	17.04	16.97	16.67		
15	QPSK	36	20	16.89	16.60	16.81	16.61	18.5	0
15	QPSK	36	39	16.66	16.56	16.62	16.69		
15	QPSK	75	0	16.90	17.04	16.94	16.64		
15	16QAM	1	0	16.89	17.05	16.94	16.70		
15	16QAM	1	37	16.85	16.66	16.80	16.61	18.5	0
15	16QAM	1	74	16.61	16.58	16.66	16.71		
15	16QAM	36	0	16.83	16.99	16.93	16.65		
15	16QAM	36	20	16.90	16.66	16.81	16.65		
15	16QAM	36	39	16.66	16.56	16.64	16.69	18.5	0
15	16QAM	75	0	16.90	16.99	16.94	16.69		
15	64QAM	1	0	16.93	17.08	16.92	16.66		
15	64QAM	1	37	16.89	16.91	16.82	16.62		
15	64QAM	1	74	16.84	16.89	16.61	16.69	18.5	0
15	64QAM	36	0	16.88	17.03	16.98	16.64		
15	64QAM	36	20	16.94	16.58	16.92	16.64		
15	64QAM	36	39	16.66	16.58	16.57	16.71		
15	64QAM	75	0	16.58	16.73	16.58	16.63		
Channel				55290	55815	56160	56690		
Frequency (MHz)				3525	3597.5	3642.5	3695		
10	QPSK	1	0	16.92	17.12	16.99	16.72	18.5	0
10	QPSK	1	23	16.91	16.70	16.88	16.68		
10	QPSK	1	49	16.68	16.64	16.70	16.75		
10	QPSK	25	0	16.87	17.04	16.98	16.62		
10	QPSK	25	12	16.89	16.65	16.82	16.64	18.5	0
10	QPSK	25	25	16.62	16.60	16.59	16.71		
10	QPSK	50	0	16.96	17.04	16.92	16.64		
10	16QAM	1	0	16.89	17.05	16.92	16.70		
10	16QAM	1	23	16.86	16.67	16.79	16.64	18.5	0
10	16QAM	1	49	16.65	16.57	16.66	16.72		
10	16QAM	25	0	16.87	17.03	16.95	16.68		
10	16QAM	25	12	16.89	16.63	16.80	16.62		
10	16QAM	25	25	16.62	16.58	16.62	16.74	18.5	0
10	16QAM	50	0	16.89	17.01	16.90	16.71		
10	64QAM	1	0	16.89	17.07	16.94	16.68		
10	64QAM	1	23	16.85	16.89	16.81	16.64		
10	64QAM	1	49	16.65	16.88	16.66	16.70	18.5	0
10	64QAM	25	0	16.88	17.03	16.95	16.65		
10	64QAM	25	12	16.84	16.61	16.79	16.60		
10	64QAM	25	25	16.61	16.55	16.57	16.73		
10	64QAM	50	0	16.58	16.68	16.62	16.64		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3522.5	3607	3643	3697.5		
5	QPSK	1	0	16.91	17.10	17.00	16.72	18.5	0
5	QPSK	1	12	16.92	16.67	16.88	16.65		
5	QPSK	1	24	16.69	16.63	16.65	16.73		
5	QPSK	12	0	16.90	17.05	16.94	16.63		
5	QPSK	12	7	16.90	16.63	16.83	16.62	18.5	0
5	QPSK	12	13	16.63	16.58	16.61	16.66		
5	QPSK	25	0	16.87	17.04	16.92	16.62		
5	16QAM	1	0	16.88	17.03	16.93	16.69		
5	16QAM	1	12	16.85	16.67	16.81	16.60	18.5	0
5	16QAM	1	24	16.62	16.53	16.66	16.69		
5	16QAM	12	0	16.86	17.04	16.92	16.65		
5	16QAM	12	7	16.90	16.63	16.82	16.61		
5	16QAM	12	13	16.62	16.60	16.65	16.73	18.5	0
5	16QAM	25	0	16.89	17.03	16.94	16.69		
5	64QAM	1	0	16.88	17.08	16.95	16.66		
5	64QAM	1	12	16.87	16.91	16.82	16.63		
5	64QAM	1	24	16.87	16.87	16.93	16.70	18.5	0
5	64QAM	12	0	16.84	17.02	16.94	16.66		
5	64QAM	12	7	16.86	16.64	16.82	16.60		
5	64QAM	12	13	16.61	16.58	16.61	16.71		
5	64QAM	25	0	16.61	16.73	16.57	16.63		



Band 4 Ant 0 NSA DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2050	2075	2050				
20	QPSK	1	0	14.52	14.60	14.47				
20	QPSK	1	49	14.46	14.56	14.51	16	0		
20	QPSK	1	99	14.35	14.54	14.38				
20	QPSK	50	0	14.52	14.55	14.46				
20	QPSK	50	24	14.45	14.50	14.50	16	0		
20	QPSK	50	50	14.42	14.52	14.42				
20	QPSK	100	0	14.50	14.58	14.41				
20	16QAM	1	0	14.51	14.56	14.52				
20	16QAM	1	49	14.42	14.53	14.34	16	0		
20	16QAM	1	99	14.52	14.53	14.43				
20	16QAM	50	0	14.54	14.49	14.47				
20	16QAM	50	24	14.35	14.49	14.34	16	0		
20	16QAM	50	50	14.58	14.57	14.47				
20	16QAM	100	0	14.52	14.51	14.45				
20	64QAM	1	0	14.39	14.47	14.39				
20	64QAM	1	49	14.55	14.59	14.41	16	0		
20	64QAM	1	99	14.49	14.58	14.44				
20	64QAM	50	0	14.35	14.50	14.41	16	0		
20	64QAM	50	24	14.49	14.59	14.41				
20	64QAM	50	50	14.50	14.55	14.52	16	0		
20	64QAM	100	0	14.39	14.54	14.42				
Channel										
Frequency (MHz)				2025	2075	2025	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	14.46	14.55	14.44				
15	QPSK	1	37	14.38	14.55	14.44	16	0		
15	QPSK	1	74	14.29	14.45	14.29				
15	QPSK	36	0	14.49	14.48	14.45				
15	QPSK	36	20	14.40	14.46	14.37	16	0		
15	QPSK	36	39	14.38	14.46	14.38				
15	QPSK	75	0	14.47	14.59	14.40				
15	16QAM	1	0	14.43	14.53	14.43				
15	16QAM	1	37	14.41	14.45	14.29	16	0		
15	16QAM	1	74	14.45	14.50	14.33				
15	16QAM	36	0	14.50	14.43	14.38				
15	16QAM	36	20	14.30	14.45	14.27	16	0		
15	16QAM	36	39	14.53	14.56	14.44				
15	16QAM	75	0	14.43	14.61	14.41				
15	16QAM	1	0	14.29	14.44	14.38				
15	64QAM	1	37	14.54	14.51	14.38	16	0		
15	64QAM	1	74	14.49	14.51	14.37				
15	64QAM	36	0	14.31	14.44	14.36				
15	64QAM	36	20	14.46	14.50	14.38	16	0		
15	64QAM	36	39	14.41	14.52	14.34				
15	64QAM	75	0	14.32	14.52	14.34				
Channel										
Frequency (MHz)				2000	2075	2050	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	14.44	14.50	14.44				
10	QPSK	1	25	14.42	14.56	14.51	16	0		
10	QPSK	1	49	14.29	14.52	14.38				
10	QPSK	25	0	14.48	14.47	14.45				
10	QPSK	25	12	14.35	14.49	14.35	16	0		
10	QPSK	25	25	14.37	14.44	14.37				
10	QPSK	50	0	14.49	14.56	14.39				
10	16QAM	1	0	14.51	14.53	14.46				
10	16QAM	1	25	14.38	14.44	14.32	16	0		
10	16QAM	1	49	14.43	14.53	14.42				
10	16QAM	25	0	14.47	14.47	14.38				
10	16QAM	25	12	14.29	14.44	14.25	16	0		
10	16QAM	25	25	14.51	14.56	14.39				
10	16QAM	50	0	14.44	14.43	14.40				
10	64QAM	1	0	14.38	14.41	14.37				
10	64QAM	1	25	14.53	14.49	14.39	16	0		
10	64QAM	1	49	14.42	14.56	14.41				
10	64QAM	25	0	14.25	14.45	14.33				
10	64QAM	25	12	14.46	14.57	14.34	16	0		
10	64QAM	25	25	14.40	14.55	14.43				
10	64QAM	50	0	14.37	14.47	14.41				
Channel										
Frequency (MHz)				1975	2075	2075	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	14.47	14.59	14.41				
5	QPSK	1	12	14.37	14.52	14.30	16	0		
5	QPSK	1	24	14.26	14.46	14.33				
5	QPSK	12	0	14.43	14.46	14.46				
5	QPSK	12	7	14.42	14.40	14.38	16	0		
5	QPSK	12	13	14.34	14.50	14.42				
5	QPSK	25	0	14.44	14.58	14.32				
5	16QAM	1	0	14.44	14.48	14.44				
5	16QAM	1	12	14.32	14.48	14.28	16	0		
5	16QAM	1	24	14.45	14.51	14.35				
5	16QAM	12	0	14.53	14.44	14.46				
5	16QAM	12	7	14.33	14.46	14.33	16	0		
5	16QAM	12	13	14.57	14.49	14.44				
5	16QAM	25	0	14.46	14.45	14.40				
5	64QAM	1	0	14.38	14.40	14.38				
5	64QAM	1	12	14.46	14.53	14.39	16	0		
5	64QAM	1	24	14.42	14.53	14.40				
5	64QAM	12	0	14.35	14.45	14.41				
5	64QAM	12	7	14.45	14.57	14.39	16	0		
5	64QAM	12	13	14.42	14.49	14.43				
5	64QAM	25	0	14.31	14.49	14.38				
Channel										
Frequency (MHz)				1995	2075	2085	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	14.46	14.54	14.45				
3	QPSK	1	8	14.40	14.54	14.51	16	0		
3	QPSK	1	14	14.34	14.53	14.37				
3	QPSK	8	0	14.50	14.52	14.40				
3	QPSK	8	4	14.42	14.48	14.43	16	0		
3	QPSK	8	7	14.37	14.45	14.36				
3	QPSK	15	0	14.49	14.56	14.33				
3	16QAM	1	0	14.42	14.56	14.47				
3	16QAM	1	8	14.40	14.47	14.25	16	0		
3	16QAM	1	14	14.45	14.47	14.38				
3	16QAM	8	0	14.51	14.40	14.42				
3	16QAM	8	4	14.30	14.48	14.29	16	0		
3	16QAM	8	7	14.54	14.57	14.40				
3	16QAM	15	0	14.49	14.46	14.37				
3	64QAM	1	0	14.33	14.45	14.33				
3	64QAM	1	8	14.48	14.56	14.34	16	0		
3	64QAM	1	14	14.42	14.57	14.37				
3	64QAM	8	0	14.27	14.49	14.34				
3	64QAM	8	4	14.45	14.54	14.35	16	0		
3	64QAM	8	7	14.49	14.54	14.49				
3	64QAM	15	0	14.33	14.51	14.37				
Channel										
Frequency (MHz)				1977	2075	2093	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	14.43	14.54	14.42				
1.4	QPSK	1	3	14.45	14.49	14.30	16	0		
1.4	QPSK	1	5	14.35	14.53	14.35				
1.4	QPSK	3	0	14.50	14.49	14.37				
1.4	QPSK	3	1	14.42	14.42	14.37				
1.4	QPSK	3	3	14.32	14.49	14.37	16	0		
1.4	QPSK	6	0	14.50	14.53	14.50				
1.4	16QAM	1	0	14.47	14.48	14.50				
1.4	16QAM	1	3	14.42	14.49	14.31	16	0		
1.4	16QAM	1	5	14.47	14.53	14.35				
1.4	16QAM	3	0	14.49	14.46	14.44				
1.4	16QAM	3	1	14.28	14.48	14.32	16	0		
1.4	16QAM	3	3	14.53	14.57	14.46				
1.4	16QAM	6	0	14.47	14.44	14.44				
1.4	64QAM	1	0	14.33	14.42	14.35	16	0		
1.4	64QAM	1	3	14.54	14.56	14.35				
1.4	64QAM	1	5	14.49	14.57	14.43				
1.4	64QAM	3	0	14.27	14.43	14.40	16	0		
1.4	64QAM	3	1	14.42	14.56	14.40</				



Band 7 Ant 1 NSA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2310	2335	2360			
20	QPSK	1	0	15.71	15.83	15.80			
20	QPSK	1	49	15.59	15.64	15.62	17	0	
20	QPSK	1	99	15.81	15.88	15.58			
20	QPSK	50	0	15.65	15.81	15.80			
20	QPSK	50	24	15.81	15.74	15.81	17	0	
20	QPSK	50	50	15.83	15.68	15.80			
20	QPSK	100	0	15.68	15.80	15.72			
20	16QAM	1	0	15.82	15.83	15.88			
20	16QAM	1	49	15.56	15.73	15.83	17	0	
20	16QAM	1	99	15.73	15.82	15.74			
20	16QAM	50	0	15.55	15.82	15.83			
20	16QAM	50	24	15.58	15.69	15.58	17	0	
20	16QAM	50	50	15.83	15.76	15.73			
20	16QAM	100	0	15.65	15.67	15.64			
20	64QAM	1	0	15.82	15.66	15.58			
20	64QAM	1	49	15.64	15.79	15.73	17	0	
20	64QAM	1	99	15.57	15.67	15.63			
20	64QAM	50	0	15.07	15.69	15.68			
20	64QAM	50	24	15.83	15.70	15.78	17	0	
20	64QAM	50	50	15.68	15.68	15.64			
20	64QAM	100	0	15.65	15.75	15.64			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	15.70	15.74	15.71	17	0	
15	QPSK	1	37	15.37	15.37	15.35			
15	QPSK	1	74	15.58	15.64	15.56			
15	QPSK	36	0	15.56	15.77	15.77			
15	QPSK	36	20	15.54	15.60	15.59	17	0	
15	QPSK	36	39	15.53	15.65	15.53			
15	QPSK	75	0	15.60	15.79	15.65			
15	16QAM	1	0	15.81	15.84	15.85	17	0	
15	16QAM	1	37	15.53	15.70	15.82			
15	16QAM	1	74	15.68	15.72	15.71			
15	16QAM	36	0	15.45	15.80	15.80			
15	16QAM	36	20	15.52	15.65	15.53	17	0	
15	16QAM	36	39	15.56	15.78	15.64			
15	16QAM	75	0	15.52	15.56	15.60			
15	64QAM	1	0	15.60	15.82	15.84	17	0	
15	64QAM	1	37	15.59	15.64	15.82			
15	64QAM	1	74	15.49	15.56	15.57			
15	64QAM	36	0	15.48	15.88	15.56			
15	64QAM	36	20	15.60	15.82	15.72	17	0	
15	64QAM	36	39	15.36	15.66	15.83			
15	64QAM	75	0	15.64	15.65	15.60			
Channel				20500	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	15.68	15.76	15.72	17	0	
10	QPSK	1	25	15.55	15.60	15.52			
10	QPSK	1	49	15.52	15.65	15.51			
10	QPSK	25	0	15.61	15.74	15.71	17	0	
10	QPSK	25	12	15.51	15.81	15.59			
10	QPSK	25	25	15.58	15.83	15.55			
10	QPSK	50	0	15.60	15.77	15.63			
10	16QAM	1	0	15.52	15.81	15.83	17	0	
10	16QAM	1	25	15.47	15.71	15.54			
10	16QAM	1	49	15.65	15.75	15.68			
10	16QAM	25	0	15.51	15.84	15.84	17	0	
10	16QAM	25	12	15.49	15.81	15.52			
10	16QAM	25	25	15.58	15.80	15.67			
10	16QAM	50	0	15.46	15.57	15.54			
10	64QAM	1	0	15.53	15.84	15.84	17	0	
10	64QAM	1	25	15.62	15.81	15.69			
10	64QAM	1	49	15.53	15.87	15.80			
10	64QAM	25	0	15.52	15.81	15.55	17	0	
10	64QAM	25	12	15.54	15.75	15.70			
10	64QAM	25	25	15.50	15.84	15.56			
10	64QAM	50	0	15.64	15.88	15.80			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	15.65	15.77	15.77	17	0	
5	QPSK	1	12	15.53	15.82	15.84			
5	QPSK	1	24	15.59	15.82	15.48			
5	QPSK	12	0	15.60	15.74	15.75	17	0	
5	QPSK	12	7	15.52	15.83	15.60			
5	QPSK	12	13	15.59	15.81	15.57			
5	QPSK	25	0	15.66	15.78	15.66	17	0	
5	16QAM	1	0	15.87	15.81	15.86			
5	16QAM	1	12	15.49	15.83	15.58	17	0	
5	16QAM	1	24	15.71	15.71	15.70			
5	16QAM	12	0	15.44	15.58	15.57			
5	16QAM	12	7	15.54	15.84	15.54	17	0	
5	16QAM	12	13	15.60	15.79	15.71			
5	16QAM	25	0	15.48	15.80	15.83			
5	64QAM	1	0	15.80	15.84	15.49	17	0	
5	64QAM	1	12	15.62	15.79	15.88			
5	64QAM	1	24	15.54	15.56	15.59			
5	64QAM	12	0	15.49	15.82	15.80			
5	64QAM	12	7	15.60	15.80	15.73	17	0	
5	64QAM	12	13	15.57	15.59	15.82			
5	64QAM	25	0	15.82	15.84	15.59			

Band 30 Ant 1 NSA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
10	QPSK	1	0	17.20	17.16	17.19	18.5	0	
10	QPSK	1	25		17.08				
10	QPSK	1	49		17.11				
10	QPSK	25	0		17.22				
10	QPSK	25	12		17.11				
10	QPSK	25	25		17.19				
10	QPSK	50	0		17.23				
10	16QAM	1	0		17.14				
10	16QAM	1	25		17.19				
10	16QAM	1	49		17.29				
10	16QAM	25	0		17.12				
10	16QAM	25	12		17.19				
10	16QAM	25	25		17.28				
10	16QAM	50	0		17.09				
10	64QAM	1	0		17.22				
10	64QAM	1	25		17.25				
10	64QAM	1	49		17.11				
10	64QAM	25	0		17.09				
10	64QAM	25	12		17.29				
10	64QAM	25	25		17.13				
10	64QAM	50	0		17.11				
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	17.20	17.16	17.19	18.5	0	
5	QPSK	1	12	17.09	16.92	17.01			
5	QPSK	1	24	17.02	17.06	17.05			
5	QPSK	12	0	17.17	17.20	17.18			
5	QPSK	12	7	16.99	16.92	17.01	18.5	0	
5	QPSK	12	13	17.09	17.03	16.98			
5	QPSK	25	0	17.19	17.17	17.27			
5	16QAM	1	0	17.03	17.01	16.96	18.5	0	
5	16QAM	1	12	17.05	17.12	17.11			
5	16QAM	1	24	17.17	17.08	17.20			
5	16QAM	12	0	17.06	16.84	17.05			
5	16QAM	12	7	17.00	17.11	17.11	18.5	0	
5	16QAM	12	13	17.20	17.09	17.22			
5	16QAM	25	0	17.04	16.99	17.07			
5	64QAM	1	0	17.07	17.04	17.04	18.5	0	
5	64QAM	1	12	17.12	17.19	17.24			
5	64QAM	1	24	17.02	17.06	17.00			
5	64QAM	12	0	17.05	17.13	17.12			
5	64QAM	12	7	17.25	17.18	17.21	18.5	0	
5	64QAM	12	13	16.96	17.04	16.95			
5	64QAM	25	0	17.08	17.15	17.08			



Band 2 Ant 4 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1890	1890	1900		
20	QPSK	1	0	15.98	16.14	16.11		
20	QPSK	1	49	15.88	15.93	15.85	17	0
20	QPSK	1	99	15.86	15.85	15.84		
20	QPSK	50	0	15.89	16.10	15.96		
20	QPSK	50	24	15.90	16.01	15.93	17	0
20	QPSK	50	50	15.78	15.93	15.73		
20	QPSK	100	0	15.98	16.10	15.98		
20	16QAM	1	0	15.81	15.99	15.79		
20	16QAM	1	49	15.76	15.90	15.80	17	0
20	16QAM	1	99	15.98	16.10	16.01		
20	16QAM	50	0	15.83	15.96	15.78		
20	16QAM	50	24	15.75	15.91	15.83	17	0
20	16QAM	50	50	15.99	16.10	16.03		
20	16QAM	100	0	15.75	15.93	15.77		
20	64QAM	1	0	15.75	15.89	15.75		
20	64QAM	1	49	15.95	16.12	15.95	17	0
20	64QAM	1	99	15.77	15.99	15.80		
20	64QAM	25	0	15.75	15.90	15.77		
20	64QAM	50	24	15.83	16.11	15.85	17	0
20	64QAM	50	50	15.76	15.99	15.80		
20	64QAM	100	0	15.83	15.89	15.75		
Channel								
Frequency (MHz)				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	15.83	16.09	15.92		
15	QPSK	1	37	15.74	15.87	15.68	17	0
15	QPSK	1	74	15.78	15.84	15.73		
15	QPSK	36	0	15.88	16.08	15.93		
15	QPSK	36	20	15.74	15.98	15.76	17	0
15	QPSK	36	39	15.77	15.84	15.64		
15	QPSK	75	0	15.97	16.09	15.95		
15	16QAM	1	0	15.78	15.99	15.71		
15	16QAM	1	37	15.68	15.86	15.75	17	0
15	16QAM	1	74	15.91	16.08	15.99		
15	16QAM	36	0	15.73	15.87	15.76		
15	16QAM	36	20	15.70	15.89	15.82	17	0
15	16QAM	36	39	15.94	16.09	15.97		
15	16QAM	75	0	15.73	15.88	15.75		
15	16QAM	1	0	15.85	15.81	15.68		
15	64QAM	1	37	15.92	16.06	15.87	17	0
15	64QAM	1	74	15.69	15.83	15.74		
15	64QAM	36	0	15.69	15.80	15.70		
15	64QAM	36	20	15.93	16.08	15.87	17	0
15	64QAM	36	39	15.68	15.83	15.76		
15	64QAM	75	0	15.75	15.84	15.73		
Channel								
Frequency (MHz)				18950	18990	19150	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	15.83	16.07	15.93		
10	QPSK	1	25	15.71	15.86	15.66	17	0
10	QPSK	1	49	15.72	15.76	15.71		
10	QPSK	25	0	15.89	16.07	15.89		
10	QPSK	25	12	15.79	15.93	15.77	17	0
10	QPSK	25	25	15.77	15.93	15.66		
10	QPSK	50	0	15.97	16.07	15.94		
10	16QAM	1	0	15.80	15.98	15.72		
10	16QAM	1	25	15.76	15.83	15.78	17	0
10	16QAM	1	49	15.94	16.06	16.00		
10	16QAM	25	0	15.78	15.88	15.73		
10	16QAM	25	12	15.74	15.83	15.74	17	0
10	16QAM	25	25	15.93	16.08	15.93		
10	16QAM	50	0	15.70	15.84	15.68		
10	64QAM	1	0	15.67	15.80	15.68		
10	64QAM	1	25	15.93	16.02	15.94	17	0
10	64QAM	1	49	15.69	15.86	15.77		
10	64QAM	25	0	15.70	15.85	15.70		
10	64QAM	25	12	15.90	16.12	15.87	17	0
10	64QAM	25	25	15.74	15.89	15.71		
10	64QAM	50	0	15.81	15.83	15.73		
Channel								
Frequency (MHz)				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	15.80	16.08	15.99		
5	QPSK	1	12	15.69	15.87	15.68	17	0
5	QPSK	1	24	15.76	15.84	15.72		
5	QPSK	12	0	15.87	16.03	15.87		
5	QPSK	12	7	15.75	15.87	15.75	17	0
5	QPSK	12	13	15.76	15.87	15.64		
5	QPSK	25	0	15.98	16.04	15.94		
5	16QAM	1	0	15.77	15.97	15.77		
5	16QAM	1	12	15.69	15.82	15.73	17	0
5	16QAM	1	24	15.90	16.03	15.99		
5	16QAM	12	0	15.79	15.94	15.76		
5	16QAM	12	7	15.74	15.89	15.74	17	0
5	16QAM	12	13	15.96	16.07	16.01		
5	16QAM	25	0	15.70	15.85	15.68		
5	64QAM	1	0	15.65	15.70	15.70		
5	64QAM	1	12	15.90	16.10	15.87	17	0
5	64QAM	1	24	15.74	15.90	15.72		
5	64QAM	12	0	15.70	15.83	15.70		
5	64QAM	12	7	15.85	16.07	15.87	17	0
5	64QAM	12	13	15.68	15.85	15.74		
5	64QAM	25	0	15.81	15.88	15.65		
Channel								
Frequency (MHz)				18915	18990	19185	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	15.80	16.05	15.92		
3	QPSK	1	8	15.71	15.92	15.74	17	0
3	QPSK	1	14	15.76	15.84	15.68		
3	QPSK	8	0	15.83	16.08	15.87		
3	QPSK	8	4	15.73	15.85	15.62	17	0
3	QPSK	8	7	15.72	15.85	15.71		
3	QPSK	15	0	15.91	16.06	15.95		
3	16QAM	1	0	15.79	15.91	15.72		
3	16QAM	1	8	15.66	15.88	15.70	17	0
3	16QAM	1	14	15.94	16.05	15.93		
3	16QAM	8	0	15.78	15.92	15.78		
3	16QAM	8	4	15.69	15.85	15.77	17	0
3	16QAM	8	7	15.97	16.00	16.02		
3	16QAM	15	0	15.67	15.93	15.71		
3	64QAM	1	0	15.66	15.81	15.74		
3	64QAM	1	8	15.91	16.03	15.87	17	0
3	64QAM	1	14	15.74	15.90	15.78		
3	64QAM	8	0	15.74	15.81	15.73		
3	64QAM	8	4	15.91	16.07	15.93	17	0
3	64QAM	8	7	15.73	15.99	15.76		
3	64QAM	15	0	15.75	15.87	15.74		
Channel								
Frequency (MHz)				18907	18990	19193	Tune-up limit (dBm)	MPR (dB)
1.4	QPSK	1	0	15.87	16.08	15.95		
1.4	QPSK	1	3	15.77	15.89	15.68	17	0
1.4	QPSK	1	5	15.78	15.81	15.66		
1.4	QPSK	3	0	15.87	16.03	15.81		
1.4	QPSK	3	1	15.80	16.00	15.74		
1.4	QPSK	3	3	15.77	15.84	15.64	17	0
1.4	QPSK	6	0	15.89	16.09	15.90		
1.4	16QAM	1	0	15.74	15.90	15.78		
1.4	16QAM	1	3	15.69	15.87	15.74	17	0
1.4	16QAM	1	5	15.91	16.05	15.94		
1.4	16QAM	3	0	15.77	15.89	15.71		
1.4	16QAM	3	1	15.67	15.81	15.77		
1.4	16QAM	3	3	15.98	16.01	16.02	17	0
1.4	16QAM	6	0	15.71	15.85	15.78		
1.4	64QAM	1	0	15.73	15.87	15.74		
1.4	64QAM	1	3	15.86	16.07	15.95	17	0
1.4	64QAM	1	5	15.71	15.94	15.73		
1.4	64QAM	3	0	15.69	15.81	15.75		
1.4	64QAM	3	1	15.86	16.10	15.85	17	0
1.4	64QAM	3	3	15.71	15.88	15.72		
1.4	64QAM	6	0	15.74	15.80	15.66	17	0

Band 4 Ant 4 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2050	2050	2050		
20	QPSK	1	0	18.38	18.48	18.29		
20	QPSK	1	49	18.27	18.21	18.20	19.5	0
20	QPSK	1	99	18.31	18.35	18.34		
20	QPSK	50	0	18.30	18.45	18.19		
20	QPSK	50	24	18.09	18.30	18.02	19.5	0
20	QPSK	50	50	18.14	18.27	17.98		
20	QPSK	100	0	18.30	18.47	18.14		
20	16QAM	1	0	18.07	18.30	18.01		
20	16QAM	1	49	18.16	18.32	17.93	19.5	0
20	16QAM	1	99	18.28</				



Band 7 ENDC Ant 4 NSA DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.20	15.44	15.13	16.5	0		
20	QPSK	1	49	15.08	15.31	15.04				
20	QPSK	1	99	15.12	15.29	15.02				
20	QPSK	50	0	15.23	15.42	15.08	16.5	0		
20	QPSK	50	24	15.06	15.30	15.06				
20	QPSK	50	50	15.13	15.24	15.07				
20	QPSK	100	0	15.22	15.25	15.10	16.5	0		
20	16QAM	1	0	15.05	15.36	15.02				
20	16QAM	1	49	15.12	15.31	15.04				
20	16QAM	1	99	15.18	15.29	15.09	16.5	0		
20	16QAM	50	0	15.12	15.34	15.06				
20	16QAM	50	24	15.08	15.31	15.03				
20	16QAM	50	50	15.30	15.31	15.08	16.5	0		
20	16QAM	100	0	15.09	15.37	15.07				
20	16QAM	1	0	15.10	15.28	15.07				
20	16QAM	1	49	15.26	15.41	15.11	16.5	0		
20	16QAM	1	99	15.10	15.31	15.08				
20	16QAM	50	0	15.06	15.29	15.04				
20	16QAM	50	24	15.25	15.38	15.13	16.5	0		
20	16QAM	50	50	15.09	15.37	15.09				
20	16QAM	100	0	15.12	15.25	15.07				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.17	15.41	15.11	16.5	0		
15	QPSK	1	37	15.05	15.29	15.04				
15	QPSK	1	74	15.08	15.25	15.02				
15	QPSK	36	0	15.19	15.41	15.07	16.5	0		
15	QPSK	36	20	15.05	15.26	15.01				
15	QPSK	36	39	15.11	15.19	15.08				
15	QPSK	75	0	15.23	15.25	15.14	16.5	0		
15	16QAM	1	0	15.01	15.32	15.01				
15	16QAM	1	37	15.07	15.28	15.04				
15	16QAM	1	74	15.26	15.29	15.09	16.5	0		
15	16QAM	36	0	15.09	15.33	15.01				
15	16QAM	36	20	15.06	15.29	15.04				
15	16QAM	36	39	15.27	15.41	15.09	16.5	0		
15	16QAM	75	0	15.08	15.36	15.07				
15	16QAM	1	0	15.07	15.25	15.07				
15	16QAM	1	37	15.24	15.39	15.11	16.5	0		
15	16QAM	1	74	15.08	15.28	15.10				
15	16QAM	36	0	15.01	15.26	15.03				
15	16QAM	36	20	15.27	15.36	15.14	16.5	0		
15	16QAM	36	39	15.05	15.33	15.00				
15	16QAM	75	0	15.09	15.22	15.06				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.19	15.39	15.12	16.5	0		
10	QPSK	1	25	15.03	15.29	15.04				
10	QPSK	1	49	15.09	15.28	15.02				
10	QPSK	25	0	15.18	15.39	15.08	16.5	0		
10	QPSK	25	12	15.06	15.27	15.01				
10	QPSK	25	25	15.08	15.21	15.10				
10	QPSK	50	0	15.21	15.20	15.14	16.5	0		
10	16QAM	1	0	15.03	15.33	15.01				
10	16QAM	1	25	15.09	15.29	15.03				
10	16QAM	1	49	15.24	15.23	15.10	16.5	0		
10	16QAM	25	0	15.09	15.30	15.06				
10	16QAM	25	12	15.06	15.29	15.02				
10	16QAM	25	25	15.27	15.41	15.08	16.5	0		
10	16QAM	50	0	15.05	15.36	15.06				
10	16QAM	1	0	15.09	15.25	15.06				
10	16QAM	1	25	15.25	15.38	15.09	16.5	0		
10	16QAM	1	49	15.24	15.39	15.10				
10	16QAM	25	0	15.02	15.27	15.04				
10	16QAM	25	12	15.26	15.34	15.13	16.5	0		
10	16QAM	25	25	15.05	15.35	15.08				
10	16QAM	50	0	15.10	15.21	15.00				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.17	15.42	15.12	16.5	0		
5	QPSK	1	12	15.05	15.28	15.05				
5	QPSK	1	24	15.10	15.27	15.02				
5	QPSK	12	0	15.22	15.40	15.07	16.5	0		
5	QPSK	12	7	15.06	15.27	15.01				
5	QPSK	12	13	15.11	15.19	15.08				
5	QPSK	25	0	15.21	15.21	15.13	16.5	0		
5	16QAM	1	0	15.02	15.32	15.00				
5	16QAM	1	12	15.07	15.29	15.03				
5	16QAM	1	24	15.24	15.24	15.09	16.5	0		
5	16QAM	12	0	15.09	15.32	15.00				
5	16QAM	12	7	15.03	15.29	15.02				
5	16QAM	12	13	15.28	15.42	15.08	16.5	0		
5	16QAM	25	0	15.07	15.34	15.07				
5	16QAM	1	0	15.07	15.24	15.07				
5	16QAM	1	12	15.24	15.39	15.11	16.5	0		
5	16QAM	1	24	15.08	15.28	15.10				
5	16QAM	12	0	15.01	15.26	15.03				
5	16QAM	12	7	15.28	15.35	15.15	16.5	0		
5	16QAM	12	13	15.05	15.32	15.19				
5	16QAM	25	0	15.11	15.21	15.07				

Band 25 Ant 4 NSA DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.74	15.78	15.70	17	0		
20	QPSK	1	49	15.60	15.64	15.55				
20	QPSK	1	99	15.53	15.61	15.50				
20	QPSK	50	0	15.72	15.77	15.70	17	0		
20	QPSK	50	24	15.60	15.67	15.61				
20	QPSK	50	50	15.57	15.65	15.55				
20	QPSK	100	0	15.74	15.77	15.71	17	0		
20	16QAM	1	0	15.64	15.67	15.51				
20	16QAM	1	49	15.54	15.60	15.54				
20	16QAM	1	99	15.69	15.75	15.70	17	0		
20	16QAM	50	0	15.61	15.65	15.59				
20	16QAM	50	24	15.55	15.60	15.51				
20	16QAM	50	50	15.74	15.77	15.69	17	0		
20	16QAM	100	0	15.55	15.66	15.52				
20	16QAM	1	0	15.54	15.59	15.51				
20	16QAM	1	49	15.70	15.74	15.71	17	0		
20	16QAM	1	99	15.62	15.62	15.51				
20	16QAM	50	0	15.51	15.54	15.55				
20	16QAM	50	24	15.77	15.76	15.69	17	0		
20	16QAM	50	50	15.60	15.63	15.53				
20	16QAM	100	0	15.59	15.60	15.58				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.60	15.70	15.63	17	0		
15	QPSK	1	37	15.50	15.54	15.51				
15	QPSK	1	74	15.59	15.60	15.53				
15	QPSK	36	0	15.57	15.63	15.52	17	0		
15	QPSK	36	20	15.60	15.60	15.52				
15	QPSK	36	39	15.52	15.59	15.57				
15	QPSK	75	0	15.62	15.67	15.62	17	0		
15	16QAM	1	0	15.50	15.63	15.53				
15	16QAM	1	37	15.57	15.63	15.51				
15	16QAM	1	74	15.52	15.59	15.54	17	0		
15	16QAM	36	0	15.59	15.63	15.52				
15	16QAM	36	20	15.52	15.60	15.55				
15	16QAM	36	39	15.61	15.65	15.56	17	0		
15	16QAM	75	0	15.57	15.62	15.54				
15	16QAM	1	0	15.58	15.64	15.54				
15	16QAM	1	37	15.53	15.59	15.55	17	0		
15	16QAM	1	74	15.59	15.64	15.53				
15	16QAM	36	0	15.51	15.57	15.54				
15	16QAM	36	20	15.50	15.60	15.50	17	0		
15	16QAM	36	39	15.56	15.62	15.54				
15	16QAM	75	0	15.60	15.67	15.54				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.72	15.66	15.72	17	0		
10	QPSK	1	25	15.57	15.63	15.52				
10	QPSK	1	49	15.51	15.60	15.52				
10	QPSK	25	0	15.56	15.61	15.55	17	0		
10	QPSK	25	12	15.51	15.60	15.52				
10	QPSK	25	25	15.58	15.61	15.55				
10	QPSK	50	0	15.69	15.72	15.58	17	0		
10	16QAM	1	0	15.50	15.70	15.54				
10	16QAM	1	25	15.58	15.60	15.54				
10	16QAM	1	49	15.51	15.59	15.55	17	0		
10	16QAM	25	0	15.56	15.61	15.53				
10	16QAM	25	12	15.53	15.60	15.53				
10	16QAM	25	25	15.62	15.67	15.66	17	0		
10	16QAM	50	0	15.59	15.64	15.53				
10	16QAM	1	0</							



Band 30 ENDC Ant 4 NSA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0	14.04	14.09	14.37	16	0	
10	QPSK	1	25	14.12					
10	QPSK	1	49	14.26					
10	QPSK	25	0	14.05			16	0	
10	QPSK	25	12	14.02					
10	QPSK	25	25	14.01					
10	QPSK	50	0	14.10			16	0	
10	16QAM	1	0	14.30					
10	16QAM	1	25	14.29					
10	16QAM	1	49	14.20			16	0	
10	16QAM	25	0	14.15					
10	16QAM	25	12	14.13					
10	16QAM	25	25	14.16			16	0	
10	16QAM	50	0	14.05					
10	64QAM	1	0	14.10					
10	64QAM	1	25	14.29			16	0	
10	64QAM	1	49	14.35					
10	64QAM	25	0	14.02					
10	64QAM	25	12	14.16			16	0	
10	64QAM	25	25	14.22					
10	64QAM	50	0	14.09					
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	14.04	14.09	14.02	16	0	
5	QPSK	1	12	14.03	14.05	14.10			
5	QPSK	1	24	14.06	14.07	14.07			
5	QPSK	12	0	14.07	14.08	14.02	16	0	
5	QPSK	12	7	14.02	14.07	14.07			
5	QPSK	12	13	14.03	14.03	14.05			
5	QPSK	25	0	14.10	14.11	14.04	16	0	
5	16QAM	1	0	14.04	14.02	14.12			
5	16QAM	1	12	14.12	14.03	14.06			
5	16QAM	1	24	14.02	14.05	14.04	16	0	
5	16QAM	12	0	14.04	14.04	14.16			
5	16QAM	12	7	14.12	14.06	14.10			
5	16QAM	12	13	14.11	14.08	14.01	16	0	
5	16QAM	25	0	14.07	14.06	14.06			
5	64QAM	1	0	14.05	14.04	14.09			
5	64QAM	1	12	14.04	14.07	14.03	16	0	
5	64QAM	1	24	14.05	14.04	14.11			
5	64QAM	12	0	14.05	14.02	14.12			
5	64QAM	12	7	14.02	14.03	14.10	16	0	
5	64QAM	12	13	14.04	14.04	14.09			
5	64QAM	25	0	14.09	14.06	14.07			

Band 66 NSA Ant 4 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072		132322		132572	
Frequency (MHz)				1720		1745		1770	
20	QPSK	1	0	18.23	18.26	18.05	19.5	0	
20	QPSK	1	49	18.19	18.14	18.12			
20	QPSK	1	99	18.06	18.18	18.16			
20	QPSK	50	0	18.25	18.27	18.06	19.5	0	
20	QPSK	50	24	18.19	18.14	18.09			
20	QPSK	50	50	18.06	18.15	18.14			
20	QPSK	100	0	18.19	18.25	18.13	19.5	0	
20	16QAM	1	0	18.17	18.15	18.13			
20	16QAM	1	49	18.06	18.19	18.15			
20	16QAM	1	99	18.17	18.22	18.11	19.5	0	
20	16QAM	50	0	18.16	18.14	18.11			
20	16QAM	50	24	18.05	18.16	18.13			
20	16QAM	50	50	18.17	18.20	18.08	19.5	0	
20	16QAM	100	0	18.18	18.15	18.10			
20	64QAM	1	0	18.05	18.16	18.14			
20	64QAM	1	49	18.19	18.13	18.10	19.5	0	
20	64QAM	1	99	18.06	18.18	18.15			
20	64QAM	50	0	18.11	18.07	18.06			
20	64QAM	50	24	18.22	18.26	18.08	19.5	0	
20	64QAM	50	50	18.17	18.14	18.11			
20	64QAM	100	0	18.03	18.17	18.15			
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
15	QPSK	1	0	18.11	18.15	18.09	19.5	0	
15	QPSK	1	37	18.06	18.17	18.16			
15	QPSK	1	74	18.13	18.11	18.11			
15	QPSK	36	0	18.08	18.19	18.15	19.5	0	
15	QPSK	36	20	18.12	18.12	18.09			
15	QPSK	36	39	18.03	18.18	18.14			
15	QPSK	75	0	18.13	18.20	18.12	19.5	0	
15	16QAM	1	0	18.13	18.12	18.13			
15	16QAM	1	37	18.05	18.17	18.14			
15	16QAM	1	74	18.18	18.21	18.05	19.5	0	
15	16QAM	36	0	18.13	18.15	18.10			
15	16QAM	36	20	18.03	18.18	18.16			
15	16QAM	36	39	18.15	18.22	18.01	19.5	0	
15	16QAM	75	0	18.12	18.12	18.11			
15	64QAM	1	1	18.04	18.17	18.17			
15	64QAM	1	37	18.07	18.16	18.07	19.5	0	
15	64QAM	1	74	18.13	18.14	18.13			
15	64QAM	36	0	18.04	18.15	18.14			
15	64QAM	36	20	18.16	18.26	18.10	19.5	0	
15	64QAM	36	39	18.11	18.12	18.13			
15	64QAM	75	0	18.04	18.16	18.17			
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
10	QPSK	1	0	18.18	18.26	18.06	19.5	0	
10	QPSK	1	25	18.10	18.15	18.10			
10	QPSK	1	49	18.05	18.17	18.17			
10	QPSK	25	0	18.18	18.26	18.01	19.5	0	
10	QPSK	25	12	18.12	18.15	18.12			
10	QPSK	25	25	18.05	18.19	18.15			
10	QPSK	50	0	18.19	18.26	18.07	19.5	0	
10	16QAM	1	0	18.12	18.13	18.09			
10	16QAM	1	25	18.03	18.17	18.14			
10	16QAM	1	49	18.16	18.19	18.07	19.5	0	
10	16QAM	25	0	18.12	18.13	18.12			
10	16QAM	25	12	18.04	18.18	18.15			
10	16QAM	25	25	18.13	18.18	18.01	19.5	0	
10	16QAM	50	0	18.12	18.13	18.11			
10	64QAM	1	0	18.06	18.18	18.15			
10	64QAM	1	25	18.11	18.21	18.08	19.5	0	
10	64QAM	1	49	18.13	18.12	18.10			
10	64QAM	25	0	18.03	18.16	18.16			
10	64QAM	25	12	18.17	18.23	18.02	19.5	0	
10	64QAM	25	25	18.10	18.15	18.11			
10	64QAM	50	0	18.06	18.17	18.16			
Channel				131987		132322		132647	
Frequency (MHz)				1712.5		1745		1777.5	
5	QPSK	1	0	18.24	18.22	18.20	19.5	0	
5	QPSK	1	12	18.14	18.13	18.09			
5	QPSK	1	24	18.05	18.18	18.16			
5	QPSK	12	0	18.21	18.23	18.01	19.5	0	
5	QPSK	12	7	18.11	18.14	18.12			
5	QPSK	12	13	18.06	18.16	18.15			
5	QPSK	25	0	18.18	18.27	18.12	19.5	0	
5	16QAM	1	0	18.14	18.11	18.11			
5	16QAM	1	12	18.06	18.19	18.16			
5	16QAM	1	24	18.17	18.21	18.12	19.5	0	
5	16QAM	12	0	18.12	18.11	18.11			
5	16QAM	12	7	18.03	18.18	18.16			
5	16QAM	12	13	18.18	18.22	18.05	19.5	0	
5	16QAM	25	0	18.11	18.13	18.13			
5	64QAM	1	0	18.05	18.17	18.16			
5	64QAM	1	12	18.11	18.22	18.05	19.5	0	
5	64QAM	1	24	18.10	18.14	18.11			
5	64QAM	12	0	18.04	18.16	18.13			
5	64QAM	12	7	18.22	18.25	18.09	19.5	0	
5	64QAM	12	13	18.14	18.12	18.12			
5	64QAM	25	0	18.06	18.16	18.15			
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
3	QPSK	1	0	18.18	18.23	18.05	19.5	0	
3	QPSK	1	8	18.10	18.12	18.12			
3	QPSK	1	14	18.05	18.16	18.14			
3	QPSK	8	0	18.24	18.25	18.04	19.5	0	
3	QPSK	8	4	18.11	18.13	18.09			
3	QPSK	8	7	18.05	18.17	18.16			
3	QPSK	15	0	18.13	18.19	18.16	19.5	0	
3	16QAM	1	0	18.12	18.15	18.13			
3	16QAM	1	8	18.06	18.16	18.14			
3	16QAM	1	14	18.10	18.12	18.12	19.5	0	
3	16QAM	8	0	18.11	18.14	18.12			
3	16QAM	8	4	18.05	18.15	18.14			
3	16QAM	8	7	18.20	18.17	18.08	19.5	0	
3	16QAM	15</							



Band 48 Ant 5 NSA DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	13.03	13.21	12.99	12.86	14.5	0
20	QPSK	1	49	12.95	12.76	12.93	12.79		
20	QPSK	1	99	12.76	12.72	12.88	12.90		
20	QPSK	50	0	13.00	13.16	12.98	12.83		
20	QPSK	50	24	12.96	12.73	12.96	12.75		
20	QPSK	50	50	12.80	12.72	12.71	12.76		
20	QPSK	100	0	13.02	13.16	12.96	12.84		
20	16QAM	1	0	12.99	13.17	13.04	12.79		
20	16QAM	1	49	12.95	12.70	12.96	12.75		
20	16QAM	1	99	12.73	12.67	12.72	12.70		
20	16QAM	50	0	13.04	13.16	12.97	12.83	14.5	0
20	16QAM	50	24	12.98	12.73	12.99	12.74		
20	16QAM	50	50	12.79	12.75	12.71	12.71		
20	16QAM	100	0	13.03	13.11	13.01	12.78		
20	64QAM	1	0	12.96	13.16	13.02	12.76		
20	64QAM	1	49	12.94	12.71	12.99	12.70		
20	64QAM	1	99	12.76	12.75	12.72	12.78		
20	64QAM	50	0	12.99	13.20	12.97	12.82		
20	64QAM	50	24	12.95	12.71	12.94	12.85		
20	64QAM	50	50	12.81	12.72	12.87	12.74		
20	64QAM	100	0	12.97	13.15	13.02	12.77		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	12.99	13.16	12.95	12.82	14.5	0
15	QPSK	1	37	12.91	12.69	12.90	12.66		
15	QPSK	1	74	12.70	12.68	12.89	12.74		
15	QPSK	36	0	12.95	13.10	12.92	12.79		
15	QPSK	36	20	12.91	12.67	12.89	12.71		
15	QPSK	36	39	12.76	12.69	12.65	12.69		
15	QPSK	75	0	12.99	13.10	12.90	12.78		
15	16QAM	1	0	12.92	13.11	12.98	12.75		
15	16QAM	1	37	12.91	12.67	12.90	12.70		
15	16QAM	1	74	12.69	12.63	12.66	12.64		
15	16QAM	36	0	12.99	13.11	12.93	12.78	14.5	0
15	16QAM	36	20	12.95	12.67	12.95	12.68		
15	16QAM	36	39	12.74	12.71	12.68	12.66		
15	16QAM	75	0	12.96	13.15	12.96	12.73		
15	64QAM	1	0	12.92	13.12	12.98	12.73		
15	64QAM	1	37	12.88	12.65	12.93	12.66		
15	64QAM	1	74	12.71	12.69	12.68	12.72		
15	64QAM	36	0	12.94	13.14	12.90	12.78		
15	64QAM	36	20	12.90	12.67	12.87	12.69		
15	64QAM	36	39	12.75	12.66	12.73	12.68		
15	64QAM	75	0	12.91	13.10	12.98	12.74		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	12.88	13.11	12.88	12.80	14.5	0
10	QPSK	1	26	12.89	12.79	12.80	12.66		
10	QPSK	1	49	12.88	12.89	12.78	12.71		
10	QPSK	25	0	12.94	13.06	12.85	12.74		
10	QPSK	25	12	12.87	12.61	12.84	12.65		
10	QPSK	25	25	12.70	12.62	12.65	12.62		
10	QPSK	50	0	12.92	13.07	12.93	12.69		
10	16QAM	1	0	12.94	13.07	12.92	12.71		
10	16QAM	1	26	12.81	12.61	12.86	12.60		
10	16QAM	1	49	12.64	12.60	12.67	12.60		
10	16QAM	25	0	12.97	13.10	12.84	12.77	14.5	0
10	16QAM	25	12	12.85	12.65	12.94	12.66		
10	16QAM	25	25	12.74	12.68	12.66	12.59		
10	16QAM	50	0	12.93	13.11	12.91	12.64		
10	64QAM	1	0	12.91	13.02	12.91	12.62		
10	64QAM	1	26	12.82	12.59	12.92	12.64		
10	64QAM	1	49	12.67	12.63	12.62	12.67		
10	64QAM	25	0	12.85	13.07	12.83	12.72		
10	64QAM	25	12	12.85	12.63	12.86	12.85		
10	64QAM	25	25	12.66	12.63	12.62	12.59		
10	64QAM	50	0	12.83	13.03	12.93	12.67		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	12.97	13.07	12.91	12.80	14.5	0
5	QPSK	1	12	12.85	12.64	12.78	12.77		
5	QPSK	1	24	12.67	12.79	12.62	12.67		
5	QPSK	12	0	12.92	13.02	12.88	12.77		
5	QPSK	12	7	12.84	12.66	12.84	12.68		
5	QPSK	12	13	12.68	12.60	12.84	12.63		
5	QPSK	25	0	12.90	13.03	12.89	12.71		
5	16QAM	1	0	12.93	13.04	12.96	12.66		
5	16QAM	1	12	12.80	12.58	12.87	12.64		
5	16QAM	1	24	12.63	12.56	12.67	12.57		
5	16QAM	12	0	12.95	13.06	12.88	12.73	14.5	0
5	16QAM	12	7	12.84	12.61	12.91	12.61		
5	16QAM	12	13	12.70	12.61	12.58	12.66		
5	16QAM	25	0	12.94	13.15	12.89	12.66		
5	64QAM	1	0	12.85	13.08	12.93	12.64		
5	64QAM	1	12	12.80	12.56	12.93	12.63		
5	64QAM	1	24	12.65	12.64	12.56	12.70		
5	64QAM	12	0	12.88	13.09	12.88	12.81		
5	64QAM	12	7	12.84	12.65	12.88	12.86		
5	64QAM	12	13	12.88	12.89	12.86	12.84		
5	64QAM	25	0	12.87	13.09	12.89	12.64		



Reduced Power Mode for Handheld on for WWAN

Default													
GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)					
TX Channel	128	169	251	128	169	251	128	169	251				
Frequency (MHz)	824.2	835.4	846.6	824.2	835.4	846.6	824.2	835.4	846.6				
GSM 1 Tx slot	31.89	32.10	32.05	33.50	22.89	23.10	23.05	24.50	24.50				
GPRS 1 Tx slot	31.88	32.11	31.99	33.50	22.88	23.11	22.99	24.50	24.50				
GPRS 2 Tx slots	30.99	31.24	31.19	32.00	24.99	25.24	25.19	26.00	26.00				
GPRS 3 Tx slots	29.11	29.36	29.20	30.50	24.85	25.10	24.94	26.24	26.24				
GPRS 4 Tx slots	27.60	28.10	28.05	29.00	24.80	25.10	25.05	26.00	26.00				
EDGE 1 Tx slot	26.45	26.49	26.61	27.50	17.45	17.49	17.61	18.50	18.50				
EDGE 2 Tx slots	25.25	25.29	25.38	26.50	16.25	16.29	16.38	20.50	20.50				
EDGE 3 Tx slots	23.10	23.12	23.24	24.50	18.84	18.86	18.88	18.88	20.24				
EDGE 4 Tx slots	21.88	22.03	22.12	23.00	18.88	19.03	19.12	20.00	20.00				
SA DS16													
GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)					
TX Channel	512	661	810	512	661	810	512	661	810				
Frequency (MHz)	1852.2	1860	1923.3	1852.2	1860	1923.3	1852.2	1860	1923.3				
GSM 1 Tx slot	28.79	28.83	28.73	30.00	19.79	19.83	19.73	21.00	21.00				
GSM 1 Tx slot	28.71	28.81	28.71	30.00	19.71	19.81	19.71	21.00	21.00				
GPRS 1 Tx slot	27.85	27.92	27.88	29.00	21.85	21.92	21.88	23.00	23.00				
GPRS 2 Tx slots	25.78	25.88	25.83	27.00	21.52	21.62	21.57	22.74	22.74				
GPRS 3 Tx slots	24.52	24.61	24.60	25.50	21.52	21.61	21.60	22.50	22.50				
GPRS 4 Tx slots	25.22	25.26	25.24	26.50	16.22	16.26	16.24	17.50	17.50				
EDGE 1 Tx slot	23.98	24.06	24.03	25.50	17.98	18.06	18.03	19.50	19.50				
EDGE 2 Tx slots	21.81	21.89	21.87	23.00	17.55	17.63	17.61	18.74	18.74				
EDGE 3 Tx slots	20.35	20.40	20.32	21.50	17.35	17.40	17.32	18.50	18.50				
SA DS16													
SA DS16													
Default													
Band	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 0				
TX Channel	9262	9400	9538	9262	9400	9538	9262	9400	9538	4132	4182	4233	
RX Channel	9662	9800	9938	1537	1638	1738	1537	1638	1738	4357	4407	4458	
Frequency (MHz)	1932.4	1950	1971.6	1712.4	1723.3	1752.6	1712.4	1723.3	1752.6	3254	3364	3464	
3GPP Rel 99	AMR 12.2Kbps	20.27	20.30	20.21	21.50	20.91	20.91	20.82	22.00	22.42	22.62	22.55	24.00
3GPP Rel 99	RM-C 12.2Kbps	20.29	20.32	20.23	21.50	20.90	20.92	20.90	22.00	22.43	22.64	22.57	24.00
3GPP Rel 6	HSDPA Subtest-1	19.10	19.23	19.28	20.50	19.84	19.90	19.88	21.00	21.43	21.60	21.52	23.00
3GPP Rel 6	HSDPA Subtest-2	19.29	19.25	19.15	20.50	19.94	20.04	20.00	21.00	21.59	21.54	21.50	23.00
3GPP Rel 6	HSDPA Subtest-3	18.62	18.63	18.70	20.00	19.39	19.53	19.52	20.50	21.00	21.01	21.00	22.50
3GPP Rel 6	HSDPA Subtest-4	18.59	18.82	18.48	20.00	19.30	19.67	19.36	20.50	20.91	21.18	20.90	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	19.12	19.34	19.15	20.50	19.88	20.03	19.87	21.00	21.48	21.67	21.40	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	19.14	19.27	19.38	20.50	19.90	19.99	20.03	21.00	21.47	21.60	21.54	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	18.52	18.83	18.76	20.00	19.49	19.46	19.47	20.50	20.95	21.15	21.02	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	18.67	18.95	18.58	20.00	19.46	19.51	19.30	20.50	21.07	21.20	20.91	22.50
3GPP Rel 6	HSUPA Subtest-1	19.07	19.16	18.84	20.50	19.72	19.99	19.80	21.00	21.39	21.51	21.27	23.00
3GPP Rel 6	HSUPA Subtest-2	17.27	17.09	17.17	18.50	18.00	17.87	17.80	19.00	19.55	19.47	19.39	21.00
3GPP Rel 6	HSUPA Subtest-3	17.93	18.10	18.04	19.50	18.70	18.87	18.86	20.00	20.29	20.46	20.47	22.00
3GPP Rel 6	HSUPA Subtest-4	17.09	17.09	17.12	18.50	17.86	17.84	17.89	19.00	19.46	19.43	19.52	21.00
3GPP Rel 6	HSUPA Subtest-5	19.13	19.50	19.43	20.50	19.83	20.06	20.08	21.00	21.48	21.76	21.83	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.45	16.41	16.48	18.00	17.14	17.32	17.27	18.50	18.78	18.89	18.88	20.50



Band 2 Ant0 SA DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				18700	18900	19100		
20	QPSK	1	0	19.82	19.92	19.90		
20	QPSK	1	49	19.75	19.88	19.71	21.5	0
20	QPSK	1	99	19.78	19.85	19.78		
20	QPSK	50	0	19.77	19.91	19.79		
20	QPSK	50	24	19.85	19.89	19.72	21.5	0
20	QPSK	50	50	19.66	19.77	19.76		
20	QPSK	100	0	19.80	19.89	19.88		
20	16QAM	1	0	19.77	19.88	19.72	21.5	0
20	16QAM	1	49	19.71	19.85	19.68		
20	16QAM	1	99	19.86	19.85	19.80		
20	16QAM	50	0	19.75	19.89	19.73		
20	16QAM	50	24	19.66	19.77	19.73	21.5	0
20	16QAM	50	50	19.82	19.84	19.84		
20	16QAM	100	0	19.78	19.90	19.73		
20	64QAM	1	0	19.76	19.83	19.78		
20	64QAM	1	49	19.77	19.84	19.77	21.5	0
20	64QAM	1	99	19.89	19.87	19.82		
20	64QAM	50	0	19.44	19.51	19.67		
20	64QAM	50	24	19.35	19.44	19.29	21	0.5
20	64QAM	50	50	19.30	19.38	19.32		
20	64QAM	100	0	19.32	19.49	19.41		
Channel								
Frequency (MHz)				18675	18900	19125		
15	QPSK	1	0	19.77	19.82	19.71	21.5	0
15	QPSK	1	37	19.68	19.88	19.64		
15	QPSK	1	74	19.65	19.86	19.72		
15	QPSK	36	0	19.74	19.79	19.71	21.5	0
15	QPSK	36	20	19.77	19.89	19.63		
15	QPSK	36	39	19.60	19.71	19.74		
15	QPSK	75	0	19.73	19.79	19.66		
15	16QAM	1	0	19.67	19.91	19.65	21.5	0
15	16QAM	1	37	19.66	19.74	19.61		
15	16QAM	1	74	19.78	19.85	19.73		
15	16QAM	36	0	19.72	19.79	19.64	21.5	0
15	16QAM	36	20	19.56	19.71	19.72		
15	16QAM	36	39	19.75	19.81	19.74		
15	16QAM	75	0	19.78	19.80	19.65		
15	64QAM	1	0	19.72	19.73	19.71	21.5	0
15	64QAM	1	37	19.70	19.74	19.73		
15	64QAM	1	74	19.62	19.86	19.51		
15	64QAM	36	0	19.35	19.40	19.40	21	0.5
15	64QAM	36	20	19.18	19.38	19.22		
15	64QAM	36	39	19.16	19.25	19.23		
15	64QAM	75	0	19.22	19.39	19.26		
Channel								
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	19.82	19.85	19.79	21.5	0
10	QPSK	1	25	19.75	19.83	19.66		
10	QPSK	1	49	19.75	19.84	19.68		
10	QPSK	25	0	19.78	19.84	19.74		
10	QPSK	25	12	19.81	19.85	19.62	21.5	0
10	QPSK	25	25	19.57	19.69	19.72		
10	QPSK	50	0	19.72	19.80	19.78		
10	16QAM	1	0	19.71	19.91	19.67	21.5	0
10	16QAM	1	25	19.68	19.83	19.65		
10	16QAM	1	49	19.77	19.78	19.74		
10	16QAM	25	0	19.68	19.84	19.72		
10	16QAM	25	12	19.61	19.71	19.67	21.5	0
10	16QAM	25	25	19.74	19.77	19.74		
10	16QAM	50	0	19.74	19.90	19.64		
10	64QAM	1	0	19.72	19.73	19.71	21.5	0
10	64QAM	1	25	19.73	19.82	19.69		
10	64QAM	1	49	19.50	19.85	19.57		
10	64QAM	25	0	19.28	19.47	19.32	21	0.5
10	64QAM	25	12	19.20	19.27	19.19		
10	64QAM	25	25	19.16	19.32	19.21		
10	64QAM	50	0	19.21	19.34	19.30		
Channel								
Frequency (MHz)				18625	18900	19175		
5	QPSK	1	0	19.72	19.80	19.77	21.5	0
5	QPSK	1	12	19.66	19.85	19.67		
5	QPSK	1	24	19.77	19.83	19.73		
5	QPSK	12	0	19.71	19.80	19.76		
5	QPSK	12	7	19.82	19.86	19.63	21.5	0
5	QPSK	12	13	19.66	19.72	19.76		
5	QPSK	25	0	19.77	19.82	19.83		
5	16QAM	1	0	19.73	19.88	19.68	21.5	0
5	16QAM	1	12	19.70	19.82	19.70		
5	16QAM	1	24	19.82	19.83	19.78		
5	16QAM	12	0	19.68	19.84	19.65		
5	16QAM	12	7	19.60	19.74	19.64	21.5	0
5	16QAM	12	13	19.79	19.82	19.77		
5	16QAM	25	0	19.70	19.82	19.65		
5	64QAM	1	0	19.70	19.79	19.67	21.5	0
5	64QAM	1	12	19.71	19.84	19.72		
5	64QAM	1	24	19.68	19.78	19.62		
5	64QAM	12	0	19.28	19.47	19.36	21	0.5
5	64QAM	12	7	19.25	19.34	19.12		
5	64QAM	12	13	19.26	19.31	19.17		
5	64QAM	25	0	19.29	19.40	19.28		
Channel								
Frequency (MHz)				18615	18900	19185		
3	QPSK	1	0	19.82	19.83	19.77	21.5	0
3	QPSK	1	8	19.67	19.88	19.66		
3	QPSK	1	14	19.75	19.81	19.67		
3	QPSK	8	0	19.71	19.89	19.70		
3	QPSK	8	4	19.82	19.85	19.71	21.5	0
3	QPSK	8	7	19.83	19.72	19.69		
3	QPSK	15	0	19.72	19.83	19.77		
3	16QAM	1	0	19.77	19.83	19.63	21.5	0
3	16QAM	1	8	19.72	19.83	19.66		
3	16QAM	1	14	19.78	19.74	19.76		
3	16QAM	8	0	19.68	19.87	19.73		
3	16QAM	8	4	19.59	19.66	19.63	21.5	0
3	16QAM	8	7	19.74	19.81	19.75		
3	16QAM	15	0	19.79	19.79	19.70		
3	64QAM	1	0	19.74	19.76	19.71	21.5	0
3	64QAM	1	8	19.71	19.84	19.70		
3	64QAM	1	14	19.60	19.88	19.58		
3	64QAM	8	0	19.33	19.46	19.45		
3	64QAM	8	4	19.26	19.38	19.26	21	0.5
3	64QAM	8	7	19.16	19.25	19.25		
3	64QAM	15	0	19.25	19.42	19.29		
Channel								
Frequency (MHz)				18507	18900	19193		
1.4	QPSK	1	0	19.81	19.91	19.81	21.5	0
1.4	QPSK	1	3	19.70	19.81	19.68		
1.4	QPSK	1	5	19.72	19.81	19.77		
1.4	QPSK	3	0	19.75	19.80	19.74		
1.4	QPSK	3	1	19.74	19.90	19.62		
1.4	QPSK	3	3	19.64	19.72	19.73	21.5	0
1.4	QPSK	6	0	19.70	19.82	19.69		
1.4	16QAM	1	0	19.77	19.85	19.67	21.5	0
1.4	16QAM	1	3	19.69	19.75	19.61		
1.4	16QAM	1	5	19.83	19.85	19.77		
1.4	16QAM	3	0	19.71	19.85	19.70		
1.4	16QAM	3	1	19.65	19.78	19.69		
1.4	16QAM	3	3	19.73	19.79	19.74		
1.4	16QAM	6	0	19.77	19.80	19.69	21.5	0
1.4	64QAM	1	0	19.75	19.73	19.73		
1.4	64QAM	1	3	19.78	19.75	19.77		
1.4	64QAM	1	5	19.69	19.84	19.72	21.5	0
1.4	64QAM	3	0	19.89	19.76	19.70		
1.4	64QAM	3	1	19.75	19.84	19.70		
1.4	64QAM	3	3	19.67	19.83	19.55		
1.4	64QAM	6	0	19.29	19.42	19.30	21	0.5

Band 4 Ant0 SA DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				20050	20175	20300		
20	QPSK	1	0	20.52	20.52	20.38		
20	QPSK	1	49	20.51	20.57	20.49	22	0
20	QPSK	1	99	20.39	20.53	20.42		
20	QPSK	50	0	20.50	20.61	20.45		
20	QPSK	50	24	20.49	20.58	20.45	22	0
20	QPSK	50	50	20.42	20.56	20.33		
20	QPSK	100	0	20.52	20.56	20.40		
20	16QAM	1	0	20.49	20.57	20.40	22	0
20	16QAM	1	49	20.46	20.52	20.46		
20	16QAM	1						



Band 25 Ant0 SA DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26140	26340	26590			
Frequency (MHz)				1850	1930	1970			
20	QPSK	1	0	19.83	19.98	19.77	21.5	0	
20	QPSK	1	49	19.65	19.83	19.77			
20	QPSK	1	99	19.68	19.74	19.61			
20	QPSK	50	0	19.87	19.89	19.88			
20	QPSK	50	24	19.80	19.77	19.73			
20	QPSK	50	50	19.65	19.66	19.66			
20	QPSK	100	0	19.78	19.85	19.84			
20	16QAM	1	0	19.71	19.88	19.72			
20	16QAM	1	49	19.70	19.76	19.70			
20	16QAM	1	99	19.80	19.87	19.85			
20	16QAM	50	0	19.69	19.89	19.72			
20	16QAM	50	24	19.86	19.88	19.83			
20	16QAM	50	50	19.77	19.80	19.71			
20	16QAM	100	0	19.60	19.65	19.72			
20	64QAM	1	0	19.87	19.80	19.83			
20	64QAM	1	49	19.71	19.82	19.65			
20	64QAM	1	99	19.82	19.71	19.66			
20	64QAM	50	0	19.24	19.51	19.37			
20	64QAM	50	24	19.22	19.34	19.30			
20	64QAM	50	50	19.21	19.34	19.23			
20	64QAM	100	0	19.24	19.25	19.21			
Channel				26115	26340	26615			
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	19.89	19.84	19.77	21.5	0	
15	QPSK	1	37	19.64	19.87	19.77			
15	QPSK	1	74	19.68	19.74	19.63			
15	QPSK	36	0	19.94	19.84	19.83			
15	QPSK	36	20	19.71	19.82	19.70			
15	QPSK	36	39	19.67	19.73	19.66			
15	QPSK	75	0	19.80	19.79	19.76			
15	16QAM	1	0	19.75	19.88	19.68			
15	16QAM	1	37	19.62	19.75	19.66			
15	16QAM	1	74	19.84	19.85	19.78			
15	16QAM	36	0	19.73	19.82	19.73			
15	16QAM	36	20	19.89	19.86	19.80			
15	16QAM	36	39	19.83	19.79	19.82			
15	16QAM	75	0	19.89	19.84	19.68			
15	64QAM	1	0	19.85	19.87	19.86			
15	64QAM	1	37	19.67	19.89	19.68			
15	64QAM	1	74	19.63	19.64	19.67			
15	64QAM	36	0	19.26	19.45	19.34			
15	64QAM	36	20	19.26	19.48	19.33			
15	64QAM	36	39	19.18	19.39	19.25			
15	64QAM	75	0	19.19	19.28	19.19			
Channel				26090	26340	26640			
Frequency (MHz)				1855	1880	1910			
10	QPSK	1	0	19.85	19.83	19.82	21.5	0	
10	QPSK	1	25	19.64	19.79	19.82			
10	QPSK	1	49	19.73	19.67	19.55			
10	QPSK	25	0	19.92	19.78	19.88			
10	QPSK	25	12	19.76	19.81	19.78			
10	QPSK	25	25	19.68	19.74	19.68			
10	QPSK	50	0	19.76	19.81	19.83			
10	16QAM	1	0	19.71	19.82	19.74			
10	16QAM	1	25	19.62	19.77	19.74			
10	16QAM	1	49	19.82	19.84	19.81			
10	16QAM	25	0	19.66	19.87	19.68			
10	16QAM	25	12	19.93	19.91	19.80			
10	16QAM	25	25	19.83	19.81	19.66			
10	16QAM	50	0	19.70	19.71	19.70			
10	64QAM	1	0	19.75	19.82	19.91			
10	64QAM	1	25	19.64	19.89	19.63			
10	64QAM	1	49	19.62	19.63	19.58			
10	64QAM	25	0	19.29	19.51	19.26			
10	64QAM	25	12	19.26	19.49	19.34			
10	64QAM	25	25	19.16	19.32	19.31			
10	64QAM	50	0	19.18	19.27	19.26			
Channel				26065	26340	26665			
Frequency (MHz)				1852.5	1880	1912.5			
5	QPSK	1	0	19.85	19.89	19.76	21.5	0	
5	QPSK	1	12	19.75	19.82	19.78			
5	QPSK	1	24	19.67	19.72	19.60			
5	QPSK	12	0	19.88	19.84	19.77			
5	QPSK	12	7	19.74	19.86	19.79			
5	QPSK	12	13	19.66	19.66	19.63			
5	QPSK	25	0	19.85	19.85	19.84			
5	16QAM	1	0	19.82	19.87	19.79			
5	16QAM	1	12	19.65	19.76	19.73			
5	16QAM	1	24	19.81	19.83	19.81			
5	16QAM	12	0	19.77	19.86	19.72			
5	16QAM	12	7	19.91	19.85	19.79			
5	16QAM	12	13	19.79	19.85	19.70			
5	16QAM	25	0	19.66	19.68	19.71			
5	64QAM	1	0	19.80	19.82	19.85			
5	64QAM	1	12	19.69	19.80	19.71			
5	64QAM	1	24	19.61	19.64	19.62			
5	64QAM	12	0	19.27	19.42	19.37			
5	64QAM	12	7	19.26	19.50	19.34			
5	64QAM	12	13	19.23	19.34	19.33			
5	64QAM	25	0	19.28	19.27	19.28			
Channel				26055	26340	26675			
Frequency (MHz)				1851.5	1880	1913.5			
3	QPSK	1	0	19.93	19.84	19.77	21.5	0	
3	QPSK	1	8	19.71	19.84	19.78			
3	QPSK	1	14	19.71	19.75	19.57			
3	QPSK	8	0	19.87	19.87	19.79			
3	QPSK	8	4	19.82	19.86	19.81			
3	QPSK	8	7	19.58	19.74	19.60			
3	QPSK	15	0	19.82	19.84	19.85			
3	16QAM	1	0	19.75	19.89	19.73			
3	16QAM	1	8	19.59	19.73	19.76			
3	16QAM	1	14	19.87	19.80	19.89			
3	16QAM	8	0	19.74	19.83	19.74			
3	16QAM	8	4	19.85	19.89	19.77			
3	16QAM	8	7	19.75	19.86	19.65			
3	16QAM	15	0	19.70	19.80	19.70			
3	64QAM	1	0	19.77	19.85	19.90			
3	64QAM	1	8	19.73	19.80	19.72			
3	64QAM	1	14	19.55	19.72	19.63			
3	64QAM	8	0	19.28	19.51	19.33			
3	64QAM	8	4	19.29	19.41	19.35			
3	64QAM	8	7	19.22	19.31	19.30			
3	64QAM	15	0	19.26	19.32	19.22			
Channel				26047	26340	26683			
Frequency (MHz)				1850	1880	1911.3			
1.4	QPSK	1	0	19.92	19.84	19.84	21.5	0	
1.4	QPSK	1	3	19.69	19.85	19.77			
1.4	QPSK	1	5	19.63	19.73	19.64			
1.4	QPSK	3	0	19.88	19.81	19.77			
1.4	QPSK	3	1	19.72	19.85	19.72			
1.4	QPSK	3	3	19.66	19.75	19.61			
1.4	QPSK	6	0	19.95	19.78	19.85			
1.4	16QAM	1	0	19.76	19.87	19.79			
1.4	16QAM	1	3	19.64	19.85	19.68			
1.4	16QAM	1	5	19.79	19.83	19.79			
1.4	16QAM	3	0	19.76	19.80	19.71			
1.4	16QAM	3	1	19.60	19.71	19.72			
1.4	16QAM	3	3	19.77	19.77	19.87			
1.4	16QAM	6	0	19.76	19.78	19.69			
1.4	64QAM	1	0	19.90	19.94	19.82			
1.4	64QAM	1	3	19.80	19.88	19.70			
1.4	64QAM	1	5	19.83	19.87	19.73			
1.4	64QAM	3	0	19.79	19.85	19.86			
1.4	64QAM	3	1	19.72	19.82	19.65			
1.4	64QAM	3	3	19.53	19.72	19.67			
1.4	64QAM	6	0	19.28	19.46	19.34			

Band 66 Ant0 SA DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132672			
Frequency (MHz)				1720	1745	1770			
20	QPSK								



Band 7 Ant1 SA DSI6									
BW [MHz]	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	19.67	19.80	19.71	21	0	
20	QPSK	1	49	19.63	19.56	19.59			
20	QPSK	1	99	19.57	19.56	19.67			
20	QPSK	50	0	19.57	19.79	19.58			
20	QPSK	50	24	19.56	19.58	19.55	21	0	
20	QPSK	50	50	19.49	19.61	19.59			
20	QPSK	100	0	19.66	19.78	19.74			
20	16QAM	1	0	19.51	19.72	19.53			
20	16QAM	1	49	19.48	19.63	19.57	21	0	
20	16QAM	1	99	19.57	19.85	19.78			
20	16QAM	50	0	19.55	19.63	19.69			
20	16QAM	50	24	19.56	19.61	19.54			
20	16QAM	50	50	19.60	19.78	19.80	21	0	
20	16QAM	100	0	19.48	19.56	19.61			
20	64QAM	1	0	19.63	19.62	19.58			
20	64QAM	1	49	19.66	19.74	19.79			
20	64QAM	1	99	19.44	19.62	19.66	21	0	
20	64QAM	50	0	19.58	19.56	19.51			
20	64QAM	50	24	19.81	19.84	19.83			
20	64QAM	50	50	19.70	19.82	19.74			
20	64QAM	100	0	19.75	19.77	19.77			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.65	19.75	19.72	21	0	
15	QPSK	1	37	19.55	19.60	19.63			
15	QPSK	1	74	19.49	19.61	19.64			
15	QPSK	36	0	19.59	19.82	19.73			
15	QPSK	36	20	19.54	19.53	19.50	21	0	
15	QPSK	36	39	19.59	19.57	19.56			
15	QPSK	75	0	19.61	19.78	19.71			
15	16QAM	1	0	19.51	19.64	19.53			
15	16QAM	1	37	19.57	19.56	19.53	21	0	
15	16QAM	1	74	19.64	19.66	19.72			
15	16QAM	36	0	19.55	19.61	19.60			
15	16QAM	36	20	19.57	19.58	19.58			
15	16QAM	36	39	19.53	19.75	19.69	21	0	
15	16QAM	75	0	19.52	19.53	19.63			
15	64QAM	1	0	19.58	19.70	19.63			
15	64QAM	1	37	19.59	19.69	19.75			
15	64QAM	1	74	19.48	19.58	19.59	21	0	
15	64QAM	36	0	19.63	19.63	19.51			
15	64QAM	36	20	19.82	19.92	19.88			
15	64QAM	36	39	19.71	19.81	19.75			
15	64QAM	75	0	19.72	19.73	19.68			
Channel				20890	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	19.71	19.70	19.69	21	0	
10	QPSK	1	25	19.60	19.61	19.58			
10	QPSK	1	49	19.51	19.64	19.63			
10	QPSK	25	0	19.58	19.77	19.76			
10	QPSK	25	12	19.60	19.53	19.52	21	0	
10	QPSK	25	25	19.58	19.57	19.54			
10	QPSK	50	0	19.61	19.72	19.76			
10	16QAM	1	0	19.45	19.73	19.52			
10	16QAM	1	25	19.50	19.66	19.49	21	0	
10	16QAM	1	49	19.63	19.80	19.68			
10	16QAM	25	0	19.51	19.65	19.61			
10	16QAM	25	12	19.64	19.66	19.59			
10	16QAM	25	25	19.52	19.81	19.79	21	0	
10	16QAM	50	0	19.54	19.60	19.55			
10	64QAM	1	0	19.59	19.71	19.60			
10	64QAM	1	25	19.66	19.74	19.78			
10	64QAM	1	49	19.49	19.59	19.66	21	0	
10	64QAM	25	0	19.56	19.64	19.56			
10	64QAM	25	12	19.79	19.90	19.80			
10	64QAM	25	25	19.63	19.82	19.70			
10	64QAM	50	0	19.76	19.74	19.77			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.70	19.70	19.73	21	0	
5	QPSK	1	12	19.65	19.62	19.64			
5	QPSK	1	24	19.51	19.68	19.61			
5	QPSK	12	0	19.61	19.85	19.73			
5	QPSK	12	7	19.53	19.60	19.51	21	0	
5	QPSK	12	13	19.53	19.56	19.54			
5	QPSK	25	0	19.64	19.76	19.69			
5	16QAM	1	0	19.43	19.68	19.59			
5	16QAM	1	12	19.58	19.58	19.58	21	0	
5	16QAM	1	24	19.57	19.85	19.78			
5	16QAM	12	0	19.56	19.62	19.58			
5	16QAM	12	7	19.62	19.65	19.61			
5	16QAM	12	13	19.52	19.74	19.69	21	0	
5	16QAM	25	0	19.53	19.52	19.57			
5	64QAM	1	0	19.56	19.64	19.57			
5	64QAM	1	12	19.63	19.77	19.71			
5	64QAM	1	24	19.42	19.57	19.55	21	0	
5	64QAM	12	0	19.53	19.62	19.60			
5	64QAM	12	7	19.75	19.87	19.84			
5	64QAM	12	13	19.61	19.77	19.76			
5	64QAM	25	0	19.77	19.71	19.68			

Band 30 Ant1 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0	20.84			22	0	
10	QPSK	1	25	20.63					
10	QPSK	1	49	20.67					
10	QPSK	25	0	20.83					
10	QPSK	25	12	20.77			22	0	
10	QPSK	25	25	20.76					
10	QPSK	50	0	20.83					
10	16QAM	1	0	20.76					
10	16QAM	1	25	20.82			22	0	
10	16QAM	1	49	20.79					
10	16QAM	25	0	20.74					
10	16QAM	25	12	20.78					
10	16QAM	25	25	20.74			22	0	
10	16QAM	50	0	20.77					
10	64QAM	1	0	20.74					
10	64QAM	1	25	20.74					
10	64QAM	1	49	20.76			22	0	
10	64QAM	25	0	19.95					
10	64QAM	25	12	19.81					
10	64QAM	25	25	19.81					
10	64QAM	50	0	19.83			21	1	
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	20.69	20.79	20.68	22	0	
5	QPSK	1	12	20.41	20.52	20.47			
5	QPSK	1	24	20.55	20.62	20.54			
5	QPSK	12	0	20.68	20.79	20.69			
5	QPSK	12	7	20.71	20.81	20.80	22	0	
5	QPSK	12	13	20.84	20.83	20.83			
5	QPSK	25	0	20.66	20.74	20.71			
5	16QAM	1	0	20.68	20.76	20.67			
5	16QAM	1	12	20.70	20.80	20.75	22	0	
5	16QAM	1	24	20.70	20.77	20.75			
5	16QAM	12	0	20.78	20.77	20.69			
5	16QAM	12	7	20.81	20.80	20.79			
5	16QAM	12	13	20.81	20.83	20.84	22	0	
5	16QAM	25	0	20.76	20.76	20.77			
5	64QAM	1	0	20.75	20.83	20.81			
5	64QAM	1	12	20.73	20.75	20.65			
5	64QAM	1	24	20.75	20.82	20.78	22	0	
5	64QAM	12	0	19.89	19.92	19.81			
5	64QAM	12	7	19.64	19.83	19.83			
5	64QAM	12	13	19.70	19.82	19.84			
5	64QAM	25	0	19.43	19.56	19.54	21	1	

**Band 38 Ant1 SA DSI6**

BW (MHz)	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)												
20	QPSK	1	0	19.44	19.56	19.39	21	0	Channel			
20	QPSK	1	49	19.42	19.48	19.44			Frequency (MHz)			
20	QPSK	1	99	19.35	19.52	19.47	Channel					
20	QPSK	50	0	19.42	19.55	19.44	Frequency (MHz)					
20	QPSK	50	24	19.41	19.45	19.47	21	0	Channel			
20	QPSK	50	50	19.38	19.54	19.42			Frequency (MHz)			
20	QPSK	100	0	19.45	19.53	19.48	Channel					
20	16QAM	1	0	19.40	19.53	19.45	21	0	Channel			
20	16QAM	1	49	19.42	19.48	19.44			Frequency (MHz)			
20	16QAM	1	99	19.42	19.46	19.41	Channel					
20	16QAM	50	0	19.37	19.51	19.48	Frequency (MHz)					
20	16QAM	50	24	19.36	19.44	19.46	21	0	Channel			
20	16QAM	50	50	19.36	19.50	19.45			Frequency (MHz)			
20	16QAM	100	0	19.42	19.49	19.40	Channel					
20	64QAM	1	0	19.44	19.46	19.44	21	0	Channel			
20	64QAM	1	49	19.43	19.45	19.42			Frequency (MHz)			
20	64QAM	1	99	19.40	19.53	19.40	Channel					
20	64QAM	50	0	19.43	19.46	19.44	Frequency (MHz)					
20	64QAM	50	24	19.45	19.53	19.43	21	0	Channel			
20	64QAM	50	50	19.36	19.51	19.48			Frequency (MHz)			
20	64QAM	100	0	19.44	19.51	19.48	Channel					
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.34	19.52	19.42	21	0	Channel			
15	QPSK	1	37	19.44	19.51	19.43			Frequency (MHz)			
15	QPSK	1	74	19.38	19.53	19.46	Channel					
15	QPSK	36	0	19.38	19.54	19.48	Frequency (MHz)					
15	QPSK	36	20	19.42	19.52	19.42	21	0	Channel			
15	QPSK	36	36	19.44	19.48	19.45			Frequency (MHz)			
15	QPSK	75	0	19.41	19.53	19.41	Channel					
15	16QAM	1	0	19.38	19.47	19.48	21	0	Channel			
15	16QAM	1	37	19.43	19.49	19.45			Frequency (MHz)			
15	16QAM	1	74	19.37	19.48	19.42	Channel					
15	16QAM	36	0	19.41	19.53	19.44	Frequency (MHz)					
15	16QAM	36	20	19.40	19.52	19.41	21	0	Channel			
15	16QAM	36	36	19.44	19.48	19.45			Frequency (MHz)			
15	16QAM	75	0	19.42	19.50	19.41	Channel					
15	16QAM	75	0	19.37	19.50	19.39	Frequency (MHz)					
15	64QAM	1	0	19.42	19.50	19.41	21	0	Channel			
15	64QAM	1	37	19.44	19.48	19.45			Frequency (MHz)			
15	64QAM	1	74	19.36	19.51	19.47	Channel					
15	64QAM	36	0	19.40	19.50	19.44	Frequency (MHz)					
15	64QAM	36	20	19.43	19.52	19.43	21	0	Channel			
15	64QAM	36	36	19.45	19.36	19.45			Frequency (MHz)			
15	64QAM	75	0	19.44	19.29	19.51	Channel					
15	64QAM	75	0	19.40	19.27	19.48	Frequency (MHz)					
15	64QAM	1	0	19.40	19.27	19.48	21	0	Channel			
15	64QAM	1	37	19.36	19.28	19.44			Frequency (MHz)			
15	64QAM	1	74	19.35	19.34	19.47	Channel					
15	64QAM	36	0	19.39	19.27	19.45	Frequency (MHz)					
15	64QAM	36	20	19.37	19.32	19.43	21	0	Channel			
15	64QAM	36	36	19.36	19.35	19.47			Frequency (MHz)			
15	64QAM	75	0	19.36	19.33	19.46	Channel					
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.36	19.38	19.48	21	0	Channel			
10	QPSK	1	25	19.36	19.31	19.49			Frequency (MHz)			
10	QPSK	1	49	19.43	19.53	19.43	Channel					
10	QPSK	25	0	19.42	19.27	19.48	Frequency (MHz)					
10	QPSK	25	12	19.46	19.31	19.49	21	0	Channel			
10	QPSK	25	25	19.42	19.33	19.47			Frequency (MHz)			
10	QPSK	50	0	19.45	19.30	19.45	Channel					
10	16QAM	1	0	19.41	19.32	19.46	21	0	Channel			
10	16QAM	1	25	19.43	19.26	19.48			Frequency (MHz)			
10	16QAM	1	49	19.40	19.31	19.54	Channel					
10	16QAM	25	0	19.39	19.30	19.55	Frequency (MHz)					
10	16QAM	25	12	19.43	19.37	19.47	21	0	Channel			
10	16QAM	25	25	19.41	19.38	19.54			Frequency (MHz)			
10	16QAM	50	0	19.38	19.36	19.44	Channel					
10	64QAM	1	0	19.44	19.30	19.45	Frequency (MHz)					
10	64QAM	1	25	19.42	19.33	19.51	21	0	Channel			
10	64QAM	1	49	19.40	19.27	19.49			Frequency (MHz)			
10	64QAM	25	0	19.34	19.27	19.48	Channel					
10	64QAM	25	12	19.36	19.31	19.46	Frequency (MHz)					
10	64QAM	50	0	19.35	19.28	19.52	21	0	Channel			
10	64QAM	50	0	19.40	19.27	19.55			Frequency (MHz)			
Channel												
Frequency (MHz)												
5	QPSK	1	0	19.42	19.51	19.46	21	0	Channel			
5	QPSK	1	12	19.39	19.44	19.51			Frequency (MHz)			
5	QPSK	1	24	19.40	19.54	19.51	Channel					
5	QPSK	12	0	19.42	19.43	19.41	Frequency (MHz)					
5	QPSK	12	7	19.42	19.46	19.50	21	0	Channel			
5	QPSK	12	13	19.37	19.53	19.44			Frequency (MHz)			
5	QPSK	25	0	19.38	19.48	19.42	Channel					
5	16QAM	1	0	19.44	19.49	19.45	21	0	Channel			
5	16QAM	1	12	19.41	19.52	19.47			Frequency (MHz)			
5	16QAM	1	24	19.40	19.54	19.49	Channel					
5	16QAM	12	0	19.38	19.50	19.49	Frequency (MHz)					
5	16QAM	12	7	19.37	19.43	19.43	21	0	Channel			
5	16QAM	12	13	19.45	19.45	19.45			Frequency (MHz)			
5	16QAM	25	0	19.45	19.46	19.49	Channel					
5	64QAM	1	0	19.46	19.46	19.49	21	0	Channel			
5	64QAM	1	12	19.46	19.50	19.46			Frequency (MHz)			
5	64QAM	1	24	19.45	19.54	19.44	Channel					
5	64QAM	12	0	19.38	19.53	19.42	Frequency (MHz)					
5	64QAM	12	7	19.41	19.48	19.48	21	0	Channel			
5	64QAM	12	13	19.43	19.49	19.51			Frequency (MHz)			
5	64QAM	25	0	19.38	19.43	19.45	Channel					

Band 41 PC3 Ant1 SA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	Channel			
									37950	40185	41490	
Frequency (MHz)												
20	QPSK	1	0	19.43	19.38	19.56	21	0	Channel			
20	QPSK	1	49	19.34	19.32	19.41			Frequency (MHz)			
20	QPSK	1	99	19.41	19.30	19.46	Channel					
20	QPSK	50	0	19.39	19.37	19.54	Frequency (MHz)					
20	QPSK	50	24	19.34	19.29	19.51	21	0	Channel			
20	QPSK	50	50	19.41	19.32	19.41			Frequency (MHz)			
20	QPSK	100	0	19.38	19.27	19.45	Channel					
20	16QAM	1	0	19.36	19.34	19.48	21	0	Channel			
20	16QAM	1	49	19.30	19.35	19.44			Frequency (MHz)			
20	16QAM	1	99	19.41	19.26	19.54	Channel					
20	16QAM	50	0	19.36	19.38	19.54	Frequency (MHz)					
20	16QAM	50	24	19.41	19.26	19.45	21	0	Channel			
20	16QAM	50	50	19.37	19.27	19.52			Frequency (MHz)			
20	16QAM	100	0	19.39	19.30	19.53	Channel					
20	64QAM	1	0	19.45	19.53	19.48	21	0	Channel			
20	64QAM	1	49	19.43	19.36	19.43			Frequency (MHz)			
20	64QAM	1	99	19.36	19.28	19.51	Channel					
20	64QAM	50	0	19.39	19.30	19.50	Frequency (MHz)					
20	64QAM	50	24	19.38	19.34	19.53	21	0	Channel			
20	64QAM	50	50	19.35	19.30	19.49			Frequency (MHz)			
20	64QAM	100	0	19.40	19.37	19.46	Channel					
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.43	19.28	19.51	21	0	Channel			
15	QPSK	1	37	19.41	19.37	19.56			Frequency (MHz)			
15	QPSK	1	74	19.43	19.34	19.48	Channel					
15	QPSK	36	0	19.41	19.29	19.46	Frequency (MHz)					
15	QPSK	36	20	19.43	19.38	19.48	21	0	Channel			
15	QPSK	36	36	19.45	19.36	19.45			Frequency (MHz)			
15	QPSK	75	0	19.37	19.29	19.54	Channel					
15	16QAM	1	0	19.34	19.29	19.45	21	0	Channel			
15	16QAM	1	37	19.43	19.44	19.45			Frequency (MHz)			
15	16QAM	1	74	19.46	19.34	19.49	Channel					
15	16QAM	36	0	19.40	19.36	19.48	Frequency (MHz)					
15	16QAM	36	20	19.35	19.36	19.52	21	0	Channel			
15	16QAM	36	36	19.43	19.30	19.47			Frequency (MHz)			
15	16QAM	75	0	19.44	19.29	19.51	Channel					
15	16QAM	75	0	19.40	19.27	19.48	Frequency (MHz)					
15	64QAM	1	0	19.45	19.27	19.45	21					



Band 48 Ant5 SA DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.00	21.23	20.94	21.15	22.5	0
20	QPSK	1	49	20.91	21.22	20.97	21.15		
20	QPSK	1	99	20.96	21.16	21.05	21.12		
20	QPSK	50	0	21.04	21.22	20.91	21.21	22.5	0
20	QPSK	50	24	21.05	21.16	20.99	21.12		
20	QPSK	50	50	21.05	21.12	21.05	21.11		
20	QPSK	100	0	21.05	21.22	21.03	21.19	22.5	0
20	16QAM	1	0	20.99	21.13	20.99	21.18		
20	16QAM	1	49	21.05	21.14	21.03	21.20		
20	16QAM	1	99	20.96	21.20	20.91	21.19	22	0.5
20	16QAM	50	0	20.10	20.10	20.06	20.03		
20	16QAM	50	24	20.07	20.02	20.06	20.13		
20	16QAM	50	50	20.08	20.00	20.07	20.03	22	0.5
20	16QAM	100	0	20.06	20.03	20.00	20.07		
20	64QAM	1	0	20.04	20.06	20.04	20.15		
20	64QAM	1	49	20.07	20.02	20.00	20.07	22	0.5
20	64QAM	1	99	20.08	20.13	20.22	20.16		
20	64QAM	50	0	19.32	19.38	19.00	19.32		
20	64QAM	50	24	19.26	19.13	19.23	19.20	21	1.5
20	64QAM	50	50	19.15	19.19	19.07	19.08		
20	64QAM	100	0	19.14	19.21	19.03	19.22		
Channel				55315	55903	56160	56925	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	21.00	21.16	20.96	21.14	22.5	0
15	QPSK	1	37	20.92	21.10	21.02	21.15		
15	QPSK	1	74	20.94	21.23	21.05	21.10		
15	QPSK	36	0	21.06	21.10	20.97	21.13	22.5	0
15	QPSK	36	20	21.03	21.09	21.05	21.20		
15	QPSK	36	39	21.04	21.21	20.94	21.14		
15	QPSK	75	0	20.94	21.15	20.94	21.14	22.5	0
15	16QAM	1	0	21.03	21.14	20.98	21.19		
15	16QAM	1	37	21.00	21.13	21.06	21.10		
15	16QAM	1	74	20.97	21.12	21.02	21.23	22	0.5
15	16QAM	36	0	20.11	20.38	20.20	20.35		
15	16QAM	36	20	20.13	20.21	20.23	20.18		
15	16QAM	36	39	20.24	20.09	20.28	20.14	22	0.5
15	16QAM	75	0	20.09	20.03	20.13	20.16		
15	64QAM	1	0	20.21	20.09	20.90	20.12		
15	64QAM	1	37	20.07	20.13	20.16	20.16	22	0.5
15	64QAM	1	74	20.23	20.15	20.24	20.13		
15	64QAM	36	0	19.02	19.26	19.00	19.27		
15	64QAM	36	20	19.21	19.08	19.27	19.16	21	1.5
15	64QAM	36	39	19.09	19.13	19.21	19.06		
15	64QAM	75	0	19.05	19.05	19.07	19.02		
Channel				55290	55815	56165	56990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.01	21.17	20.91	21.14	22.5	0
10	QPSK	1	25	20.98	21.19	20.97	21.18		
10	QPSK	1	49	20.94	21.10	21.02	21.12		
10	QPSK	25	0	21.03	21.13	21.05	21.11	22.5	0
10	QPSK	25	12	21.05	21.16	20.94	21.23		
10	QPSK	25	25	20.95	21.22	20.96	21.17		
10	QPSK	50	0	21.00	21.16	21.04	21.18	22.5	0
10	16QAM	1	0	21.01	21.16	20.94	21.23		
10	16QAM	1	25	20.98	21.16	21.01	21.19		
10	16QAM	1	49	21.02	21.15	21.02	21.23	22	0.5
10	16QAM	25	0	20.20	20.40	20.15	20.31		
10	16QAM	25	12	20.13	20.12	20.13	20.20		
10	16QAM	25	25	20.20	20.12	20.27	20.19	22	0.5
10	16QAM	50	0	20.01	20.09	20.16	20.01		
10	64QAM	1	0	20.15	20.05	20.04	20.08		
10	64QAM	1	25	20.12	20.03	20.14	20.16	22	0.5
10	64QAM	1	49	20.11	20.23	20.22	20.20		
10	64QAM	25	0	19.01	19.32	19.03	19.25		
10	64QAM	25	12	19.24	19.18	19.24	19.13	21	1.5
10	64QAM	25	25	19.11	19.16	19.15	19.19		
10	64QAM	50	0	19.02	19.22	19.10	19.31		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	20.93	21.19	21.03	21.16	22.5	0
5	QPSK	1	12	20.96	21.13	20.95	21.20		
5	QPSK	1	24	21.06	21.11	21.00	21.21		
5	QPSK	12	0	20.98	21.23	21.01	21.17	22.5	0
5	QPSK	12	7	20.98	21.21	20.99	21.17		
5	QPSK	12	13	20.99	21.16	21.02	21.20		
5	QPSK	25	0	21.06	21.20	20.95	21.20	22.5	0
5	16QAM	1	0	20.92	21.10	20.95	21.22		
5	16QAM	1	12	21.04	21.17	21.05	21.22		
5	16QAM	1	24	21.05	21.19	21.06	21.12	22	0.5
5	16QAM	12	0	20.12	20.32	20.20	20.37		
5	16QAM	12	7	20.16	20.18	20.13	20.11		
5	16QAM	12	13	20.22	20.20	20.25	20.16	22	0.5
5	16QAM	25	0	20.16	20.07	20.04	20.05		
5	64QAM	1	0	20.21	20.16	20.01	20.17		
5	64QAM	1	12	20.10	20.10	20.12	20.10	22	0.5
5	64QAM	1	24	20.19	20.26	20.11	20.21		
5	64QAM	12	0	19.21	19.31	19.06	19.30		
5	64QAM	12	7	19.22	19.10	19.22	19.16	21	1.5
5	64QAM	12	13	19.09	19.09	19.09	19.08		
5	64QAM	25	0	19.01	19.00	19.09	19.00		



Band 4 Ant0 NSA DSI6											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	18.03	18.15	17.98					
20	QPSK	1	49	17.99	18.00	17.92	19.5	0			
20	QPSK	1	99	17.82	18.00	17.94					
20	QPSK	50	0	18.01	18.12	17.88					
20	QPSK	50	24	17.83	18.03	17.85	19.5	0			
20	QPSK	50	50	17.87	17.97	17.88					
20	QPSK	100	0	18.02	18.08	17.96					
20	16QAM	1	0	17.98	18.06	18.03					
20	16QAM	1	49	17.83	18.05	17.93	19.5	0			
20	16QAM	1	99	18.02	18.06	17.99					
20	16QAM	50	0	18.03	18.01	17.87					
20	16QAM	50	24	17.83	17.96	17.91	19.5	0			
20	16QAM	50	50	18.05	18.05	17.97					
20	16QAM	100	0	18.02	18.03	18.02					
20	64QAM	1	0	17.92	17.97	17.84					
20	64QAM	1	49	17.98	18.11	17.94	19.5	0			
20	64QAM	1	99	18.03	18.00	17.96					
20	64QAM	50	0	17.86	18.04	17.85					
20	64QAM	50	24	18.08	18.00	18.00	19.5	0			
20	64QAM	50	50	17.98	18.01	18.03					
20	64QAM	100	0	17.92	18.06	17.91					
Channel											
Frequency (MHz)											
20005 20175 20325											
1717.5 1732.5 1747.5											
15	QPSK	1	0	18.02	18.11	17.85					
15	QPSK	1	37	17.94	17.98	18.00	19.5	0			
15	QPSK	1	74	17.92	17.99	17.85					
15	QPSK	36	0	17.97	18.09	17.98					
15	QPSK	36	20	18.05	18.00	17.97	19.5	0			
15	QPSK	36	39	17.93	17.99	17.86					
15	QPSK	75	0	18.08	18.04	17.98					
15	16QAM	1	0	17.98	18.08	17.95					
15	16QAM	1	37	17.82	18.06	17.92	19.5	0			
15	16QAM	1	74	17.98	18.10	17.93					
15	16QAM	36	0	17.96	17.98	18.01					
15	16QAM	36	20	17.81	18.06	17.90	19.5	0			
15	16QAM	36	39	18.06	18.05	17.83					
15	16QAM	75	0	18.04	18.06	18.00					
15	64QAM	1	0	17.85	17.99	17.94					
15	64QAM	1	37	17.99	18.05	17.98	19.5	0			
15	64QAM	1	74	18.04	18.08	17.99					
15	64QAM	36	0	17.82	18.04	17.85					
15	64QAM	36	20	18.06	18.11	17.89	19.5	0			
15	64QAM	36	39	17.97	18.01	18.03					
15	64QAM	75	0	17.83	17.99	17.84					
Channel											
Frequency (MHz)											
20000 20175 20350											
1716 1732.5 1750											
10	QPSK	1	0	18.03	18.05	17.95					
10	QPSK	1	25	17.96	18.07	18.00	19.5	0			
10	QPSK	1	49	17.86	17.97	17.94					
10	QPSK	25	0	18.08	18.05	17.96					
10	QPSK	25	12	18.02	17.99	18.02	19.5	0			
10	QPSK	25	25	17.81	17.98	17.86					
10	QPSK	50	0	17.99	18.10	17.95					
10	16QAM	1	0	17.98	18.01	17.94					
10	16QAM	1	25	17.93	18.01	17.86	19.5	0			
10	16QAM	1	49	18.09	18.10	17.94					
10	16QAM	25	0	18.03	18.00	18.00					
10	16QAM	25	12	17.91	18.02	17.87	19.5	0			
10	16QAM	25	25	18.04	18.02	17.98					
10	16QAM	50	0	18.00	18.00	18.01					
10	64QAM	1	0	17.83	18.03	17.94					
10	64QAM	1	25	18.02	18.05	17.94	19.5	0			
10	64QAM	1	49	18.03	18.05	17.99					
10	64QAM	25	0	17.83	18.07	17.91	19.5	0			
10	64QAM	25	12	18.08	18.03	17.98					
10	64QAM	25	25	17.98	18.03	18.00					
10	64QAM	50	0	17.89	17.96	17.92					
Channel											
Frequency (MHz)											
19975 20175 20375											
1712.5 1732.5 1752.5											
5	QPSK	1	0	17.98	18.02	17.91					
5	QPSK	1	12	18.00	17.94	17.84	19.5	0			
5	QPSK	1	24	17.90	17.97	17.94					
5	QPSK	12	0	18.07	18.02	17.96					
5	QPSK	12	7	17.98	18.07	17.94	19.5	0			
5	QPSK	12	13	17.89	18.04	17.93					
5	QPSK	25	0	18.08	18.02	17.89					
5	16QAM	1	0	17.95	18.03	17.93					
5	16QAM	1	12	17.99	18.04	17.87	19.5	0			
5	16QAM	1	24	17.98	18.06	17.93					
5	16QAM	12	0	17.98	18.08	17.96					
5	16QAM	12	7	17.82	18.05	17.88	19.5	0			
5	16QAM	12	13	18.07	18.06	17.91					
5	16QAM	25	0	18.00	18.08	17.92					
5	64QAM	1	0	17.85	17.97	17.86					
5	64QAM	1	12	18.06	18.03	17.90	19.5	0			
5	64QAM	1	24	17.95	18.06	17.93					
5	64QAM	12	0	17.83	17.99	17.89					
5	64QAM	12	7	18.06	18.09	17.90	19.5	0			
5	64QAM	12	13	18.01	17.98	17.88					
5	64QAM	25	0	17.90	18.06	17.89					
Channel											
Frequency (MHz)											
19985 20175 20385											
1711.5 1732.5 1753.5											
3	QPSK	1	0	18.04	18.01	17.99					
3	QPSK	1	8	18.00	18.03	17.99	19.5	0			
3	QPSK	1	14	17.82	17.99	17.87					
3	QPSK	8	0	18.08	18.06	17.89					
3	QPSK	8	4	18.03	18.09	17.88	19.5	0			
3	QPSK	8	7	17.86	17.96	17.89					
3	QPSK	15	0	17.97	18.07	17.95					
3	16QAM	1	0	18.01	18.00	17.97					
3	16QAM	1	8	17.89	17.95	17.85	19.5	0			
3	16QAM	1	14	18.00	18.09	17.83					
3	16QAM	8	0	17.85	18.04	17.89					
3	16QAM	8	4	17.87	17.96	17.87	19.5	0			
3	16QAM	8	7	18.06	18.01	17.96					
3	16QAM	15	0	18.03	18.00	18.02					
3	64QAM	1	0	17.81	18.02	17.85					
3	64QAM	1	8	18.02	18.11	17.91	19.5	0			
3	64QAM	1	14	17.96	17.96	17.86					
3	64QAM	8	0	17.92	18.06	17.88					
3	64QAM	8	4	18.07	18.08	17.99	19.5	0			
3	64QAM	8	7	18.02	18.07	17.97					
3	64QAM	15	0	17.92	17.99	17.94					
Channel											
Frequency (MHz)											
19987 20175 20393											
1710.7 1732.5 1754.3											
1.4	QPSK	1	0	18.03	18.10	17.89					
1.4	QPSK	1	3	18.03	18.00	18.00	19.5	0			
1.4	QPSK	1	5	17.83	17.96	17.84					
1.4	QPSK	3	0	18.01	18.12	17.89					
1.4	QPSK	3	1	17.95	18.01	17.94	19.5	0			
1.4	QPSK	3	3	17.84	17.97	17.87					
1.4	QPSK	6	0	18.00	18.10	17.91					
1.4	16QAM	1	0	18.01	18.05	17.93					
1.4	16QAM	1	3	17.85	18.01	17.83	19.5	0			
1.4	16QAM	1	5	18.02	18.03	17.99					
1.4	16QAM	3	0	18.02	18.10	17.96					
1.4	16QAM	3	1	17.88	18.03	17.84	19.5	0			
1.4	16QAM	3	3	18.00	18.01	17.90					
1.4	16QAM	6	0	17.89	18.07	18.01	19.5	0			
1.4	64QAM	1	0	17.87	17.99	17.86					
1.4	64QAM	1	3	17.98	18.05	17.89					
1.4	64QAM	1	5	18.01	17.99	18.00	19.5	0			
1.4	64QAM	3	0	17.85	18.06	17.94					
1.4	64QAM	3	1	18.09	18.01	17.97					
1.4	64QAM	3	3	17.97	18.03	17.92	19.5	0			
1.4	64QAM	6	0	17.90	17.97	17.94					

Band 25 Ant0 NSA DSI6											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
1860 1860 1905											
20	QPSK	1	0	17.42	17.47	17.45					
20	QPSK	1	49	17.25	17.32	17.27	19	0			
20	QPSK	1	99	17.16	17.22	17.19					
20	QPSK	50	0	17.43	17.46	17.42					
20	QPSK	50	24	17.20	17.32	17.26	19	0			
20	QPSK	50	50	17.22	17.24	17.22					
20	QPSK	100	0	17.43	17.44	17.32					
20	16QAM	1	0	17.30	17.39	17.23					
20	16QAM	1	49	17.23	17.20	17.21	19	0			
20	16QAM	1	99	17.38	17.40	17.41					
20	16QAM	50	0	17.28	17.37	17.23					
20	16QAM	50	24	17.13	17.25	17.14	19	0			
20	16QAM	50	50	17.42	17.43	17.40					
20	16QAM	100	0	17.24	17.38	17.25					
20	64QAM	1	0	17.17	17.25	17.14					
20	64QAM	1	49	17.35	17.36	17.39	19	0			
20	64QAM	1	99	17.31	17.34	17.23					
20	64QAM	50	0	17.20	17.26	17.23					
20	64QAM	50	24	17.36	17.41	17.34	19				



Band 7 Ant1 NSA DSI6											
BW [MHz]	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	17.80	17.87	17.82	19	0			
20	QPSK	1	49	17.83	17.48	17.84					
20	QPSK	1	99	17.74	17.48	17.77					
20	QPSK	50	0	17.76	17.86	17.78					
20	QPSK	50	24	17.84	17.46	17.82					
20	QPSK	50	50	17.76	17.46	17.74					
20	QPSK	100	0	17.76	17.85	17.84					
20	16QAM	1	0	17.77	17.52	17.81					
20	16QAM	1	49	17.83	17.56	17.82					
20	16QAM	1	99	17.85	17.56	17.82					
20	16QAM	50	0	17.81	17.52	17.84					
20	16QAM	50	24	17.80	17.57	17.78					
20	16QAM	50	50	17.78	17.62	17.78					
20	16QAM	100	0	17.81	17.55	17.82					
20	64QAM	1	0	17.79	17.49	17.78	19	0			
20	64QAM	1	49	17.81	17.59	17.80					
20	64QAM	1	99	17.77	17.46	17.82					
20	64QAM	50	0	17.84	17.50	17.76					
20	64QAM	50	24	17.86	17.60	17.79					
20	64QAM	50	50	17.83	17.48	17.84					
20	64QAM	100	0	17.79	17.56	17.85					
Channel				20825	21100	21375					
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	17.76	17.59	17.79			19	0	
15	QPSK	1	37	17.86	17.42	17.79					
15	QPSK	1	74	17.81	17.47	17.83					
15	QPSK	36	0	17.85	17.85	17.81					
15	QPSK	36	20	17.76	17.83	17.83					
15	QPSK	36	39	17.78	17.75	17.84					
15	QPSK	75	0	17.79	17.85	17.76					
15	16QAM	1	0	17.84	17.79	17.82					
15	16QAM	1	37	17.79	17.79	17.75					
15	16QAM	1	74	17.76	17.83	17.82					
15	16QAM	36	0	17.66	17.48	17.73					
15	16QAM	36	20	17.84	17.55	17.77					
15	16QAM	36	39	17.75	17.36	17.84					
15	16QAM	75	0	17.79	17.78	17.78					
15	64QAM	1	0	17.84	17.81	17.81					
15	64QAM	1	37	17.84	17.83	17.74					
15	64QAM	1	74	17.80	17.80	17.75					
15	64QAM	36	0	17.77	17.79	17.74					
15	64QAM	36	20	17.80	17.76	17.82					
15	64QAM	36	39	17.85	17.75	17.86					
15	64QAM	75	0	17.83	17.76	17.82					
Channel				20800	21100	21400					
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	17.75	17.80	17.78	19	0			
10	QPSK	1	25	17.79	17.81	17.78					
10	QPSK	1	49	17.79	17.85	17.84					
10	QPSK	25	0	17.78	17.86	17.81					
10	QPSK	25	12	17.85	17.78	17.85					
10	QPSK	25	25	17.81	17.84	17.80					
10	QPSK	50	0	17.83	17.83	17.84					
10	16QAM	1	0	17.86	17.77	17.81					
10	16QAM	1	25	17.79	17.79	17.82					
10	16QAM	1	49	17.80	17.80	17.80					
10	16QAM	25	0	17.84	17.80	17.83					
10	16QAM	25	12	17.76	17.85	17.76					
10	16QAM	25	25	17.81	17.82	17.76					
10	16QAM	50	0	17.82	17.80	17.83					
10	64QAM	1	0	17.80	17.75	17.85					
10	64QAM	1	25	17.75	17.78	17.74					
10	64QAM	1	49	17.77	17.76	17.85					
10	64QAM	25	0	17.83	17.83	17.86					
10	64QAM	25	12	17.78	17.76	17.78					
10	64QAM	25	25	17.85	17.78	17.78					
10	64QAM	50	0	17.84	17.77	17.79					
Channel				20775	21100	21425					
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	17.47	17.56	17.52	19	0			
5	QPSK	1	12	17.43	17.51	17.43					
5	QPSK	1	24	17.42	17.52	17.33					
5	QPSK	12	0	17.36	17.67	17.61					
5	QPSK	12	7	17.38	17.44	17.47					
5	QPSK	12	13	17.35	17.57	17.30					
5	QPSK	25	0	17.40	17.57	17.52					
5	16QAM	1	0	17.33	17.52	17.41					
5	16QAM	1	12	17.34	17.57	17.42					
5	16QAM	1	24	17.39	17.61	17.56					
5	16QAM	12	0	17.34	17.49	17.40					
5	16QAM	12	7	17.43	17.63	17.31					
5	16QAM	12	13	17.44	17.63	17.59					
5	16QAM	25	0	17.44	17.42	17.47					
5	64QAM	1	0	17.43	17.55	17.39					
5	64QAM	1	12	17.46	17.56	17.48					
5	64QAM	1	24	17.38	17.50	17.38					
5	64QAM	12	0	17.42	17.56	17.34					
5	64QAM	12	7	17.46	17.56	17.52					
5	64QAM	12	13	17.44	17.48	17.46					
5	64QAM	25	0	17.36	17.52	17.39					

Band 30 Ant1 NSA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0	19.38			20.5	0	
10	QPSK	1	25	18.96					
10	QPSK	1	49	19.19					
10	QPSK	25	0	19.30					
10	QPSK	25	12	19.06					
10	QPSK	25	25	19.20					
10	QPSK	50	0	19.27					
10	16QAM	1	0	18.99					
10	16QAM	1	25	19.15					
10	16QAM	1	49	19.26					
10	16QAM	25	0	19.05					
10	16QAM	25	12	19.13					
10	16QAM	25	25	19.32					
10	16QAM	50	0	18.99					
10	64QAM	1	0	19.10					
10	64QAM	1	25	19.34					
10	64QAM	1	49	18.99					
10	64QAM	25	0	19.13					
10	64QAM	25	12	19.27					
10	64QAM	25	25	19.01					
10	64QAM	50	0	19.12					
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	19.28	19.32	19.28	20.5	0	
5	QPSK	1	12	18.97	18.97	19.02			
5	QPSK	1	24	19.14	19.09	19.19			
5	QPSK	12	0	19.34	19.30	19.29			
5	QPSK	12	7	19.05	19.01	18.97			
5	QPSK	12	13	19.16	19.17	19.08			
5	QPSK	25	0	19.34	19.27	19.30			
5	16QAM	1	0	19.04	19.03	19.03			
5	16QAM	1	12	19.19	19.13	19.18			
5	16QAM	1	24	19.33	19.31	19.33			
5	16QAM	12	0	19.05	18.98	19.05			
5	16QAM	12	7	19.14	19.10	19.14			
5	16QAM	12	13	19.31	19.31	19.32			
5	16QAM	25	0	18.99	19.01	18.99			
5	64QAM	1	0	19.09	19.12	19.12			
5	64QAM	1	12	19.34	19.33	19.31			
5	64QAM	1	24	18.99	19.06	19.03			
5	64QAM	12	0	19.16	19.15	19.20			
5	64QAM	12	7	19.30	19.27	19.26			
5	64QAM	12	13	18.99	19.01	19.01			
5	64QAM	25	0	19.08	19.11	19.12			



Band 2 Ant4 NSA DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.48	20.52	20.54	21.5	0		
20	QPSK	1	49	20.28	20.46	20.23				
20	QPSK	1	99	20.27	20.39	20.28				
20	QPSK	50	0	20.41	20.66	20.45				
20	QPSK	50	24	20.35	20.44	20.29	21.5	0		
20	QPSK	50	50	20.31	20.44	20.28				
20	QPSK	100	0	20.44	20.62	20.54				
20	16QAM	1	0	20.45	20.61	20.44	21.5	0		
20	16QAM	1	49	20.32	20.40	20.24				
20	16QAM	1	99	20.32	20.40	20.24				
20	16QAM	50	0	19.35	19.48	19.41				
20	16QAM	50	24	19.16	19.25	19.20	20.5	1		
20	16QAM	50	50	19.02	19.22	19.20				
20	16QAM	100	0	19.19	19.34	19.24				
20	64QAM	1	0	18.61	18.50	18.61				
20	64QAM	1	49	18.61	18.58	18.54	20.5	1		
20	64QAM	1	99	18.61	18.58	18.57				
20	64QAM	50	0	17.51	17.61	17.59				
20	64QAM	50	24	17.52	17.54	17.60	19.5	2		
20	64QAM	50	50	17.53	17.55	17.59				
20	64QAM	100	0	17.50	17.55	17.62				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.48	20.63	20.55	21.5	0		
15	QPSK	1	37	20.26	20.49	20.27				
15	QPSK	1	74	20.29	20.42	20.27				
15	QPSK	36	0	20.45	20.57	20.46				
15	QPSK	36	20	20.32	20.52	20.33	21.5	0		
15	QPSK	36	39	20.28	20.43	20.30				
15	QPSK	75	0	20.44	20.63	20.55				
15	16QAM	1	0	20.45	20.59	20.51				
15	16QAM	1	37	20.34	20.44	20.27	21.5	0		
15	16QAM	1	74	20.32	20.34	20.27				
15	16QAM	36	0	19.41	19.51	19.37				
15	16QAM	36	20	19.45	19.46	19.24	20.5	1		
15	16QAM	36	39	19.03	19.24	19.23				
15	16QAM	75	0	19.24	19.29	19.25				
15	64QAM	1	0	18.60	18.52	18.64				
15	64QAM	1	37	18.60	18.58	18.60	20.5	1		
15	64QAM	1	74	18.57	18.55	18.58				
15	64QAM	36	0	17.50	17.58	17.58				
15	64QAM	36	20	17.56	17.53	17.61	19.5	2		
15	64QAM	36	39	17.52	17.57	17.62				
15	64QAM	75	0	17.51	17.51	17.56				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.43	20.56	20.46	21.5	0		
10	QPSK	1	25	20.26	20.42	20.27				
10	QPSK	1	49	20.35	20.42	20.33				
10	QPSK	25	0	20.39	20.58	20.52				
10	QPSK	25	12	20.33	20.45	20.24	21.5	0		
10	QPSK	25	25	20.35	20.44	20.26				
10	QPSK	50	0	20.48	20.65	20.44				
10	16QAM	1	0	20.56	20.59	20.51				
10	16QAM	1	25	20.28	20.51	20.32	21.5	0		
10	16QAM	1	49	20.25	20.39	20.25				
10	16QAM	25	0	19.35	19.44	19.40				
10	16QAM	25	12	19.17	19.28	19.17	20.5	1		
10	16QAM	25	25	19.06	19.26	19.17				
10	16QAM	50	0	19.20	19.23	19.31				
10	64QAM	1	0	18.60	18.51	18.67				
10	64QAM	1	25	18.56	18.53	18.62	20.5	1		
10	64QAM	1	49	18.58	18.62	18.58				
10	64QAM	25	0	17.53	17.62	17.63				
10	64QAM	25	12	17.56	17.50	17.61	19.5	2		
10	64QAM	25	25	17.53	17.58	17.57				
10	64QAM	50	0	17.52	17.50	17.67				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.45	20.57	20.53	21.5	0		
5	QPSK	1	12	20.26	20.53	20.38				
5	QPSK	1	24	20.30	20.30	20.30				
5	QPSK	12	0	20.40	20.58	20.46				
5	QPSK	12	7	20.26	20.42	20.32	21.5	0		
5	QPSK	12	13	20.28	20.38	20.25				
5	QPSK	25	0	20.40	20.61	20.46				
5	16QAM	1	0	20.44	20.60	20.50				
5	16QAM	1	12	20.31	20.52	20.34	21.5	0		
5	16QAM	1	24	20.36	20.37	20.34				
5	16QAM	12	0	19.31	19.44	19.39				
5	16QAM	12	7	19.12	19.28	19.21	20.5	1		
5	16QAM	12	13	19.01	19.28	19.26				
5	16QAM	25	0	19.17	19.27	19.24				
5	64QAM	1	0	18.59	18.55	18.58				
5	64QAM	1	12	18.56	18.59	18.64	20.5	1		
5	64QAM	1	24	18.61	18.58	18.59				
5	64QAM	12	0	17.53	17.61	17.57				
5	64QAM	12	7	17.56	17.54	17.63	19.5	2		
5	64QAM	12	13	17.54	17.55	17.57				
5	64QAM	25	0	17.51	17.54	17.69				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.46	20.61	20.48	21.5	0		
3	QPSK	1	8	20.33	20.47	20.29				
3	QPSK	1	14	20.31	20.46	20.31				
3	QPSK	8	0	20.40	20.60	20.49				
3	QPSK	8	4	20.33	20.50	20.28	21.5	0		
3	QPSK	8	7	20.21	20.42	20.22				
3	QPSK	15	0	20.49	20.62	20.53				
3	16QAM	1	0	20.43	20.56	20.48				
3	16QAM	1	8	20.30	20.49	20.30	21.5	0		
3	16QAM	1	14	20.26	20.43	20.32				
3	16QAM	8	0	19.39	19.53	19.40				
3	16QAM	8	4	19.16	19.27	19.22	20.5	1		
3	16QAM	8	7	19.03	19.21	19.27				
3	16QAM	15	0	19.16	19.33	19.25				
3	64QAM	1	0	18.54	18.53	18.55				
3	64QAM	1	8	18.65	18.56	18.63	20.5	1		
3	64QAM	1	14	18.59	18.57	18.60				
3	64QAM	8	0	17.56	17.63	17.60				
3	64QAM	8	4	17.51	17.52	17.55	19.5	2		
3	64QAM	8	7	17.50	17.55	17.57				
3	64QAM	15	0	17.54	17.53	17.62				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.43	20.52	20.43	21.5	0		
1.4	QPSK	1	3	20.34	20.48	20.27				
1.4	QPSK	1	5	20.33	20.34	20.23				
1.4	QPSK	3	0	20.40	20.61	20.50				
1.4	QPSK	3	1	20.32	20.47	20.28	21.5	0		
1.4	QPSK	3	3	20.25	20.44	20.30				
1.4	QPSK	6	0	20.45	20.58	20.50				
1.4	16QAM	1	0	20.25	20.48	20.26	21.5	0		
1.4	16QAM	1	5	20.40	20.44	20.27				
1.4	16QAM	1	5	20.40	20.63	20.54				
1.4	16QAM	3	0	20.50	20.63	20.47				
1.4	16QAM	3	1	20.25	20.45	20.31	20.5	1		
1.4	16QAM	3	3	20.31	20.38	20.26				
1.4	16QAM	6	0	19.16	19.34	19.16	20.5	1		
1.4	64QAM	1	0	18.51	18.51	18.67				
1.4	64QAM	1	3	18.53	18.55	18.58	20.5	1		
1.4	64QAM	1	5	18.50	18.60	18.59				
1.4	64QAM	3	0	18.51	18.54	18.56				
1.4	64QAM	3	1	18.53	18.51	18.54	19.5	2		
1.4	64QAM	3	3	18.58	18.51	18.56				
1.4	64QAM	6	0	17.59	17.57	17.60				

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Band 25 Ant4 NSA DSI6											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel							26140	26340	26590		
Frequency (MHz)							1850	1880	2010		
20	QPSK	1	0	20.06	20.19	20.18	21.5	0			
20	QPSK	1	49	20.06	20.19	20.18					
20	QPSK	1	99	20.04	20.10	20.08					
20	QPSK	50	0	20.10	20.25	20.18					
20	QPSK	50	24	20.09	20.09	20.11	21.5	0			
20	QPSK	50	50	20.07	20.23	20.12					
20	QPSK	100	0	20.05	20.08	20.07					
20	16QAM	1	0	20.09	20.21	20.14	21.5	0			
20	16QAM	1	49	20.09	20.04	20.11					
20	16QAM	1	99	20.09	20.09	20.07					
20	16QAM	50	0	19.24	19.32	19.22					
20	16QAM	50	24	19.01	19.22	19.07	20.5	1			
20	16QAM	50	50	19.02	19.28	19.08					
20	16QAM	100	0	19.01	19.23	19.03					
20	64QAM	1	0	19.42	19.51	19.36					
20	64QAM	1	49	19.26	19.34	19.26	20.5	1			
20	64QAM	1	99	19.37	19.46	19.39					
20	64QAM	50	0	18.24	18.34	18.29					
20	64QAM	50	24	18.24	18.25	18.25	19.5	2			
20	64QAM	50	50	18.07	18.34	18.13					
20	64QAM	100	0	18.25	18.20	18.08					
Channel							26115	26340	26615		
Frequency (MHz)							1857.5	1880	1907.5		
15	QPSK	1	0	20.20	20.24	20.18	21.5	0			
15	QPSK	1	37	20.08	20.22	20.15					
15	QPSK	1	74	20.08	20.07	20.10					
15	QPSK	38	0	20.14	20.25	20.20	21.5	0			
15	QPSK	38	20	20.09	20.14	20.17					
15	QPSK	38	39	20.10	20.21	20.19					
15	QPSK	75	0	20.04	20.05	20.08					
15	16QAM	1	0	20.06	20.22	20.19	21.5	0			
15	16QAM	1	37	20.04	20.08	20.13					
15	16QAM	1	74	20.10	20.25	20.00					
15	16QAM	38	0	19.20	19.29	19.18	20.5	1			
15	16QAM	38	20	19.10	19.19	19.23					
15	16QAM	38	39	19.23	19.26	19.18					
15	16QAM	75	0	19.01	19.21	19.04	20.5	1			
15	64QAM	1	0	19.28	19.30	19.33					
15	64QAM	1	37	19.10	19.17	19.13	19.5	2			
15	64QAM	1	74	19.35	19.23	19.16					
15	64QAM	38	0	18.20	18.30	18.16					
15	64QAM	38	20	18.13	18.14	18.00					
15	64QAM	38	39	18.01	18.18	18.04					
15	64QAM	75	0	18.01	18.04	18.05					
Channel							26300	26340	26640		
Frequency (MHz)							1855	1880	1910		
10	QPSK	1	0	20.11	20.23	20.20	21.5	0			
10	QPSK	1	25	20.10	20.03	20.11					
10	QPSK	1	49	20.08	20.10	20.11					
10	QPSK	25	0	20.11	20.22	20.13	21.5	0			
10	QPSK	25	12	20.02	20.18	20.13					
10	QPSK	25	25	20.04	20.19	20.16					
10	QPSK	50	0	20.09	20.06	20.07	21.5	0			
10	16QAM	1	0	20.09	20.23	20.15	21.5	0			
10	16QAM	1	25	20.10	20.04	20.08					
10	16QAM	1	49	20.09	20.13	20.20					
10	16QAM	25	0	19.20	19.31	19.23	20.5	1			
10	16QAM	25	12	19.20	19.23	19.02					
10	16QAM	25	25	19.18	19.28	19.17					
10	16QAM	50	0	19.00	19.21	19.05	20.5	1			
10	64QAM	1	0	19.15	19.38	19.14	20.5	1			
10	64QAM	1	25	19.10	19.33	19.25					
10	64QAM	1	49	19.24	19.36	19.06					
10	64QAM	25	0	18.19	18.17	18.20	19.5	2			
10	64QAM	25	12	18.19	18.26	18.09					
10	64QAM	25	25	18.16	18.16	18.21					
10	64QAM	50	0	18.20	18.25	18.09					
Channel							26665	26340	26665		
Frequency (MHz)							1852.5	1880	1912.5		
5	QPSK	1	0	20.07	20.24	20.13	21.5	0			
5	QPSK	1	12	20.09	20.19	20.12					
5	QPSK	1	24	20.08	20.18	20.12					
5	QPSK	12	0	20.05	20.06	20.11	21.5	0			
5	QPSK	12	7	20.03	20.14	20.22					
5	QPSK	12	13	20.01	20.21	20.21					
5	QPSK	25	0	20.08	20.20	20.16	21.5	0			
5	16QAM	1	0	20.05	20.05	20.07					
5	16QAM	1	12	20.06	20.21	20.15	21.5	0			
5	16QAM	1	24	20.06	20.06	20.05					
5	16QAM	12	0	19.21	19.20	19.22	20.5	1			
5	16QAM	12	7	19.04	19.22	19.04					
5	16QAM	12	13	19.24	19.27	19.21					
5	16QAM	25	0	19.02	19.20	19.01	20.5	1			
5	64QAM	1	0	19.28	19.40	19.09					
5	64QAM	1	12	19.11	19.31	19.07					
5	64QAM	1	24	19.41	19.40	19.16	19.5	2			
5	64QAM	12	0	18.31	18.15	18.08					
5	64QAM	12	7	18.16	18.20	18.13					
5	64QAM	12	13	18.10	18.14	18.08					
5	64QAM	25	0	18.17	18.04	18.00					
Channel							26655	26340	26655		
Frequency (MHz)							1860	1880	1913.9		
1.4	QPSK	1	0	20.10	20.18	20.20	21.5	0			
1.4	QPSK	1	3	20.10	20.08	20.12					
1.4	QPSK	1	5	20.22	20.16	20.17					
1.4	QPSK	3	0	20.25	20.16	20.12	21.5	0			
1.4	QPSK	3	1	20.04	20.19	20.19					
1.4	QPSK	3	3	20.05	20.11	20.08					
1.4	QPSK	6	0	20.14	20.21	20.16	21.5	0			
1.4	16QAM	1	0	20.05	20.14	20.17	21.5	0			
1.4	16QAM	1	3	20.03	20.23	20.23					
1.4	16QAM	1	5	20.06	20.23	20.19					
1.4	16QAM	3	0	20.08	20.07	20.11	21.5	0			
1.4	16QAM	3	1	20.06	20.19	20.15					
1.4	16QAM	3	3	20.03	20.07	20.09	20.5	1			
1.4	16QAM	6	0	19.15	19.27	19.18					
1.4	64QAM	1	0	19.43	19.39	19.37	20.5	1			
1.4	64QAM	1	3	19.23	19.22	19.10					
1.4	64QAM	1	5	19.40	19.22	19.21					
1.4	64QAM	3	0	19.30	19.31	19.22	19.5	2			
1.4	64QAM	3	1	19.13	19.28	19.21					
1.4	64QAM	3	3	19.35	19.27	19.23					
1.4	64QAM	6	0	18.18	18.19	18.22	19.5	2			

Band 30 Ant4 NSA DSI6											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel							2710				
Frequency (MHz)							2310				
10	QPSK	1	0	19.25	19.10	19.10	21	0			
10	QPSK	1	25	19.10	19.17	19.17					
10	QPSK	1	49	19.17	19.17	19.17					
10	QPSK	25	0	19.25	19.14	19.14	21	0			
10	QPSK	25	12	19.14	19.14	19.14					
10	QPSK	25	25	19.07	19.07	19.07					
10	QPSK	50	0	19.22	19.12	19.12					
10	16QAM	1	0	19.14	19.14	19.14	21	0			
10	16QAM	1	25	19.16	19.16	19.16					
10	16QAM	1	49	19.25	19.25	19.25					
10	16QAM	25	0	19.10	19.10	19.10	21	0			
10	16QAM	25	12	19.08	19.08	19.08					
10	16QAM	25	25	19.25	19.25	19.25					
10	16QAM	50	0	19.15	19.15	19.15					
10	64QAM	1	0	19.11	19.11	19.11	21	0			
10	64QAM	1	25	19.23	19.23	19.23					
10	64QAM	1	49	19.06	19.06	19.06			</		



Band 48 Ant5 NSA DSI6

Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55340	55830	56150	56640						
Frequency (MHz)	3560	3609	3641	3690					
20	QPSK	1	0	17.47	17.56	17.47	17.24	19	0
20	QPSK	1	49	17.34	17.24	17.43	17.21		
20	QPSK	1	99	17.19	17.12	17.20	17.18		
20	QPSK	50	0	17.12	17.36	17.13	17.30		
20	QPSK	50	24	17.10	17.14	17.03	17.14	19	0
20	QPSK	50	50	17.12	17.25	17.04	17.21		
20	QPSK	100	0	17.01	17.20	17.16	17.14		
20	QPSK	1	0	17.09	17.29	17.07	17.17		
20	16QAM	1	49	17.03	17.11	17.15	17.14	19	0
20	16QAM	1	99	17.10	17.13	17.05	17.07		
20	16QAM	50	0	17.17	17.28	17.05	17.11		
20	16QAM	50	24	17.00	17.15	17.06	17.12		
20	16QAM	50	50	17.20	17.18	17.26	17.03	19	0
20	16QAM	100	0	17.06	17.00	17.08	17.20		
20	64QAM	1	0	17.01	17.07	17.06	17.16		
20	64QAM	1	49	17.13	17.02	17.12	17.14		
20	64QAM	1	99	17.19	17.25	17.30	17.04	19	0
20	64QAM	50	0	17.07	17.36	17.02	17.03		
20	64QAM	50	24	17.25	17.12	17.11	17.14		
20	64QAM	50	50	17.17	17.09	17.08	17.08		
20	64QAM	100	0	17.07	17.02	17.17	17.16		
Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55815	55903	56160	56655						
Frequency (MHz)	3557.5	3608	3642	3692.5					
15	QPSK	1	0	17.25	17.47	17.35	17.14	19	0
15	QPSK	1	37	17.21	17.06	17.32	17.17		
15	QPSK	1	74	17.20	17.17	17.10	17.15		
15	QPSK	36	0	17.09	17.19	17.27	17.11		
15	QPSK	36	20	17.17	17.03	17.02	17.06	19	0
15	QPSK	36	39	17.10	17.02	17.13	17.03		
15	QPSK	75	0	17.13	17.14	17.03	17.03		
15	16QAM	1	0	17.04	17.21	17.12	17.08		
15	16QAM	1	37	17.09	17.12	17.05	17.02	19	0
15	16QAM	1	74	17.09	17.19	17.11	17.03		
15	16QAM	36	0	17.01	17.21	17.00	17.06		
15	16QAM	36	20	17.06	17.03	17.08	17.02		
15	16QAM	36	39	17.10	17.05	17.13	17.11	19	0
15	16QAM	75	0	17.03	17.17	17.03	17.03		
15	64QAM	1	0	17.06	17.15	17.15	17.10		
15	64QAM	1	37	17.08	17.12	17.03	17.03		
15	64QAM	1	74	17.13	17.20	17.06	17.06	19	0
15	64QAM	36	0	17.01	17.31	17.04	17.08		
15	64QAM	36	20	17.18	17.06	17.30	17.13		
15	64QAM	36	39	17.06	17.03	17.13	17.12		
15	64QAM	75	0	17.10	17.04	17.06	17.03		
Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55290	55815	56165	56690						
Frequency (MHz)	3555	3607.5	3642.5	3695					
10	QPSK	1	0	17.23	17.47	17.52	17.15	19	0
10	QPSK	1	25	17.32	17.06	17.16	17.12		
10	QPSK	1	49	17.09	17.14	17.14	17.04		
10	QPSK	25	0	17.14	17.15	17.18	17.22		
10	QPSK	25	12	17.10	17.11	17.13	17.12	19	0
10	QPSK	25	25	17.07	17.13	17.07	17.13		
10	QPSK	50	0	17.02	17.08	17.10	17.03		
10	16QAM	1	0	17.06	17.25	17.03	17.03		
10	16QAM	1	25	17.13	17.06	17.11	17.12	19	0
10	16QAM	1	49	17.01	17.12	17.11	17.04		
10	16QAM	25	0	17.12	17.15	17.03	17.04		
10	16QAM	25	12	17.06	17.03	17.01	17.01		
10	16QAM	25	25	17.22	17.05	17.21	17.04	19	0
10	16QAM	50	0	17.04	17.06	17.11	17.16		
10	64QAM	1	0	17.10	17.01	17.06	17.03		
10	64QAM	1	25	17.06	17.02	17.19	17.02		
10	64QAM	1	49	17.04	17.11	17.19	17.16	19	0
10	64QAM	25	0	17.02	17.11	17.02	17.06		
10	64QAM	25	12	17.01	17.12	17.04	17.00		
10	64QAM	25	25	17.06	17.10	17.04	17.03		
10	64QAM	50	0	17.06	17.05	17.17	17.12		
Channel	Channel	Channel	Channel	Tune-up limit (dBm)	MPR (dB)				
55265	55810	56170	56715						
Frequency (MHz)	3562.5	3607	3643	3697.5					
5	QPSK	1	0	17.34	17.49	17.39	17.07	19	0
5	QPSK	1	12	17.26	17.09	17.22	17.02		
5	QPSK	1	24	17.14	17.04	17.16	17.13		
5	QPSK	12	0	17.09	17.27	17.01	17.27		
5	QPSK	12	7	17.09	17.08	17.02	17.10	19	0
5	QPSK	12	13	17.03	17.17	17.00	17.22		
5	QPSK	25	0	17.01	17.06	17.12	17.05		
5	16QAM	1	0	17.03	17.17	17.09	17.04		
5	16QAM	1	12	17.03	17.04	17.12	17.08	19	0
5	16QAM	1	24	17.04	17.00	17.06	17.09		
5	16QAM	12	0	17.10	17.11	17.04	17.12		
5	16QAM	12	7	17.05	17.12	17.05	17.01		
5	16QAM	12	13	17.15	17.07	17.16	17.12	19	0
5	16QAM	25	0	17.00	17.03	17.12	17.10		
5	64QAM	1	0	17.07	17.12	17.02	17.07		
5	64QAM	1	12	17.04	17.03	17.12	17.06		
5	64QAM	1	24	17.15	17.09	17.08	17.00	19	0
5	64QAM	12	0	17.11	17.26	17.09	17.15		
5	64QAM	12	7	17.06	17.19	17.06	17.02		
5	64QAM	12	13	17.01	17.00	17.04	17.05		
5	64QAM	25	0	17.12	17.12	17.17	17.19		



Uplink CA Full Power

CA_5B Ant0								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.28	24.00
20476	20575	QPSK	1	49	1	0	22.34	24.00
20600	20501	QPSK	1	0	1	49	22.25	24.00

CA_5B Ant4								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.16	24.00
20476	20575	QPSK	1	49	1	0	22.20	24.00
20600	20501	QPSK	1	0	1	49	22.11	24.00

CA_66C Ant0								
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		
132072	132270	QPSK	1	99	1	0	22.32	24.00
132322	132520	QPSK	1	99	1	0	22.40	24.00
132572	132374	QPSK	1	0	1	99	22.22	24.00

CA_66B Ant0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.38	24.00
132322	132415	QPSK	1	74	1	0	22.37	24.00
132597	132504	QPSK	1	0	1	74	22.25	24.00

CA_66C Ant4								
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		
132072	132270	QPSK	1	99	1	0	20.95	22.50
132322	132520	QPSK	1	99	1	0	21.10	22.50
132572	132374	QPSK	1	0	1	99	20.89	22.50

CA_66B Ant4								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132245	QPSK	1	74	1	0	20.83	22.50
132322	132520	QPSK	1	74	1	0	21.02	22.50
132597	132399	QPSK	1	0	1	74	20.98	22.50

CA_41C Ant1								
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	22.18	24
40185	40383	QPSK	1	99	1	0	22.21	24
40620	40818	QPSK	1	99	1	0	22.30	24
41055	41253	QPSK	1	99	1	0	22.09	24
41490	41292	QPSK	1	0	1	99	22.16	24

CA_41C HPUE Ant1								
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	25.12	27
40185	40383	QPSK	1	99	1	0	25.07	27
40620	40818	QPSK	1	99	1	0	25.23	27
41055	41253	QPSK	1	99	1	0	25.15	27
41490	41292	QPSK	1	0	1	99	25.18	27

CA_48C Ant5								
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		
55340	55538	QPSK	1	99	1	0	22.26	24
55830	56028	QPSK	1	99	1	0	22.31	24
56640	56442	QPSK	1	0	1	99	22.20	24

CA_48B Ant5								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55315	55408	QPSK	1	74	1	0	22.25	24
55820	55913	QPSK	1	74	1	0	22.27	24
56665	56572	QPSK	1	0	1	74	22.23	24



Uplink CA Reduced Power

SA Sensor		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	16.82	18.50	
132322	132520	QPSK	1	99	1	0	17.00	18.50	
132372	132374	QPSK	1	0	1	99	16.86	18.50	

SA Handheld		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	20.28	22.00	
132322	132520	QPSK	1	99	1	0	20.47	22.00	
132372	132374	QPSK	1	0	1	99	20.25	22.00	

SA Hotspot		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	15.20	17.00	
132322	132520	QPSK	1	99	1	0	15.42	17.00	
132372	132374	QPSK	1	0	1	99	15.42	17.00	

NSA Sensor		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	13.71	15.50	
132322	132520	QPSK	1	99	1	0	13.90	15.50	
132372	132374	QPSK	1	0	1	99	13.88	15.50	

NSA Handheld		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	17.86	19.50	
132322	132520	QPSK	1	99	1	0	18.04	19.50	
132372	132374	QPSK	1	0	1	99	17.90	19.50	

NSA Hotspot		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	12.31	14.00	
132322	132520	QPSK	1	99	1	0	12.50	14.00	
132372	132374	QPSK	1	0	1	99	12.36	14.00	

SA Receiver		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	20.57	22.00	
132322	132520	QPSK	1	99	1	0	20.63	22.00	
132372	132374	QPSK	1	0	1	99	20.38	22.00	

SA Hotspot&Sensor&NSA Handheld		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	20.18	21.50	
132322	132520	QPSK	1	99	1	0	20.15	21.50	
132372	132374	QPSK	1	0	1	99	20.20	21.50	

NSA Receiver&Sensor&Hotspot		CA_60C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	17.95	19.50	
132322	132520	QPSK	1	99	1	0	18.12	19.50	
132372	132374	QPSK	1	0	1	99	17.87	19.50	

SA Hotspot&Sensor		CA_41C Ant1							
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	17.71	19.5	
40185	40383	QPSK	1	99	1	0	17.73	19.5	
40620	40818	QPSK	1	99	1	0	17.90	19.5	
41055	41253	QPSK	1	99	1	0	17.85	19.5	
41490	41292	QPSK	1	0	1	99	17.71	19.5	

SA Handheld		CA_41C Ant1							
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	19.25	21	
40185	40383	QPSK	1	99	1	0	19.21	21	
40620	40818	QPSK	1	99	1	0	19.41	21	
41055	41253	QPSK	1	99	1	0	19.24	21	
41490	41292	QPSK	1	0	1	99	19.25	21	

SA Receiver		CA_49C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
55340	55638	QPSK	1	99	1	0	16.28	18	
55830	56028	QPSK	1	99	1	0	16.45	18	
56640	56442	QPSK	1	0	1	99	16.16	18	

SA Hotspot&Sensor		CA_49C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
55340	55638	QPSK	1	99	1	0	16.89	18.5	
55830	56028	QPSK	1	99	1	0	17.00	18.5	
56640	56442	QPSK	1	0	1	99	16.57	18.5	

SA Handheld		CA_49C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
55340	55638	QPSK	1	99	1	0	20.93	22.5	
55830	56028	QPSK	1	99	1	0	21.05	22.5	
56640	56442	QPSK	1	0	1	99	21.04	22.5	

NSA Receiver		CA_49C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
55340	55638	QPSK	1	99	1	0	12.34	14	
55830	56028	QPSK	1	99	1	0	12.63	14	
56640	56442	QPSK	1	0	1	99	12.11	14	

NSA Hotspot&Sensor		CA_49C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
55340	55638	QPSK	1	99	1	0	12.89	14.5	
55830	56028	QPSK	1	99	1	0	13.05	14.5	
56640	56442	QPSK	1	0	1	99	12.68	14.5	

NSA Handheld		CA_49C Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
55340	55638	QPSK	1	99	1	0	17.34	19	
55830	56028	QPSK	1	99	1	0	17.46	19	
56640	56442	QPSK	1	0	1	99	17.15	19	

SA Sensor		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	16.79	18.50	
132322	132415	QPSK	1	74	1	0	17.00	18.50	
132597	132594	QPSK	1	0	1	24	16.83	18.50	

SA Handheld		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	20.27	22.00	
132322	132415	QPSK	1	74	1	0	20.42	22.00	
132597	132594	QPSK	1	0	1	24	20.46	22.00	

SA Hotspot		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	15.14	17.00	
132322	132415	QPSK	1	74	1	0	15.39	17.00	
132597	132594	QPSK	1	0	1	24	15.38	17.00	

NSA Sensor		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	13.73	15.50	
132322	132415	QPSK	1	74	1	0	13.93	15.50	
132597	132594	QPSK	1	0	1	24	13.86	15.50	

NSA Handheld		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	17.74	19.50	
132322	132415	QPSK	1	74	1	0	17.94	19.50	
132597	132594	QPSK	1	0	1	24	17.81	19.50	

NSA Hotspot		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	12.13	14.00	
132322	132415	QPSK	1	74	1	0	12.48	14.00	
132597	132594	QPSK	1	0	1	24	12.29	14.00	

SA Receiver		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	20.50	22.00	
132322	132415	QPSK	1	74	1	0	20.58	22.00	
132597	132594	QPSK	1	0	1	24	20.31	22.00	

SA Hotspot&Sensor&NSA Handheld		CA_68B Ant1							
PCC Channel	SCC Channel	Modulation	PCC</						



2CA DL

CA List	PCC										SCC					Power	
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA		
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Configuratio n	Band	(MHz)	Freq. (MHz)	Channel	Configuratio n	Tx. Power (dBm)	Tx. Power (dBm)	
CA_2A-29A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		22.27	22.40	
	Band 2	Ant4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		21.48	21.61	
CA_4A-17A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		22.45	22.56	
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		21.26	21.43	
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.25	22.40	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.71	22.85	
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.23	22.43	
CA_5A-30A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	22.33	22.40	
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.64	22.79	
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.22	22.40	
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.40	22.50	
CA_7B	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.75	22.85	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		22.64	22.85	
CA_7A-12A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.24	22.44	
	Band 12	Ant4	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.12	22.30	
CA_7A-25A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	22.66	22.85	
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.24	22.41	
CA_25A-66A	Band 25	Ant4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.06	21.24	
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.29	22.41	
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	22.48	22.61	
	Band 25	Ant4	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.14	21.24	
CA_29A-30A	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	21.21	21.29	
	Band 30	Ant1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		22.61	22.79	
CA_29A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		22.52	22.61	
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		21.12	21.29	
CA_48B	Band 48	Ant5	10M	3607.5	55815	QPSK	1	0	4x4MIMO	Band 48	10M	3617	55914	4x4MIMO	22.48	22.67	
CA_4A-48A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.49	22.56	
	Band 48	Ant5	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.61	22.67	
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.38	21.43	
CA_7A-71A	Band 48	Ant5	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.64	22.67	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		22.78	22.85	
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.39	22.44	
Band 71	Ant4	20M	683	133322	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.41	22.48		



3CA DL

3CA List	PCC												SCC1				SCC2				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	With CA	Without CA	
	Band	Ant	(MHz)	Freq.	Channel	Mod.	RB	RB	Offset	Band	(MHz)	Freq.	Channel	Offset	Band	(MHz)	Freq.	Channel	Offset	(dBm)	(dBm)	
CA_2A-2A-4A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.25	22.40	
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.37	22.56	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	21.45	21.61	
CA_2A-2A-5A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.22	22.40	
	Band 5	An0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.29	22.40	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.45	21.61	
CA_2A-2A-7A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.22	22.40	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.42	21.61	
	Band 7	An1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.72	22.85	
CA_2A-2A-12A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	22.29	22.40	
	Band 12	An0	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.35	22.44	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	21.51	21.61	
CA_2A-2A-13A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.26	22.40	
	Band 13	An0	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.32	22.51	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	21.45	21.61	
CA_2A-2A-14A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	740	5330	4x4MIMO	22.22	22.40	
	Band 14	An0	10M	793	23330	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	21.41	21.61	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	740	5330	4x4MIMO	22.38	22.48	
CA_2A-2A-30A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.30	22.40	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	21.54	21.61	
	Band 30	An1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.71	22.79	
CA_2C-66A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.31	22.40	
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	22.53	22.61	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.52	21.61	
CA_2A-2A-66A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.28	22.40	
	Band 66	An0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.50	22.61	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.45	21.61	
CA_2A-2A-71A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.31	22.40	
	Band 71	An0	20M	683	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.24	22.44	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	21.53	21.61	
CA_2A-4A-4A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.36	22.48	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.30	22.40	
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.41	22.56	
CA_2A-4A-5A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	21.43	21.61	
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	21.34	21.43	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.21	22.40	
CA_2A-4A-7A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.39	22.56	
	Band 5	An0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.18	22.40	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.54	21.61	
CA_2A-4A-12A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.42	22.56	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.47	21.61	
	Band 7	An1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.24	21.43	
CA_2A-4A-13A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.64	22.85	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.24	21.43	
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.64	22.85	
CA_2A-4A-30A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	22.19	22.40	
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.46	22.56	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.32	22.44	
CA_2A-4A-48A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	21.43	21.61	
	Band 4	An0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.25	21.43	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.29	22.40	
CA_2A-5A-48A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.41	22.56	
	Band 13	An0	10M	782	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.35	22.51	
	Band 2	An4	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	21.41	21.61	
CA_2A-5A-66A	Band 2	An0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.30	21.43	
	Band 13	An0	10M																			



CA_2A-12A-66A	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	68886	4x4MIMO	22.29	22.40
	Band 12	An10	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 2	10M	1960	900	4x4MIMO	22.30	22.44
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		22.47	22.61
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	68886	4x4MIMO	21.47	21.61
	Band 12	An14	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.20	22.30
CA_2A-13A-48A	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		21.18	21.29
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	22.22	22.40
	Band 13	An10	10M	752	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.30	22.51
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	21.49	21.61
	Band 13	An14	10M	752	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.31	22.48
CA_2A-13A-66A	Band 48	An15	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.60	22.67
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	68886	4x4MIMO	22.20	22.40
	Band 13	An10	10M	752	23230	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.43	22.51
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.45	22.61
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	68886	4x4MIMO	21.51	21.61
CA_2A-14A-30A	Band 13	An14	10M	752	23230	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.35	22.48
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		21.18	21.29
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		22.24	22.40
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	21.45	21.61
	Band 14	An10	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.37	22.48
CA_2A-14A-66A	Band 30	An11	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		22.58	22.79
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	68886	4x4MIMO	22.29	22.40
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	68886	4x4MIMO	21.48	21.61
	Band 14	An10	10M	793	23330	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.38	22.48
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		22.52	22.61
CA_2A-29A-30A	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		21.11	21.29
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	22.24	22.40
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	21.46	21.61
	Band 30	An11	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 29	10M	722.5	9715		22.60	22.79
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.27	22.40
CA_2A-30A-66A	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	21.43	21.61
	Band 30	An11	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.68	22.79
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.44	22.61
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	21.20	21.29
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.32	22.40
CA_2A-48C	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	21.51	21.61
	Band 48	An15	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.46	22.67
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.32	22.40
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	21.53	21.61
	Band 48	An15	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.48	22.67
CA_2A-48A-66A	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.44	22.61
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.08	21.29
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	15M	2154.3	68779	4x4MIMO	Band 66	5M	2164.3	69779	4x4MIMO	22.29	22.40
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	15M	2154.3	68779	4x4MIMO	Band 66	5M	2164.3	69779	4x4MIMO	21.49	21.61
	Band 66	An14	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	68779	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.18	21.29
CA_2A-66C	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.32	22.40
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.52	22.61
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	21.40	21.61
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.18	21.29
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.30	22.40
CA_2A-66A-66A	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.45	22.61
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	21.54	21.61
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.14	21.29
	Band 2	An10	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.18	22.40
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.41	22.61
CA_2A-66A-71A	Band 71	An10	20M	683	68786	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.32	22.44
	Band 2	An14	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	21.53	21.61
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.15	21.29
	Band 71	An14	20M	683	68786	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.36	22.48
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.43	22.56
CA_4A-4A-5A	Band 5	An10	10M	836.5	20525	QPSK	1	0		Band 4	5M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.24	22.40
	Band 4	An14	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.23	21.43
	Band 5	An14	10M	836.5	20525	QPSK	1	0		Band 4	5M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.24	22.43
	Band 4	An10	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		22.46	22.56
	Band 12	An10	10M	707.5	23095	QPSK	1	0		Band 4	5M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.35	22.44
CA_4A-4A-12A	Band 4	An14	20M	1732.5	20175																



CA_5A-48A-66A	Band 5	An10	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.20	22.40	
	Band 5	An14	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.26	22.43	
	Band 48	An15	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 5	10M	881.5	2525			22.48	22.67
CA_5A-66B	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	22.47	22.61	
	Band 5	An10	10M	836.5	20525	QPSK	1	0		Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	21.12	21.29	
	Band 66	An14	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525			22.42	22.61
CA_5A-66C	Band 5	An10	10M	836.5	20525	QPSK	1	0		Band 66	5M	2154.3	66879	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	22.23	22.43	
	Band 66	An14	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525			21.21	21.29
	Band 5	An10	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.20	22.40	
CA_5A-66A-66A	Band 5	An10	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 5	10M	881.5	2525			22.45	22.61
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.29	22.43	
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525			21.07	21.29
CA_7C-13A	Band 5	An10	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.25	22.40	
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525			22.44	22.61
	Band 5	An14	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.29	22.43	
CA_7C-66A	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525			21.21	21.29
	Band 7	An11	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 13	10M	751	5230			22.76	22.85
	Band 13	An10	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.33	22.51	
CA_7C-7A-66A	Band 13	An14	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.37	22.48	
	Band 7	An11	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.68	22.85	
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.52	22.61	
CA_12A-30A-66A	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	21.20	21.29	
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.49	22.61	
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	21.13	21.29	
CA_12A-66A	Band 7	An11	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.69	22.85	
	Band 12	An10	10M	707.5	23995	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.37	22.44	
	Band 12	An14	10M	707.5	23995	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.18	22.30	
CA_12A-66A-66A	Band 30	An11	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 12	10M	737.5	5095			22.64	22.79
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	22.48	22.61	
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	21.15	21.29	
CA_12A-66C	Band 12	An10	10M	707.5	23995	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.27	22.44	
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 12	10M	737.5	5095			22.54	22.61
	Band 12	An14	10M	707.5	23995	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.21	22.30	
CA_12A-66A-66A	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 12	10M	737.5	5095			21.14	21.29
	Band 12	An10	10M	707.5	23995	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.25	22.44	
	Band 12	An14	10M	707.5	23995	QPSK	1	0		Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095			22.49	22.61
CA_12B-66A	Band 12	An10	10M	707.5	23995	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.17	22.30	
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095			21.12	21.29
	Band 12	An10	10M	707.5	23995	QPSK	1	0		Band 12	5M	743.5	5155		Band 66	20M	2155	68886	4x4MIMO	22.24	22.44	
CA_12A-48C	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	5M	743.5	5155		Band 12	5M	743.5	5155			22.44	22.61
	Band 12	An14	10M	707.5	23995	QPSK	1	0		Band 12	5M	743.5	5155		Band 66	20M	2155	68886	4x4MIMO	22.23	22.30	
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155			21.20	21.29
CA_13A-48C	Band 12	An10	10M	707.5	23995	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.32	22.44	
	Band 12	An14	10M	707.5	23995	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.13	22.30	
	Band 48	An15	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 12	10M	737.5	5095			22.52	22.67
CA_13A-48A-66A	Band 13	An10	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.30	22.51	
	Band 48	An15	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.35	22.48	
	Band 13	An14	10M	782	23230	QPSK	1	0		Band 48	20M	3628.8	56028	4x4MIMO	Band 13	10M	751	5230			22.55	22.67
CA_13A-66B	Band 48	An15	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.32	22.51	
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	22.32	22.48	
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 13	10M	751	5230			22.55	22.67
CA_13A-66C	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	22.40	22.61	
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	21.12	21.29	
	Band 13	An10	10M	782	23230	QPSK	1	0		Band 66	15M	2155	68886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.37	22.51	
CA_13A-66A-66A	Band 66	An10	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 13	10M	751	5230			22.52	22.61
	Band 13	An14	10M	782	23230	QPSK	1	0		Band 66	15M	2155	68886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.41	22.48	
	Band 66	An14	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 13	10M	751	5230			21.22	21.29
CA_14A-66A-66A	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.38	22.51	
	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 13	10M	751	5230			22.41	22.61
	Band 13	An10	10M	782	23230	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.27	22.48	
CA_14A-66A-66A	Band 66	An14	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 13	10M	751	5230			21.21	21.29
	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.41	22.51	
	Band 13	An10	10M	782	23230	QPSK	1	0		Band 66	5M	2197.5	67311	4x4MIMO	Band 13	10M	751	5230			22.42	22.61
CA_25A-25A-26A	Band 66	An10	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	68886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO			



Full Power Mode for 5GNR

n2 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				373000	376000	379000			
30	PI2 BPSK	1	1	22.45	22.45	22.52			
30	PI2 BPSK	1	80	22.81	22.87	22.75	24.0	0.0	
30	PI2 BPSK	1	158	22.44	22.49	22.38			
30	PI2 BPSK	80	0	22.82	22.89	22.55	23.5	0.5	
30	PI2 BPSK	80	40	22.83	22.77	22.68	24.0	0.0	
30	PI2 BPSK	80	80	22.45	22.54	22.40			
30	PI2 BPSK	160	0	22.51	22.60	22.47	23.5	0.5	
30	QPSK	1	1	22.78	22.90	22.81			
30	QPSK	1	80	22.74	22.90	22.82	24.0	0.0	
30	QPSK	1	158	22.27	22.42	22.30			
30	QPSK	80	0	22.57	22.66	22.59	23.0	1.0	
30	QPSK	80	40	22.84	22.72	22.57	24.0	0.0	
30	QPSK	80	80	22.39	22.51	22.38	23.0	1.0	
30	QPSK	160	0	22.83	22.68	22.58			
30	16QAM	1	1	22.14	22.22	22.17	23.0	1.0	
30	64QAM	1	1	22.13	22.17	22.07	21.5	2.5	
30	256QAM	1	1	21.53	21.81	21.49	19.5	4.5	
Channel									
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	22.72	22.85	22.58	24.0	0.0	
Channel									
Frequency (MHz)				373000	376000	380000			
20	PI2 BPSK	1	1	22.35	22.38	22.29			
20	PI2 BPSK	1	53	22.72	22.85	22.74	24.0	0.0	
20	PI2 BPSK	1	104	22.41	22.39	22.36			
20	PI2 BPSK	50	0	22.55	22.81	22.90	23.5	0.5	
20	PI2 BPSK	50	28	22.83	22.75	22.63	24.0	0.0	
20	PI2 BPSK	50	56	22.39	22.51	22.32	23.5	0.5	
20	PI2 BPSK	100	0	22.50	22.56	22.41			
20	QPSK	1	1	22.74	22.82	22.60			
20	QPSK	1	53	22.70	22.89	22.62	24.0	0.0	
20	QPSK	1	104	22.20	22.35	22.23			
20	QPSK	50	0	22.48	22.59	22.50	23.0	1.0	
20	QPSK	50	28	22.84	22.68	22.52	24.0	0.0	
20	QPSK	50	56	22.31	22.47	22.33	23.0	1.0	
20	QPSK	100	0	22.55	22.59	22.53			
20	16QAM	1	1	22.07	22.16	22.15	23.0	1.0	
20	64QAM	1	1	22.07	22.15	22.01	21.5	2.5	
20	256QAM	1	1	21.83	21.80	21.48	19.5	4.5	
Channel									
Frequency (MHz)				371500	376000	385000			
15	QPSK	1	1	22.70	22.85	22.56	24.0	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	22.68	22.89	22.50	24.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.74	22.81	22.56	24.0	0.0	

n5 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				167300					
25	PI2 BPSK	1	1	22.52					
25	PI2 BPSK	1	80	22.73			24.0	0.0	
25	PI2 BPSK	1	158	22.69					
25	PI2 BPSK	80	0	22.37			23.5	0.5	
25	PI2 BPSK	80	40	22.78			24.0	0.0	
25	PI2 BPSK	80	80	22.43			23.5	0.5	
25	PI2 BPSK	160	0	22.47					
25	QPSK	1	1	22.76					
25	QPSK	1	80	22.70			24.0	0.0	
25	QPSK	1	158	22.65					
25	QPSK	80	0	21.89			23.0	1.0	
25	QPSK	80	40	22.90			24.0	0.0	
25	QPSK	80	80	21.91			23.0	1.0	
25	QPSK	160	0	21.98					
25	16QAM	1	1	21.23			23.0	1.0	
25	64QAM	1	1	19.75			21.5	2.5	
25	256QAM	1	1	18.44			19.5	4.5	
Channel									
Frequency (MHz)				168800	167300	167900			
20	PI2 BPSK	1	1	22.47	22.49	22.37			
20	PI2 BPSK	1	53	22.84	22.68	22.56	24.0	0.0	
20	PI2 BPSK	1	104	22.50	22.80	22.54			
20	PI2 BPSK	50	0	22.15	22.36	22.14	23.5	0.5	
20	PI2 BPSK	50	28	22.64	22.73	22.66	24.0	0.0	
20	PI2 BPSK	50	56	22.22	22.36	22.31	23.5	0.5	
20	PI2 BPSK	100	0	22.30	22.43	22.36			
20	QPSK	1	1	22.56	22.67	22.57			
20	QPSK	1	53	22.61	22.66	22.55	24.0	0.0	
20	QPSK	1	104	22.52	22.58	22.51			
20	QPSK	50	0	21.67	21.86	21.77	23.0	1.0	
20	QPSK	50	28	22.70	22.87	22.81	24.0	0.0	
20	QPSK	50	56	21.81	21.91	21.75	23.0	1.0	
20	QPSK	100	0	21.88	21.95	21.79			
20	16QAM	1	1	21.05	21.17	21.12	23.0	1.0	
20	64QAM	1	1	19.84	19.89	19.63	21.5	2.5	
20	256QAM	1	1	18.34	18.36	18.33	19.5	4.5	
Channel									
Frequency (MHz)				168300	167300	168300			
15	QPSK	1	1	22.58	22.65	22.68	24.0	0.0	
Channel									
Frequency (MHz)				168800	167300	168800			
10	QPSK	1	1	22.68	22.82	22.51	24.0	0.0	
Channel									
Frequency (MHz)				168300	167300	168300			
5	QPSK	1	1	22.67	22.67	22.72	24.0	0.0	

n12 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				141300	141500	141700			
15	PI2 BPSK	1	1	22.77	22.83	22.74			
15	PI2 BPSK	1	40	22.76	22.79	22.69	24.0	0.0	
15	PI2 BPSK	1	77	22.66	22.70	22.58			
15	PI2 BPSK	36	0	22.26	22.32	22.23	23.5	0.5	
15	PI2 BPSK	36	25	22.74	22.80	22.71	24.0	0.0	
15	PI2 BPSK	36	43	22.18	22.33	22.20	23.5	0.5	
15	PI2 BPSK	76	0	22.28	22.36	22.29			
15	QPSK	1	1	22.85	22.87	22.82			
15	QPSK	1	40	22.67	22.75	22.61	24.0	0.0	
15	QPSK	1	77	22.63	22.68	22.58			
15	QPSK	36	0	21.73	21.79	21.67	23.0	1.0	
15	QPSK	36	22	22.76	22.83	22.79	24.0	0.0	
15	QPSK	36	43	21.79	21.84	21.79	23.0	1.0	
15	QPSK	76	0	21.87	21.88	21.83			
15	16QAM	1	1	21.24	21.36	21.30	23.0	1.0	
15	64QAM	1	1	19.99	20.07	19.99	21.5	2.5	
15	256QAM	1	1	18.56	18.65	18.61	19.5	4.5	
Channel									
Frequency (MHz)				142800	141500	142200			
10	QPSK	1	1	22.77	22.76	22.77	24.0	0.0	
Channel									
Frequency (MHz)				142300	141500	142700			
5	QPSK	1	1	22.72	22.76	22.70	24.0	0.0	



n14 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.50	22.50	22.50			
10	PI2 BPSK	1	25	22.52			24.0	0.0	
10	PI2 BPSK	1	50	22.44					
10	PI2 BPSK	25	0	22.12			23.5	0.5	
10	PI2 BPSK	25	14	22.26			24.0	0.0	
10	PI2 BPSK	25	27	21.94			23.5	0.5	
10	PI2 BPSK	50	0	22.01					
10	QPSK	1	1	22.58					
10	QPSK	1	26	22.53			24.0	0.0	
10	QPSK	1	50	22.47					
10	QPSK	25	0	21.58			23.0	1.0	
10	QPSK	25	14	22.55			24.0	0.0	
10	QPSK	25	27	21.43			23.0	1.0	
10	QPSK	50	0	21.50					
10	16QAM	1	1	21.29			23.0	1.0	
10	64QAM	1	1	19.84			21.5	2.5	
10	256QAM	1	1	18.54			19.5	4.5	
Channel				159.100	159.000	159.100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.44	22.53	22.47	24.0	0.0	

n25 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.73	22.73	22.73			
40	PI2 BPSK	1	108	22.76	22.85	22.80	24.0	0.0	
40	PI2 BPSK	1	214	22.05	22.07	22.02			
40	PI2 BPSK	108	0	22.55	22.60	22.52	24.0	0.0	
40	PI2 BPSK	108	54	22.73	22.79	22.72	24.0	0.0	
40	PI2 BPSK	108	108	22.53	22.68	22.55	24.0	0.0	
40	PI2 BPSK	216	0	22.53	22.65	22.61			
40	QPSK	1	1	22.76	22.80	22.75			
40	QPSK	1	108	22.71	22.89	22.79	24.0	0.0	
40	QPSK	1	214	22.07	22.15	22.13			
40	QPSK	108	0	22.45	22.58	22.45	23.0	1.0	
40	QPSK	108	54	22.59	22.72	22.69	24.0	0.0	
40	QPSK	108	108	22.59	22.64	22.63			
40	QPSK	216	0	22.64	22.69	22.63	23.0	1.0	
40	16QAM	1	1	21.71	21.79	21.69	23.0	1.0	
40	64QAM	1	1	21.62	21.74	21.65	23.0	1.0	
40	256QAM	1	1	21.02	21.09	20.95	22.0	2.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.85	22.83	22.82	24.0	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.62	22.78	22.67	24.0	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1905			
20	QPSK	1	1	22.67	22.81	22.71	24.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1875	1892.5	1907.5			
15	QPSK	1	1	22.67	22.80	22.71	24.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	22.64	22.75	22.69	24.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	22.68	22.79	22.65	24.0	0.0	

n26 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.61	22.73	22.65			
20	PI2 BPSK	1	53	22.61	22.69	22.65	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.67	22.54			
20	PI2 BPSK	50	0	22.07	22.14	22.08	23.5	0.5	
20	PI2 BPSK	50	28	22.54	22.66	22.61	24.0	0.0	
20	PI2 BPSK	50	56	22.24	22.29	22.17	23.5	0.5	
20	PI2 BPSK	100	0	22.24	22.35	22.28			
20	QPSK	1	1	22.73	22.76	22.69			
20	QPSK	1	53	22.57	22.69	22.54	24.0	0.0	
20	QPSK	1	104	22.53	22.64	22.52			
20	QPSK	50	0	21.64	21.67	21.61	23.0	1.0	
20	QPSK	50	28	22.66	22.75	22.71	24.0	0.0	
20	QPSK	50	56	21.70	21.79	21.68			
20	QPSK	100	0	21.74	21.82	21.62	23.0	1.0	
20	16QAM	1	1	21.21	21.30	21.16	23.0	1.0	
20	64QAM	1	1	19.68	19.74	19.71	21.5	2.5	
20	256QAM	1	1	18.41	18.48	18.38	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.59	22.67	22.62	#REF!	0.0	
Channel				163500	165500	166500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.59	22.63	22.58	#REF!	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.67	22.72	22.59	#REF!	0.0	



n66 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				340000	349000	352000		
Frequency (MHz)								
40	PI2 BPSK	1	1	23.06	23.11	22.99		
40	PI2 BPSK	1	108	23.04	23.10	23.12	24.0	0.0
40	PI2 BPSK	1	214	23.12	23.15	23.09		
40	PI2 BPSK	108	0	22.41	22.47	22.42	24.0	0.0
40	PI2 BPSK	108	54	22.84	22.89	22.82	24.0	0.0
40	PI2 BPSK	108	108	22.38	22.43	22.37	24.0	0.0
40	PI2 BPSK	216	0	22.43	22.46	22.32		
40	QPSK	1	1	23.02	23.15	23.04		
40	QPSK	1	108	23.08	23.20	23.06	24.0	0.0
40	QPSK	1	214	23.05	23.05	23.06		
40	QPSK	108	0	22.31	22.42	22.28	23.0	1.0
40	QPSK	108	54	22.80	22.84	22.74	24.0	0.0
40	QPSK	108	108	22.68	22.69	22.60	23.0	1.0
40	QPSK	216	0	22.65	22.72	22.66		
40	16QAM	1	1	21.81	21.93	21.86	23.0	1.0
40	64QAM	1	1	21.75	21.87	21.78	23.0	1.0
40	256QAM	1	1	21.10	21.21	21.15	23.0	2.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	22.87	23.11	22.96	24.0	0.0
Channel				340500	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
25	QPSK	1	1	22.99	23.07	23.01	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	22.94	23.09	22.97	24.0	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	22.97	23.00	22.93	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	22.88	23.04	22.98	24.0	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	22.92	23.01	22.95	24.0	0.0

n70 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				340000	340500	341000		
Frequency (MHz)								
15	PI2 BPSK	1	1	22.63	22.65	22.63		
15	PI2 BPSK	1	40	22.55	22.55	22.55	24.0	0.0
15	PI2 BPSK	1	77	22.40	22.40	22.40		
15	PI2 BPSK	36	0	22.44	22.44	22.44	24.0	0.0
15	PI2 BPSK	36	22	22.51	22.51	22.51	24.0	0.0
15	PI2 BPSK	36	43	22.64	22.64	22.64	24.0	0.0
15	PI2 BPSK	75	0	22.50	22.50	22.50		
15	QPSK	1	1	22.73	22.73	22.73		
15	QPSK	1	40	22.51	22.51	22.51	24.0	0.0
15	QPSK	1	77	22.44	22.44	22.44		
15	QPSK	36	0	22.38	22.38	22.38	24.0	0.0
15	QPSK	36	22	22.70	22.70	22.70	24.0	0.0
15	QPSK	36	43	22.58	22.58	22.58	24.0	0.0
15	QPSK	75	0	22.66	22.66	22.66		
15	16QAM	1	1	22.49	22.49	22.49	24.0	0.0
15	64QAM	1	1	22.08	22.08	22.08	24.0	0.0
15	256QAM	1	1	21.45	21.45	21.45	23.0	1.0
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	22.59	22.65	22.63	24.0	0.0
Channel				339500	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	22.61	22.63	22.60	24.0	0.0

n71 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)								
20	PI2 BPSK	1	1	22.67	22.70	22.68		
20	PI2 BPSK	1	53	22.49	22.64	22.52	24.0	0.0
20	PI2 BPSK	1	104	22.38	22.42	22.33		
20	PI2 BPSK	50	0	22.04	22.09	21.98	23.5	0.5
20	PI2 BPSK	50	25	22.61	22.68	22.54	24.0	0.0
20	PI2 BPSK	50	56	22.03	22.06	21.97	23.5	0.5
20	PI2 BPSK	100	0	22.06	22.11	21.98		
20	QPSK	1	1	22.72	22.77	22.69		
20	QPSK	1	53	22.49	22.60	22.52	24.0	0.0
20	QPSK	1	104	22.49	22.53	22.45		
20	QPSK	50	0	21.52	21.57	21.45	23.0	1.0
20	QPSK	50	25	22.73	22.75	22.70	24.0	0.0
20	QPSK	50	56	21.49	21.61	21.52	23.0	1.0
20	QPSK	100	0	21.68	21.76	21.72		
20	16QAM	1	1	21.43	21.49	21.35	23.0	1.0
20	64QAM	1	1	19.79	19.88	19.75	21.5	2.5
20	256QAM	1	1	18.33	18.46	18.38	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	22.65	22.71	22.62	24.0	0.0
Channel				133900	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	22.60	22.73	22.55	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	22.63	22.69	22.62	24.0	0.0



n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50500	50700	50900			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	22.98	23.03	22.92			
50	PI/2 BPSK	1	135	22.98	22.95	22.95	24.0	0.0	
50	PI/2 BPSK	1	268	22.82	22.95	22.73			
50	PI/2 BPSK	135	0	22.48	22.52	22.42	23.5	0.5	
50	PI/2 BPSK	135	68	22.83	22.98	22.86	24.0	0.0	
50	PI/2 BPSK	135	135	22.41	22.59	22.44			
50	PI/2 BPSK	270	0	22.50	22.61	22.45	23.5	0.5	
50	QPSK	1	1	23.11	23.16	23.03			
50	QPSK	1	135	22.84	22.97	22.86	24.0	0.0	
50	QPSK	1	268	22.84	22.85	22.75			
50	QPSK	135	0	21.83	21.96	21.87	23.0	1.0	
50	QPSK	135	68	22.95	23.08	22.88	24.0	0.0	
50	QPSK	135	135	22.06	22.00	22.01			
50	QPSK	270	0	22.72	22.76	22.70	23.0	1.0	
50	16QAM	1	1	21.40	21.58	21.48	23.0	1.0	
50	64QAM	1	1	20.18	20.23	20.17	21.5	2.5	
50	256QAM	1	1	18.73	18.86	18.76	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530	2535	2550			
40	QPSK	1	1	23.06	23.10	22.91	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.07	23.08	22.86	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.96	23.07	22.90	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.08	23.13	22.88	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.03	23.12	22.90	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.02	23.03	22.85	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.01	23.04	22.90	24.0	0.0	

n30 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				460500	463500	466500			
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1			22.77			
10	PI/2 BPSK	1	26			22.64	24.0	0.0	
10	PI/2 BPSK	1	50			22.52			
10	PI/2 BPSK	25	0			22.59	24.0	0.0	
10	PI/2 BPSK	25	14			22.57	24.0	0.0	
10	PI/2 BPSK	25	27			22.80	24.0	0.0	
10	PI/2 BPSK	50	0			22.64			
10	QPSK	1	1			22.87			
10	QPSK	1	26			22.64	24.0	0.0	
10	QPSK	1	50			22.57			
10	QPSK	25	0			22.51	24.0	0.0	
10	QPSK	25	14			22.53	24.0	0.0	
10	QPSK	25	27			22.64	24.0	0.0	
10	QPSK	50	0			22.71			
10	16QAM	1	1			22.61	24.0	0.0	
10	64QAM	1	1			22.23	24.0	0.0	
10	256QAM	1	1			21.50	23.0	1.0	
Channel				461500	463500	463500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	22.73	22.82	22.80	24.0	0.0	



n41 PC3 Ant 1										
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	2546.01	2592.99	2640				
100	PI2 BPSK	1	137	22.65	22.69	22.68				
100	PI2 BPSK	1	271	22.64	22.74	22.66	24.0	0.0		
100	PI2 BPSK	1	271	22.82	22.87	22.86				
100	PI2 BPSK	135	0	22.32	22.46	22.38	24.0	0.0		
100	PI2 BPSK	135	69	22.45	22.74	22.64				
100	PI2 BPSK	135	138	22.53	22.60	22.51	24.0	0.0		
100	PI2 BPSK	270	0	22.45	22.57	22.48				
100	QPSK	1	1	22.72	22.72	22.63				
100	QPSK	1	137	22.74	22.76	22.67	24.0	0.0		
100	QPSK	1	271	22.68	22.71	22.55				
100	QPSK	135	0	22.43	22.53	22.41	24.0	0.0		
100	QPSK	135	69	22.78	22.87	22.81	24.0	0.0		
100	QPSK	135	138	22.42	22.54	22.43	24.0	0.0		
100	QPSK	270	0	22.45	22.56	22.45				
100	16QAM	1	1	21.55	21.67	21.57	23.0	1.0		
100	64QAM	1	1	21.52	21.59	21.50	23.0	1.0		
100	256QAM	1	1	20.58	20.69	20.96	22.0	2.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	2541	2592.99	2644.98				
90	QPSK	1	1	22.70	22.71	22.77	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.68	22.75	22.73	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	50202	518598	531000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	2526	2592.99	2659.98				
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.67	22.76	22.77	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.67	22.72	22.71	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.72	22.81	22.69	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.68	22.74	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.72	22.81	22.69	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.75	22.76	24.0	0.0		

n41 PC2 Ant 1										
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	2546.01	2592.99	2640				
100	PI2 BPSK	1	137	25.22	25.38	25.17				
100	PI2 BPSK	1	271	25.29	25.32	25.24	27.0	0.0		
100	PI2 BPSK	1	271	25.26	25.38	25.29				
100	PI2 BPSK	135	0	24.82	24.90	24.86	26.5	0.5		
100	PI2 BPSK	135	69	25.46	25.50	25.40				
100	PI2 BPSK	135	138	24.79	24.92	24.83	27.0	0.0		
100	PI2 BPSK	270	0	24.87	24.96	24.81				
100	QPSK	1	1	25.44	25.45	25.41				
100	QPSK	1	137	25.40	25.48	25.43	27.0	0.0		
100	QPSK	1	271	25.40	25.42	25.42				
100	QPSK	135	0	24.82	24.70	24.65	26.0	1.0		
100	QPSK	135	69	25.43	25.53	25.48	27.0	0.0		
100	QPSK	135	138	24.74	24.81	24.89	26.0	1.0		
100	QPSK	270	0	24.72	24.93	24.81				
100	16QAM	1	1	24.50	24.64	24.58	26.0	1.0		
100	64QAM	1	1	22.84	22.98	22.92	24.5	2.5		
100	256QAM	1	1	20.92	21.02	20.96	22.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	2541	2592.99	2644.98				
90	QPSK	1	1	25.38	25.43	25.35	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.40	25.39	25.35	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	50202	518598	531000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	2530	2539	2538	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.40	25.45	25.41	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	25.33	25.41	25.40	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.30	25.49	25.34	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.38	25.40	25.37	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	25.37	25.49	25.37	27.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	25.37	25.38	25.36	27.0	0.0		

Part270 n77 Ant 1 PC3										
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	3700	3840	3930				
100	PI2 BPSK	1	1	17.07	17.07	16.96				
100	PI2 BPSK	1	137	16.90	16.95	16.94	18.0	0.0		
100	PI2 BPSK	1	271	16.92	16.97	16.89				
100	PI2 BPSK	135	0	16.81	16.81	16.72	18.0	0.0		
100	PI2 BPSK	135	69	16.99	17.06	17.07				
100	PI2 BPSK	135	138	16.81	16.93	16.90	18.0	0.0		
100	PI2 BPSK	270	0	16.82	17.00	16.87				
100	QPSK	1	1	16.91	16.98	16.94				
100	QPSK	1	137	16.90	17.03	16.96	18.0	0.0		
100	QPSK	1	271	16.93	16.95	16.91				
100	QPSK	135	0	16.71	16.78	16.81	18.0	0.0		
100	QPSK	135	69	17.04	17.12	17.00	18.0	0.0		
100	QPSK	135	138	16.80	16.81	16.89	18.0	0.0		
100	QPSK	270	0	16.93	16.93	16.92				
100	16QAM	1	1	15.89	15.98	15.85	17.0	1.0		
100	64QAM	1	1	15.75	15.87	15.81	17.0	1.0		
100	256QAM	1	1	15.28	15.26	15.14	16.0	2.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3840	3935.01				
90	QPSK	1	1	16.77	16.99	16.84	18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.80	16.94	16.83	18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.87	16.97	16.81	18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.83	16.91	16.91	18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.79	16.93	16.89	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	647334	650000	646668	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3745.01	3840	3940.02				
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.87	16.91	16.85	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.75	17.00	16.80	18.0	0.0		



Part27Q n77 Ant 1 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										
Frequency (MHz)										
100	PI2 BPSK	1	1		3500.01					
100	PI2 BPSK	1	1	17.64						
100	PI2 BPSK	1	137	17.66			18.0	0.0		
100	PI2 BPSK	1	271	16.84						
100	PI2 BPSK	135	0	17.35			18.0	0.0		
100	PI2 BPSK	135	69	17.65			18.0	0.0		
100	PI2 BPSK	135	138	17.54			18.0	0.0		
100	PI2 BPSK	270	0	17.58						
100	QPSK	1	1	17.10						
100	QPSK	1	137	17.70			18.0	0.0		
100	QPSK	1	271	17.09						
100	QPSK	135	0	17.37			18.0	0.0		
100	QPSK	135	69	17.76			18.0	0.0		
100	QPSK	135	138	17.44			18.0	0.0		
100	QPSK	270	0	17.57						
100	16QAM	1	1	16.35			17.0	1.0		
100	16QAM	1	1	16.28			16.0	2.0		
100	25QAM	1	1	15.35						
Channel										
Frequency (MHz)										
90	QPSK	1	1	17.71	17.70	17.63	18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.67	17.63	17.65	18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.65	17.60	17.60	18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.71	17.73	17.64	18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.70	17.61	17.62	18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.72	17.70	17.63	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.62	17.72	17.62	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.63	17.71	17.65	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.65	17.69	17.66	18.0	0.0		

Part27Q n77 Ant 1 PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		3750	3840	3950			
100	PI2 BPSK	1	1	20.11	20.14	20.12				
100	PI2 BPSK	1	137	19.26	19.35	19.30	21.0	0.0		
100	PI2 BPSK	1	271	19.28	19.32	19.29				
100	PI2 BPSK	135	0	19.79	19.79	19.79	20.5	0.5		
100	PI2 BPSK	135	69	19.98	20.03	19.98	21.0	0.0		
100	PI2 BPSK	135	138	19.87	19.93	19.93	20.5	0.5		
100	PI2 BPSK	270	0	19.97	19.98	19.93				
100	QPSK	1	1	19.66	19.66	19.59				
100	QPSK	1	137	20.15	20.21	20.15	21.0	0.0		
100	QPSK	1	271	19.27	19.27	19.26				
100	QPSK	135	0	19.66	19.76	19.67	20.0	1.0		
100	QPSK	135	69	19.94	20.03	19.99	21.0	0.0		
100	QPSK	135	138	19.80	19.82	19.76	20.0	1.0		
100	QPSK	270	0	19.84	19.87	19.81				
100	16QAM	1	1	18.78	18.81	18.76	20.0	1.0		
100	16QAM	1	1	17.37	17.38	17.31	18.5	2.5		
100	25QAM	1	1	15.84	15.82	16.40	16.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	20.14	20.09	20.06	21.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.16	20.06	20.08	21.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.07	20.12	20.11	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.11	20.07	20.09	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.07	20.18	20.07	21.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.14	20.10	20.17	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.13	20.10	20.08	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.13	20.17	20.15	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.12	20.09	20.12	21.0	0.0		

Part27Q n77 Ant 1 PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		3000.01					
100	PI2 BPSK	1	1	20.09						
100	PI2 BPSK	1	137	19.33			21.0	0.0		
100	PI2 BPSK	1	271	19.28						
100	PI2 BPSK	135	0	19.72			20.5	0.5		
100	PI2 BPSK	135	69	19.97			21.0	0.0		
100	PI2 BPSK	135	138	19.85			20.5	0.5		
100	PI2 BPSK	270	0	19.98						
100	QPSK	1	1	19.58						
100	QPSK	1	137	20.12			21.0	0.0		
100	QPSK	1	271	19.22						
100	QPSK	135	0	19.70			20.0	1.0		
100	QPSK	135	69	20.06			21.0	0.0		
100	QPSK	135	138	19.83			20.0	1.0		
100	QPSK	270	0	19.98						
100	16QAM	1	1	18.79			20.0	1.0		
100	16QAM	1	1	17.29			18.5	2.5		
100	25QAM	1	1	16.4			16.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	20.04	20.08	20.05	21.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.00	20.08	20.07	21.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.01	20.09	20.03	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.01	20.10	20.01	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.04	20.02	20.08	21.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.01	20.10	20.08	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.04	20.02	20.03	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.06	20.06	20.04	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.02	20.09	20.07	21.0	0.0		



Part270 n78 Ant 1									
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	PI/2 BPSK	1	1		3750				
100	PI/2 BPSK	1	1		18.16				
100	PI/2 BPSK	1	137		18.09		19.0	0.0	
100	PI/2 BPSK	1	271		18.06				
100	PI/2 BPSK	135	0		17.98		19.0	0.0	
100	PI/2 BPSK	135	69		18.22		19.0	0.0	
100	PI/2 BPSK	135	138		18.01		19.0	0.0	
100	PI/2 BPSK	270	0		18.02		19.0	0.0	
100	QPSK	1	1		18.10				
100	QPSK	1	137		18.16		19.0	0.0	
100	QPSK	1	271		17.95				
100	QPSK	135	0		17.97		19.0	0.0	
100	QPSK	135	69		18.25		19.0	0.0	
100	QPSK	135	138		17.96		19.0	0.0	
100	QPSK	270	0		18.07		19.0	0.0	
100	16QAM	1	1		17.48		18.0	1.0	
100	64QAM	1	1		16.99		17.0	1.0	
100	256QAM	1	1		16.39		17.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64969	65000	65034	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3749.01	3750	3760.02	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3745.02	3750	3770.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3730.02	3750	3770.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64800	65000	65200	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3725.01	3750	3775.02	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64769	65000	65234	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3715.02	3750	3765.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64700	65000	65268	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3710.01	3750	3760.02	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64719	65000	65258	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3705.02	3750	3765.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64700	65000	65300	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.10	18.14	18.12	Tune-up limit	MPR	

Part270Q n78 Ant 1									
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	PI/2 BPSK	1	1		3500.01				
100	PI/2 BPSK	1	1		18.52				
100	PI/2 BPSK	1	137		18.32		19.0	0.0	
100	PI/2 BPSK	1	271		18.20				
100	PI/2 BPSK	135	0		18.21		19.0	0.0	
100	PI/2 BPSK	135	69		18.36		19.0	0.0	
100	PI/2 BPSK	135	138		18.43		19.0	0.0	
100	PI/2 BPSK	270	0		18.32		19.0	0.0	
100	QPSK	1	1		18.37				
100	QPSK	1	137		18.57		19.0	0.0	
100	QPSK	1	271		18.28				
100	QPSK	135	0		18.18		19.0	0.0	
100	QPSK	135	69		18.51		19.0	0.0	
100	QPSK	135	138		18.36		19.0	0.0	
100	QPSK	270	0		18.43		19.0	0.0	
100	16QAM	1	1		18.27		18.0	1.0	
100	64QAM	1	1		17.50		18.0	1.0	
100	256QAM	1	1		17.28		18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63368	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3495	3500.01	3505.02	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63268	63334	63400	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495.02	3500.01	3510	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63234	63334	63434	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3485.01	3500.01	3515.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63334	63468	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3480	3500.01	3520.02	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63334	63500	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63134	63334	63534	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3500.01	3530.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63100	63334	63568	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3465	3500.01	3535.02	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63334	63600	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3460.02	3500.01	3540	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63034	63334	63636	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3455.01	3500.01	3545.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63000	63334	63670	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3450.01	3500.01	3548.01	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.45	18.48	18.37	Tune-up limit	MPR	



n41 PC3 Ant 3										
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	2546.01	2552.99	2640				
100	PI2 BPSK	1	137	2152	2155	2127				
100	PI2 BPSK	1	271	2150	2161	2151	23.0	0.0		
100	PI2 BPSK	1	271	2134	2146	2140				
100	PI2 BPSK	135	0	2102	2109	2108	23.0	0.0		
100	PI2 BPSK	135	69	2139	2147	2138				
100	PI2 BPSK	135	138	2128	2133	2121	23.0	0.0		
100	PI2 BPSK	270	0	2106	2115	2110				
100	QPSK	1	1	2134	2147	2142				
100	QPSK	1	137	2181	2197	2153	23.0	0.0		
100	QPSK	1	271	2134	2141	2134				
100	QPSK	135	0	2125	2132	2129	23.0	0.0		
100	QPSK	135	69	2153	2159	2158	23.0	0.0		
100	QPSK	135	138	2114	2128	2122	23.0	0.0		
100	QPSK	270	0	2116	2134	2133				
100	16QAM	1	1	2007	2017	2003	22.0	1.0		
100	64QAM	1	1	2002	2011	2012	22.0	1.0		
100	256QAM	1	1	1915	1922	1918	21.0	2.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	2541	2552.99	2644.98	Tune-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	2147	2161	2147	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	2151	2164	2142	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	2152	2159	2147	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	2156	2153	2145	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	2154	2157	2147	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	2150	2152	2148	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	2151	2152	2148	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	2148	2153	2144	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	2152	2161	2138	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	2151	2156	2141	23.0	0.0		

n41 PC2 Ant 3										
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	2443	2447	2438				
100	PI2 BPSK	1	137	2469	2477	2473	26.0	0.0		
100	PI2 BPSK	1	271	2487	2472	2482				
100	PI2 BPSK	135	0	2359	2388	2381	25.5	0.5		
100	PI2 BPSK	135	69	2452	2466	2456	26.0	0.0		
100	PI2 BPSK	135	138	2393	2398	2385	25.5	0.5		
100	PI2 BPSK	270	0	2371	2383	2377				
100	QPSK	1	1	2427	2422	2425				
100	QPSK	1	137	2451	2454	2454	26.0	0.0		
100	QPSK	1	271	2442	2446	2452				
100	QPSK	135	0	2315	2325	2318	26.0	1.0		
100	QPSK	135	69	2480	2489	2483	26.0	0.0		
100	QPSK	135	138	2330	2341	2334	25.0	1.0		
100	QPSK	270	0	2336	2346	2344				
100	16QAM	1	1	2309	2322	2319	25.0	1.0		
100	64QAM	1	1	2187	2174	2189	23.5	2.5		
100	256QAM	1	1	2016	2028	2021	21.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	2447	2478	2455	26.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	2448	2481	2480	26.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	2443	2478	2455	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	2442	2474	2452	26.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	2438	2470	2450	26.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	2448	2469	2457	26.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	2438	2477	2457	26.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	2446	2475	2461	26.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	2442	2473	2451	26.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	2445	2471	2460	23.0	0.0		

Part270 n77 PC3 Ant 3										
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	3700	3840	3930				
100	PI2 BPSK	1	137	1924	1940	1926				
100	PI2 BPSK	1	271	1854	1858	1848	20.0	0.0		
100	PI2 BPSK	1	271	1862	1876	1862				
100	PI2 BPSK	135	0	1904	1914	1900	20.0	0.0		
100	PI2 BPSK	135	69	1926	1939	1926	20.0	0.0		
100	PI2 BPSK	135	138	1916	1927	1919	20.0	0.0		
100	PI2 BPSK	270	0	1922	1932	1920				
100	QPSK	1	1	1932	1937	1923				
100	QPSK	1	137	1924	1943	1937	20.0	0.0		
100	QPSK	1	271	1928	1931	1921				
100	QPSK	135	0	1918	1924	1914	20.0	0.0		
100	QPSK	135	69	1911	1942	1928	20.0	0.0		
100	QPSK	135	138	1914	1924	1912	20.0	0.0		
100	QPSK	270	0	1903	1927	1910				
100	16QAM	1	1	1824	1833	1818	19.0	1.0		
100	64QAM	1	1	1822	1829	1826	18.0	1.0		
100	256QAM	1	1	1758	1789	1758	18.0	2.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	1903	1929	1917	20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	1903	1937	1924	20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	1903	1929	1918	20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	1906	1930	1919	20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	1901	1936	1922	20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	1907	1933	1917	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	1903	1928	1917	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	1903	1936	1918	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	1903	1936	1918	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	1905	1938	1921	20.0	0.0		



Part270 n77 PC2 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.96	22.08	22.01				
100	PI2 BPSK	1	137	21.06	21.08	21.03	23.0	0.0		
100	PI2 BPSK	1	271	21.10	21.12	21.07				
100	PI2 BPSK	135	0	21.71	21.79	21.70	22.5	0.5		
100	PI2 BPSK	135	69	22.06	22.16	22.06	23.0	0.0		
100	PI2 BPSK	135	138	21.72	21.82	21.75	22.5	0.5		
100	PI2 BPSK	270	0	21.72	21.88	21.72				
100	QPSK	1	1	22.08	22.10	22.04				
100	QPSK	1	137	21.15	22.11	21.97	23.0	0.0		
100	QPSK	1	271	21.05	21.20	21.15				
100	QPSK	135	0	20.88	21.12	21.06	22.0	1.0		
100	QPSK	135	69	22.05	22.17	22.14	23.0	0.0		
100	QPSK	135	138	20.95	21.03	20.91	22.0	1.0		
100	QPSK	270	0	20.88	21.07	20.97				
100	16QAM	1	1	20.68	20.22	20.16	22.0	1.0		
100	16QAM	1	1	19.13	19.24	19.20	20.5	2.5		
100	25QAM	1	1	17.74	17.83	17.76	18.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	22.02	22.03	22.08	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.97	22.09	22.11	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.91	22.07	22.03	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.95	22.08	22.01	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.93	22.12	22.06	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.96	22.05	22.11	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.84	22.13	22.09	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.93	22.09	22.00	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.96	22.11	22.09	23.0	0.0		

Part27Q n77 PC3 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	18.33						
100	PI2 BPSK	1	137	17.84			19.0	0.0		
100	PI2 BPSK	1	271	17.38						
100	PI2 BPSK	135	0	18.29			19.0	0.0		
100	PI2 BPSK	135	69	18.37			19.0	0.0		
100	PI2 BPSK	135	138	18.15			19.0	0.0		
100	PI2 BPSK	270	0	18.22						
100	QPSK	1	1	17.89						
100	QPSK	1	137	18.46			19.0	0.0		
100	QPSK	1	271	17.28						
100	QPSK	135	0	18.39			19.0	0.0		
100	QPSK	135	69	18.41			19.0	0.0		
100	QPSK	135	138	18.29			19.0	0.0		
100	QPSK	270	0	18.30						
100	16QAM	1	1	17.76			18.0	1.0		
100	16QAM	1	1	17.68			18.0	1.0		
100	25QAM	1	1	16.70			17.0	2.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.39	18.35	18.34	19.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.40	18.43	18.41	19.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.41	18.39	18.41	19.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.37	18.34	18.34	19.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.40	18.40	18.40	19.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.31	18.31	18.39	19.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.37	18.41	18.33	19.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.34	18.36	18.34	19.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.31	18.39	18.41	19.0	0.0		

Part27Q n77 PC2 Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.28						
100	PI2 BPSK	1	137	21.35			23.0	0.0		
100	PI2 BPSK	1	271	21.42						
100	PI2 BPSK	135	0	20.78			22.5	0.5		
100	PI2 BPSK	135	69	21.23			23.0	0.0		
100	PI2 BPSK	135	138	21.15			22.5	0.5		
100	PI2 BPSK	270	0	21.19						
100	QPSK	1	1	21.31						
100	QPSK	1	137	21.45			23.0	0.0		
100	QPSK	1	271	21.30						
100	QPSK	135	0	21.04			22.0	1.0		
100	QPSK	135	69	21.39			23.0	0.0		
100	QPSK	135	138	21.06			22.0	1.0		
100	QPSK	270	0	21.12						
100	16QAM	1	1	20.51			22.0	1.0		
100	16QAM	1	1	19.67			20.5	2.5		
100	25QAM	1	1	17.63			18.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.34	21.32	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.35	21.36	21.32	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.31	21.40	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.36	21.27	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.33	21.33	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.42	21.39	21.30	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.40	21.42	21.35	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.39	21.34	21.36	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.40	21.37	21.37	23.0	0.0		



Part270 n78 Ant 3									
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)				3750	3750	3750			
100	PI/2 BPSK	1	1	19.34					
100	PI/2 BPSK	1	137	18.30			20.0	0.0	
100	PI/2 BPSK	1	271	18.84					
100	PI/2 BPSK	135	0	19.13			20.0	0.0	
100	PI/2 BPSK	135	69	19.36			20.0	0.0	
100	PI/2 BPSK	135	138	19.38			20.0	0.0	
100	PI/2 BPSK	270	0	19.34			20.0	0.0	
100	QPSK	1	1	18.52					
100	QPSK	1	137	18.41			20.0	0.0	
100	QPSK	1	271	18.82					
100	QPSK	135	0	19.38			20.0	0.0	
100	QPSK	135	69	19.43			20.0	0.0	
100	QPSK	135	138	19.21			20.0	0.0	
100	QPSK	270	0	19.26			19.0	1.0	
100	16QAM	1	1	18.71			19.0	1.0	
100	64QAM	1	1	18.28			18.0	2.0	
100	256QAM	1	1	17.69			18.0	2.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.28	19.29	19.32	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.28	19.34	19.27	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.30	19.37	19.30	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.34	19.33	19.30	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.30	19.36	19.25	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.30	19.30	19.28	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.27	19.32	19.28	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.32	19.34	19.21	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.27	19.29	19.26	20.0	0.0	
Channel									
Frequency (MHz)				64000	65000	65000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.28	19.35	19.25	20.0	0.0	

Part270 n78 Ant 3									
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)				3500	3500	3500			
100	PI/2 BPSK	1	1	19.40					
100	PI/2 BPSK	1	137	18.43			20.0	0.0	
100	PI/2 BPSK	1	271	18.97					
100	PI/2 BPSK	135	0	19.27			20.0	0.0	
100	PI/2 BPSK	135	69	19.43			20.0	0.0	
100	PI/2 BPSK	135	138	19.31			20.0	0.0	
100	PI/2 BPSK	270	0	19.36			20.0	0.0	
100	QPSK	1	1	18.41					
100	QPSK	1	137	18.26			20.0	0.0	
100	QPSK	1	271	18.76					
100	QPSK	135	0	19.40			20.0	0.0	
100	QPSK	135	69	19.47			20.0	0.0	
100	QPSK	135	138	19.29			20.0	0.0	
100	QPSK	270	0	19.38			19.0	1.0	
100	16QAM	1	1	18.82			19.0	1.0	
100	64QAM	1	1	18.34			18.0	2.0	
100	256QAM	1	1	17.86			18.0	2.0	
Channel									
Frequency (MHz)				63000	63334	63334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.29	19.37	19.34	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63400	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.28	19.38	19.31	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63434	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.29	19.43	19.24	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63468	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.35	19.35	19.25	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63502	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.28	19.33	19.29	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63536	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.35	19.44	19.35	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63568	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.38	19.38	19.24	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.36	19.40	19.30	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63632	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.29	19.42	19.24	20.0	0.0	
Channel									
Frequency (MHz)				63000	63334	63664	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.33	19.38	19.35	20.0	0.0	



n12 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141900	141600	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.17	22.22	22.09		
15	PI2 BPSK	1	40	22.05	22.10	22.03	24.0	0.0
15	PI2 BPSK	1	77	22.05	22.11	22.05		
15	PI2 BPSK	36	0	21.54	21.63	21.53	23.5	0.5
15	PI2 BPSK	36	22	22.04	22.11	22.06	24.0	0.0
15	PI2 BPSK	36	43	21.61	21.65	21.60	23.5	0.5
15	PI2 BPSK	75	0	21.62	21.67	21.52		
15	QPSK	1	1	22.26	22.31	22.24		
15	QPSK	1	40	22.06	22.14	22.07	24.0	0.0
15	QPSK	1	77	22.02	22.10	22.06		
15	QPSK	36	0	21.08	21.11	21.03	23.0	1.0
15	QPSK	36	22	22.11	22.26	22.17	24.0	0.0
15	QPSK	36	43	21.14	21.22	21.08	23.0	1.0
15	QPSK	75	0	21.22	21.28	21.23		
15	16QAM	1	1	21.23	21.31	21.16	23.0	1.0
15	64QAM	1	1	19.59	19.68	19.54	21.5	2.5
20	25QAM	1	1	17.84	17.95	17.80	19.5	4.5
Channel				142000	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.17	22.27	22.22	24.0	0.0
Channel				142000	141900	142100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				707.5	707.5	713.5		
5	QPSK	1	1	22.14	22.28	22.23	24.0	0.0

n25 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376500	379000		
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	21.66	21.69	21.63		
40	PI2 BPSK	1	108	21.72	21.81	21.70	23.0	0.0
40	PI2 BPSK	1	214	21.04	21.08	21.02		
40	PI2 BPSK	108	0	21.35	21.43	21.37	23.0	0.0
40	PI2 BPSK	108	54	21.86	21.81	21.81	23.0	0.0
40	PI2 BPSK	108	108	21.45	21.49	21.42	23.0	0.0
40	PI2 BPSK	216	0	21.44	21.52	21.39		
40	QPSK	1	1	21.07	21.12	21.03		
40	QPSK	1	108	21.74	21.68	21.63	23.0	0.0
40	QPSK	1	214	21.05	21.06	21.02		
40	QPSK	108	0	21.25	21.39	21.28	23.0	0.0
40	QPSK	108	54	21.42	21.54	21.49	23.0	0.0
40	QPSK	108	108	21.37	21.42	21.29	23.0	0.0
40	QPSK	216	0	21.36	21.47	21.39		
40	16QAM	1	1	20.49	20.62	20.52	22.0	1.0
40	64QAM	1	1	20.38	20.48	20.41	22.0	1.0
40	25QAM	1	1	19.73	19.82	19.83	21.0	2.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	21.61	21.65	21.74	23.0	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1892.5		
25	QPSK	1	1	21.61	21.79	21.79	23.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	21.70	21.74	21.69	23.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	21.70	21.77	21.74	23.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	21.62	21.65	21.79	23.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	21.69	21.80	21.79	23.0	0.0

n26 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164500	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.32	22.39	22.29		
20	PI2 BPSK	1	53	22.26	22.32	22.29	24.0	0.0
20	PI2 BPSK	1	104	22.22	22.25	22.15		
20	PI2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5
20	PI2 BPSK	50	25	22.18	22.22	22.15	24.0	0.0
20	PI2 BPSK	50	56	21.72	21.76	21.72	23.5	0.5
20	PI2 BPSK	100	0	21.78	21.86	21.79		
20	QPSK	1	1	22.42	22.45	22.39		
20	QPSK	1	53	22.22	22.33	22.25	24.0	0.0
20	QPSK	1	104	22.15	22.23	22.11		
20	QPSK	50	0	21.12	21.22	21.07	23.0	1.0
20	QPSK	50	25	22.23	22.28	22.27	24.0	0.0
20	QPSK	50	56	21.28	21.37	21.27	23.0	1.0
20	QPSK	100	0	21.39	21.46	21.41		
20	16QAM	1	1	21.44	21.50	21.43	23.0	1.0
20	64QAM	1	1	19.72	19.85	19.77	21.5	2.5
20	25QAM	1	1	18.01	18.10	18.03	19.5	4.5
Channel				163000	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.30	22.36	22.34	#REF!	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				818	831.5	844		
10	QPSK	1	1	22.39	22.41	22.31	#REF!	0.0
Channel				163000	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.33	22.31	22.24	#REF!	0.0



n30 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					2310				
10	PI2 BPSK	1	1	22.40					
10	PI2 BPSK	1	26	22.34			24.0	0.0	
10	PI2 BPSK	1	50	22.31					
10	PI2 BPSK	25	0	21.95			23.5	0.5	
10	PI2 BPSK	25	14	22.37			24.0	0.0	
10	PI2 BPSK	25	27	21.90					
10	PI2 BPSK	50	0	21.98			23.5	0.5	
10	QPSK	1	1	22.42					
10	QPSK	1	26	22.36			24.0	0.0	
10	QPSK	1	50	22.35					
10	QPSK	25	0	21.38			23.0	1.0	
10	QPSK	25	14	22.32			24.0	0.0	
10	QPSK	25	27	21.41			23.0	1.0	
10	QPSK	50	0	21.48			23.0	1.0	
10	16QAM	1	1	21.39			23.0	1.0	
10	64QAM	1	1	19.84			21.5	2.5	
10	256QAM	1	1	18.13			19.5	4.5	
Channel				481500	492500	482500			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	22.35	22.39	22.31	24.0	0.0	

n66 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					1725	1745	1765		
40	PI2 BPSK	1	1	21.03	21.10	21.68			
40	PI2 BPSK	1	108	21.90	21.95	21.97	23.0	0.0	
40	PI2 BPSK	1	214	21.18	21.23	21.11			
40	PI2 BPSK	108	0	21.66	21.75	21.67	23.0	0.0	
40	PI2 BPSK	108	54	21.84	21.82	21.78	23.0	0.0	
40	PI2 BPSK	108	108	21.70	21.84	21.78			
40	PI2 BPSK	216	0	21.82	21.86	21.74	23.0	0.0	
40	QPSK	1	1	21.02	21.08	21.03			
40	QPSK	1	108	21.86	22.01	21.81	23.0	0.0	
40	QPSK	1	214	21.08	21.10	21.04			
40	QPSK	108	0	21.65	21.70	21.65	23.0	0.0	
40	QPSK	108	54	21.71	21.78	21.64	23.0	0.0	
40	QPSK	108	108	21.37	21.52	21.42	23.0	0.0	
40	QPSK	216	0	21.53	21.59	21.49			
40	16QAM	1	1	20.66	20.78	20.68	22.0	1.0	
40	64QAM	1	1	20.86	20.91	20.79	22.0	1.0	
40	256QAM	1	1	20.12	20.19	20.11	21.0	2.0	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.81	21.96	21.81	23.0	0.0	
Channel				344500	349000	353500			
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	21.76	21.89	21.87	23.0	0.0	
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.83	21.90	21.82	23.0	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.81	21.83	21.82	23.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.83	21.96	21.82	23.0	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.78	21.88	21.82	23.0	0.0	

n71 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					675	680.5	685		
20	PI2 BPSK	1	1	22.49	22.53	22.40			
20	PI2 BPSK	1	53	22.37	22.40	22.30	24.0	0.0	
20	PI2 BPSK	1	104	22.23	22.37	22.29			
20	PI2 BPSK	50	0	21.88	21.98	21.93	23.5	0.5	
20	PI2 BPSK	50	25	22.26	22.33	22.28	24.0	0.0	
20	PI2 BPSK	50	56	21.76	21.86	21.78			
20	PI2 BPSK	100	0	21.81	21.95	21.82	23.5	0.5	
20	QPSK	1	1	22.51	22.55	22.47			
20	QPSK	1	53	22.26	22.47	22.42	24.0	0.0	
20	QPSK	1	104	22.24					
20	QPSK	50	0	21.30	21.34	21.23	23.0	1.0	
20	QPSK	50	25	22.35	22.43	22.39	24.0	0.0	
20	QPSK	50	56	21.32	21.44	21.32	23.0	1.0	
20	QPSK	100	0	21.42	21.49	21.45			
20	16QAM	1	1	21.50	21.62	21.54	23.0	1.0	
20	64QAM	1	1	19.98	20.02	19.95	21.5	2.5	
20	256QAM	1	1	18.14	18.20	18.00	19.5	4.5	
Channel				133100	136100	139100			
Frequency (MHz)				675.5	680.5	685.5			
15	QPSK	1	1	22.41	22.48	22.37	24.0	0.0	
Channel				133600	136100	138600			
Frequency (MHz)				680	683.5	688			
10	QPSK	1	1	22.44	22.43	22.38	24.0	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				682.5	682.5	682.5			
5	QPSK	1	1	22.38	22.45	22.35	24.0	0.0	



n41 PC3 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50202	51898	53000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.16	20.22	20.18		
100	PI/2 BPSK	1	137	20.93	21.06	20.93	22.0	0.0
100	PI/2 BPSK	1	271	20.05	20.11	20.02		
100	PI/2 BPSK	135	0	20.49	20.63	20.53	22.0	0.0
100	PI/2 BPSK	135	69	20.97	21.02	20.86	22.0	0.0
100	PI/2 BPSK	135	138	20.82	20.97	20.83	22.0	0.0
100	PI/2 BPSK	270	0	20.60	20.68	20.57		
100	QPSK	1	1	20.13	20.18	20.09		
100	QPSK	1	137	20.81	21.10	21.03	22.0	0.0
100	QPSK	1	271	20.06	20.13	20.11		
100	QPSK	135	0	20.46	20.58	20.45	22.0	0.0
100	QPSK	135	69	20.75	21.01	20.92	22.0	0.0
100	QPSK	135	138	20.73	20.88	20.81		
100	QPSK	270	0	20.55	20.77	20.65	22.0	0.0
100	16QAM	1	1	19.58	19.69	19.59	21.0	1.0
100	64QAM	1	1	19.51	19.63	19.55	21.0	1.0
100	256QAM	1	1	18.62	18.71	18.59	20.0	2.0
Channel				50200	51898	53098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.74	21.02	20.90	23.7	0.0
Channel				507204	51898	52998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.69	20.96	20.97	22.0	0.0
Channel				50200	51898	53100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.72	20.98	20.93	22.0	0.0
Channel				505200	51898	53198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.56	21.06	20.90	22.0	0.0
Channel				504204	51898	53298	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2592.99	2664.99		
50	QPSK	1	1	20.69	21.03	20.89	22.0	0.0
Channel				505202	51898	53400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.73	21.04	20.94	22.0	0.0
Channel				502200	51898	53498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.68	21.00	20.91	22.0	0.0
Channel				501204	51898	53598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.72	20.96	20.95	22.0	0.0
Channel				500700	51898	53698	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	20.71	20.99	20.99	22.0	0.0
Channel				500202	51898	53700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	20.68	21.05	20.99	22.0	0.0

n41 PC2 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50202	51898	53000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.13	23.18	23.06		
100	PI/2 BPSK	1	137	23.49	23.53	23.48	25.0	0.0
100	PI/2 BPSK	1	271	23.13	23.18	23.14		
100	PI/2 BPSK	135	0	23.33	23.37	23.29	24.5	0.5
100	PI/2 BPSK	135	69	23.39	23.45	23.37	25.0	0.0
100	PI/2 BPSK	135	138	23.29	23.36	23.25	24.5	0.5
100	PI/2 BPSK	270	0	23.29	23.42	23.37		
100	QPSK	1	1	23.05	23.13	23.09		
100	QPSK	1	137	23.54	23.56	23.49	25.0	0.0
100	QPSK	1	271	23.18	23.22	23.17		
100	QPSK	135	0	22.74	22.78	22.71	24.0	1.0
100	QPSK	135	69	23.40	23.45	23.43	25.0	0.0
100	QPSK	135	138	22.74	22.89	22.76	24.0	1.0
100	QPSK	270	0	22.92	22.94	22.87		
100	16QAM	1	1	22.11	22.14	22.09	24.0	1.0
100	64QAM	1	1	20.55	20.62	20.52	22.5	2.5
100	256QAM	1	1	18.60	18.65	18.56	20.5	4.5
Channel				50200	51898	53098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.42	23.47	23.37	25.0	0.0
Channel				507204	51898	52998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.43	23.48	23.45	25.0	0.0
Channel				50200	51898	53100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.49	23.43	23.38	25.0	0.0
Channel				505200	51898	53198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.43	23.52	23.41	25.0	0.0
Channel				504204	51898	53298	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.45	23.48	23.45	25.0	0.0
Channel				505202	51898	53400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.47	23.52	23.40	25.0	0.0
Channel				502200	51898	53498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.51	23.45	23.39	25.0	0.0
Channel				501204	51898	53598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.46	23.50	23.44	25.0	0.0
Channel				500700	51898	53698	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	23.46	23.42	23.38	25.0	0.0
Channel				500202	51898	53700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	23.43	23.49	23.43	25.0	0.0



n48 Ant 5									
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)				3600	3624.99	3649.98			
100	PI2 BPSK	1	1	22.75	22.83	22.71			
100	PI2 BPSK	1	137	23.63	23.68	23.57	24.0	0.0	
100	PI2 BPSK	1	271	22.79	22.90	22.83			
100	PI2 BPSK	135	0	23.38	23.40	23.33	24.0	0.0	
100	PI2 BPSK	135	69	23.52	23.61	23.52	24.0	0.0	
100	PI2 BPSK	135	138	23.45	23.52	23.42	24.0	0.0	
100	PI2 BPSK	270	0	23.40	23.48	23.42	24.0	0.0	
100	QPSK	1	1	22.71	22.78	22.53			
100	QPSK	1	137	23.60	23.71	23.66	24.0	0.0	
100	QPSK	1	271	22.73	22.82	22.68			
100	QPSK	135	0	23.39	23.44	23.32	24.0	0.0	
100	QPSK	135	69	23.44	23.57	23.55	24.0	0.0	
100	QPSK	135	138	23.19	23.34	23.27	24.0	0.0	
100	QPSK	270	0	23.28	23.35	23.30	24.0	0.0	
100	16QAM	1	1	22.43	22.53	22.47	24.0	1.0	
100	64QAM	1	1	22.47	22.55	22.47	23.0	1.0	
100	256QAM	1	1	21.79	21.89	21.81	22.0	2.0	
Channel									
Frequency (MHz)				3595.02	3619.99	3644.98			
90	QPSK	1	1	23.57	23.66	23.54	24.0	0.0	
Channel									
Frequency (MHz)				636334	641666	646968			
80	QPSK	1	1	23.53	23.58	23.46	24.0	0.0	
Channel									
Frequency (MHz)				636868	641666	646968			
80	QPSK	1	1	23.53	23.58	23.46	24.0	0.0	
Channel									
Frequency (MHz)				3595.02	3624.99	3654.98			
50	QPSK	1	1	23.51	23.62	23.55	24.0	0.0	
Channel									
Frequency (MHz)				637000	641666	646332			
40	QPSK	1	1	23.48	23.60	23.51	24.0	0.0	
Channel									
Frequency (MHz)				637168	641666	646168			
20	QPSK	1	1	23.54	23.68	23.60	24.0	0.0	
Channel									
Frequency (MHz)				637168	641666	646168			
15	QPSK	1	1	23.48	23.63	23.58	24.0	0.0	
Channel									
Frequency (MHz)				637168	641666	646332			
10	QPSK	1	1	23.52	23.59	23.52	24.0	0.0	

Part270 n77 PC3 Ant 5									
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)				3750	3840	3930			
100	PI2 BPSK	1	1	23.45	23.48	23.59			
100	PI2 BPSK	1	137	22.83	22.89	22.87	24.0	0.0	
100	PI2 BPSK	1	271	22.59	22.74	22.66			
100	PI2 BPSK	135	0	23.24	23.34	23.26	24.0	0.0	
100	PI2 BPSK	135	69	23.51	23.58	23.53	24.0	0.0	
100	PI2 BPSK	135	138	23.30	23.38	23.27	24.0	0.0	
100	PI2 BPSK	270	0	23.35	23.41	23.32	24.0	0.0	
100	QPSK	1	1	22.74	22.86	22.80			
100	QPSK	1	137	23.48	23.56	23.46	24.0	0.0	
100	QPSK	1	271	22.67	22.76	22.71			
100	QPSK	135	0	23.28	23.38	23.22	24.0	0.0	
100	QPSK	135	69	23.69	23.74	23.58	24.0	0.0	
100	QPSK	135	138	23.40	23.44	23.40	24.0	0.0	
100	QPSK	270	0	23.44	23.57	23.38	24.0	0.0	
100	16QAM	1	1	22.29	22.39	22.34	23.0	1.0	
100	64QAM	1	1	22.38	22.44	22.39	23.0	1.0	
100	256QAM	1	1	21.43	21.55	21.47	22.0	2.0	
Channel									
Frequency (MHz)				636868	639000	641132			
90	QPSK	1	1	23.57	23.67	23.50	24.0	0.0	
Channel									
Frequency (MHz)				646334	650000	653668			
80	QPSK	1	1	23.65	23.80	23.47	24.0	0.0	
Channel									
Frequency (MHz)				646000	650000	653000			
70	QPSK	1	1	23.57	23.64	23.47	24.0	0.0	
Channel									
Frequency (MHz)				646968	650000	653132			
60	QPSK	1	1	23.56	23.61	23.51	24.0	0.0	
Channel									
Frequency (MHz)				646334	650000	653668			
50	QPSK	1	1	23.58	23.60	23.55	24.0	0.0	
Channel									
Frequency (MHz)				646968	650000	653132			
40	QPSK	1	1	23.58	23.62	23.54	24.0	0.0	
Channel									
Frequency (MHz)				648000	650000	650000			
40	QPSK	1	1	23.56	23.69	23.49	24.0	0.0	
Channel									
Frequency (MHz)				647334	650000	646968			
20	QPSK	1	1	23.62	23.67	23.43	24.0	0.0	
Channel									
Frequency (MHz)				647168	650000	648332			
15	QPSK	1	1	23.58	23.61	23.51	24.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000			
10	QPSK	1	1	23.62	23.59	23.49	24.0	0.0	

Part270 n77 PC3 Ant 5									
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)					3840				
100	PI2 BPSK	1	1		23.40				
100	PI2 BPSK	1	137		22.83		24.0	0.0	
100	PI2 BPSK	1	271		22.67				
100	PI2 BPSK	135	0		23.29		24.0	0.0	
100	PI2 BPSK	135	69		23.50		24.0	0.0	
100	PI2 BPSK	135	138		23.33		24.0	0.0	
100	PI2 BPSK	270	0		23.33		24.0	0.0	
100	QPSK	1	1		22.88				
100	QPSK	1	137		23.44		24.0	0.0	
100	QPSK	1	271		22.72				
100	QPSK	135	0		23.30		24.0	0.0	
100	QPSK	135	69		23.67		24.0	0.0	
100	QPSK	135	138		23.35		24.0	0.0	
100	QPSK	270	0		23.52		24.0	0.0	
100	16QAM	1	1		22.35		23.0	1.0	
100	64QAM	1	1		22.34		23.0	1.0	
100	256QAM	1	1		21.47		22.0	2.0	
Channel									
Frequency (MHz)				633000	633332	633668			
90	QPSK	1	1	23.46	23.53	23.56	24.0	0.0	
Channel									
Frequency (MHz)				632668	633334	634000			
80	QPSK	1	1	23.45	23.58	23.56	24.0	0.0	
Channel									
Frequency (MHz)				632334	633334	634334			
70	QPSK	1	1	23.50	23.54	23.55	24.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668			
60	QPSK	1	1	23.54	23.59	23.58	24.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000			
50	QPSK	1	1	23.47	23.61	23.60	24.0	0.0	
Channel									
Frequency (MHz)				631334	633334	635334			
40	QPSK	1	1	23.53	23.52	23.52	24.0	0.0	
Channel									
Frequency (MHz)				630968	633334	635668			
20	QPSK	1	1	23.50	23.63	23.59	24.0	0.0	
Channel									
Frequency (MHz)				630600	633334	636168			
15	QPSK	1	1	23.46	23.60	23.49	24.0	0.0	
Channel									
Frequency (MHz)				630334	633334	636334			
10	QPSK	1	1	23.52	23.54	23.53	24.0	0.0	



Part270 n77 PC2 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.70	25.87	25.84			
100	PI2 BPSK	1	137	25.40	25.43	25.37	27.0	0.0	
100	PI2 BPSK	1	271	25.21	25.30	25.17			
100	PI2 BPSK	135	0	25.61	25.69	25.65	26.5	0.5	
100	PI2 BPSK	135	69	25.92	25.84	25.86	27.0	0.0	
100	PI2 BPSK	135	138	25.25	25.44	25.29	26.5	0.5	
100	PI2 BPSK	270	0	25.38	25.51	25.44			
100	QPSK	1	1	25.40	25.44	25.33			
100	QPSK	1	137	25.87	25.85	25.83	27.0	0.0	
100	QPSK	1	271	25.13	25.22	25.15			
100	QPSK	135	0	25.50	25.59	25.53	26.0	1.0	
100	QPSK	135	69	25.39	25.42	25.35	27.0	0.0	
100	QPSK	135	138	25.14	25.28	25.21	26.0	1.0	
100	QPSK	270	0	25.27	25.32	25.23			
100	16QAM	1	1	24.13	24.18	24.04	24.5	1.0	
100	16QAM	1	1	23.02	23.13	23.04	24.5	2.5	
100	25QAM	1	1	21.56	21.64	21.54	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3840	3935.01			
90	QPSK	1	1	28.27	28.29	28.27	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.25	28.28	28.31	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	28.25	28.29	28.28	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.33	28.35	28.32	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	28.25	28.37	28.22	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647334	650000	654668	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.35	28.34	28.21	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3707.52	3840	3972.51			
Channel									
Frequency (MHz)									
10	QPSK	1	1	28.34	28.38	28.24	27.0	0.0	

Part27Q n77 PC2 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.85					
100	PI2 BPSK	1	137	25.45			27.0	0.0	
100	PI2 BPSK	1	271	25.25					
100	PI2 BPSK	135	0	25.58			26.5	0.5	
100	PI2 BPSK	135	69	25.87			27.0	0.0	
100	PI2 BPSK	135	138	25.45			26.5	0.5	
100	PI2 BPSK	270	0	25.41					
100	QPSK	1	1	25.84					
100	QPSK	1	137	25.26			27.0	0.0	
100	QPSK	1	271	25.25					
100	QPSK	135	0	25.59			26.0	1.0	
100	QPSK	135	69	25.38			27.0	0.0	
100	QPSK	135	138	25.25			26.0	1.0	
100	QPSK	270	0	25.33					
100	16QAM	1	1	24.16			26.0	1.0	
100	16QAM	1	1	23.17			24.5	2.5	
100	25QAM	1	1	21.53			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR	
90	QPSK	1	1	28.28	28.33	28.27	#VALUE!	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	28.27	28.27	28.22	#VALUE!	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.27	28.27	28.22	#VALUE!	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	28.21	28.30	28.22	#VALUE!	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.28	28.25	28.25	#VALUE!	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631068	633334	635000	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	28.19	28.25	28.22	#VALUE!	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	28.25	28.30	28.24	#VALUE!	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630500	633334	633168	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	28.18	28.23	28.20	#VALUE!	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633334	630500	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	28.17	28.32	28.25	#VALUE!	0.0	

Part270 n78 PC3 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.37					
100	PI2 BPSK	1	137	22.61			24.0	0.0	
100	PI2 BPSK	1	271	22.67					
100	PI2 BPSK	135	0	23.20			24.0	0.0	
100	PI2 BPSK	135	69	23.47			24.0	0.0	
100	PI2 BPSK	135	138	23.30			24.0	0.0	
100	PI2 BPSK	270	0	23.35					
100	QPSK	1	1	22.84					
100	QPSK	1	137	23.26			24.0	0.0	
100	QPSK	1	271	22.61					
100	QPSK	135	0	23.33			24.0	0.0	
100	QPSK	135	69	23.71			24.0	0.0	
100	QPSK	135	138	23.60			24.0	0.0	
100	QPSK	270	0	23.65					
100	16QAM	1	1	22.25			23.0	1.0	
100	16QAM	1	1	22.37			22.0	2.0	
100	25QAM	1	1	21.42			22.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR	
90	QPSK	1	1	23.53	23.62	23.55	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	23.64	23.58	23.52	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.54	23.59	23.48	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.62	23.61	23.50	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.61	23.62	23.51	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	649000	650000	650668	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	23.54	23.58	23.50	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	23.64	23.50	23.53	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	650334	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	23.58	23.57	23.57	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	650500	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	23.58	23.65	23.50	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	650000	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	23.60	23.65	23.59	24.0	0.0	



Part27Q n78 PC3 Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					3000.01			
Frequency (MHz)								
100	PI2 BPSK	1	1	23.31				
100	PI2 BPSK	1	137	22.54			24.0	0.0
100	PI2 BPSK	1	271	22.60				
100	PI2 BPSK	135	0	23.11			24.0	0.0
100	PI2 BPSK	135	69	23.40			24.0	0.0
100	PI2 BPSK	135	138	23.24			24.0	0.0
100	PI2 BPSK	270	0	23.26				
100	QPSK	1	1	22.70				
100	QPSK	1	137	22.26			24.0	0.0
100	QPSK	1	271	22.52				
100	QPSK	135	0	23.18			24.0	0.0
100	QPSK	135	69	23.67			24.0	0.0
100	QPSK	135	138	23.48			24.0	0.0
100	QPSK	270	0	23.55				
100	16QAM	1	1	22.14			23.0	1.0
100	64QAM	1	1	22.31			23.0	1.0
100	256QAM	1	1	21.36			22.0	2.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3485	3000.01	3055.02	(dBm)	(dB)
90	QPSK	1	1	23.64	23.56	23.54	#VALUE!	0.0
Channel				632068	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3485.02	3000.01	3115.01	(dBm)	(dB)
80	QPSK	1	1	23.62	23.53	23.55	#VALUE!	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3000.01	3115.01	(dBm)	(dB)
70	QPSK	1	1	23.57	23.54	23.54	#VALUE!	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3485	3000.01	3055.02	(dBm)	(dB)
60	QPSK	1	1	23.54	23.53	23.51	#VALUE!	0.0
Channel				631068	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3000.01	3055	(dBm)	(dB)
50	QPSK	1	1	23.55	23.56	23.56	#VALUE!	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3000.01	3115.01	(dBm)	(dB)
40	QPSK	1	1	23.54	23.55	23.54	#VALUE!	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3485	3000.01	3135.02	(dBm)	(dB)
30	QPSK	1	1	23.55	23.57	23.57	#VALUE!	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3000.01	3140	(dBm)	(dB)
20	QPSK	1	1	23.55	23.52	23.57	#VALUE!	0.0
Channel				630400	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3000.01	3142.92	(dBm)	(dB)
15	QPSK	1	1	23.61	23.58	23.58	#VALUE!	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3000.01	3145.01	(dBm)	(dB)
10	QPSK	1	1	23.55	23.61	23.55	#VALUE!	0.0



n41 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				500202	518598	537000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.18	18.20	18.16	
100	PI/2 BPSK	1	137	18.72	18.79	18.65	20.0
100	PI/2 BPSK	1	271	18.75	18.78	18.66	
100	PI/2 BPSK	135	0	18.46	18.51	18.47	20.0
100	PI/2 BPSK	135	69	18.82	18.87	18.82	20.0
100	PI/2 BPSK	135	138	18.52	18.65	18.53	20.0
100	PI/2 BPSK	270	0	18.64	18.72	18.63	
100	QPSK	1	1	18.16	18.18	18.13	
100	QPSK	1	137	18.71	18.97	18.71	20.0
100	QPSK	1	271	18.67	18.76	18.71	
100	QPSK	135	0	18.39	18.54	18.48	20.0
100	QPSK	135	69	18.72	18.79	18.73	20.0
100	QPSK	135	138	18.54	18.69	18.65	20.0
100	QPSK	270	0	18.86	18.60	18.51	
100	16QAM	1	1	17.23	17.30	17.26	19.0
100	64QAM	1	1	17.42	17.57	17.48	19.0
100	256QAM	1	1	16.57	16.68	16.64	2.0
Channel				506200	518598	529998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	18.14	18.17	18.03	20.0
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	18.06	18.17	18.10	20.0
Channel				508202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	18.09	18.16	18.08	20.0
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	18.16	18.10	18.04	20.0
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	18.10	18.09	18.07	20.0
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	18.07	18.09	18.03	20.0
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	18.14	18.12	18.10	20.0
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	18.12	18.09	18.10	20.0
Channel				500700	518598	536998	
Frequency (MHz)				2503.5	2592.99	2682.48	
15	QPSK	1	1	18.16	18.13	18.05	20.0
Channel				500202	518598	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	18.09	18.16	18.08	20.0

n41 PC2 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				500202	518598	537000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.22	21.27	21.18	
100	PI/2 BPSK	1	137	21.88	21.91	21.82	23.0
100	PI/2 BPSK	1	271	21.88	21.92	21.84	
100	PI/2 BPSK	135	0	21.05	21.15	21.07	22.5
100	PI/2 BPSK	135	69	21.83	21.87	21.83	23.0
100	PI/2 BPSK	135	138	21.03	21.06	21.02	22.5
100	PI/2 BPSK	270	0	21.13	21.25	21.18	
100	QPSK	1	1	21.26	21.35	21.20	
100	QPSK	1	137	21.90	21.96	21.85	23.0
100	QPSK	1	271	21.71	21.85	21.82	
100	QPSK	135	0	20.52	20.63	20.59	22.0
100	QPSK	135	69	21.90	21.93	21.88	23.0
100	QPSK	135	138	20.71	20.88	20.71	22.0
100	QPSK	270	0	20.65	20.80	20.60	
100	16QAM	1	1	20.66	20.78	20.76	22.0
100	64QAM	1	1	19.29	19.33	19.22	20.5
100	256QAM	1	1	16.91	16.85	16.89	18.5
Channel				506200	518598	529998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	21.24	21.30	21.11	23.0
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	21.22	21.26	21.13	23.0
Channel				508202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	21.21	21.32	21.14	23.0
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	21.16	21.33	21.14	23.0
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	21.16	21.31	21.11	23.0
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	21.20	21.34	21.19	23.0
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	21.19	21.27	21.17	23.0
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	21.21	21.31	21.11	23.0
Channel				500700	518598	536998	
Frequency (MHz)				2503.5	2592.99	2682.48	
15	QPSK	1	1	21.24	21.30	21.15	23.0
Channel				500202	518598	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	21.25	21.30	21.17	23.0



Part270 n77 PC3 Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 665000	Middle Ch. / Freq. 665000	High Ch. / Freq. 665000		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.42	20.37	20.25		
100	PI2 BPSK	1	137	19.83	19.88	19.75	21.0	0.0
100	PI2 BPSK	1	271	19.74	19.88	19.75		
100	PI2 BPSK	135	0	20.44	20.47	20.38	21.0	0.0
100	PI2 BPSK	135	69	20.31	20.42	20.49	21.0	0.0
100	PI2 BPSK	135	138	20.37	20.45	20.37	21.0	0.0
100	PI2 BPSK	270	0	20.42	20.50	20.41		
100	QPSK	1	1	19.56	19.65	19.57		
100	QPSK	1	137	20.47	20.57	20.59	21.0	0.0
100	QPSK	1	271	19.74	19.77	19.73		
100	QPSK	135	0	20.37	20.44	20.40	21.0	0.0
100	QPSK	135	69	20.43	20.55	20.42	21.0	0.0
100	QPSK	135	138	20.28	20.31	20.25	21.0	0.0
100	QPSK	270	0	20.32	20.39	20.32		
100	16QAM	1	1	19.31	19.36	19.31	20.0	1.0
100	16QAM	1	1	19.24	19.31	19.18	20.0	1.0
100	256QAM	1	1	18.23	18.38	18.25	19.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.41	20.44	20.46	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.41	20.48	20.42	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.42	20.53	20.43	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.42	20.51	20.45	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.34	20.42	20.44	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.34	20.47	20.42	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.38	20.51	20.45	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.40	20.47	20.44	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.34	20.54	20.36	21.0	0.0

Part270Q n77 PC3 Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 633000	Mid/High Ch. / Freq. 633334	High Ch. / Freq. 633334		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		20.24		21.0	0.0
100	PI2 BPSK	1	271		19.30			
100	PI2 BPSK	135	0		19.37			
100	PI2 BPSK	135	69		20.24		21.0	0.0
100	PI2 BPSK	135	138		20.29		21.0	0.0
100	PI2 BPSK	270	0		20.34		21.0	0.0
100	PI2 BPSK	270	0		20.41			
100	QPSK	1	1		19.58			
100	QPSK	1	137		20.46		21.0	0.0
100	QPSK	1	271		19.68			
100	QPSK	135	0		20.28		21.0	0.0
100	QPSK	135	69		20.31		21.0	0.0
100	QPSK	135	138		20.26		21.0	0.0
100	QPSK	270	0		20.28		21.0	0.0
100	16QAM	1	1		19.30		20.0	1.0
100	16QAM	1	1		19.24		20.0	1.0
100	256QAM	1	1		18.24		19.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.35	20.37	20.42	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.32	20.34	20.41	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.32	20.34	20.41	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.41	20.31	20.32	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.34	20.36	20.34	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.33	20.33	20.40	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.38	20.41	20.42	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.36	20.35	20.32	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.42	20.42	20.31	21.0	0.0

Part270 n77 PC2 Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 665000	Mid/High Ch. / Freq. 665000	High Ch. / Freq. 665000		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.52	23.03	22.98		
100	PI2 BPSK	1	137	22.10	22.14	22.12	24.0	0.0
100	PI2 BPSK	1	271	22.16	22.18	22.16		
100	PI2 BPSK	135	0	22.94	23.02	23.02	24.0	0.0
100	PI2 BPSK	135	69	23.06	23.07	23.07	24.0	0.0
100	PI2 BPSK	135	138	23.15	23.15	23.14	24.0	0.0
100	PI2 BPSK	270	0	23.21	23.25	23.23		
100	QPSK	1	1	22.32	22.39	22.35		
100	QPSK	1	137	23.29	23.31	23.28	24.0	0.0
100	QPSK	1	271	22.47	22.53	22.50		
100	QPSK	135	0	23.07	23.10	23.03	24.0	0.0
100	QPSK	135	69	23.06	23.13	23.07	24.0	0.0
100	QPSK	135	138	23.02	23.05	23.02	24.0	0.0
100	QPSK	270	0	23.02	23.11	23.02		
100	16QAM	1	1	21.36	21.37	21.27	23.0	1.0
100	16QAM	1	1	19.87	19.88	19.81	21.5	2.5
100	256QAM	1	1	18.42	18.47	18.45	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.32	23.30	23.26	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.34	23.29	23.26	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.32	23.33	23.29	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.24	23.31	23.24	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.28	23.25	23.25	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.25	23.34	23.25	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.23	23.24	23.24	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.29	23.27	23.24	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.31	23.32	23.29	24.0	0.0



Part27Q n77 PC2 Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.03	3500.01					
100	PI2 BPSK	1	137	22.03			24.0	0.0		
100	PI2 BPSK	1	271	22.18						
100	PI2 BPSK	135	0	22.92			24.0	0.0		
100	PI2 BPSK	135	69	22.99			24.0	0.0		
100	PI2 BPSK	135	138	23.03			24.0	0.0		
100	PI2 BPSK	270	0	23.11						
100	QPSK	1	1	22.39						
100	QPSK	1	137	22.34			24.0	0.0		
100	QPSK	1	271	22.40						
100	QPSK	135	0	23.10			24.0	0.0		
100	QPSK	135	69	23.02			24.0	0.0		
100	QPSK	135	138	22.88			24.0	0.0		
100	QPSK	270	0	23.10						
100	16QAM	1	1	21.24			23.0	1.0		
100	16QAM	1	1	19.88			21.5	2.5		
100	25QAM	1	1	18.33			19.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.16	23.25	23.19	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	63208	63334	63460	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3482.02	3500.01	3518.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.13	23.20	23.19	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.09	23.21	23.10	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63108	63334	63500	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3475.02	3500.01	3525.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.14	23.20	23.15	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63068	63334	63600	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3460.02	3500.01	3540.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.11	23.17	23.18	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.08	23.25	23.18	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	63034	63334	63368	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	3455.01	3500.01	3465.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.08	23.21	23.16	24.0	0.0		

Part27Q n78 PC3 Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.40	3750	3750				
100	PI2 BPSK	1	137	20.64			22.0	0.0		
100	PI2 BPSK	1	271	20.82						
100	PI2 BPSK	135	0	21.34			22.0	0.0		
100	PI2 BPSK	135	69	21.46			22.0	0.0		
100	PI2 BPSK	135	138	21.34			22.0	0.0		
100	PI2 BPSK	270	0	21.43						
100	QPSK	1	1	20.41						
100	QPSK	1	137	21.69			22.0	0.0		
100	QPSK	1	271	20.68						
100	QPSK	135	0	21.22			22.0	0.0		
100	QPSK	135	69	21.42			22.0	0.0		
100	QPSK	135	138	21.20			22.0	0.0		
100	QPSK	270	0	21.29						
100	16QAM	1	1	20.37			21.0	1.0		
100	16QAM	1	1	20.48			21.0	1.0		
100	25QAM	1	1	19.73			20.0	2.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	64968	65000	65034	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.42	21.49	21.45	#VALUE!	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	64834	65000	65068	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3742.01	3750	3752.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.36	21.47	21.42	#VALUE!	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64834	65000	65100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.37	21.48	21.46	#VALUE!	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	64768	65000	65234	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3715.02	3750	3795.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	64768	65000	65084	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.37	21.51	21.49	#VALUE!	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.36	21.47	21.48	#VALUE!	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.43	21.53	21.51	#VALUE!	0.0		

Part27Q n78 PC3 Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.34	3500.01					
100	PI2 BPSK	1	137	20.58			22.0	0.0		
100	PI2 BPSK	1	271	20.76						
100	PI2 BPSK	135	0	21.21			22.0	0.0		
100	PI2 BPSK	135	69	21.43			22.0	0.0		
100	PI2 BPSK	135	138	21.21			22.0	0.0		
100	PI2 BPSK	270	0	21.30						
100	QPSK	1	1	20.47						
100	QPSK	1	137	21.48			22.0	0.0		
100	QPSK	1	271	20.64						
100	QPSK	135	0	21.12			22.0	0.0		
100	QPSK	135	69	21.32			22.0	0.0		
100	QPSK	135	138	21.16			22.0	0.0		
100	QPSK	270	0	21.25						
100	16QAM	1	1	20.28			21.0	1.0		
100	16QAM	1	1	20.42			21.0	1.0		
100	25QAM	1	1	19.65			20.0	2.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.36	21.45	21.38	22.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	63208	63334	63400	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3482.01	3500.01	3518.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.33	21.38	21.37	22.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63108	63334	63500	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3475.02	3500.01	3525.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.32	21.39	21.28	22.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63134	63334	63334	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3475.02	3500.01	3535.01	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63100	63334	63468	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3465.02	3500.01	3540.02	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.40	21.42	21.37	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63050	63334	63568	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	3						



Reduced Power Mode for Receiver on for 5GNR

n41 PC2 Ant1 SA DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.23	23.39	23.18	25.0	0
100	PI/2 BPSK	1	137	23.28	23.32	23.25		
100	PI/2 BPSK	1	271	23.22	23.37	23.19		
100	PI/2 BPSK	135	0	23.31	23.31	23.23	25.0	0
100	PI/2 BPSK	135	69	23.21	23.40	23.19	25.0	0
100	PI/2 BPSK	135	138	23.28	23.32	23.22	25.0	0
100	PI/2 BPSK	270	0	23.24	23.40	23.16		
100	QPSK	1	1	23.28	23.33	23.25	25.0	0
100	QPSK	1	137	23.22	23.66	23.17		
100	QPSK	1	271	23.31	23.30	23.26		
100	QPSK	135	0	23.43	23.40	23.36	25.0	0
100	QPSK	135	69	23.48	23.37	23.42	25.0	0.0
100	QPSK	135	138	23.44	23.49	23.39	25.0	0
100	QPSK	270	0	23.41	23.89	23.41		
100	16QAM	1	1	23.22	23.32	23.31	25.0	0
100	64QAM	1	1	22.84	22.98	22.92	24.5	0.5
100	256QAM	1	1	20.92	21.02	20.96	22.5	2.5
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.20	23.29	23.17	25.0	0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.24	23.34	23.19	25.0	0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.24	23.32	23.12	25.0	0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.19	23.33	23.16	25.0	0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.98		
50	QPSK	1	1	23.20	23.32	23.11	25.0	0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.19	23.38	23.13	25.0	0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.24	23.34	23.21	25.0	0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.19	23.40	23.17	25.0	0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	23.23	23.30	23.16	25.0	0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	23.18	23.33	23.13	25.0	0



n2 Ant4 SA DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				373000	376000	379000		
Frequency (MHz)				1865	1880	1895		
30	PI2 BPSK	1	1	20.74	20.77	20.69		
30	PI2 BPSK	1	80	21.07	21.15	21.07	22.5	0.0
30	PI2 BPSK	1	158	20.67	20.74	20.66		
30	PI2 BPSK	80	0	20.85	21.05	20.97	22.5	0.0
30	PI2 BPSK	80	40	21.04	21.09	20.99	22.5	0.0
30	PI2 BPSK	80	80	20.83	20.87	20.75	22.5	0.0
30	PI2 BPSK	160	0	20.86	20.90	20.86		
30	QPSK	1	1	20.77	20.92	20.88		
30	QPSK	1	80	21.13	21.31	21.12	22.5	0.0
30	QPSK	1	158	20.67	20.69	20.64		
30	QPSK	80	0	20.98	21.02	21.00	22.5	0.0
30	QPSK	80	40	21.08	21.18	21.12	22.5	0.0
30	QPSK	80	80	20.80	20.89	20.90	22.5	0.0
30	QPSK	160	0	20.91	21.05	20.90	22.5	0.0
30	16QAM	1	1	20.56	20.61	20.60	22.5	0.0
30	64QAM	1	1	20.47	20.54	20.70	22.0	0.5
30	256QAM	1	1	20.38	20.52	20.46	21.0	1.5
Channel				372500	375500	378500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	20.71	20.88	20.83	22.5	0.0
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	20.71	20.73	20.66		
20	PI2 BPSK	1	53	21.01	21.10	21.03	22.5	0.0
20	PI2 BPSK	1	104	20.63	20.68	20.63		
20	PI2 BPSK	50	0	20.90	21.01	20.91	22.5	0.0
20	PI2 BPSK	50	28	21.00	21.05	20.93	22.5	0.0
20	PI2 BPSK	50	56	20.76	20.81	20.70	22.5	0.0
20	PI2 BPSK	100	0	20.81	20.85	20.82		
20	QPSK	1	1	20.71	20.85	20.82	22.5	0.0
20	QPSK	1	53	21.06	21.27	21.08		
20	QPSK	1	104	20.64	20.65	20.60		
20	QPSK	50	0	20.94	20.99	20.96	23.0	1.0
20	QPSK	50	28	21.03	21.14	21.07	23.0	1.0
20	QPSK	50	56	20.76	20.84	20.86	23.0	1.0
20	QPSK	100	0	20.87	20.99	20.74		
20	16QAM	1	1	20.52	20.56	20.55	22.5	0.0
20	64QAM	1	1	20.42	20.45	20.60	22.0	0.5
20	256QAM	1	1	20.35	20.47	20.42	21.0	1.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.05	21.18	21.01	22.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.02	21.21	21.07	22.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	21.01	21.26	20.99	22.5	0.0

n5 Ant4 SA Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				165300	167300	169300		
Frequency (MHz)				836.5	836.5	836.5		
25	PI2 BPSK	1	1	22.28				
25	PI2 BPSK	1	80	22.49			24.0	0.0
25	PI2 BPSK	1	158	22.42				
25	PI2 BPSK	80	0	22.08			23.5	0.5
25	PI2 BPSK	80	40	22.54			24.0	0.0
25	PI2 BPSK	80	80	22.11			23.5	0.5
25	PI2 BPSK	160	0	22.17				
25	QPSK	1	1	22.52				
25	QPSK	1	80	22.32			24.0	0.0
25	QPSK	1	158	22.39				
25	QPSK	80	0	21.58			23.0	1.0
25	QPSK	80	40	22.65			24.0	0.0
25	QPSK	80	80	21.62			23.0	1.0
25	QPSK	160	0	21.65			23.0	1.0
25	16QAM	1	1	21.09			23.0	1.0
25	64QAM	1	1	19.57			21.5	2.5
25	256QAM	1	1	18.31			19.5	4.5
Channel				165800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.18	22.25	22.15		
20	PI2 BPSK	1	53	22.33	22.42	22.33	24.0	0.0
20	PI2 BPSK	1	104	22.23	22.36	22.26		
20	PI2 BPSK	50	0	21.98	22.02	21.97	23.5	0.5
20	PI2 BPSK	50	28	22.43	22.51	22.39	24.0	0.0
20	PI2 BPSK	50	56	21.97	22.08	21.90	23.5	0.5
20	PI2 BPSK	100	0	22.05	22.11	22.00		
20	QPSK	1	1	22.34	22.46	22.37		
20	QPSK	1	53	22.15	22.28	22.14	24.0	0.0
20	QPSK	1	104	22.29	22.36	22.22		
20	QPSK	50	0	21.45	21.51	21.38	23.0	1.0
20	QPSK	50	28	22.47	22.60	22.47	24.0	0.0
20	QPSK	50	56	21.52	21.56	21.46	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.54		
20	16QAM	1	1	20.98	21.03	21.01	23.0	1.0
20	64QAM	1	1	19.47	19.51	19.48	21.5	2.5
20	256QAM	1	1	18.13	18.25	18.13	19.5	4.5
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.45	22.53	22.42	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.47	22.56	22.41	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.45	22.60	22.44	24.0	0.0



n12 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.17	22.22	22.09		
15	PI/2 BPSK	1	40	22.05	22.10	22.03	24.0	0.0
15	PI/2 BPSK	1	77	22.05	22.11	22.05		
15	PI/2 BPSK	36	0	21.54	21.63	21.53	23.5	0.5
15	PI/2 BPSK	36	22	22.04	22.11	22.06	24.0	0.0
15	PI/2 BPSK	36	43	21.61	21.65	21.60	23.5	0.5
15	PI/2 BPSK	75	0	21.62	21.67	21.52		
15	QPSK	1	1	22.26	22.31	22.24		
15	QPSK	1	40	22.06	22.14	22.07	24.0	0.0
15	QPSK	1	77	22.02	22.10	22.06		
15	QPSK	36	0	21.08	21.11	21.03	23.0	1.0
15	QPSK	36	22	22.11	22.26	22.17	24.0	0.0
15	QPSK	36	43	21.14	21.22	21.08	23.0	1.0
15	QPSK	75	0	21.22	21.26	21.23		
15	16QAM	1	1	21.23	21.31	21.16	23.0	1.0
15	16QAM	1	1	19.59	19.68	19.54	21.5	2.5
15	256QAM	1	1	17.84	17.95	17.80	19.5	4.5
Channel								
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.17	22.27	22.22	24.0	0.0
Channel								
Frequency (MHz)				14300	14150	14200		
5	QPSK	1	1	22.14	22.28	22.23	24.0	0.0

n25 Ant4 SA DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1670	1662.5	1665		
40	PI/2 BPSK	1	1	20.52	20.65	20.62		
40	PI/2 BPSK	1	108	21.04	21.24	21.07	22.5	0.0
40	PI/2 BPSK	1	214	20.55	20.71	20.53		
40	PI/2 BPSK	108	0	20.88	20.99	20.91	22.5	0.0
40	PI/2 BPSK	108	54	20.99	21.08	21.11	22.5	0.0
40	PI/2 BPSK	108	108	20.86	20.86	20.80	22.5	0.0
40	PI/2 BPSK	216	0	20.95	21.02	20.88		
40	QPSK	1	1	20.59	20.74	20.55		
40	QPSK	1	108	21.21	21.24	21.17	22.5	0.0
40	QPSK	1	214	20.55	20.67	20.59		
40	QPSK	108	0	20.81	20.82	20.78	22.5	0.0
40	QPSK	108	54	20.91	21.11	20.88	22.5	0.0
40	QPSK	108	108	20.76	20.86	20.79	22.5	0.0
40	QPSK	216	0	20.90	21.00	20.93		
40	16QAM	1	1	20.54	20.62	20.52	22.0	0.0
40	16QAM	1	1	20.38	20.46	20.41	22.0	0.5
40	256QAM	1	1	19.79	19.92	19.83	21.0	1.5
Channel								
Frequency (MHz)				1685	1682.5	1690		
30	QPSK	1	1	21.08	21.23	21.02	22.5	0.0
Channel								
Frequency (MHz)				37250	37650	38050		
25	QPSK	1	1	21.06	21.24	21.13	22.5	0.0
Channel								
Frequency (MHz)				37200	37650	38100		
20	QPSK	1	1	21.09	21.23	21.05	22.5	0.0
Channel								
Frequency (MHz)				37150	37650	38150		
15	QPSK	1	1	21.09	21.25	21.03	22.5	0.0
Channel								
Frequency (MHz)				37100	37650	38200		
10	QPSK	1	1	21.09	21.21	21.12	22.5	0.0
Channel								
Frequency (MHz)				37050	37650	38250		
5	QPSK	1	1	21.06	21.29	21.07	22.5	0.0

n26 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				824	831.5	836		
20	PI/2 BPSK	1	1	22.32	22.39	22.29		
20	PI/2 BPSK	1	53	22.29	22.32	22.20	24.0	0.0
20	PI/2 BPSK	1	104	22.22	22.25	22.15		
20	PI/2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5
20	PI/2 BPSK	50	26	22.18	22.22	22.15	24.0	0.0
20	PI/2 BPSK	50	56	21.72	21.76	21.72	23.5	0.5
20	PI/2 BPSK	100	0	21.78	21.86	21.79		
20	QPSK	1	1	22.42	22.45	22.39		
20	QPSK	1	53	22.22	22.33	22.25	24.0	0.0
20	QPSK	1	104	22.15	22.23	22.11		
20	QPSK	50	0	21.12	21.22	21.07	23.0	1.0
20	QPSK	50	28	22.23	22.28	22.27	24.0	0.0
20	QPSK	50	56	21.28	21.37	21.27	23.0	1.0
20	QPSK	100	0	21.39	21.46	21.41		
20	16QAM	1	1	21.44	21.50	21.43	23.0	1.0
20	16QAM	1	1	19.72	19.85	19.77	21.5	2.5
20	256QAM	1	1	18.01	18.10	18.05	19.5	4.5
Channel								
Frequency (MHz)				16300	16300	16300		
15	QPSK	1	1	22.30	22.36	22.34	#REF!	0.0
Channel								
Frequency (MHz)				16300	16300	16300		
10	QPSK	1	1	22.39	22.41	22.31	#REF!	0.0
Channel								
Frequency (MHz)				16300	16300	16300		
5	QPSK	1	1	22.38	22.31	22.24	#REF!	0.0



n66 Ant4 SA DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	18.19	18.22	18.14			
40	PI2 BPSK	1	108	19.11	19.18	19.09	20.0	0.0	
40	PI2 BPSK	1	214	18.07	18.16	18.03			
40	PI2 BPSK	108	0	18.50	18.59	18.54	20.0	0.0	
40	PI2 BPSK	108	54	18.91	18.97	18.90	20.0	0.0	
40	PI2 BPSK	108	108	18.42	18.54	18.41	20.0	0.0	
40	PI2 BPSK	216	0	18.45	18.56	18.50			
40	QPSK	1	1	18.11	18.28	18.23			
40	QPSK	1	108	18.15	18.24	18.07	20.0	0.0	
40	QPSK	1	214	18.03	18.12	18.01			
40	QPSK	108	0	18.40	18.51	18.45	20.0	0.0	
40	QPSK	108	54	18.83	18.88	18.79	20.0	0.0	
40	QPSK	108	108	18.47	18.53	18.40	20.0	0.0	
40	QPSK	216	0	18.52	18.57	18.51			
40	16QAM	1	1	18.12	18.16	18.09	20.0	0.0	
40	64QAM	1	1	18.07	18.11	18.05	20.0	0.0	
40	256QAM	1	1	18.53	18.57	18.48	20.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.10	18.16	18.84	20.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
25	QPSK	1	1	19.05	19.11	18.95	20.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.02	19.13	19.02	20.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.01	19.17	18.99	20.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
10	QPSK	1	1	19.01	19.10	18.94	20.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.10	19.20	19.02	20.0	0.0	

n71 Ant4 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.49	22.53	22.40			
20	PI2 BPSK	1	53	22.37	22.40	22.30	24.0	0.0	
20	PI2 BPSK	1	104	22.23	22.37	22.29			
20	PI2 BPSK	50	0	21.88	21.98	21.93	23.5	0.5	
20	PI2 BPSK	50	28	22.20	22.33	22.26	24.0	0.0	
20	PI2 BPSK	50	56	21.76	21.86	21.76	23.5	0.5	
20	PI2 BPSK	100	0	21.81	21.95	21.82			
20	QPSK	1	1	22.51	22.55	22.47			
20	QPSK	1	53	22.36	22.47	22.42	24.0	0.0	
20	QPSK	1	104	22.54	22.59	22.55			
20	QPSK	50	0	21.30	21.34	21.23	23.0	1.0	
20	QPSK	50	28	22.35	22.43	22.39	24.0	0.0	
20	QPSK	50	56	21.32	21.44	21.32	23.0	1.0	
20	QPSK	100	0	21.42	21.48	21.45			
20	16QAM	1	1	21.50	21.82	21.54	23.0	1.0	
20	64QAM	1	1	19.98	20.02	19.95	21.5	2.5	
20	256QAM	1	1	18.14	18.20	18.08	18.5	4.5	
Channel				134100	135100	136100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.41	22.48	22.37	24.0	0.0	
Channel				133600	136100	136600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				666	680.5	695			
10	QPSK	1	1	22.44	22.43	22.38	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				662.5	680.5	692.5			
5	QPSK	1	1	22.38	22.45	22.35	24.0	0.0	



n41 PC2&PC3 Ant4 SA DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pi/2 BPSK	1	1	14.16	14.20	14.09		
100	Pi/2 BPSK	1	137	15.25	15.29	15.25	16.0	0.0
100	Pi/2 BPSK	1	271	14.06	14.15	14.05		
100	Pi/2 BPSK	135	0	14.83	14.89	14.75	16.0	0.0
100	Pi/2 BPSK	135	69	15.00	15.15	15.11	16.0	0.0
100	Pi/2 BPSK	135	138	14.82	14.89	14.78		
100	Pi/2 BPSK	270	0	14.82	14.95	14.85	16.0	0.0
100	QPSK	1	1	14.19	14.27	14.24		
100	QPSK	1	137	14.95	15.31	15.07	16.0	0.0
100	QPSK	1	271	14.25	14.35	14.23		
100	QPSK	135	0	14.79	14.83	14.79	16.0	0.0
100	QPSK	135	69	14.93	15.07	14.96	16.0	0.0
100	QPSK	135	138	14.84	14.93	14.84		
100	QPSK	270	0	14.93	14.98	14.86	16.0	0.0
100	16QAM	1	1	14.13	14.26	14.14	16.0	0.0
100	64QAM	1	1	14.14	14.22	14.07	16.0	0.0
100	256QAM	1	1	14.04	14.14	14.09	16.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.82	15.25	15.04	16.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.89	15.28	14.99	16.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.88	15.22	14.99	16.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.80	15.27	14.97	16.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.87	15.19	14.99	16.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.87	15.28	14.94	16.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.89	15.27	14.93	16.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.92	15.20	14.93	16.0	0.0
Channel				500700	518598	536996		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	14.86	15.23	14.94	16.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	14.81	15.17	15.03	16.0	0.0



n2 Ant4 NSA DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1895	1890	1895			
30	PI2 BPSK	1	1	17.22	17.05	16.97			
30	PI2 BPSK	1	80	17.36	17.43	17.38	18.5	0.0	
30	PI2 BPSK	1	158	16.96	17.05	16.94			
30	PI2 BPSK	80	0	17.10	17.25	17.17	18.5	0.0	
30	PI2 BPSK	80	40	17.16	17.37	17.17	18.5	0.0	
30	PI2 BPSK	80	80	17.02	17.16	17.06	18.5	0.0	
30	PI2 BPSK	160	0	17.19	17.27	17.24			
30	QPSK	1	1	16.92	17.04	17.02			
30	QPSK	1	80	17.44	17.47	17.41	18.5	0.0	
30	QPSK	1	158	16.95	17.09	16.98			
30	QPSK	80	0	17.28	17.31	17.19	18.5	0.0	
30	QPSK	80	40	17.19	17.34	17.22	18.5	0.0	
30	QPSK	80	80	17.09	17.12	17.03	18.5	0.0	
30	QPSK	160	0	17.24	17.26	17.10			
30	16QAM	1	1	16.88	16.93	16.78	18.5	0.0	
30	64QAM	1	1	16.79	16.87	16.79	18.5	0.0	
30	256QAM	1	1	17.26	17.40	17.21	18.5	0.0	
Channel				37600	37600	37600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	16.85	16.99	16.86	18.5	0.0	
Channel				37200	37600	38000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1869	1880	1890			
20	PI2 BPSK	1	1	16.97	17.01	16.90			
20	PI2 BPSK	1	53	17.31	17.36	17.31	18.5	0.0	
20	PI2 BPSK	1	104	16.92	16.98	16.89			
20	PI2 BPSK	50	0	17.04	17.18	17.13	18.5	0.0	
20	PI2 BPSK	50	28	17.08	17.34	17.13	18.5	0.0	
20	PI2 BPSK	50	56	16.98	17.13	17.00	18.5	0.0	
20	PI2 BPSK	100	0	17.16	17.22	17.10			
20	QPSK	1	1	16.87	16.99	16.95			
20	QPSK	1	53	17.37	17.43	17.37	18.5	0.0	
20	QPSK	1	104	16.89	17.02	16.83			
20	QPSK	50	0	17.21	17.27	17.14	23.0	1.0	
20	QPSK	50	28	17.13	17.29	17.17	24.0	1.0	
20	QPSK	50	56	17.05	17.07	16.97	23.0	1.0	
20	QPSK	100	0	17.20	17.19	17.05			
20	16QAM	1	1	16.85	16.87	16.74	18.5	0.0	
20	64QAM	1	1	16.73	16.83	16.73	18.5	0.0	
20	256QAM	1	1	17.19	17.36	17.18	18.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1637.2	1680	1692.2			
15	QPSK	1	1	17.27	17.24	17.22	18.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1655	1680	1695			
10	QPSK	1	1	17.35	17.36	17.35	18.5	0.0	
Channel				370500	376000	375500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1652.5	1680	1697.5			
5	QPSK	1	1	17.41	17.40	17.33	18.5	0.0	

n5 Ant4 NSA DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				636.5					
25	PI2 BPSK	1	1	16.80					
25	PI2 BPSK	1	80	19.05			20.5	0.0	
25	PI2 BPSK	1	158	18.93					
25	PI2 BPSK	80	0	19.05			20.5	0.0	
25	PI2 BPSK	80	40	19.09			20.5	0.0	
25	PI2 BPSK	80	80	19.10			20.5	0.0	
25	PI2 BPSK	160	0	19.16					
25	QPSK	1	1	19.17					
25	QPSK	1	80	19.16			20.5	0.0	
25	QPSK	1	158	18.87					
25	QPSK	80	0	19.15			20.5	0.0	
25	QPSK	80	40	19.02			20.5	0.0	
25	QPSK	80	80	18.99			20.5	0.0	
25	QPSK	160	0	19.00					
25	16QAM	1	1	18.67			20.5	0.0	
25	64QAM	1	1	18.57			20.5	0.0	
25	256QAM	1	1	18.31			19.5	1.0	
Channel				168000	167300	167900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	16.82	16.77	16.82			
20	PI2 BPSK	1	53	18.53	18.99	18.91	20.5	0.0	
20	PI2 BPSK	1	104	18.53	18.87	18.76			
20	PI2 BPSK	50	0	18.99	18.99	18.99	20.5	0.0	
20	PI2 BPSK	50	28	18.93	19.04	18.90	20.5	0.0	
20	PI2 BPSK	50	56	19.01	19.05	19.01	20.5	0.0	
20	PI2 BPSK	100	0	19.08	19.12	18.96			
20	QPSK	1	1	18.92	19.12	18.93			
20	QPSK	1	53	19.10	19.11	18.98	20.5	0.0	
20	QPSK	1	104	18.71	18.83	18.76			
20	QPSK	50	0	19.02	19.11	19.02	23.0	1.0	
20	QPSK	50	28	18.96	18.96	19.03	24.0	1.0	
20	QPSK	50	56	18.95	18.93	18.83	23.0	1.0	
20	QPSK	100	0	18.97	19.01	18.94	20.5	0.0	
20	16QAM	1	1	18.61	18.62	18.63	20.5	0.0	
20	64QAM	1	1	18.49	18.53	18.48	20.5	0.0	
20	256QAM	1	1	18.17	18.27	18.10	19.5	1.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	18.84	19.07	18.91	20.5	0.0	
Channel				168800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	18.92	19.05	18.85	20.5	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	18.88	19.10	18.90	20.5	0.0	

n7 Ant4 NSA DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2225	2235	2245			
50	PI2 BPSK	1	1	15.32	15.40	15.33			
50	PI2 BPSK	1	135	15.70	15.83	15.76	16.5	0.0	
50	PI2 BPSK	1	268	15.50	15.57	15.46			
50	PI2 BPSK	135	0	15.49	15.60	15.54	16.5	0.0	
50	PI2 BPSK	135	68	15.71	15.83	15.80	16.5	0.0	
50	PI2 BPSK	135	135	15.69	15.73	15.63	16.5	0.0	
50	PI2 BPSK	270	0	15.69	15.81	15.71			
50	QPSK	1	1	15.82	15.88	15.78			
50	QPSK	1	135	15.83	15.44	15.35	16.5	0.0	
50	QPSK	1	268	15.58	15.69	15.48			
50	QPSK	135	0	15.49	15.57	15.58	16.5	0.0	
50	QPSK	135	68	15.77	15.83	15.73	16.5	0.0	
50	QPSK	135	135	15.64	15.71	15.67	16.5	0.0	
50	QPSK	270	0	15.78	15.78	15.85			
50	16QAM	1	1	15.17	15.27	15.29	16.5	0.0	
50	64QAM	1	1	15.07	15.25	15.19	16.5	0.0	
50	256QAM	1	1	15.08	15.13	15.16	16.5	0.0	
Channel				505000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	15.70	15.80	15.63	16.5	0.0	
Channel				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	15.68	15.72	15.73	16.5	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2515	2527.5			
25	QPSK	1	1	15.71	15.81	15.85	16.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	15.68	15.73	15.70	16.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	15.68	15.82	15.68	16.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	15.78	15.76	15.65	16.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2597.5			
5	QPSK	1	1	15.74	15.80	15.84	16.5	0.0	



n12 Ant4 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				141900	141600	141700			
Frequency (MHz)									
15	PI2 BPSK	1	1	22.17	22.22	22.09			
15	PI2 BPSK	1	49	22.05	22.10	22.03	24.0	0.0	
15	PI2 BPSK	1	77	22.05	22.11	22.05			
15	PI2 BPSK	36	0	21.54	21.83	21.53	23.5	0.5	
15	PI2 BPSK	36	22	22.04	22.11	22.06	24.0	0.0	
15	PI2 BPSK	36	43	21.81	21.85	21.80	23.5	0.5	
15	PI2 BPSK	75	0	21.82	21.87	21.82			
15	QPSK	1	1	22.28	22.31	22.24			
15	QPSK	1	49	22.28	22.14	22.07	24.0	0.0	
15	QPSK	1	77	22.02	22.10	22.06			
15	QPSK	36	0	21.08	21.11	21.03	23.0	1.0	
15	QPSK	36	22	22.11	22.26	22.17	24.0	0.0	
15	QPSK	36	43	21.14	21.22	21.08	23.0	1.0	
15	QPSK	75	0	21.22	21.28	21.23			
15	16QAM	1	1	21.23	21.31	21.16	23.0	1.0	
15	64QAM	1	1	19.99	19.88	19.54	21.5	2.5	
15	256QAM	1	1	17.24	17.05	17.00	19.5	4.5	
Channel									
				142000	141900	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.17	22.27	22.22	24.0	0.0	
Channel									
				140900	141600	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.14	22.28	22.23	24.0	0.0	

n25 Ant4 NSA DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				374000	376500	379000			
Frequency (MHz)									
40	PI2 BPSK	1	1	18.55	18.68	18.65			
40	PI2 BPSK	1	108	17.29	17.36	17.25	18.5	0.0	
40	PI2 BPSK	1	214	18.63	18.68	18.53			
40	PI2 BPSK	108	0	18.97	17.07	18.94	18.5	0.0	
40	PI2 BPSK	108	54	17.13	17.23	17.12	18.5	0.0	
40	PI2 BPSK	108	108	18.94	17.12	17.06	18.5	0.0	
40	PI2 BPSK	216	0	17.12	17.12	17.06			
40	QPSK	1	1	18.57	18.62	18.59			
40	QPSK	1	108	17.31	17.43	17.25	18.5	0.0	
40	QPSK	1	214	18.60	18.53	18.56			
40	QPSK	108	0	18.97	17.08	18.94	18.5	0.0	
40	QPSK	108	54	17.15	17.28	17.08	18.5	0.0	
40	QPSK	108	108	17.06	17.09	18.59	18.5	0.0	
40	QPSK	216	0	17.10	17.13	17.00			
40	16QAM	1	1	18.61	18.69	18.63	18.5	0.0	
40	64QAM	1	1	18.52	18.58	18.58	18.5	0.0	
40	256QAM	1	1	18.82	18.82	18.75	18.5	0.0	
Channel									
				372000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	17.26	17.38	17.18	18.5	0.0	
Channel									
				372900	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	17.18	17.32	17.17	18.5	0.0	
Channel									
				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	18.0	18.25	18.02	18.5	0.0	
Channel									
				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	17.25	17.41	17.21	18.5	0.0	
Channel									
				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	17.19	17.40	17.14	18.5	0.0	
Channel									
				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	17.26	17.35	17.14	18.5	0.0	

n26 Ant4 NSA Default									
BW (MHz)	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	166300	167800			
Frequency (MHz)									
20	PI2 BPSK	1	1	22.32	22.39	22.29			
20	PI2 BPSK	1	63	22.26	22.32	22.20	24.0	0.0	
20	PI2 BPSK	1	104	22.22	22.25	22.15			
20	PI2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5	
20	PI2 BPSK	50	28	22.18	22.22	22.15	24.0	0.0	
20	PI2 BPSK	50	66	21.72	21.76	21.72	23.5	0.5	
20	PI2 BPSK	100	0	21.78	21.86	21.79			
20	QPSK	1	1	22.42	22.45	22.39			
20	QPSK	1	63	22.22	22.33	22.25	24.0	0.0	
20	QPSK	1	104	22.15	22.23	22.11			
20	QPSK	50	0	21.12	21.22	21.07	23.0	1.0	
20	QPSK	50	28	22.23	22.28	22.27	24.0	0.0	
20	QPSK	50	66	21.28	21.37	21.27	23.0	1.0	
20	QPSK	100	0	21.39	21.46	21.41			
20	16QAM	1	1	21.44	21.50	21.43	23.0	1.0	
20	64QAM	1	1	19.72	19.85	19.77	21.5	2.5	
20	256QAM	1	1	18.01	18.10	18.06	19.5	4.5	
Channel									
				163300	163300	163300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.30	22.36	22.34	#REF!	0.0	
Channel									
				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.39	22.41	22.31	#REF!	0.0	
Channel									
				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.38	22.31	22.24	#REF!	0.0	



n30 Ant4 NSA DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				2310			
10	PI2 BPSK	1	1	19.29			
10	PI2 BPSK	1	26	19.35			21.0
10	PI2 BPSK	1	50	19.28			
10	PI2 BPSK	25	0	19.37			21.0
10	PI2 BPSK	25	14	19.35			21.0
10	PI2 BPSK	25	27	19.33			21.0
10	PI2 BPSK	50	0	19.40			21.0
10	QPSK	1	1	19.45			
10	QPSK	1	26	19.38			21.0
10	QPSK	1	50	19.23			
10	QPSK	25	0	19.35			21.0
10	QPSK	25	14	19.41			21.0
10	QPSK	25	27	19.25			21.0
10	QPSK	50	0	19.39			21.0
10	16QAM	1	1	19.33			21.0
10	64QAM	1	1	19.20			21.0
10	256QAM	1	1	18.13			19.5
Channel				461500	462000	462500	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	19.33	19.40	19.38	21.0

n66 Ant4 NSA DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				1720	1745	1760	
40	PI2 BPSK	1	1	16.88	16.24	16.65	
40	PI2 BPSK	1	108	16.97	17.10	16.97	18.0
40	PI2 BPSK	1	214	16.09	16.13	16.08	
40	PI2 BPSK	108	0	16.24	16.50	16.41	18.0
40	PI2 BPSK	108	54	16.73	16.87	16.75	18.0
40	PI2 BPSK	108	108	16.26	16.44	16.33	18.0
40	PI2 BPSK	216	0	16.41	16.47	16.43	18.0
40	QPSK	1	1	16.10	16.26	16.23	
40	QPSK	1	108	17.06	17.12	17.03	18.0
40	QPSK	1	214	16.02	16.09	16.04	
40	QPSK	108	0	16.38	16.47	16.34	18.0
40	QPSK	108	54	16.73	16.88	16.72	18.0
40	QPSK	108	108	16.35	16.45	16.36	18.0
40	QPSK	216	0	16.43	16.53	16.37	18.0
40	16QAM	1	1	16.12	16.26	16.12	18.0
40	64QAM	1	1	16.01	16.18	16.05	18.0
40	256QAM	1	1	16.12	16.11	16.03	18.0
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	17.06	16.98	16.90	18.0
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	16.96	17.08	16.95	18.0
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	17.05	17.03	16.98	18.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	16.85	17.00	16.87	18.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	16.99	17.05	16.98	18.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	17.03	17.01	16.93	18.0

n71 Ant4 NSA Default							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				673	680.5	683	
20	PI2 BPSK	1	1	22.49	22.53	22.40	
20	PI2 BPSK	1	63	22.37	22.40	22.30	24.0
20	PI2 BPSK	1	104	22.23	22.37	22.29	
20	PI2 BPSK	50	0	21.88	21.98	21.93	23.5
20	PI2 BPSK	50	28	22.20	22.33	22.26	24.0
20	PI2 BPSK	50	66	21.76	21.86	21.78	23.5
20	PI2 BPSK	100	0	21.81	21.95	21.82	
20	QPSK	1	1	22.51	22.55	22.47	
20	QPSK	1	63	22.36	22.47	22.42	24.0
20	QPSK	1	104	22.24	22.29	22.25	
20	QPSK	50	0	21.30	21.34	21.23	23.0
20	QPSK	50	28	22.35	22.43	22.39	24.0
20	QPSK	50	66	21.32	21.44	21.32	23.0
20	QPSK	100	0	21.42	21.49	21.45	
20	16QAM	1	1	21.50	21.62	21.54	23.0
20	64QAM	1	1	19.96	20.02	19.95	21.5
20	256QAM	1	1	18.14	18.20	18.06	18.5
Channel				134100	136100	138100	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.41	22.46	22.37	24.0
Channel				133600	136100	138600	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	1	22.44	22.43	22.38	24.0
Channel				133100	136100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.38	22.45	22.35	24.0



n48 Ant5 SA DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				640000	641666	643332		
Frequency (MHz)				3600	3624.99	3649.98		
100	PI2 BPSK	1	1	17.83	17.89	17.77		
100	PI2 BPSK	1	137	18.43	18.82	18.49	19.0	0.0
100	PI2 BPSK	1	271	17.80	17.72	17.63		
100	PI2 BPSK	135	0	18.22	18.36	18.17	19.0	0.0
100	PI2 BPSK	135	69	18.43	18.92	18.55	19.0	0.0
100	PI2 BPSK	135	138	18.27	18.29	18.28		
100	PI2 BPSK	270	0	18.30	18.39	18.29	19.0	0.0
100	QPSK	1	1	17.76	17.90	17.88		
100	QPSK	1	137	18.52	18.89	18.40	19.0	0.0
100	QPSK	1	271	17.65	17.72	17.70		
100	QPSK	135	0	18.27	18.39	18.33	19.0	0.0
100	QPSK	135	69	18.40	18.54	18.46	19.0	0.0
100	QPSK	135	138	18.33	18.37	18.21	19.0	0.0
100	QPSK	270	0	18.30	18.41	18.38		
100	16QAM	1	1	17.77	17.73	17.63	19.0	0.0
100	64QAM	1	1	17.85	17.89	17.55	19.0	0.0
100	256QAM	1	1	18.20	18.34	18.23	19.0	0.0
Channel				638668	641666	644666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3566.02	3624.99	3684.99		
90	QPSK	1	1	18.46	18.56	18.32	19.0	0.0
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3650.01	3624.99	3660		
80	QPSK	1	1	18.42	18.63	18.31	19.0	0.0
Channel				638668	641666	644666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3580.02	3624.99	3679.99		
60	QPSK	1	1	18.49	18.54	18.29	19.0	0.0
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3575.01	3624.99	3675		
50	QPSK	1	1	18.38	18.60	18.28	19.0	0.0
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	18.40	18.55	18.30	19.0	0.0
Channel				637334	641666	645000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3660		
20	QPSK	1	1	18.43	18.61	18.28	19.0	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3652.48		
15	QPSK	1	1	18.42	18.58	18.35	19.0	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565	3624.99	3664.98		
10	QPSK	1	1	18.39	18.62	18.33	19.0	0.0



Part270 n77 PC2&PC3 Ant5 SA DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Mid Ch. / Freq. 656000	Power High Ch. / Freq. 660000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	17.69	17.12	16.99	
100	PI2 BPSK	1	137	16.32	16.45	16.39	18.0
100	PI2 BPSK	1	271	16.28	16.41	16.28	
100	PI2 BPSK	135	0	16.86	16.98	16.85	18.0
100	PI2 BPSK	135	69	17.02	17.13	17.06	18.0
100	PI2 BPSK	135	138	16.95	16.99	16.89	18.0
100	PI2 BPSK	270	0	16.95	17.02	16.98	18.0
100	QPSK	1	1	16.48	16.52	16.41	
100	QPSK	1	137	17.69	17.18	17.13	18.0
100	QPSK	1	271	16.37	16.44	16.39	
100	QPSK	135	0	16.93	17.01	16.98	18.0
100	QPSK	135	69	16.97	17.08	17.03	18.0
100	QPSK	135	138	16.87	16.91	16.79	18.0
100	QPSK	270	0	16.86	16.95	16.91	18.0
100	16QAM	1	1	16.23	16.27	16.21	18.0
100	64QAM	1	1	16.11	16.15	16.09	18.0
100	256QAM	1	1	16.63	16.75	16.66	18.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.05	17.05	17.12	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.14	17.12	17.11	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.03	17.10	17.12	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.11	17.04	17.12	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.11	17.08	17.05	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.14	17.03	17.05	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.03	17.07	17.14	18.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.10	17.09	17.14	18.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.07	17.10	17.04	18.0

Part27Q n77 PC2&PC3 Ant5 SA DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Mid Ch. / Freq. 633334	Power High Ch. / Freq. 636668	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	17.76			
100	PI2 BPSK	1	137	16.16			18.0
100	PI2 BPSK	1	271	16.53			
100	PI2 BPSK	135	0	17.03			18.0
100	PI2 BPSK	135	69	17.14			18.0
100	PI2 BPSK	135	138	16.99			18.0
100	PI2 BPSK	270	0	17.06			18.0
100	QPSK	1	1	16.21			
100	QPSK	1	137	17.28			18.0
100	QPSK	1	271	16.55			
100	QPSK	135	0	17.08			18.0
100	QPSK	135	69	17.20			18.0
100	QPSK	135	138	17.09			18.0
100	QPSK	270	0	17.17			18.0
100	16QAM	1	1	16.08			18.0
100	64QAM	1	1	16.03			18.0
100	256QAM	1	1	16.64			18.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.16	17.17	17.15	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.11	17.19	17.14	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.15	17.14	17.12	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.14	17.16	17.20	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.12	17.11	17.16	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.14	17.13	17.19	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.15	17.20	17.14	18.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.15	17.17	17.16	18.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.21	17.22	17.15	18.0



Part270 n78 PC3 Ant5 SA DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 650000	Power Middle Ch. F Freq. 650000	Power High Ch. F Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	17.18	17.18		
100	Pi2 BPSK	1	137	16.45			18.0 0.0
100	Pi2 BPSK	1	271	16.61			
100	Pi2 BPSK	135	0	16.78			18.0 0.0
100	Pi2 BPSK	135	69	17.16			18.0 0.0
100	Pi2 BPSK	135	138	17.03			18.0 0.0
100	Pi2 BPSK	270	0	17.07			18.0 0.0
100	QPSK	1	1	16.52			
100	QPSK	1	137	17.24			18.0 0.0
100	QPSK	1	271	16.69			
100	QPSK	135	0	16.85			18.0 0.0
100	QPSK	135	69	17.23			18.0 0.0
100	QPSK	135	138	17.04			18.0 0.0
100	QPSK	270	0	17.11			18.0 0.0
100	16QAM	1	1	16.15			18.0 0.0
100	64QAM	1	1	16.09			18.0 0.0
100	256QAM	1	1	16.07			18.0 0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.16	17.19	17.11	18.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.16	17.16	17.12	18.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.13	17.10	17.13	18.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.13	17.12	17.14	18.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.12	17.19	17.20	18.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.20	17.10	17.18	18.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.13	17.15	17.11	18.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.17	17.17	17.16	18.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.12	17.21	17.14	18.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.15	17.15	17.15	18.0 0.0

Part27Q n78 PC3 Ant5 SA DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 633000	Power Middle Ch. F Freq. 633334	Power High Ch. F Freq. 633334	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	17.12			
100	Pi2 BPSK	1	137	16.62			18.0 0.0
100	Pi2 BPSK	1	271	16.93			
100	Pi2 BPSK	135	0	16.85			18.0 0.0
100	Pi2 BPSK	135	69	17.13			18.0 0.0
100	Pi2 BPSK	135	138	17.04			18.0 0.0
100	Pi2 BPSK	270	0	17.10			18.0 0.0
100	QPSK	1	1	16.76			
100	QPSK	1	137	17.16			18.0 0.0
100	QPSK	1	271	16.95			
100	QPSK	135	0	16.92			18.0 0.0
100	QPSK	135	69	17.11			18.0 0.0
100	QPSK	135	138	17.08			18.0 0.0
100	QPSK	270	0	17.15			18.0 0.0
100	16QAM	1	1	16.33			18.0 0.0
100	64QAM	1	1	16.28			18.0 0.0
100	256QAM	1	1	16.40			18.0 0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.07	17.14	17.12	18.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.03	17.05	17.05	18.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.04	17.04	17.05	18.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.12	17.04	17.12	18.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.06	17.11	17.06	18.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.04	17.08	17.10	18.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.09	17.10	17.10	18.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.05	17.15	17.06	18.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.13	17.08	17.04	18.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.04	17.12	17.10	18.0 0.0



Part270 n77 PC2&PC3 Ant5 NSA DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 660000	Power Middle Ch. / Freq. 666000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	12.34	12.81	12.37			
100	Pi2 BPSK	1	137	13.02	13.15	12.97	14.0	0.0	
100	Pi2 BPSK	1	271	12.24	12.45	12.35			
100	Pi2 BPSK	135	0	12.87	13.05	12.86	14.0	0.0	
100	Pi2 BPSK	135	69	13.68	13.14	13.01			
100	Pi2 BPSK	135	138	12.97	12.97	12.92			
100	Pi2 BPSK	270	0	12.61	13.07	12.99	14.0	0.0	
100	QPSK	1	1	12.48	12.51	12.48			
100	QPSK	1	137	13.16	13.20	13.11	14.0	0.0	
100	QPSK	1	271	12.33	12.45	12.38			
100	QPSK	135	0	13.00	12.98	12.93	14.0	0.0	
100	QPSK	135	69	12.93	13.06	12.98	14.0	0.0	
100	QPSK	135	138	12.83	12.86	12.82	14.0	0.0	
100	QPSK	270	0	12.85	12.99	12.92			
100	16QAM	1	1	12.30	12.30	12.21	14.0	0.0	
100	64QAM	1	1	12.11	12.20	12.06	14.0	0.0	
100	256QAM	1	1	12.62	12.71	12.73	14.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.06	13.14	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.03	13.11	13.05	14.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.05	13.15	13.05	14.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.05	13.09	13.04	14.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.06	13.07	13.06	14.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.12	13.12	13.02	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.03	13.08	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.13	13.13	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.06	13.06	13.04	14.0	0.0	

Part27Q n77 PC2&PC3 Ant5 NSA DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1			3500.01			
100	Pi2 BPSK	1	137			13.14			
100	Pi2 BPSK	1	137			13.22	14.0	0.0	
100	Pi2 BPSK	1	271			12.49			
100	Pi2 BPSK	135	0			13.03	14.0	0.0	
100	Pi2 BPSK	135	69			13.09	14.0	0.0	
100	Pi2 BPSK	135	138			12.95			
100	Pi2 BPSK	270	0			13.01			
100	QPSK	1	1			12.49			
100	QPSK	1	137			13.31			
100	QPSK	1	271			12.51	14.0	0.0	
100	QPSK	135	0			13.14	14.0	0.0	
100	QPSK	135	69			13.17	14.0	0.0	
100	QPSK	135	138			13.05	14.0	0.0	
100	QPSK	270	0			13.05			
100	16QAM	1	1			12.08	14.0	0.0	
100	64QAM	1	1			12.05	14.0	0.0	
100	256QAM	1	1			12.64	14.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.21	13.24	13.23	14.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.21	13.19	13.26	14.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.24	13.25	13.27	14.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.20	13.20	13.16	14.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.26	13.25	13.22	14.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.26	13.27	13.20	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.20	13.25	13.17	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.21	13.19	13.19	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.19	13.18	13.26	14.0	0.0	



Part270 n78 PC3 Ant5 NSA DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. F. Freq. 650000	Middle Ch. F. Freq. 650000	High Ch. F. Freq. 650000		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	3750	3750	3750		
100	Pi2 BPSK	1	137	12.53	13.16	13.16	14.0	0.0
100	Pi2 BPSK	1	271	12.85	13.16	13.16	14.0	0.0
100	Pi2 BPSK	135	0	12.74	13.16	13.16	14.0	0.0
100	Pi2 BPSK	135	69	12.74	13.16	13.16	14.0	0.0
100	Pi2 BPSK	135	138	12.96	13.16	13.16	14.0	0.0
100	Pi2 BPSK	270	0	13.11	13.16	13.16	14.0	0.0
100	QPSK	1	1	12.58	13.16	13.16	14.0	0.0
100	QPSK	1	137	12.24	13.16	13.16	14.0	0.0
100	QPSK	1	271	12.71	13.16	13.16	14.0	0.0
100	QPSK	135	0	12.85	13.16	13.16	14.0	0.0
100	QPSK	135	69	13.22	13.16	13.16	14.0	0.0
100	QPSK	135	138	13.02	13.16	13.16	14.0	0.0
100	QPSK	270	0	13.02	13.16	13.16	14.0	0.0
100	16QAM	1	1	12.20	13.16	13.16	14.0	0.0
100	64QAM	1	1	12.12	13.16	13.16	14.0	0.0
100	256QAM	1	1	12.82	13.16	13.16	14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	13.18	13.21	13.14	14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	326121	3750	3750	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	13.12	13.14	13.17	14.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	64968	65000	65134	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	13.11	13.10	13.10	14.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3750.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	13.21	13.12	13.20	14.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3729.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	13.11	13.16	13.13	14.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64968	65000	65200	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	13.17	13.19	13.15	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	13.10	13.12	13.10	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3750	3790.01	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	13.21	13.11	13.13	14.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.15	13.15	13.10	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3700	3750	3795	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	13.02	13.13	13.16	14.0	0.0

Part27Q n78 PC3 Ant5 NSA DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. F. Freq. 633000	Middle Ch. F. Freq. 63334	High Ch. F. Freq. 63334		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	3000.01	3000.01	3000.01		
100	Pi2 BPSK	1	137	13.11	13.33	13.33	14.0	0.0
100	Pi2 BPSK	1	271	13.14	13.33	13.33	14.0	0.0
100	Pi2 BPSK	135	0	13.02	13.33	13.33	14.0	0.0
100	Pi2 BPSK	135	69	13.35	13.33	13.33	14.0	0.0
100	Pi2 BPSK	135	138	13.29	13.33	13.33	14.0	0.0
100	Pi2 BPSK	270	0	13.28	13.33	13.33	14.0	0.0
100	QPSK	1	1	13.05	13.33	13.33	14.0	0.0
100	QPSK	1	137	13.40	13.33	13.33	14.0	0.0
100	QPSK	1	271	13.13	13.33	13.33	14.0	0.0
100	QPSK	135	0	13.14	13.33	13.33	14.0	0.0
100	QPSK	135	69	13.27	13.33	13.33	14.0	0.0
100	QPSK	135	138	13.24	13.33	13.33	14.0	0.0
100	QPSK	270	0	13.25	13.33	13.33	14.0	0.0
100	16QAM	1	1	12.84	13.33	13.33	14.0	0.0
100	64QAM	1	1	12.47	13.33	13.33	14.0	0.0
100	256QAM	1	1	12.98	13.33	13.33	14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	63334	63368	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	13.30	13.31	13.35	14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	63000	63334	63400	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3495.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	13.28	13.28	13.38	14.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3495.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	13.33	13.27	13.34	14.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3480	3500.01	3500.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	13.35	13.29	13.28	14.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	13.28	13.27	13.35	14.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3475.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	13.35	13.38	13.34	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3465.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	13.33	13.30	13.35	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	13.35	13.31	13.37	14.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.33	13.33	13.31	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	63034	63334	63834	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3452.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	13.29	13.35	13.29	14.0	0.0



n41 PC2&PC3 Ant6 SA DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	16.73	16.81	16.64		
100	PI/2 BPSK	1	137	17.42	17.41	17.34	18.5	0.0
100	PI/2 BPSK	1	271	17.41	17.40	17.36		
100	PI/2 BPSK	135	0	16.71	16.73	16.72	18.5	0.0
100	PI/2 BPSK	135	69	17.39	17.40	17.37	18.5	0.0
100	PI/2 BPSK	135	138	17.39	17.40	17.33		
100	PI/2 BPSK	270	0	17.32	17.37	17.30	18.5	0.0
100	QPSK	1	1	16.70	16.77	16.68		
100	QPSK	1	137	17.42	17.47	17.28	18.5	0.0
100	QPSK	1	271	17.37	17.36	17.37		
100	QPSK	135	0	16.67	16.74	16.69	18.5	0.0
100	QPSK	135	69	17.34	17.45	17.34	18.5	0.0
100	QPSK	135	138	17.36	17.38	17.30		
100	QPSK	270	0	17.33	17.36	17.25	18.5	0.0
100	16QAM	1	1	16.73	16.81	16.66	18.5	0.0
100	64QAM	1	1	16.66	16.77	16.59	18.5	0.0
100	256QAM	1	1	16.63	16.78	16.65	18.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.32	17.38	17.29	18.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.37	17.30	17.27	18.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.37	17.40	17.29	18.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.34	17.37	17.29	18.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.33	17.36	17.32	18.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.39	17.38	17.25	18.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.38	17.31	17.24	18.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.34	17.40	17.31	18.5	0.0
Channel				500100	518598	536996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	17.36	17.33	17.31	18.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.31	17.39	17.25	18.5	0.0



n2 Ant0 SA DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.90	15.00	15.10			
30	PI2 BPSK	1	80	15.19	15.22	15.18	18.5	0.0	
30	PI2 BPSK	1	158	15.10	15.18	15.07			
30	PI2 BPSK	80	0	14.95	15.09	15.01	18.5	0.0	
30	PI2 BPSK	80	40	15.17	15.20	15.08	18.5	0.0	
30	PI2 BPSK	80	80	15.01	15.06	15.00			
30	PI2 BPSK	160	0	14.96	15.11	14.98	18.5	0.0	
30	QPSK	1	1	15.03	15.07	14.98			
30	QPSK	1	80	15.21	15.26	15.16			
30	QPSK	1	158	15.10	15.14	15.09	18.5	0.0	
30	QPSK	80	0	15.06	15.13	15.01	18.5	0.0	
30	QPSK	80	40	15.10	15.17	15.06	18.5	0.0	
30	QPSK	80	80	14.96	15.03	14.90	18.5	0.0	
30	QPSK	160	0	15.09	15.14	15.05			
30	16QAM	1	1	14.88	14.95	14.91	18.5	0.0	
30	64QAM	1	1	14.71	14.86	14.81	18.5	0.0	
30	256QAM	1	1	14.94	15.08	15.00	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.97	15.03	14.91	18.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.83	15.00	14.97			
20	PI2 BPSK	1	53	15.14	15.19	15.15	18.5	0.0	
20	PI2 BPSK	1	104	15.05	15.14	15.01			
20	PI2 BPSK	50	0	14.89	15.03	14.95	18.5	0.0	
20	PI2 BPSK	50	28	15.13	15.13	15.03	18.5	0.0	
20	PI2 BPSK	50	56	14.95	15.02	14.95	18.5	0.0	
20	PI2 BPSK	100	0	14.90	15.08	14.92			
20	QPSK	1	1	14.99	15.01	14.92			
20	QPSK	1	53	15.18	15.20	15.10	18.5	0.0	
20	QPSK	1	104	15.04	15.10	15.05			
20	QPSK	50	0	15.03	15.06	14.95	23.0	1.0	
20	QPSK	50	28	15.07	15.10	14.99	24.0	0.0	
20	QPSK	50	56	14.91	14.96	14.83	23.0	1.0	
20	QPSK	100	0	15.03	15.11	15.01			
20	16QAM	1	1	14.81	14.90	14.87	18.5	0.0	
20	64QAM	1	1	14.67	14.80	14.76	18.5	0.0	
20	256QAM	1	1	14.87	15.03	14.94	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	37.1500	37.6000	38.0500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.16	15.20	15.13	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.13	15.22	15.00	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.11	15.19	15.11	18.5	0.0	

Reduced Power Mode for Hotspot on for 5G NR									
n5 Ant0 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	22.92					
25	PI2 BPSK	1	80		22.73		24.0	0.0	
25	PI2 BPSK	1	158		22.69				
25	PI2 BPSK	80	0		22.37		23.5	0.5	
25	PI2 BPSK	80	40		22.76		24.0	0.0	
25	PI2 BPSK	80	80		22.43		23.5	0.5	
25	PI2 BPSK	160	0		22.47				
25	QPSK	1	1		22.76				
25	QPSK	1	80		22.70		24.0	0.0	
25	QPSK	1	158		22.65				
25	QPSK	80	0		21.89		23.0	1.0	
25	QPSK	80	40		22.90		24.0	0.0	
25	QPSK	80	80		21.91		23.0	1.0	
25	QPSK	160	0		21.98				
25	16QAM	1	1		21.23		23.0	1.0	
25	64QAM	1	1		19.75		23.5	2.5	
25	256QAM	1	1		18.44		19.5	4.5	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.47	22.49	22.37			
20	PI2 BPSK	1	53	22.64	22.68	22.56	24.0	0.0	
20	PI2 BPSK	1	104	22.50	22.60	22.54			
20	PI2 BPSK	50	0	22.15	22.36	22.14	23.5	0.5	
20	PI2 BPSK	50	28	22.64	22.73	22.66	24.0	0.0	
20	PI2 BPSK	50	56	22.22	22.36	22.31	23.5	0.5	
20	PI2 BPSK	100	0	22.30	22.43	22.36			
20	QPSK	1	1	22.56	22.67	22.57			
20	QPSK	1	53	22.61	22.66	22.55	24.0	0.0	
20	QPSK	1	104	22.52	22.58	22.51			
20	QPSK	50	0	21.67	21.86	21.77	23.0	1.0	
20	QPSK	50	28	22.70	22.87	22.81	24.0	0.0	
20	QPSK	50	56	21.81	21.91	21.75	23.0	1.0	
20	QPSK	100	0	21.80	21.95	21.79			
20	16QAM	1	1	21.05	21.17	21.12	23.0	1.0	
20	64QAM	1	1	19.84	19.89	19.83	21.5	2.5	
20	256QAM	1	1	18.34	18.36	18.33	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	168.800	169.200	169.500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.68	22.62	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	168.900	169.300	169.500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.67	22.67	22.72	24.0	0.0	

n12 Ant0 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.77	22.83	22.74			
15	PI2 BPSK	1	40	22.76	22.79	22.69	24.0	0.0	
15	PI2 BPSK	1	77	22.66	22.70	22.58			
15	PI2 BPSK	36	0	22.26	22.32	22.23	23.5	0.5	
15	PI2 BPSK	36	22	22.74	22.80	22.71	24.0	0.0	
15	PI2 BPSK	36	43	22.19	22.33	22.20	23.5	0.5	
15	PI2 BPSK	75	0	22.28	22.36	22.29			
15	QPSK	1	1	22.85	22.87	22.82			
15	QPSK	1	40	22.67	22.75	22.61	24.0	0.0	
15	QPSK	1	77	22.63	22.68	22.58			
15	QPSK	36	0	21.73	21.79	21.67	23.0	1.0	
15	QPSK	36	22	22.76	22.83	22.79	24.0	0.0	
15	QPSK	36	43	21.79	21.84	21.79	23.0	1.0	
15	QPSK	75	0	21.87	21.88	21.83			
15	16QAM	1	1	21.24	21.36	21.30	23.0	1.0	
15	64QAM	1	1	19.99	20.07	19.99	21.5	2.5	
15	256QAM	1	1	18.58	18.65	18.61	19.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	704	707.5	711	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.72	22.76	22.70	24.0	0.0	



n14 Ant0 SA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158100	158100				
Frequency (MHz)				790.5	793	796.5			
10	PI2 BPSK	1	1	22.94					
10	PI2 BPSK	1	26	22.52			24.0	0.0	
10	PI2 BPSK	1	50	22.44					
10	PI2 BPSK	25	0	22.12			23.5	0.5	
10	PI2 BPSK	25	14	22.06			24.0	0.0	
10	PI2 BPSK	25	27	21.94					
10	PI2 BPSK	50	0	22.01			23.5	0.5	
10	QPSK	1	1	22.58					
10	QPSK	1	26	22.53			24.0	0.0	
10	QPSK	1	50	22.47					
10	QPSK	25	0	21.58			23.0	1.0	
10	QPSK	25	14	22.55			24.0	0.0	
10	QPSK	25	27	21.43			23.0	1.0	
10	QPSK	50	0	21.50					
10	16QAM	1	1	21.29			23.0	1.0	
10	64QAM	1	1	19.84			21.5	2.5	
10	256QAM	1	1	18.54			19.5	4.5	
Channel				158100	158100	159100			
Frequency (MHz)				790.5	793	796.5			
5	QPSK	1	1	22.44	22.53	22.47	24.0	0.0	

n25 Ant0 SA DS17									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	375000	376000			
Frequency (MHz)				1870	1875	1880			
40	PI2 BPSK	1	1	15.19	15.29	15.21			
40	PI2 BPSK	1	108	15.27	15.35	15.30	16.5	0.0	
40	PI2 BPSK	1	214	14.55	14.54	14.54			
40	PI2 BPSK	108	0	15.22	15.27	15.31	16.5	0.0	
40	PI2 BPSK	108	54	15.21	15.31	15.30	16.5	0.0	
40	PI2 BPSK	108	108	14.57	14.60	14.59	16.5	0.0	
40	PI2 BPSK	216	0	15.05	15.10	15.14			
40	QPSK	1	1	15.27	15.24	15.31			
40	QPSK	1	108	15.22	15.37	15.28	16.5	0.0	
40	QPSK	1	214	14.59	14.60	14.52			
40	QPSK	108	0	15.20	15.25	15.26	16.5	0.0	
40	QPSK	108	54	15.30	15.35	15.30	16.5	0.0	
40	QPSK	108	108	14.58	14.53	14.52			
40	QPSK	216	0	15.11	15.24	15.12	16.5	0.0	
40	16QAM	1	1	15.21	15.33	15.21	16.5	0.0	
40	64QAM	1	1	15.21	15.27	15.22	16.5	0.0	
40	256QAM	1	1	15.27	15.25	15.25	16.5	0.0	
Channel				372000	375000	380000			
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	15.16	15.25	15.22	16.5	0.0	
Channel				372000	376000	380000			
Frequency (MHz)				1865	1882.5	1900			
25	QPSK	1	1	15.16	15.17	15.20	16.5	0.0	
Channel				372000	376000	381000			
Frequency (MHz)				1865	1882.5	1900			
20	QPSK	1	1	15.16	15.23	15.22	16.5	0.0	
Channel				371500	376000	381500			
Frequency (MHz)				1875	1882.5	1907.5			
15	QPSK	1	1	15.10	15.20	15.19	14.5	0.0	
Channel				371000	376000	382000			
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	15.12	15.21	15.19	16.5	0.0	
Channel				370500	376000	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	15.12	15.21	15.16	16.5	0.0	

n26 Ant0 SA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	165300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.61	22.73	22.66			
20	PI2 BPSK	1	63	22.61	22.69	22.65	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.67	22.54			
20	PI2 BPSK	50	0	22.07	22.14	22.06	23.5	0.5	
20	PI2 BPSK	50	28	22.54	22.66	22.61	24.0	0.0	
20	PI2 BPSK	50	56	22.21	22.29	22.17	23.5	0.5	
20	PI2 BPSK	100	0	22.24	22.35	22.26			
20	QPSK	1	1	22.73	22.76	22.69			
20	QPSK	1	53	22.57	22.69	22.54	24.0	0.0	
20	QPSK	1	104	22.53	22.64	22.52			
20	QPSK	50	0	21.64	21.67	21.61	23.0	1.0	
20	QPSK	50	28	22.66	22.75	22.71	24.0	0.0	
20	QPSK	50	56	21.70	21.79	21.66	23.0	1.0	
20	QPSK	100	0	21.74	21.82	21.62			
20	16QAM	1	1	21.21	21.30	21.16	23.0	1.0	
20	64QAM	1	1	19.68	19.74	19.71	21.5	2.5	
20	256QAM	1	1	18.41	18.46	18.38	19.5	4.5	
Channel				164300	165300	165300			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.59	22.67	22.62	24.0	0.0	
Channel				163800	165300	165900			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.59	22.63	22.58	24.0	0.0	
Channel				163300	165300	165900			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.67	22.72	22.59	24.0	0.0	



n66 Ant0 SA DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1723	1745	1760			
40	PI2 BPSK	1	1	16.55	16.53	16.54			
40	PI2 BPSK	1	106	17.52	17.58	17.50	18.5	0.0	
40	PI2 BPSK	1	214	16.58	16.81	16.54			
40	PI2 BPSK	106	0	16.74	16.86	16.79	18.5	0.0	
40	PI2 BPSK	106	54	17.19	17.28	17.18	18.5	0.0	
40	PI2 BPSK	106	106	16.79	16.89	16.86			
40	PI2 BPSK	216	0	16.80	16.81	16.83	18.5	0.0	
40	QPSK	1	1	16.65	16.72	16.60			
40	QPSK	1	106	17.69	17.61	17.54	18.5	0.0	
40	QPSK	1	214	16.51	16.56	16.55			
40	QPSK	106	0	16.81	16.80	16.75	18.5	0.0	
40	QPSK	106	54	17.23	17.32	17.20	18.5	0.0	
40	QPSK	106	106	16.75	16.86	16.80	18.5	0.0	
40	QPSK	216	0	16.88	16.94	16.91			
40	16QAM	1	1	16.89	16.72	16.82	18.5	0.0	
40	64QAM	1	1	16.59	16.67	16.54	18.5	0.0	
40	256QAM	1	1	17.20	17.07	17.04	18.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.38	17.54	17.44	18.5	0.0	
Channel				344000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1723	1745	1760			
25	QPSK	1	1	17.38	17.55	17.45	18.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
20	QPSK	1	1	17.44	17.52	17.47	18.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.68	17.49	17.43	18.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.35	17.49	17.49	18.5	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.38	17.50	17.44	18.5	0.0	

n70 Ant0 SA DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	340500				
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1	18.23					
15	PI2 BPSK	1	40	18.31			19.5	0.0	
15	PI2 BPSK	1	77	18.28					
15	PI2 BPSK	36	0	18.17			19.5	0.0	
15	PI2 BPSK	36	22	18.30			19.5	0.0	
15	PI2 BPSK	36	43	18.38			19.5	0.0	
15	PI2 BPSK	75	0	18.30					
15	QPSK	1	1	18.29			19.5	0.0	
15	QPSK	1	40	18.37					
15	QPSK	1	77	18.23			19.5	0.0	
15	QPSK	36	0	18.21			19.5	0.0	
15	QPSK	36	22	18.33			19.5	0.0	
15	QPSK	36	43	18.20			19.5	0.0	
15	QPSK	75	0	18.25			19.5	0.0	
15	16QAM	1	1	18.04			19.5	0.0	
15	64QAM	1	1	17.89			19.5	0.0	
15	256QAM	1	1	18.20			19.5	0.0	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	18.33	18.35	18.34	19.5	0.0	
Channel				339500	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	18.32	18.24	18.25	19.5	0.0	

n71 Ant0 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	673.5	673.5			
20	PI2 BPSK	1	1	22.47	22.70	22.58			
20	PI2 BPSK	1	63	22.49	22.64	22.52	24.0	0.0	
20	PI2 BPSK	1	104	22.38	22.42	22.33			
20	PI2 BPSK	50	0	22.04	22.09	21.96	23.5	0.5	
20	PI2 BPSK	40	28	22.61	22.68	22.54	24.0	0.0	
20	PI2 BPSK	50	56	22.03	22.06	21.97	23.5	0.5	
20	PI2 BPSK	100	0	22.06	22.11	21.98			
20	QPSK	1	1	22.72	22.77	22.69			
20	QPSK	1	53	22.49	22.60	22.52	24.0	0.0	
20	QPSK	1	104	22.49	22.53	22.45			
20	QPSK	50	0	21.82	21.87	21.45	23.0	1.0	
20	QPSK	50	28	22.73	22.75	22.70	24.0	0.0	
20	QPSK	50	56	21.49	21.61	21.52	23.0	1.0	
20	QPSK	100	0	21.88	21.76	21.72	23.0	1.0	
20	16QAM	1	1	21.43	21.49	21.35	23.0	1.0	
20	64QAM	1	1	19.79	19.88	19.75	21.5	2.5	
20	256QAM	1	1	18.33	18.46	18.38	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.65	22.71	22.62	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.60	22.73	22.55	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.63	22.69	22.62	24.0	0.0	



n7 Ant1 SA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PV2 BPSK	1	1	19.61	19.67	19.58			
50	PV2 BPSK	1	135	20.05	20.14	20.00	21.0	0.0	
50	PV2 BPSK	1	268	19.71	19.76	19.73			
50	PV2 BPSK	135	0	19.92	20.03	19.93	21.0	0.0	
50	PV2 BPSK	135	68	19.92	19.99	19.95	21.0	0.0	
50	PV2 BPSK	135	135	19.96	20.02	19.89	21.0	0.0	
50	PV2 BPSK	270	0	19.97	20.08	19.94	21.0	0.0	
50	QPSK	1	1	20.12	20.17	20.13			
50	QPSK	1	135	19.67	19.76	19.88	21.0	0.0	
50	QPSK	1	268	19.63	19.71	19.67			
50	QPSK	135	0	19.92	20.06	19.95	21.0	0.0	
50	QPSK	135	68	20.04	20.15	20.10	21.0	0.0	
50	QPSK	135	135	19.87	19.95	19.85	21.0	0.0	
50	QPSK	270	0	19.99	20.05	20.02	21.0	0.0	
50	16QAM	1	1	19.35	19.46	19.40	21.0	0.0	
50	64QAM	1	1	19.30	19.42	19.34	21.0	0.0	
50	256QAM	1	1	18.73	18.86	18.76	19.5	1.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	21.0	0.0	
40	QPSK	1	1	19.95	20.11	19.99	21.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	21.0	0.0	
30	QPSK	1	1	19.97	20.05	19.97	21.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	21.0	0.0	
25	QPSK	1	1	19.99	20.08	19.91	21.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	21.0	0.0	
20	PV2 BPSK	1	1	20.01	20.13	19.97	21.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	21.0	0.0	
15	QPSK	1	1	20.06	20.06	19.96	21.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	21.0	0.0	
10	QPSK	1	1	19.96	20.03	20.00	21.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	21.0	0.0	
5	QPSK	1	1	20.01	20.10	19.99	21.0	0.0	

n30 Ant1 SA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						462000			
Frequency (MHz)						2310			
10	PV2 BPSK	1	1			21.88			
10	PV2 BPSK	1	26			21.63			23.0
10	PV2 BPSK	1	50			21.71			
10	PV2 BPSK	25	0			21.79			23.0
10	PV2 BPSK	25	14			21.83			23.0
10	PV2 BPSK	25	27			21.66			
10	PV2 BPSK	50	0			21.80			23.0
10	QPSK	1	1			21.91			
10	QPSK	1	26			21.87			23.0
10	QPSK	1	50			21.70			
10	QPSK	25	0			21.82			23.0
10	QPSK	25	14			21.82			23.0
10	QPSK	25	27			21.64			
10	QPSK	50	0			21.80			23.0
10	16QAM	1	1			21.46			23.0
10	64QAM	1	1			21.39			23.0
10	256QAM	1	1			21.50			23.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5	23.0	0.0	
5	QPSK	1	1	21.82	21.85	21.77	23.0	0.0	



n41 PC2&PC3 Ant1 SA DSI7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	MPR (dB)
Channel				506202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI2 BPSK	1	1	19.73	19.83	19.85	
100	PI2 BPSK	1	137	19.83	19.82	19.74	20.5
100	PI2 BPSK	1	271	19.72	19.88	19.82	
100	PI2 BPSK	135	0	19.71	19.85	19.85	20.5
100	PI2 BPSK	135	69	19.82	19.82	19.76	20.5
100	PI2 BPSK	135	138	19.75	19.85	19.76	20.5
100	PI2 BPSK	270	0	19.85	19.83	19.84	20.5
100	QPSK	1	1	19.70	19.85	19.84	
100	QPSK	1	137	19.77	19.86	19.76	20.5
100	QPSK	1	271	19.74	19.84	19.80	
100	QPSK	135	0	19.72	19.83	19.85	20.5
100	QPSK	135	69	19.79	19.89	19.74	20.5
100	QPSK	135	138	19.79	19.83	19.81	20.5
100	QPSK	270	0	19.81	19.86	19.80	20.5
100	16QAM	1	1	19.70	19.84	19.69	20.5
100	16QAM	1	1	19.75	19.80	19.79	20.5
100	256QAM	1	1	19.74	19.80	19.78	20.5
Channel				528000	518598	528000	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	19.88	19.86	19.70	20.5
Channel				507204	518598	528998	
Frequency (MHz)				2548.02	2592.99	2648.98	
80	QPSK	1	1	19.77	19.85	19.85	20.5
Channel				506202	518598	531000	
Frequency (MHz)				2551.01	2592.99	2653	
70	QPSK	1	1	19.70	19.88	19.88	20.5
Channel				505200	518598	531998	
Frequency (MHz)				2546	2592.99	2659.98	
60	QPSK	1	1	19.77	19.87	19.83	20.5
Channel				2541.02	2592.99	2644.99	
Frequency (MHz)				2541.02	2592.99	2644.99	
50	QPSK	1	1	19.76	19.84	19.72	20.5
Channel				503202	518598	534000	
Frequency (MHz)				2538.01	2592.99	2630	
40	QPSK	1	1	19.89	19.84	19.85	20.5
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	19.70	19.83	19.87	20.5
Channel				501200	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.98	
20	QPSK	1	1	19.88	19.85	19.84	20.5
Channel				500700	518598	536998	
Frequency (MHz)				2501.5	2592.98	2682.48	
15	QPSK	1	1	19.73	19.85	19.88	20.5
Channel				500202	518598	537000	
Frequency (MHz)				2501.01	2592.99	2683	
10	QPSK	1	1	19.70	19.88	19.86	20.5

Part270 n77 Ant1 SA PC3 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq.	Power Middle Ch. F. Freq.	Power High Ch. F. Freq.	MPR (dB)
Channel				650000	650000	650000	
Frequency (MHz)				3760	3840	3920	
100	PI2 BPSK	1	1	16.90	16.95	16.94	
100	PI2 BPSK	1	137	17.07	17.07	17.07	18.0
100	PI2 BPSK	1	271	16.82	16.97	16.89	
100	PI2 BPSK	135	0	16.81	16.81	16.72	18.0
100	PI2 BPSK	135	69	16.99	17.06	17.07	18.0
100	PI2 BPSK	135	138	16.81	16.93	16.90	18.0
100	PI2 BPSK	270	0	16.82	17.00	16.87	20.5
100	QPSK	1	1	16.90	16.98	16.95	
100	QPSK	1	137	17.00	17.03	17.02	18.0
100	QPSK	1	271	16.89	16.95	16.91	
100	QPSK	135	0	16.71	16.76	16.81	18.0
100	QPSK	135	69	17.04	17.12	17.00	18.0
100	QPSK	135	138	16.80	16.81	16.89	18.0
100	QPSK	270	0	16.89	16.90	16.92	18.0
100	16QAM	1	1	15.89	15.98	15.85	17.0
100	16QAM	1	1	15.75	15.87	15.81	17.0
100	256QAM	1	1	15.28	15.25	15.14	16.0
Channel				649000	650000	652000	
Frequency (MHz)				3745.02	3840	3935.01	
90	QPSK	1	1	16.77	16.99	16.84	18.0
Channel				649334	650000	652668	
Frequency (MHz)				3748.01	3840	3938.02	
80	QPSK	1	1	16.80	16.94	16.83	18.0
Channel				649000	650000	653000	
Frequency (MHz)				3745.02	3840	3940.01	
70	QPSK	1	1	16.84	16.99	16.81	18.0
Channel				648668	650000	653334	
Frequency (MHz)				3740.02	3840	3950.01	
60	QPSK	1	1	16.87	16.97	16.81	18.0
Channel				3725.01	3840	3955.02	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	16.83	16.91	16.91	18.0
Channel				648000	650000	654000	
Frequency (MHz)				3720	3840	3960	
40	QPSK	1	1	16.79	16.93	16.89	18.0
Channel				647334	650000	654668	
Frequency (MHz)				3718.01	3840	3970.02	
20	QPSK	1	1	16.85	16.90	16.85	18.0
Channel				647168	650000	654334	
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	16.87	16.91	16.85	18.0
Channel				647000	650000	655000	
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	16.75	17.00	16.80	18.0



Part27Q n77 Ant1 SA PC3 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01	3500.01		
100	PI2 BPSK	1	137	17.64	17.64	17.64	18.0	0.0
100	PI2 BPSK	1	271	16.84	16.84	16.84	18.0	0.0
100	PI2 BPSK	135	0	17.35	17.35	17.35	18.0	0.0
100	PI2 BPSK	135	69	17.65	17.65	17.65	18.0	0.0
100	PI2 BPSK	135	138	17.54	17.54	17.54	18.0	0.0
100	PI2 BPSK	270	0	17.58	17.58	17.58	18.0	0.0
100	QPSK	1	1	17.10	17.10	17.10	18.0	0.0
100	QPSK	1	137	17.70	17.70	17.70	18.0	0.0
100	QPSK	1	271	17.09	17.09	17.09	18.0	0.0
100	QPSK	135	0	17.37	17.37	17.37	18.0	0.0
100	QPSK	135	69	17.76	17.76	17.76	18.0	0.0
100	QPSK	135	138	17.44	17.44	17.44	18.0	0.0
100	QPSK	270	0	17.07	17.07	17.07	17.0	1.0
100	16QAM	1	1	16.35	16.35	16.35	17.0	1.0
100	64QAM	1	1	16.28	16.28	16.28	17.0	1.0
100	256QAM	1	1	16.35	16.35	16.35	16.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	17.71	17.70	17.63	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	17.67	17.63	17.65	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	17.65	17.68	17.69	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	17.71	17.73	17.64	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	17.70	17.81	17.62	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	17.72	17.70	17.63	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630968	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.62	17.72	17.52	18.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.63	17.71	17.65	18.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630134	633334	636334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.65	17.69	17.66	18.0	0.0

Part27O n77 Ant1 SA PC2 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	137	20.11	20.14	20.12	21.0	0.0
100	PI2 BPSK	1	271	19.26	19.35	19.30	21.0	0.0
100	PI2 BPSK	1	271	19.28	19.32	19.29	21.0	0.0
100	PI2 BPSK	135	0	19.79	19.79	19.79	20.5	0.5
100	PI2 BPSK	135	69	19.88	20.03	19.88	21.0	0.0
100	PI2 BPSK	135	138	19.87	19.93	19.93	20.5	0.5
100	PI2 BPSK	270	0	19.87	19.88	19.93	20.5	0.5
100	QPSK	1	1	19.66	19.66	19.59	21.0	0.0
100	QPSK	1	137	20.15	20.21	20.15	21.0	0.0
100	QPSK	1	271	19.27	19.27	19.26	21.0	0.0
100	QPSK	135	0	19.66	19.76	19.67	20.0	1.0
100	QPSK	135	69	19.94	20.03	19.99	21.0	0.0
100	QPSK	135	138	19.60	19.62	19.76	20.0	1.0
100	QPSK	270	0	19.84	19.87	19.81	20.0	1.0
100	16QAM	1	1	18.78	18.81	18.76	20.0	1.0
100	64QAM	1	1	17.37	17.38	17.31	18.5	2.5
100	256QAM	1	1	18.84	19.82	18.80	16.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	648934	650000	652066	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.14	20.09	20.06	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	648568	650000	652066	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.16	20.08	20.08	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	648200	650000	653000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.07	20.12	20.11	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	647834	650000	653000	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.11	20.07	20.09	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	647468	650000	653000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.07	20.18	20.07	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	647100	650000	656000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.14	20.10	20.17	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	646734	650000	656000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.13	20.10	20.09	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	646368	650000	656534	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.13	20.17	20.15	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	646000	650000	656534	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.12	20.09	20.12	21.0	0.0

Part27Q n77 Ant1 SA PC2 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3500.01	3500.01	3500.01		
100	PI2 BPSK	1	137	17.64	17.64	17.64	21.0	0.0
100	PI2 BPSK	1	271	16.84	16.84	16.84	21.0	0.0
100	PI2 BPSK	135	0	17.35	17.35	17.35	20.5	0.5
100	PI2 BPSK	135	69	17.65	17.65	17.65	21.0	0.0
100	PI2 BPSK	135	138	17.54	17.54	17.54	20.5	0.5
100	PI2 BPSK	270	0	17.58	17.58	17.58	20.5	0.5
100	QPSK	1	1	17.10	17.10	17.10	21.0	0.0
100	QPSK	1	137	17.70	17.70	17.70	21.0	0.0
100	QPSK	1	271	17.09	17.09	17.09	21.0	0.0
100	QPSK	135	0	17.37	17.37	17.37	20.0	1.0
100	QPSK	135	69	17.76	17.76	17.76	21.0	0.0
100	QPSK	135	138	17.44	17.44	17.44	20.0	1.0
100	QPSK	270	0	17.07	17.07	17.07	20.0	1.0
100	16QAM	1	1	16.35	16.35	16.35	20.0	1.0
100	64QAM	1	1	16.28	16.28	16.28	18.5	2.5
100	256QAM	1	1	16.35	16.35	16.35	16.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.14	20.08	20.05	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.00	20.08	20.07	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.01	20.09	20.03	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.01	20.10	20.01	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.04	20.02	20.08	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.01	20.10	20.08	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	631000	633334	635000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.04	20.02	20.03	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630500	633334	635168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.06	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630134	633334	635334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.02	20.09	20.07	21.0	0.0



Part270 n78 Ant1 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750				
100	PI2 BPSK	1	137		18.18				
100	PI2 BPSK	1	271		18.06		19.0	0.0	
100	PI2 BPSK	1	271		18.06				
100	PI2 BPSK	135	0		17.98		19.0	0.0	
100	PI2 BPSK	135	69		18.22		19.0	0.0	
100	PI2 BPSK	135	138		18.01		19.0	0.0	
100	PI2 BPSK	270	0		18.02		19.0	0.0	
100	QPSK	1	1		18.10				
100	QPSK	1	137		18.16		19.0	0.0	
100	QPSK	1	271		17.95				
100	QPSK	135	0		17.97		19.0	0.0	
100	QPSK	135	69		18.23		19.0	0.0	
100	QPSK	135	138		17.96		19.0	0.0	
100	QPSK	270	0		18.07		19.0	0.0	
100	16QAM	1	1		17.46		18.0	1.0	
100	64QAM	1	1		18.39		18.0	1.0	
100	256QAM	1	1		18.38		17.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	549968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
90	QPSK	1	1	18.08	18.10	18.06	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	642334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
				3748.01	3750	3750.02			
80	QPSK	1	1	18.12	18.21	18.08	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
				3735	3750	3765			
70	QPSK	1	1	18.07	18.18	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
				3730.02	3750	3770.01			
60	QPSK	1	1	18.12	18.16	18.09	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	645334	650000	651000	Tune-up limit (dBm)	MPR (dB)	
				3725.01	3750	3775.02			
50	QPSK	1	1	18.07	18.12	18.07	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
				3720	3750	3780			
40	QPSK	1	1	18.09	18.13	18.09	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
				3715.02	3750	3785.01			
30	QPSK	1	1	18.07	18.10	18.09	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3750	3790.02			
20	QPSK	1	1	18.08	18.19	18.09	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
				3705	3750	3795			
15	QPSK	1	1	18.06	18.21	18.09	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
				3705	3750	3795			
10	QPSK	1	1	18.10	18.14	18.12	19.0	0.0	

Part27Q n78 Ant1 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		18.52				
100	PI2 BPSK	1	271		18.32		19.0	0.0	
100	PI2 BPSK	1	271		18.20				
100	PI2 BPSK	135	0		18.21		19.0	0.0	
100	PI2 BPSK	135	69		18.22		19.0	0.0	
100	PI2 BPSK	135	138		18.43		19.0	0.0	
100	PI2 BPSK	270	0		18.32		19.0	0.0	
100	QPSK	1	1		18.37				
100	QPSK	1	137		18.36		19.0	0.0	
100	QPSK	1	271		18.28				
100	QPSK	135	0		18.18		19.0	0.0	
100	QPSK	135	69		18.51		19.0	0.0	
100	QPSK	135	138		18.38		19.0	0.0	
100	QPSK	270	0		18.41		19.0	0.0	
100	16QAM	1	1		18.27		18.0	1.0	
100	64QAM	1	1		17.90		18.0	1.0	
100	256QAM	1	1		17.28		18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3495	3500.01	3505.02			
90	QPSK	1	1	18.43	18.49	18.33	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
				3498.02	3500.01	3502.00			
80	QPSK	1	1	18.41	18.46	18.38	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
				3488.01	3500.01	3515.01			
70	QPSK	1	1	18.41	18.43	18.21	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
				3480	3500.01	3520.02			
60	QPSK	1	1	18.43	18.54	18.39	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525.00			
50	QPSK	1	1	18.40	18.50	18.31	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.42	18.51	18.39	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
				3465	3500.01	3535.02			
30	QPSK	1	1	18.40	18.52	18.42	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3500.01	3540			
20	QPSK	1	1	18.39	18.47	18.37	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
				3457.5	3500.01	3542.5			
15	QPSK	1	1	18.41	18.53	18.34	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
				3452.01	3500.01	3542.01			
10	QPSK	1	1	18.45	18.48	18.37	19.0	0.0	



n41 PC2&PC3 Ant3 SA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	16.69	17.85	18.84		
100	PI2 BPSK	1	137	17.59	17.85	17.50	18.0	0.0
100	PI2 BPSK	1	271	17.03	17.06	16.90		
100	PI2 BPSK	135	0	17.15	17.17	17.12	18.0	0.0
100	PI2 BPSK	135	69	17.58	17.61	17.60		
100	PI2 BPSK	135	138	17.52	17.62	17.41	18.0	0.0
100	PI2 BPSK	270	0	17.55	17.61	17.58	18.0	0.0
100	QPSK	1	1	16.71	16.97	16.89		
100	QPSK	1	137	16.99	17.85	17.82	18.0	0.0
100	QPSK	1	271	16.99	17.06	16.95		
100	QPSK	135	0	17.13	17.28	17.17	18.0	0.0
100	QPSK	135	69	17.52	17.71	17.57	18.0	0.0
100	QPSK	135	138	17.45	17.57	17.35	18.0	0.0
100	QPSK	270	0	17.56	17.60	17.53	18.0	0.0
100	16QAM	1	1	16.45	16.54	16.41	18.0	0.0
100	16QAM	1	1	16.43	16.43	16.40	18.0	0.0
100	256QAM	1	1	16.84	17.01	17.02	18.0	0.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.60	17.74	17.71	18.0	0.0
Channel								
Frequency (MHz)				507.204	518998	520998		
80	QPSK	1	1	17.62	17.72	17.78	18.0	0.0
Channel								
Frequency (MHz)				566.002	518998	531000		
70	QPSK	1	1	17.62	17.79	17.76	18.0	0.0
Channel								
Frequency (MHz)				565.026	518998	531996		
60	QPSK	1	1	17.62	17.80	17.71	18.0	0.0
Channel								
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.65	17.79	17.78	18.0	0.0
Channel								
Frequency (MHz)				563.002	518998	534000		
40	QPSK	1	1	17.56	17.76	17.74	18.0	0.0
Channel								
Frequency (MHz)				562.020	518998	534998		
30	QPSK	1	1	17.64	17.77	17.71	18.0	0.0
Channel								
Frequency (MHz)				2606.02	2692.99	2679.99		
20	QPSK	1	1	17.64	17.77	17.71	18.0	0.0
Channel								
Frequency (MHz)				560.000	518998	538000		
15	QPSK	1	1	17.60	17.73	17.76	18.0	0.0
Channel								
Frequency (MHz)				560.002	518998	537000		
10	QPSK	1	1	17.63	17.70	17.66	18.0	0.0

Part270 n77 PC2&PC3 Ant3 SA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				656000	656000	660000		
100	PI2 BPSK	1	1	13.61	13.77	13.72		
100	PI2 BPSK	1	137	12.82	12.86	12.75	14.5	0.0
100	PI2 BPSK	1	271	13.04	13.08	13.05		
100	PI2 BPSK	135	0	13.36	13.46	13.39	14.5	0.0
100	PI2 BPSK	135	69	13.55	13.61	13.42	14.5	0.0
100	PI2 BPSK	135	138	13.51	13.53	13.43	14.5	0.0
100	PI2 BPSK	270	0	13.55	13.60	13.58	14.5	0.0
100	QPSK	1	1	12.77	12.85	12.84		
100	QPSK	1	137	13.63	13.64	13.75	14.5	0.0
100	QPSK	1	271	13.08	13.18	13.02		
100	QPSK	135	0	13.38	13.50	13.52	14.5	0.0
100	QPSK	135	69	13.55	13.65	13.55	14.5	0.0
100	QPSK	135	138	13.41	13.55	13.47	14.5	0.0
100	QPSK	270	0	13.52	13.56	13.43	14.5	0.0
100	16QAM	1	1	12.70	12.78	12.82	14.5	0.0
100	16QAM	1	1	12.61	12.59	12.51	14.5	0.0
100	256QAM	1	1	13.14	13.20	13.12	14.5	0.0
Channel								
Frequency (MHz)				646668	656000	662334		
90	QPSK	1	1	13.50	13.71	13.68	14.5	0.0
Channel								
Frequency (MHz)				646334	656000	662668		
80	QPSK	1	1	13.55	13.76	13.65	14.5	0.0
Channel								
Frequency (MHz)				646000	656000	663000		
70	QPSK	1	1	13.50	13.77	13.67	14.5	0.0
Channel								
Frequency (MHz)				646668	656000	663334		
60	QPSK	1	1	13.53	13.74	13.61	14.5	0.0
Channel								
Frequency (MHz)				3740.02	3840	3905.01		
50	QPSK	1	1	13.59	13.79	13.70	14.5	0.0
Channel								
Frequency (MHz)				646000	656000	664000		
40	QPSK	1	1	13.56	13.72	13.69	14.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
30	QPSK	1	1	13.60	13.76	13.69	14.5	0.0
Channel								
Frequency (MHz)				647168	656000	665168		
20	QPSK	1	1	13.59	13.80	13.65	14.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
15	QPSK	1	1	13.51	13.76	13.64	14.5	0.0

Part270 n77 PC2&PC3 Ant3 SA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633000	633334	636000		
100	PI2 BPSK	1	1	13.29				
100	PI2 BPSK	1	137	12.53			14.5	0.0
100	PI2 BPSK	1	271	12.52				
100	PI2 BPSK	135	0	13.14			14.5	0.0
100	PI2 BPSK	135	69	13.16			14.5	0.0
100	PI2 BPSK	135	138	12.92			14.5	0.0
100	PI2 BPSK	270	0	12.90			14.5	0.0
100	QPSK	1	1	12.57				
100	QPSK	1	137	12.52			14.5	0.0
100	QPSK	1	271	12.55				
100	QPSK	135	0	13.11			14.5	0.0
100	QPSK	135	69	13.30			14.5	0.0
100	QPSK	135	138	12.80			14.5	0.0
100	QPSK	270	0	12.98			14.5	0.0
100	16QAM	1	1	12.69			14.5	0.0
100	16QAM	1	1	12.51			14.5	0.0
100	256QAM	1	1	13.00			14.5	0.0
Channel								
Frequency (MHz)				633000	633334	636998		
90	QPSK	1	1	13.15	13.12	13.20	14.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	13.19	13.12	13.20	14.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	13.18	13.19	13.19	14.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	13.15	13.16	13.15	14.5	0.0
Channel								
Frequency (MHz)				3472.02	3500.01	3525		
50	QPSK	1	1	13.17	13.14	13.16	14.5	0.0
Channel								
Frequency (MHz)				631334	633334	635334		
40	QPSK	1	1	13.20	13.16	13.14	14.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
30	QPSK	1	1	13.18	13.17	13.17	14.5	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
20	QPSK	1	1	13.13	13.15	13.21	14.5	0.0
Channel								
Frequency (MHz)				6300.01	6300.01	6345.02		
15	QPSK	1	1	13.13	13.13	13.20	14.5	0.0



Part270 n78 Ant3 SA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 650000	Power Middle Ch. F. Freq. 650000	Power High Ch. F. Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	13.54	13.57	13.57			
100	Pi2 BPSK	1	137	12.93	13.02	12.99	14.5	0.0	
100	Pi2 BPSK	1	271	13.08	13.10	13.05			
100	Pi2 BPSK	135	0	13.42	13.42	13.33	14.5	0.0	
100	Pi2 BPSK	135	69	13.59	13.54	13.54	14.5	0.0	
100	Pi2 BPSK	135	138	13.45	13.51	13.42			
100	Pi2 BPSK	270	0	13.55	13.59	13.51	14.5	0.0	
100	QPSK	1	1	13.02	13.09	13.04			
100	QPSK	1	137	13.67	13.76	13.71	14.5	0.0	
100	QPSK	1	271	13.14	13.17	13.14			
100	QPSK	135	0	13.47	13.49	13.41	14.5	0.0	
100	QPSK	135	69	13.66	13.70	13.64	14.5	0.0	
100	QPSK	135	138	13.49	13.57	13.47			
100	QPSK	270	0	13.56	13.61	13.58	14.5	0.0	
100	16QAM	1	1	12.80	12.85	12.75	14.5	0.0	
100	64QAM	1	1	12.67	12.77	12.67	14.5	0.0	
100	256QAM	1	1	13.32	13.34	13.33	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.66	13.67	13.63	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.90	13.84	13.82	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.58	13.61	13.71	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.86	13.80	13.70	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.56	13.70	13.69	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.81	13.68	13.69	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.68	13.69	13.66	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.84	13.62	13.71	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.66	13.69	13.64	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.64	13.71	13.71	14.5	0.0	

Part27Q n78 Ant3 SA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 653334	Power Middle Ch. F. Freq. 653334	Power High Ch. F. Freq. 653334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		3500.01				
100	Pi2 BPSK	1	137		13.52		14.5	0.0	
100	Pi2 BPSK	1	271		13.08				
100	Pi2 BPSK	135	0		13.10		14.5	0.0	
100	Pi2 BPSK	135	69		13.48		14.5	0.0	
100	Pi2 BPSK	135	138		13.38		14.5	0.0	
100	Pi2 BPSK	270	0		13.47		14.5	0.0	
100	QPSK	1	1		13.12				
100	QPSK	1	137		13.68		14.5	0.0	
100	QPSK	1	271		13.04				
100	QPSK	135	0		13.46		14.5	0.0	
100	QPSK	135	69		13.52		14.5	0.0	
100	QPSK	135	138		13.43		14.5	0.0	
100	QPSK	270	0		13.48		14.5	0.0	
100	16QAM	1	1		12.83		14.5	0.0	
100	64QAM	1	1		12.78		14.5	0.0	
100	256QAM	1	1		13.45		14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632000	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	631668	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631334	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	630668	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630334	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630000	633334	633668	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	629668	633334	633668	14.5	0.0	



n2 Ant4 SA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR	
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq			
Channel				1865	1950	1955			
Frequency (MHz)									
30	PI2 BPSK	1	1	2134	2138	2140			
30	PI2 BPSK	1	80	2174	2178	2187	23.0	0.0	
30	PI2 BPSK	1	158	2120	2133	2125			
30	PI2 BPSK	80	0	2158	2164	2159	23.0	0.0	
30	PI2 BPSK	80	40	2164	2167	2163	23.0	0.0	
30	PI2 BPSK	80	80	2147	2150	2140			
30	PI2 BPSK	160	0	2149	2157	2152	23.0	0.0	
30	QPSK	1	1	2128	2142	2132			
30	QPSK	1	80	2178	2183	2188	23.0	0.0	
30	QPSK	1	158	2117	2130	2120			
30	QPSK	80	0	2142	2152	2146	23.0	0.0	
30	QPSK	80	40	2154	2160	2151	23.0	0.0	
30	QPSK	80	80	2127	2144	2135	23.0	0.0	
30	QPSK	160	0	2145	2151	2143			
30	16QAM	1	1	2104	2111	2107	23.0	0.0	
30	64QAM	1	1	2097	2109	2103	22.0	1.0	
30	256QAM	1	1	2030	2052	2040	21.0	2.0	
Channel				1862.5	1880	1897.5			
Frequency (MHz)									
25	QPSK	1	1	2122	2136	2128	23.0	0.0	
Channel				372000	376000	380000			
Frequency (MHz)									
20	PI2 BPSK	1	1	2133	2133	2124			
20	PI2 BPSK	1	53	2170	2172	2158	23.0	0.0	
20	PI2 BPSK	1	104	2113	2123	2118			
20	PI2 BPSK	50	0	2154	2158	2151	23.0	0.0	
20	PI2 BPSK	50	28	2153	2159	2145	23.0	0.0	
20	PI2 BPSK	50	56	2137	2144	2131	23.0	0.0	
20	PI2 BPSK	100	0	2148	2156	2143			
20	QPSK	1	1	2119	2140	2128			
20	QPSK	1	53	2178	2174	2160	23.0	0.0	
20	QPSK	1	104	2110	2129	2112			
20	QPSK	50	0	2137	2146	2144	23.0	1.0	
20	QPSK	50	28	2147	2160	2149	24.0	0.0	
20	QPSK	50	56	2130	2134	2133	23.0	1.0	
20	QPSK	100	0	2138	2145	2142			
20	16QAM	1	1	2098	2106	2106	23.0	0.0	
20	64QAM	1	1	2090	2100	2098	22.0	1.0	
20	256QAM	1	1	2030	2049	2045	21.0	2.0	
Channel				371900	376000	380000			
Frequency (MHz)									
15	QPSK	1	1	1875	1900	1925			
Channel				1875	1877	1875			
Frequency (MHz)									
10	QPSK	1	1	2174	2188	2189	23.0	0.0	
Channel				375000	376000	375000			
Frequency (MHz)									
5	QPSK	1	1	1862.5	1880	1907.5			
Channel				1862.5	1880	1907.5			
Frequency (MHz)									
5	QPSK	1	1	2168	2171	2163	23.0	0.0	

n5 Ant4 SA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR	
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq			
Channel				1836.5	1836.5	1836.5			
Frequency (MHz)									
25	PI2 BPSK	1	1	2228					
25	PI2 BPSK	1	80	2249			24.0	0.0	
25	PI2 BPSK	1	158	2242					
25	PI2 BPSK	80	0	2208			23.5	0.5	
25	PI2 BPSK	80	40	2254			24.0	0.0	
25	PI2 BPSK	80	80	2211			23.5	0.5	
25	PI2 BPSK	160	0	2217					
25	QPSK	1	1	2232					
25	QPSK	1	80	2232			24.0	0.0	
25	QPSK	1	158	2239					
25	QPSK	80	0	2188			23.0	1.0	
25	QPSK	80	40	2265			24.0	0.0	
25	QPSK	80	80	2182			23.0	1.0	
25	QPSK	160	0	2185					
25	16QAM	1	1	2109			23.0	1.0	
25	64QAM	1	1	1937			21.5	2.5	
25	256QAM	1	1	1831			19.5	4.5	
Channel				1836.0	1836.0	1836.0			
Frequency (MHz)									
20	PI2 BPSK	1	1	2218	2225	2215			
20	PI2 BPSK	1	53	2233	2242	2233	23.0	0.0	
20	PI2 BPSK	1	104	2223	2238	2225			
20	PI2 BPSK	50	0	2198	2202	2197	23.5	0.5	
20	PI2 BPSK	50	28	2243	2251	2239	24.0	0.0	
20	PI2 BPSK	50	56	2197	2208	2190	23.5	0.5	
20	PI2 BPSK	100	0	2205	2211	2200			
20	QPSK	1	1	2234	2246	2237			
20	QPSK	1	53	2215	2226	2214	24.0	0.0	
20	QPSK	1	104	2220	2236	2222			
20	QPSK	50	0	2145	2151	2158	23.0	1.0	
20	QPSK	50	28	2247	2260	2247	24.0	0.0	
20	QPSK	50	56	2152	2156	2146	23.0	1.0	
20	QPSK	100	0	2155	2160	2154			
20	16QAM	1	1	2098	2103	2101	23.0	1.0	
20	64QAM	1	1	1947	1951	1946	21.5	2.5	
20	256QAM	1	1	1813	1825	1813	19.5	4.5	
Channel				1833.5	1833.5	1833.5			
Frequency (MHz)									
15	QPSK	1	1	2245	2253	2242	24.0	0.0	
Channel				183800	187300	188800			
Frequency (MHz)									
10	QPSK	1	1	2241	2256	2241	24.0	0.0	
Channel				185300	187300	189300			
Frequency (MHz)									
5	QPSK	1	1	2245	2260	2244	24.0	0.0	



n12 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
				141900	141600	141700		
Frequency (MHz)								
15	PI2 BPSK	1	1	22.17	22.22	22.09		
15	PI2 BPSK	1	49	22.05	22.10	22.03	24.0	0.0
15	PI2 BPSK	1	77	22.05	22.11	22.05		
15	PI2 BPSK	36	0	21.54	21.83	21.53	23.5	0.5
15	PI2 BPSK	36	22	22.04	22.11	22.06	24.0	0.0
15	PI2 BPSK	36	43	21.81	21.85	21.80	23.5	0.5
15	PI2 BPSK	75	0	21.82	21.87	21.82		
15	QPSK	1	1	22.28	22.31	22.24		
15	QPSK	1	49	22.28	22.14	22.07	24.0	0.0
15	QPSK	1	77	22.02	22.10	22.05		
15	QPSK	36	0	21.08	21.11	21.03	23.0	1.0
15	QPSK	36	22	22.11	22.26	22.17	24.0	0.0
15	QPSK	36	43	21.14	21.22	21.08	23.0	1.0
15	QPSK	75	0	21.22	21.28	21.23		
15	16QAM	1	1	21.23	21.31	21.16	23.0	1.0
15	64QAM	1	1	19.59	19.88	19.54	21.5	2.5
15	256QAM	1	1	17.24	17.55	17.50	19.5	4.5
Channel								
				142000	141900	142000		
Frequency (MHz)								
10	QPSK	1	1	22.17	22.27	22.22	24.0	0.0
Channel								
				140900	141600	142700		
Frequency (MHz)								
5	QPSK	1	1	22.14	22.28	22.23	24.0	0.0

n25 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
				374000	376500	379000		
Frequency (MHz)								
40	PI2 BPSK	1	1	21.85	21.89	21.83		
40	PI2 BPSK	1	108	21.72	21.81	21.70	23.0	0.0
40	PI2 BPSK	1	214	21.04	21.08	21.02		
40	PI2 BPSK	108	0	21.35	21.43	21.37	23.0	0.0
40	PI2 BPSK	108	54	21.85	21.81	21.81	23.0	0.0
40	PI2 BPSK	108	108	21.45	21.49	21.42	23.0	0.0
40	PI2 BPSK	216	0	21.44	21.52	21.39		
40	QPSK	1	1	21.07	21.12	21.03		
40	QPSK	1	108	21.74	21.86	21.83	23.0	0.0
40	QPSK	1	214	21.05	21.06	21.02		
40	QPSK	108	0	21.25	21.39	21.28	23.0	0.0
40	QPSK	108	54	21.42	21.54	21.49	23.0	0.0
40	QPSK	108	108	21.37	21.42	21.29	23.0	0.0
40	QPSK	216	0	21.38	21.47	21.39		
40	16QAM	1	1	20.49	20.62	20.52	22.0	1.0
40	64QAM	1	1	20.38	20.48	20.41	22.0	1.0
40	256QAM	1	1	19.71	19.82	19.83	21.0	2.0
Channel								
				372500	376500	380500		
Frequency (MHz)								
30	QPSK	1	1	21.61	21.85	21.74	23.0	0.0
Channel								
				372500	376500	380500		
Frequency (MHz)								
25	QPSK	1	1	21.61	21.79	21.79	23.0	0.0
Channel								
				372000	376500	381000		
Frequency (MHz)								
20	QPSK	1	1	18.90	18.75	19.05	23.0	0.0
20	QPSK	1	1	21.70	21.74	21.69	23.0	0.0
Channel								
				371500	376500	381500		
Frequency (MHz)								
15	QPSK	1	1	18.70	18.77	19.74	23.0	0.0
Channel								
				371500	376500	382000		
Frequency (MHz)								
10	QPSK	1	1	21.82	21.85	21.79	23.0	0.0
Channel								
				370900	376500	382500		
Frequency (MHz)								
5	QPSK	1	1	21.69	21.80	21.79	23.0	0.0

n26 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
				166800	166300	167800		
Frequency (MHz)								
20	PI2 BPSK	1	1	22.32	22.39	22.29		
20	PI2 BPSK	1	63	22.26	22.32	22.20	24.0	0.0
20	PI2 BPSK	1	104	22.22	22.25	22.15		
20	PI2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5
20	PI2 BPSK	50	28	22.18	22.22	22.15	24.0	0.0
20	PI2 BPSK	50	66	21.72	21.76	21.72	23.5	0.5
20	PI2 BPSK	100	0	21.78	21.86	21.79		
20	QPSK	1	1	22.42	22.45	22.39		
20	QPSK	1	63	22.42	22.39	22.25	24.0	0.0
20	QPSK	1	104	22.15	22.23	22.11		
20	QPSK	50	0	21.12	21.22	21.07	23.0	1.0
20	QPSK	50	28	22.23	22.28	22.27	24.0	0.0
20	QPSK	50	66	21.28	21.37	21.27	23.0	1.0
20	QPSK	100	0	21.39	21.46	21.41		
20	16QAM	1	1	21.44	21.50	21.43	23.0	1.0
20	64QAM	1	1	19.72	19.85	19.77	21.5	2.5
20	256QAM	1	1	18.01	18.10	18.06	19.5	4.5
Channel								
				163300	163300	163300		
Frequency (MHz)								
15	QPSK	1	1	22.30	22.36	22.34	#REF!	0.0
Channel								
				163800	163300	163800		
Frequency (MHz)								
10	QPSK	1	1	22.39	22.41	22.31	#REF!	0.0
Channel								
				163300	163300	163300		
Frequency (MHz)								
5	QPSK	1	1	22.38	22.31	22.24	#REF!	0.0



n66 Ant4 SA DSI7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	MPR (dB)
Channel				346000	349000	352000	
Frequency (MHz)				1720	1745	1760	
40	PI2 BPSK	1	1	18.19	18.22	18.14	
40	PI2 BPSK	1	108	19.11	19.18	19.09	20.0
40	PI2 BPSK	1	214	18.07	18.16	18.03	
40	PI2 BPSK	108	0	18.50	18.59	18.54	20.0
40	PI2 BPSK	108	54	18.51	18.57	18.50	20.0
40	PI2 BPSK	108	108	18.42	18.54	18.41	20.0
40	PI2 BPSK	216	0	18.45	18.56	18.50	20.0
40	QPSK	1	1	18.11	18.28	18.23	
40	QPSK	1	108	18.15	18.24	18.07	20.0
40	QPSK	1	214	18.03	18.12	18.01	
40	QPSK	108	0	18.40	18.51	18.45	20.0
40	QPSK	108	54	18.83	18.88	18.79	20.0
40	QPSK	108	108	18.47	18.53	18.40	20.0
40	QPSK	216	0	18.52	18.57	18.51	20.0
40	16QAM	1	1	18.12	18.16	18.09	20.0
40	64QAM	1	1	18.07	18.11	18.05	20.0
40	256QAM	1	1	18.53	18.57	18.48	20.0
Channel				345000	349000	353000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	19.10	19.16	18.94	20.0
Channel				344500	349000	353500	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	19.05	19.11	18.95	20.0
Channel				344000	349000	354000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	19.02	19.13	19.02	20.0
Channel				343500	349000	354500	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	19.01	19.17	18.99	20.0
Channel				343000	349000	355000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	19.01	19.10	18.94	20.0
Channel				342500	349000	355500	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	19.10	19.20	19.02	20.0

n71 Ant4 SA Default							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	MPR (dB)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.49	22.53	22.40	
20	PI2 BPSK	1	53	22.37	22.40	22.30	24.0
20	PI2 BPSK	1	104	22.23	22.37	22.29	
20	PI2 BPSK	50	0	21.88	21.98	21.93	23.5
20	PI2 BPSK	50	28	22.20	22.33	22.26	24.0
20	PI2 BPSK	50	56	21.76	21.86	21.76	23.5
20	PI2 BPSK	100	0	21.81	21.95	21.82	23.5
20	QPSK	1	1	22.51	22.55	22.47	
20	QPSK	1	53	22.36	22.47	22.42	24.0
20	QPSK	1	104	22.54	22.59	22.55	
20	QPSK	50	0	21.30	21.34	21.23	23.0
20	QPSK	50	28	22.35	22.43	22.39	24.0
20	QPSK	50	56	21.32	21.44	21.32	23.0
20	QPSK	100	0	21.42	21.48	21.45	23.0
20	16QAM	1	1	21.50	21.82	21.54	23.0
20	64QAM	1	1	19.98	20.02	19.95	21.5
20	256QAM	1	1	18.14	18.20	18.08	18.5
Channel				134100	135100	136100	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.41	22.48	22.37	24.0
Channel				133600	136100	136600	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	1	22.44	22.43	22.38	24.0
Channel				133100	136100	137100	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.38	22.45	22.35	24.0

n41 PC2&PC3 Ant4 SA DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.16	14.20	14.09		
100	PI/2 BPSK	1	137	15.25	15.29	15.25	16.0	0.0
100	PI/2 BPSK	1	271	14.06	14.15	14.05		
100	PI/2 BPSK	135	0	14.83	14.89	14.75	16.0	0.0
100	PI/2 BPSK	135	69	15.00	15.15	15.11	16.0	0.0
100	PI/2 BPSK	135	138	14.82	14.89	14.78		
100	PI/2 BPSK	270	0	14.82	14.95	14.85	16.0	0.0
100	QPSK	1	1	14.19	14.27	14.24		
100	QPSK	1	137	14.95	15.31	15.07	16.0	0.0
100	QPSK	1	271	14.25	14.35	14.23		
100	QPSK	135	0	14.79	14.83	14.79	16.0	0.0
100	QPSK	135	69	14.93	15.07	14.96	16.0	0.0
100	QPSK	135	138	14.84	14.93	14.84		
100	QPSK	270	0	14.93	15.03	14.86	16.0	0.0
100	16QAM	1	1	14.13	14.26	14.14	16.0	0.0
100	64QAM	1	1	14.14	14.22	14.07	16.0	0.0
100	256QAM	1	1	14.04	14.14	14.09	16.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.82	15.25	15.04	16.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.89	15.28	14.99	16.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.88	15.22	14.99	16.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.80	15.27	14.97	16.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.87	15.19	14.99	16.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.87	15.28	14.94	16.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.89	15.27	14.93	16.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.92	15.20	14.93	16.0	0.0
Channel				500700	518598	536996		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	14.86	15.23	14.94	16.0	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	14.81	15.17	15.03	16.0	0.0



n48 Ant5 SA DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
	Channel			640000	641666	643332		
	Frequency (MHz)			3200	324.99	3249.98		
100	PI2 BPSK	1	1	18.32	18.40	18.34		
100	PI2 BPSK	1	137	18.91	19.09	18.95	19.5	0.0
100	PI2 BPSK	1	271	18.12	18.28	18.14		
100	PI2 BPSK	135	0	18.76	18.85	18.73	19.5	0.0
100	PI2 BPSK	135	69	18.98	19.00	19.05	19.5	0.0
100	PI2 BPSK	135	138	18.80	18.76	18.84		
100	PI2 BPSK	270	0	18.80	18.85	18.78	19.5	0.0
100	QPSK	1	1	18.31	18.40	18.15		
100	QPSK	1	137	19.00	19.17	18.89	19.5	0.0
100	QPSK	1	271	18.20	18.22	18.20		
100	QPSK	135	0	18.83	18.91	18.89	19.5	0.0
100	QPSK	135	69	18.93	19.09	18.96	19.5	0.0
100	QPSK	135	138	18.95	18.86	18.71	19.5	0.0
100	QPSK	270	0	18.79	18.97	18.85		
100	16QAM	1	1	18.32	18.22	18.11	19.5	0.0
100	64QAM	1	1	18.20	18.15	18.09	19.5	0.0
100	256QAM	1	1	18.67	18.85	18.75	19.5	0.0
	Channel			636668	641666	643366	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3665.02	3624.99	3654.99		
80	QPSK	1	1	18.85	19.06	18.82	19.5	0.0
	Channel			639334	641666	644000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3693.02	3624.99	3669.99		
80	QPSK	1	1	18.88	19.04	18.80	19.5	0.0
	Channel			638668	641666	644666	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3700.02	3624.99	3699.99		
60	QPSK	1	1	18.91	19.10	18.83	19.5	0.0
	Channel			638334	641666	645000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3715.01	3624.99	3675		
50	QPSK	1	1	18.91	19.13	18.75	19.5	0.0
	Channel			638000	641666	645332	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3700	3624.99	3679.98		
40	QPSK	1	1	18.96	19.08	18.79	19.5	0.0
	Channel			637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3663.01	3624.99	3660		
20	QPSK	1	1	18.93	19.12	18.84	19.5	0.0
	Channel			637668	641666	646166	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3557.52	3624.99	3692.49		
15	QPSK	1	1	18.84	19.00	18.80	19.5	0.0
	Channel			637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3555	3624.99	3694.98		
10	QPSK	1	1	18.89	19.02	18.77	19.5	0.0



Part270 n77 PC2&PC3 Ant5 SA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 656000	High Ch. / Freq. 662000		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.02	17.12	16.99	18.0	0.0
100	PI2 BPSK	1	137	16.32	16.45	16.39		
100	PI2 BPSK	1	271	16.28	16.41	16.28		
100	PI2 BPSK	135	0	16.86	16.98	16.85	18.0	0.0
100	PI2 BPSK	135	69	17.02	17.13	17.06	18.0	0.0
100	PI2 BPSK	135	138	16.95	16.99	16.89	18.0	0.0
100	PI2 BPSK	270	0	16.95	17.02	16.98	18.0	0.0
100	QPSK	1	1	16.48	16.52	16.41	18.0	0.0
100	QPSK	1	137	17.09	17.16	17.13		
100	QPSK	1	271	16.37	16.44	16.36		
100	QPSK	135	0	16.93	17.01	16.98	18.0	0.0
100	QPSK	135	69	16.97	17.08	17.03	18.0	0.0
100	QPSK	135	138	16.87	16.91	16.76	18.0	0.0
100	QPSK	270	0	16.86	16.96	16.91	18.0	0.0
100	16QAM	1	1	16.23	16.27	16.21	18.0	0.0
100	64QAM	1	1	16.11	16.15	16.09	18.0	0.0
100	256QAM	1	1	16.63	16.76	16.66	18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.05	17.05	17.12	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.14	17.12	17.11	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.03	17.10	17.12	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.11	17.04	17.12	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.11	17.08	17.05	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.14	17.03	17.05	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.08	17.07	17.14	18.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.10	17.09	17.14	18.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.07	17.10	17.04	18.0	0.0

Part270Q n77 PC2&PC3 Ant5 SA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 653334	High Ch. / Freq. 653334		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01		18.0	0.0
100	PI2 BPSK	1	137		17.19			
100	PI2 BPSK	1	271		16.16			
100	PI2 BPSK	135	0		17.03		18.0	0.0
100	PI2 BPSK	135	69		17.14		18.0	0.0
100	PI2 BPSK	135	138		16.99		18.0	0.0
100	PI2 BPSK	270	0		17.06		18.0	0.0
100	QPSK	1	1		16.21		18.0	0.0
100	QPSK	1	137		17.25			
100	QPSK	1	271		16.55			
100	QPSK	135	0		17.08		18.0	0.0
100	QPSK	135	69		17.20		18.0	0.0
100	QPSK	135	138		17.09		18.0	0.0
100	QPSK	270	0		17.12		18.0	0.0
100	16QAM	1	1		16.08		18.0	0.0
100	64QAM	1	1		16.03		18.0	0.0
100	256QAM	1	1		16.04		18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.16	17.17	17.15	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.11	17.19	17.14	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.18	17.14	17.12	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.14	17.16	17.20	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.12	17.11	17.15	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.14	17.13	17.19	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.15	17.20	17.14	18.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.15	17.17	17.16	18.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.21	17.22	17.15	18.0	0.0



Part270 n78 PC3 Ant5 SA DSI7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 650000	Power Middle Ch. / Freq. / 650000	Power High Ch. / Freq. / 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	17.18	17.18		
100	Pi2 BPSK	1	137	16.45			18.0 0.0
100	Pi2 BPSK	1	271	16.61			
100	Pi2 BPSK	135	0	16.78			18.0 0.0
100	Pi2 BPSK	135	69	17.16			18.0 0.0
100	Pi2 BPSK	135	138	17.03			
100	Pi2 BPSK	270	0	17.07			18.0 0.0
100	QPSK	1	1	16.52			
100	QPSK	1	137	17.24			18.0 0.0
100	QPSK	1	271	16.69			
100	QPSK	135	0	16.85			18.0 0.0
100	QPSK	135	69	17.23			18.0 0.0
100	QPSK	135	138	17.04			
100	QPSK	270	0	17.11			18.0 0.0
100	16QAM	1	1	16.15			18.0 0.0
100	64QAM	1	1	16.09			18.0 0.0
100	256QAM	1	1	16.07			18.0 0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.16	17.19	17.11	18.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.16	17.16	17.12	18.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.13	17.10	17.13	18.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.13	17.12	17.16	18.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.12	17.19	17.20	18.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.20	17.10	17.18	18.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.13	17.15	17.11	18.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.17	17.17	17.18	18.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.12	17.21	17.14	18.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.15	17.15	17.15	18.0 0.0

Part27Q n78 PC3 Ant5 SA DSI7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / 650000	Power Middle Ch. / Freq. / 650000	Power High Ch. / Freq. / 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	17.12			
100	Pi2 BPSK	1	137	16.62			18.0 0.0
100	Pi2 BPSK	1	271	16.93			
100	Pi2 BPSK	135	0	16.85			18.0 0.0
100	Pi2 BPSK	135	69	17.13			18.0 0.0
100	Pi2 BPSK	135	138	17.04			
100	Pi2 BPSK	270	0	17.10			18.0 0.0
100	QPSK	1	1	16.76			
100	QPSK	1	137	17.16			18.0 0.0
100	QPSK	1	271	16.95			
100	QPSK	135	0	16.92			18.0 0.0
100	QPSK	135	69	17.11			18.0 0.0
100	QPSK	135	138	17.06			
100	QPSK	270	0	17.15			18.0 0.0
100	16QAM	1	1	16.33			18.0 0.0
100	64QAM	1	1	16.28			18.0 0.0
100	256QAM	1	1	16.40			18.0 0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.14	17.12	17.12	18.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.05	17.05	17.05	18.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.03	17.03	17.03	18.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.04	17.12	17.12	18.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.11	17.06	17.06	18.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.08	17.10	17.10	18.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.10	17.10	17.10	18.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.05	17.15	17.06	18.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.13	17.08	17.14	18.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.14	17.12	17.10	18.0 0.0



n41 PC2&PC3 Ant6 SA DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	19.07	19.26	19.17		
100	Pl/2 BPSK	1	137	19.67	19.76	19.60	20.0	0.0
100	Pl/2 BPSK	1	271	19.62	19.75	19.59		
100	Pl/2 BPSK	135	0	19.63	19.71	19.58	20.0	0.0
100	Pl/2 BPSK	135	69	19.69	19.78	19.58	20.0	0.0
100	Pl/2 BPSK	135	138	19.64	19.75	19.62		
100	Pl/2 BPSK	270	0	19.38	19.55	19.38	20.0	0.0
100	QPSK	1	1	19.42	19.48	19.48		
100	QPSK	1	137	19.92	19.94	19.91	20.0	0.0
100	QPSK	1	271	19.66	19.76	19.55		
100	QPSK	135	0	19.68	19.75	19.57	20.0	0.0
100	QPSK	135	69	19.61	19.80	19.58	20.0	0.0
100	QPSK	135	138	19.62	19.73	19.57		
100	QPSK	270	0	19.48	19.49	19.38	20.0	0.0
100	16QAM	1	1	19.12	19.24	19.15	20.0	0.0
100	64QAM	1	1	19.29	19.33	19.22	19.5	0.5
100	256QAM	1	1	16.91	16.95	16.89	17.5	2.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.13	19.14	19.04	20.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.08	19.13	19.10	20.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.07	19.17	19.06	20.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.12	19.19	19.09	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.12	19.18	19.08	20.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.09	19.12	19.04	20.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.06	19.17	19.08	20.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2670.99		
20	QPSK	1	1	19.10	19.15	19.03	20.0	0.0
Channel				500700	518598	536996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.08	19.18	19.04	20.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.10	19.12	19.04	20.0	0.0



Part270 n77 PC2&PC3 Ant7 SA DSI7									
BW [MHz]	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	18.27	18.38	18.29			
100	PI/2 BPSK	1	137	17.37	17.42	17.35	19.0	0.0	
100	PI/2 BPSK	1	271	17.57	17.63	17.57			
100	PI/2 BPSK	135	0	18.50	18.54	18.49	19.0	0.0	
100	PI/2 BPSK	135	69	18.59	18.63	18.59	19.0	0.0	
100	PI/2 BPSK	135	138	18.24	18.33	18.26			
100	PI/2 BPSK	270	0	18.30	18.38	18.29	19.0	0.0	
100	QPSK	1	1	17.38	17.47	17.37			
100	QPSK	1	137	18.60	18.69	18.57	19.0	0.0	
100	QPSK	1	271	17.65	17.68	17.59			
100	QPSK	135	0	18.37	18.46	18.42	19.0	0.0	
100	QPSK	135	69	18.49	18.58	18.53	19.0	0.0	
100	QPSK	135	138	18.37	18.42	18.38			
100	QPSK	270	0	18.36	18.47	18.42	19.0	0.0	
100	16QAM	1	1	17.17	17.28	17.25	19.0	0.0	
100	64QAM	1	1	17.19	17.22	17.13	19.0	0.0	
100	256QAM	1	1	17.91	17.94	17.85	19.0	0.0	
Channel				649668	656000	662334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.64	18.60	18.57	19.0	0.0	
Channel				649334	656000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.57	18.57	18.55	19.0	0.0	
Channel				649000	656000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.56	18.61	18.62	19.0	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.61	18.63	18.63	19.0	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.61	18.56	18.63	19.0	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.59	18.58	18.63	19.0	0.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.63	18.61	18.62	19.0	0.0	
Channel				647168	656000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.65	18.63	18.61	19.0	0.0	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.54	18.59	18.61	19.0	0.0	

Part27Q n77 PC2&PC3 Ant7 SA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633334			
Frequency (MHz)						3500.01			
100	PI/2 BPSK	1	1			18.51			
100	PI/2 BPSK	1	137			17.68			19.0
100	PI/2 BPSK	1	271			17.64			
100	PI/2 BPSK	135	0			18.20			19.0
100	PI/2 BPSK	135	69			18.29			19.0
100	PI/2 BPSK	135	138			18.06			
100	PI/2 BPSK	270	0			18.10			19.0
100	QPSK	1	1			17.76			
100	QPSK	1	137			18.57			19.0
100	QPSK	1	271			17.69			
100	QPSK	135	0			18.13			19.0
100	QPSK	135	69			18.32			19.0
100	QPSK	135	138			18.06			
100	QPSK	270	0			18.12			19.0
100	16QAM	1	1			17.51			19.0
100	64QAM	1	1			17.48			19.0
100	256QAM	1	1			18.00			19.0
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.50	18.46	18.50	19.0	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.45	18.43	18.42	19.0	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3513.01			
70	QPSK	1	1	18.53	18.49	18.45	19.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	18.51	18.47	18.54	19.0	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.42	18.46	18.45	19.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.48	18.53	18.44	19.0	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.53	18.44	18.52	19.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.51	18.50	18.48	19.0	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.47	18.49	18.45	19.0	0.0	



n2 Ant0 NSA DS17

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 37600	Power Mid Ch. / Freq. 37600	Power High Ch. / Freq. 37600	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	12.50	12.54	12.50		
30	PI2 BPSK	1	80	12.87	12.90	12.81	14.0	0.0
30	PI2 BPSK	1	158	12.46	12.51	12.38		
30	PI2 BPSK	80	0	12.83	12.78	12.88	14.0	0.0
30	PI2 BPSK	80	40	12.70	12.82	12.74	14.0	0.0
30	PI2 BPSK	80	80	12.46	12.80	12.51	14.0	0.0
30	PI2 BPSK	160	0	12.69	12.73	12.63	14.0	0.0
30	QPSK	1	1	12.42	12.56	12.48		
30	QPSK	1	80	12.77	12.36	12.82	14.0	0.0
30	QPSK	1	158	12.42	12.48	12.44		
30	QPSK	80	0	12.65	12.70	12.63	14.0	0.0
30	QPSK	80	40	12.72	12.78	12.69	14.0	0.0
30	QPSK	80	80	12.48	12.82	12.57	14.0	0.0
30	QPSK	160	0	12.92	12.87	12.54	14.0	0.0
30	16QAM	1	1	12.28	12.35	12.25	14.0	0.0
30	64QAM	1	1	12.24	12.31	12.20	14.0	0.0
30	256QAM	1	1	12.82	12.88	12.74	14.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	1862.5	1880	1897.5	14.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	37200	37600	38000		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	12.46	12.50	12.45	14.0	0.0
20	PI2 BPSK	1	53	12.81	12.84	12.74	14.0	0.0
20	PI2 BPSK	1	104	12.39	12.47	12.32		
20	PI2 BPSK	50	0	12.58	12.70	12.64	14.0	0.0
20	PI2 BPSK	50	28	12.65	12.77	12.67	14.0	0.0
20	PI2 BPSK	50	56	12.40	12.53	12.48	14.0	0.0
20	PI2 BPSK	100	0	12.63	12.68	12.58	14.0	0.0
20	QPSK	1	1	12.38	12.52	12.41		
20	QPSK	1	53	12.74	12.90	12.77	14.0	0.0
20	QPSK	1	104	12.35	12.43	12.38		
20	QPSK	50	0	12.81	12.86	12.67	23.0	1.0
20	QPSK	50	28	12.68	12.75	12.63	24.0	0.0
20	QPSK	50	56	12.45	12.58	12.52	23.0	1.0
20	QPSK	100	0	12.55	12.61	12.51	23.0	1.0
20	16QAM	1	1	12.24	12.32	12.18	14.0	0.0
20	64QAM	1	1	12.18	12.28	12.17	14.0	0.0
20	256QAM	1	1	12.76	12.84	12.69	14.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1637.2	1680	1622.5	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	37100	37600	38100		
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.86	12.86	12.71	14.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	12.69	12.82	12.77	14.0	0.0

n5 Ant0 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16700	Power Mid Ch. / Freq. 16700	Power High Ch. / Freq. 16700	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.52	22.52	22.52		
25	PI2 BPSK	1	80	22.73	22.73	22.73	24.0	0.0
25	PI2 BPSK	1	158	22.69	22.69	22.69		
25	PI2 BPSK	80	0	22.37	22.37	22.37	23.5	0.5
25	PI2 BPSK	80	40	22.79	22.79	22.79	24.0	0.0
25	PI2 BPSK	80	80	22.43	22.43	22.43	23.5	0.5
25	PI2 BPSK	160	0	22.47	22.47	22.47	23.0	1.0
25	QPSK	1	1	22.76	22.76	22.76		
25	QPSK	1	80	22.70	22.70	22.70	24.0	0.0
25	QPSK	1	158	22.65	22.65	22.65		
25	QPSK	80	0	21.88	21.88	21.88	23.0	1.0
25	QPSK	80	40	22.90	22.90	22.90	24.0	0.0
25	QPSK	80	80	21.91	21.91	21.91	23.0	1.0
25	QPSK	160	0	21.98	21.98	21.98	23.0	1.0
25	16QAM	1	1	21.23	21.23	21.23	23.0	1.0
25	64QAM	1	1	19.75	19.75	19.75	21.5	2.5
25	256QAM	1	1	18.44	18.44	18.44	19.5	4.5
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16800	16700	16700		
20	PI2 BPSK	1	53	834	836.5	839		
20	PI2 BPSK	1	104	22.64	22.68	22.56	24.0	0.0
20	PI2 BPSK	50	0	22.15	22.38	22.14	23.5	0.5
20	PI2 BPSK	50	28	22.64	22.73	22.66	24.0	0.0
20	PI2 BPSK	50	56	22.22	22.36	22.31	23.5	0.5
20	PI2 BPSK	100	0	22.30	22.43	22.36		
20	QPSK	1	1	22.56	22.67	22.57		
20	QPSK	1	53	22.61	22.66	22.55	24.0	0.0
20	QPSK	1	104	22.52	22.58	22.51		
20	QPSK	50	0	21.67	21.86	21.77	23.0	1.0
20	QPSK	50	28	22.70	22.87	22.81	24.0	0.0
20	QPSK	50	56	21.81	21.91	21.75	23.0	1.0
20	QPSK	100	0	21.88	21.95	21.79	23.0	1.0
20	16QAM	1	1	21.05	21.17	21.12	23.0	1.0
20	64QAM	1	1	19.64	19.69	19.63	21.5	2.5
20	256QAM	1	1	18.34	18.38	18.33	19.5	4.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	16800	16700	16800		
15	QPSK	1	1	22.68	22.65	22.68	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	829	836.5	844		
Channel								
Frequency (MHz)								
5	QPSK	1	1	16800	16700	16800		
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.67	22.67	22.72	24.0	0.0

n12 Ant0 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141300	Power Mid Ch. / Freq. 141600	Power High Ch. / Freq. 141700	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.77	22.83	22.74		
15	PI2 BPSK	1	40	22.76	22.79	22.69	24.0	0.0
15	PI2 BPSK	1	77	22.68	22.70	22.58		
15	PI2 BPSK	36	0	22.28	22.32	22.23	23.5	0.5
15	PI2 BPSK	36	22	22.74	22.80	22.71	24.0	0.0
15	PI2 BPSK	36	43	22.19	22.33	22.20	23.5	0.5
15	PI2 BPSK	75	0	22.28	22.36	22.29		
15	QPSK	1	1	22.85	22.87	22.82		
15	QPSK	1	40	22.67	22.75	22.61	24.0	0.0
15	QPSK	1	77	22.63	22.68	22.58		
15	QPSK	36	0	21.73	21.79	21.67	23.0	1.0
15	QPSK	36	22	22.76	22.83	22.79	24.0	0.0
15	QPSK	36	43	21.79	21.84	21.79	23.0	1.0
15	QPSK	75	0	21.87	21.88	21.83	23.0	1.0
15	16QAM	1	1	21.24	21.36	21.30	23.0	1.0
15	64QAM	1	1	19.99	20.07	19.99	21.5	2.5
15	256QAM	1	1	18.50	18.63	18.61	19.5	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	140300	141600	142700		
10	QPSK	1	1	704	707.5	711		
10	QPSK	1	1	22.77	22.76	22.77	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	140300	141600	142700		
5	QPSK	1	1	22.72	22.76	22.70	24.0	0.0



n14 Ant0 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.56	793				
10	PI2 BPSK	1	26	22.52			24.0	0.0	
10	PI2 BPSK	1	59	22.44					
10	PI2 BPSK	25	0	22.12			23.5	0.5	
10	PI2 BPSK	25	14	22.56			24.0	0.0	
10	PI2 BPSK	25	27	21.94			23.5	0.5	
10	PI2 BPSK	50	0	22.01					
10	QPSK	1	1	22.58					
10	QPSK	1	26	22.53			24.0	0.0	
10	QPSK	1	59	22.47					
10	QPSK	25	0	21.88			23.0	1.0	
10	QPSK	25	14	22.55			24.0	0.0	
10	QPSK	25	27	21.43			23.0	1.0	
10	QPSK	50	0	21.01					
10	16QAM	1	1	21.29			23.0	1.0	
10	64QAM	1	1	19.84			21.5	2.5	
10	256QAM	1	1	18.54			19.5	4.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.44	793	795.5	24.0	0.0	

n25 Ant0 NSA DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	12.65	1214	1267			
40	PI2 BPSK	1	108	12.70	12.83	12.80	14.0	0.0	
40	PI2 BPSK	1	214	12.09	12.11	12.05			
40	PI2 BPSK	108	0	12.54	12.58	12.49	14.0	0.0	
40	PI2 BPSK	108	54	12.55	12.67	12.53	14.0	0.0	
40	PI2 BPSK	108	108	12.50	12.59	12.52			
40	PI2 BPSK	216	0	12.51	12.62	12.55			
40	QPSK	1	1	12.04	12.17	12.05			
40	QPSK	1	108	12.84	12.88	12.78	14.0	0.0	
40	QPSK	1	214	12.04	12.08	12.02			
40	QPSK	108	0	12.51	12.56	12.50	14.0	0.0	
40	QPSK	108	54	12.59	12.70	12.64	14.0	0.0	
40	QPSK	108	108	12.50	12.60	12.49			
40	QPSK	216	0	12.57	12.64	12.51			
40	16QAM	1	1	12.42	12.48	12.35	14.0	0.0	
40	64QAM	1	1	12.21	12.35	12.28	14.0	0.0	
40	256QAM	1	1	12.30	12.40	12.31	14.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.72	12.63	12.75	14.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	12.75	12.76	12.70	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.80	12.81	12.65	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.73	12.60	12.75	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.79	12.73	12.72	14.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	12.78	12.81	12.69	14.0	0.0	

n26 Ant0 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.61	22.73	22.66			
20	PI2 BPSK	1	63	22.61	22.69	22.65	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.67	22.54			
20	PI2 BPSK	50	0	22.07	22.14	22.08	23.5	0.5	
20	PI2 BPSK	50	26	22.54	22.66	22.61	24.0	0.0	
20	PI2 BPSK	50	66	22.21	22.29	22.17	23.5	0.5	
20	PI2 BPSK	100	0	22.24	22.35	22.26			
20	QPSK	1	1	22.73	22.75	22.69			
20	QPSK	1	63	22.67	22.69	22.54	24.0	0.0	
20	QPSK	1	104	22.53	22.64	22.52			
20	QPSK	50	0	21.64	21.67	21.61	23.0	1.0	
20	QPSK	50	26	22.66	22.75	22.71	24.0	0.0	
20	QPSK	50	66	21.70	21.79	21.66	23.0	1.0	
20	QPSK	100	0	21.74	21.82	21.82			
20	16QAM	1	1	21.21	21.30	21.16	23.0	1.0	
20	64QAM	1	1	19.88	19.74	19.71	21.5	2.5	
20	256QAM	1	1	18.41	18.46	18.38	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.59	22.67	22.62	#REF!	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.59	22.63	22.58	#REF!	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.67	22.72	22.59	#REF!	0.0	



n66 Ant0 NSA DS17

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	14.08	14.15	14.11		
40	PI2 BPSK	1	106	15.00	15.09	15.02	16.0	0.0
40	PI2 BPSK	1	214	14.02	14.09	14.06		
40	PI2 BPSK	108	0	14.31	14.38	14.34	16.0	0.0
40	PI2 BPSK	108	54	14.80	14.86	14.75	16.0	0.0
40	PI2 BPSK	108	108	14.27	14.37	14.30	16.0	0.0
40	PI2 BPSK	216	0	14.33	14.41	14.30		
40	QPSK	1	1	14.13	14.18	14.07		
40	QPSK	1	108	15.08	15.13	15.06	16.0	0.0
40	QPSK	1	214	14.10	14.12	14.06		
40	QPSK	108	0	14.34	14.43	14.30	16.0	0.0
40	QPSK	108	54	14.88	14.82	14.88	16.0	0.0
40	QPSK	108	108	14.31	14.42	14.35	16.0	0.0
40	QPSK	216	0	14.43	14.47	14.37		
40	16QAM	1	1	14.13	14.19	14.11	16.0	0.0
40	64QAM	1	1	14.08	14.15	14.03	16.0	0.0
40	256QAM	1	1	14.09	14.12	14.06	16.0	0.0
Channel								
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.03	15.10	14.96	16.0	0.0
Channel								
Frequency (MHz)				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	14.95	15.02	15.03	16.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.34	14.39	14.39	16.0	0.0
Channel								
Frequency (MHz)				343500	349000	350500	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.03	15.00	15.00	16.0	0.0
Channel								
Frequency (MHz)				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.94	15.08	15.00	16.0	0.0

n70 Ant0 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	22.48				
15	PI2 BPSK	1	40	22.55			24.0	0.0
15	PI2 BPSK	1	77	22.40				
15	PI2 BPSK	38	0	22.44			24.0	0.0
15	PI2 BPSK	38	22	22.51			24.0	0.0
15	PI2 BPSK	38	43	22.64			24.0	0.0
15	PI2 BPSK	75	0	22.50				
15	QPSK	1	1	22.73				
15	QPSK	1	40	22.51			24.0	0.0
15	QPSK	1	77	22.44				
15	QPSK	38	0	22.38			24.0	0.0
15	QPSK	38	22	22.70			24.0	0.0
15	QPSK	38	43	22.58			24.0	0.0
15	QPSK	75	0	22.65				
15	16QAM	1	1	22.49			24.0	0.0
15	64QAM	1	1	22.08			24.0	0.0
15	256QAM	1	1	21.45			23.0	1.0
Channel								
Frequency (MHz)				1700	1702.5	1705	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.59	22.65	22.63	24.0	0.0
Channel								
Frequency (MHz)				338500	340500	341500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.61	22.63	22.60	24.0	0.0

n71 Ant0 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.67	22.70	22.58		
20	PI2 BPSK	1	63	22.49	22.64	22.52	24.0	0.0
20	PI2 BPSK	1	104	22.38	22.42	22.33		
20	PI2 BPSK	50	0	22.04	22.09	21.98	23.5	0.5
20	PI2 BPSK	50	28	22.61	22.68	22.54	24.0	0.0
20	PI2 BPSK	50	66	22.03	22.06	21.97	23.5	0.5
20	PI2 BPSK	100	0	22.06	22.11	21.98		
20	QPSK	1	1	22.72	22.77	22.69		
20	QPSK	1	63	22.49	22.60	22.52	24.0	0.0
20	QPSK	1	104	22.49	22.53	22.45		
20	QPSK	50	0	21.52	21.57	21.45	23.0	1.0
20	QPSK	50	28	22.73	22.75	22.70	24.0	0.0
20	QPSK	50	66	21.49	21.61	21.52	23.0	1.0
20	QPSK	100	0	21.68	21.76	21.72		
20	16QAM	1	1	21.43	21.49	21.35	23.0	1.0
20	64QAM	1	1	19.79	19.88	19.75	21.5	2.5
20	256QAM	1	1	18.33	18.46	18.38	19.5	4.5
Channel								
Frequency (MHz)				131100	131100	131100	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.65	22.71	22.62	24.0	0.0
Channel								
Frequency (MHz)				136500	136100	136000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.60	22.73	22.65	24.0	0.0
Channel								
Frequency (MHz)				136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.63	22.69	22.62	24.0	0.0



n7 Ant1 NSA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PV2 BPSK	1	1	16.33	16.37	16.30			
50	PV2 BPSK	1	135	16.76	16.88	16.84	18.0	0.0	
50	PV2 BPSK	1	268	16.32	16.40	16.29			
50	PV2 BPSK	135	0	16.65	16.75	16.66	18.0	0.0	
50	PV2 BPSK	135	68	16.67	16.73	16.69	18.0	0.0	
50	PV2 BPSK	135	135	16.62	16.67	16.53	18.0	0.0	
50	PV2 BPSK	270	0	16.65	16.72	16.58			
50	QPSK	1	1	16.85	16.92	16.90			
50	QPSK	1	135	16.34	16.47	16.41	18.0	0.0	
50	QPSK	1	268	16.31	16.36	16.30			
50	QPSK	135	0	16.60	16.71	16.67	17.0	1.0	
50	QPSK	135	68	16.67	16.77	16.72	18.0	0.0	
50	QPSK	135	135	16.59	16.64	16.55			
50	QPSK	270	0	16.63	16.69	16.54	17.0	1.0	
50	16QAM	1	1	16.10	16.22	16.15	18.0	0.0	
50	64QAM	1	1	16.02	16.11	16.02	18.0	0.0	
50	256QAM	1	1	16.69	16.76	16.63	18.0	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	18.0	0.0	
40	QPSK	1	1	16.75	16.88	16.81	18.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	16.77	16.77	16.81	18.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	16.72	16.82	16.76	18.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PV2 BPSK	1	1	16.81	16.78	16.85	18.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	16.74	16.89	16.78	18.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	16.70	16.84	16.75	18.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	16.74	16.87	16.83	18.0	0.0	

n30 Ant1 NSA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						462000			
Frequency (MHz)						2310			
10	PV2 BPSK	1	1			19.45			
10	PV2 BPSK	1	26			19.34			20.5
10	PV2 BPSK	1	50			19.35			
10	PV2 BPSK	25	0			19.29			20.5
10	PV2 BPSK	25	14			19.50			20.5
10	PV2 BPSK	25	27			19.27			20.5
10	PV2 BPSK	50	0			19.40			
10	QPSK	1	1			19.52			
10	QPSK	1	26			19.50			20.5
10	QPSK	1	50			19.37			
10	QPSK	25	0			19.45			20.5
10	QPSK	25	14			19.47			20.5
10	QPSK	25	27			19.32			20.5
10	QPSK	50	0			19.41			
10	16QAM	1	1			19.13			20.5
10	64QAM	1	1			19.07			20.5
10	256QAM	1	1			19.24			20.5
Channel					461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					2307.5	2310	2312.5		
5	QPSK	1	1			19.40			19.39
						19.47			20.5



n41 PC2&PC3 Ant1 NSA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	16.71	16.87	16.65		
100	PI2 BPSK	1	137	16.69	16.85	16.65	17.5	0.0
100	PI2 BPSK	1	271	16.74	16.87	16.79		
100	PI2 BPSK	135	0	16.75	16.74	16.64	17.5	0.0
100	PI2 BPSK	135	69	16.84	17.12	17.07	17.5	0.0
100	PI2 BPSK	135	138	16.80	16.91	16.75	17.5	0.0
100	PI2 BPSK	270	0	16.76	16.87	16.92		
100	QPSK	1	1	16.78	16.86	16.80		
100	QPSK	1	137	17.08	17.16	17.10	17.5	0.0
100	QPSK	1	271	16.77	16.89	16.80		
100	QPSK	135	0	16.78	16.78	16.64	17.5	0.0
100	QPSK	135	69	17.01	17.10	17.00	17.5	0.0
100	QPSK	135	138	16.71	16.87	16.83	17.5	0.0
100	QPSK	270	0	16.72	16.97	16.79		
100	16QAM	1	1	16.76	16.88	16.78	17.5	0.0
100	64QAM	1	1	16.73	16.86	16.80	17.5	0.0
100	256QAM	1	1	16.74	16.86	16.76	17.5	0.0
Channel				505203	518599	526000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	16.75	16.91	16.77	17.5	0.0
Channel				507204	518598	526000		
Frequency (MHz)				2638.02	2692.99	2648.99		
80	QPSK	1	1	16.73	16.86	16.80	17.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	16.76	16.88	16.77	17.5	0.0
Channel				505202	518598	531000		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	16.78	16.88	16.76	17.5	0.0
Channel				505202	518598	536000		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	16.74	16.90	16.78	17.5	0.0
Channel				505202	518598	536000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.75	16.86	16.82	17.5	0.0
Channel				502000	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	16.76	16.88	16.81	17.5	0.0
Channel				501604	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.98		
20	QPSK	1	1	16.74	16.85	16.81	17.5	0.0
Channel				500700	518598	538998		
Frequency (MHz)				2503.01	2592.99	2682.98		
15	QPSK	1	1	16.73	16.89	16.82	17.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2693		
10	QPSK	1	1	16.77	16.89	16.77	17.5	0.0



Part270 n77 PC2&PC3 Ant3 NSA DSI7

BW [MHz]	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	11.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	10.10	10.23	10.29		
100	PI/2 BPSK	1	137	9.29	9.32	9.26	11.0	0.0
100	PI/2 BPSK	1	271	9.50	9.58	9.55		
100	PI/2 BPSK	135	0	9.90	9.96	9.96		
100	PI/2 BPSK	135	69	10.01	10.09	9.94	11.0	0.0
100	PI/2 BPSK	135	138	10.01	10.05	9.99	11.0	0.0
100	PI/2 BPSK	270	0	10.04	10.16	10.14		
100	QPSK	1	1	9.27	9.37	9.14		
100	QPSK	1	137	10.09	10.31	10.22	11.0	0.0
100	QPSK	1	271	9.62	9.75	9.48		
100	QPSK	135	0	9.92	10.00	10.05		
100	QPSK	135	69	10.05	10.15	10.07	11.0	0.0
100	QPSK	135	138	9.91	10.05	9.97	11.0	0.0
100	QPSK	270	0	10.06	10.13	9.92		
100	16QAM	1	1	9.20	9.28	9.17		
100	64QAM	1	1	9.16	9.19	9.12	11.0	0.0
100	256QAM	1	1	9.61	9.70	9.68	11.0	0.0
Channel				649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	10.03	10.17	10.17	11.0	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	10.05	10.18	10.19	11.0	0.0
Channel				649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	10.02	10.26	10.09	11.0	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	9.95	10.24	10.11	11.0	0.0
Channel				648334	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	10.01	10.25	10.09	11.0	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	10.04	10.21	10.12	11.0	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	10.05	10.24	10.17	11.0	0.0
Channel				647168	656000	664834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	10.02	10.16	10.13	11.0	0.0
Channel				647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	9.94	10.23	10.13	11.0	0.0

Part27Q n77 PC2&PC3 Ant3 NSA DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		11.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		10.51			
100	PI/2 BPSK	1	137		9.80		11.0	0.0
100	PI/2 BPSK	1	271		9.78			
100	PI/2 BPSK	135	0		10.47			
100	PI/2 BPSK	135	69		10.52		11.0	0.0
100	PI/2 BPSK	135	138		10.29		11.0	0.0
100	PI/2 BPSK	270	0		10.21			
100	QPSK	1	1		9.91			
100	QPSK	1	137		10.59		11.0	0.0
100	QPSK	1	271		9.83			
100	QPSK	135	0		10.48			
100	QPSK	135	69		10.55		11.0	0.0
100	QPSK	135	138		10.27		11.0	0.0
100	QPSK	270	0		10.29			
100	16QAM	1	1		10.05			
100	64QAM	1	1		9.84		11.0	0.0
100	256QAM	1	1		10.33		11.0	0.0
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	10.46	10.49	10.50	11.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	10.49	10.51	10.47	11.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	10.49	10.53	10.46	11.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	10.54	10.47	10.51	11.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	10.50	10.51	10.54	11.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	10.46	10.46	10.46	11.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	10.53	10.48	10.50	11.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	10.46	10.44	10.44	11.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	10.44	10.46	10.49	11.0	0.0



n2 Ant4 NSA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 376000	Power Mid Ch. / Freq. 376000	Power High Ch. / Freq. 376000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	17.97	18.05	17.98		
30	PI2 BPSK	1	80	18.40	18.43	18.38	19.5	0.0
30	PI2 BPSK	1	158	17.98	18.02	17.90		
30	PI2 BPSK	80	0	18.11	18.23	18.13	19.5	0.0
30	PI2 BPSK	80	40	18.18	18.32	18.19	19.5	0.0
30	PI2 BPSK	80	80	18.02	18.13	18.08	19.5	0.0
30	PI2 BPSK	160	0	18.20	18.25	18.19	19.5	0.0
30	QPSK	1	1	17.94	18.08	18.04		
30	QPSK	1	80	18.41	18.46	18.37	19.5	0.0
30	QPSK	1	158	17.94	18.03	17.92		
30	QPSK	80	0	18.22	18.27	18.20	19.5	0.0
30	QPSK	80	40	18.23	18.30	18.26	19.5	0.0
30	QPSK	80	80	18.06	18.11	18.02	19.5	0.0
30	QPSK	160	0	18.17	18.23	18.13	19.5	0.0
30	16QAM	1	1	17.84	17.90	17.75	19.5	0.0
30	64QAM	1	1	17.73	17.86	17.83	19.5	0.0
30	256QAM	1	1	18.28	18.40	18.20	19.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.62	18.80	18.67	19.5	0.0
25	QPSK	1	1	17.88	18.05	17.99	19.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	17.91	17.99	17.92		
20	PI2 BPSK	1	53	18.35	18.37	18.31	19.5	0.0
20	PI2 BPSK	1	104	17.92	17.96	17.84		
20	PI2 BPSK	50	0	19.09	19.18	19.09	19.5	0.0
20	PI2 BPSK	50	28	18.12	18.28	18.14	19.5	0.0
20	PI2 BPSK	50	56	17.85	18.09	18.04	19.5	0.0
20	PI2 BPSK	100	0	18.13	18.19	18.13	19.5	0.0
20	QPSK	1	1	17.88	18.01	17.99		
20	QPSK	1	53	18.35	18.41	18.33	19.5	0.0
20	QPSK	1	104	17.90	17.99	17.85		
20	QPSK	50	0	18.18	18.24	18.16	23.0	1.0
20	QPSK	50	28	18.18	18.24	18.20	24.0	1.0
20	QPSK	50	56	18.03	18.05	17.96	19.5	0.0
20	QPSK	100	0	18.12	18.18	18.09	23.0	1.0
20	16QAM	1	1	17.79	17.86	17.75	19.5	0.0
20	64QAM	1	1	17.66	17.82	17.76	19.5	0.0
20	256QAM	1	1	18.23	18.36	18.14	19.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.35	18.35	18.33	19.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.28	18.40	18.25	19.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	18.35	18.38	18.31	19.5	0.0

n5 Ant4 NSA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 167900	Power Mid Ch. / Freq. 167900	Power High Ch. / Freq. 167900	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	19.76	19.81	19.76		
25	PI2 BPSK	1	80	20.03	20.06	20.02	21.5	0.0
25	PI2 BPSK	1	158	19.84	19.84	19.84		
25	PI2 BPSK	80	0	20.08	20.08	20.08	21.5	0.0
25	PI2 BPSK	80	40	20.06	20.06	20.06	21.5	0.0
25	PI2 BPSK	80	80	20.12	20.12	20.12	21.5	0.0
25	PI2 BPSK	160	0	20.15	20.15	20.15	21.5	0.0
25	QPSK	1	1	20.18	20.18	20.18		
25	QPSK	1	80	19.81	19.81	19.81	21.5	0.0
25	QPSK	1	158	19.92	19.92	19.92		
25	QPSK	80	0	20.04	20.04	20.04	21.5	0.0
25	QPSK	80	40	20.13	20.13	20.13	21.5	0.0
25	QPSK	80	80	20.09	20.09	20.09	21.5	0.0
25	QPSK	160	0	20.11	20.11	20.11	21.5	0.0
25	16QAM	1	1	19.59	19.59	19.59	21.5	0.0
25	64QAM	1	1	19.57	19.57	19.57	21.5	0.0
25	256QAM	1	1	18.31	18.31	18.31	19.5	2.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.64	19.72	19.59		
20	PI2 BPSK	1	53	19.92	19.96	19.89	21.5	0.0
20	PI2 BPSK	1	104	19.84	19.90	19.87		
20	PI2 BPSK	50	0	20.00	20.04	19.90	21.5	0.0
20	PI2 BPSK	50	28	19.87	20.00	19.88	21.5	0.0
20	PI2 BPSK	50	56	19.97	20.08	19.96	21.5	0.0
20	PI2 BPSK	100	0	20.00	20.12	20.02	21.5	0.0
20	QPSK	1	1	19.99	20.11	20.05		
20	QPSK	1	53	19.77	19.75	19.67	21.5	0.0
20	QPSK	1	104	19.74	19.67	19.77		
20	QPSK	50	0	19.91	20.00	19.90	23.0	1.0
20	QPSK	50	28	20.01	20.07	19.97	24.0	1.0
20	QPSK	50	56	19.96	20.02	19.96	23.0	1.0
20	QPSK	100	0	19.98	20.04	20.00	21.5	0.0
20	16QAM	1	1	19.92	19.96	19.90	21.5	0.0
20	64QAM	1	1	19.50	19.53	19.47	21.5	0.0
20	256QAM	1	1	18.14	18.26	18.12	19.5	2.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.94	20.15	20.06	21.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.93	20.11	20.04	21.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	19.92	20.06	19.97	21.5	0.0

n7 Ant4 NSA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 507000	Power Mid Ch. / Freq. 507000	Power High Ch. / Freq. 507000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.33	18.41	18.27		
50	PI2 BPSK	1	135	18.68	18.77	18.72	19.5	0.0
50	PI2 BPSK	1	268	18.51	18.55	18.50		
50	PI2 BPSK	135	0	18.45	18.59	18.49	19.5	0.0
50	PI2 BPSK	135	68	18.74	18.77	18.65	19.5	0.0
50	PI2 BPSK	135	135	18.69	18.76	18.63	19.5	0.0
50	PI2 BPSK	270	0	18.71	18.79	18.72	19.5	0.0
50	QPSK	1	1	18.76	18.82	18.72		
50	QPSK	1	135	18.44	18.49	18.47	19.5	0.0
50	QPSK	1	268	18.52	18.52	18.51		
50	QPSK	135	0	18.45	18.56	18.52	19.5	0.0
50	QPSK	135	68	18.71	18.81	18.69	19.5	0.0
50	QPSK	135	135	18.64	18.72	18.61	19.5	0.0
50	QPSK	270	0	18.72	18.77	18.65	19.5	0.0
50	16QAM	1	1	18.17	18.29	18.24	19.5	0.0
50	64QAM	1	1	18.09	18.22	18.18	19.5	0.0
50	256QAM	1	1	18.07	18.10	18.09	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.70	18.79	18.62	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.61	18.71	18.59	19.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.54	18.77	18.59	19.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.30	18.33	18.29	19.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.63	18.76	18.64	19.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.66	18.70	18.68	19.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	18.65	18.72	18.55	19.5	0.0



n12 Ant4 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				141300	141600	141700			
Frequency (MHz)									
15	PI2 BPSK	1	1	22.17	22.22	22.09			
15	PI2 BPSK	1	49	22.05	22.10	22.03	24.0	0.0	
15	PI2 BPSK	1	77	22.05	22.11	22.05			
15	PI2 BPSK	36	0	21.54	21.83	21.53	23.5	0.5	
15	PI2 BPSK	36	22	22.04	22.11	22.06	24.0	0.0	
15	PI2 BPSK	36	43	21.81	21.85	21.80	23.5	0.5	
15	PI2 BPSK	75	0	21.82	21.87	21.82			
15	QPSK	1	1	22.28	22.31	22.24			
15	QPSK	1	49	22.28	22.14	22.07	24.0	0.0	
15	QPSK	1	77	22.02	22.10	22.06			
15	QPSK	36	0	21.08	21.11	21.03	23.0	1.0	
15	QPSK	36	22	22.11	22.26	22.17	24.0	0.0	
15	QPSK	36	43	21.14	21.22	21.08	23.0	1.0	
15	QPSK	75	0	21.22	21.28	21.23			
15	16QAM	1	1	21.23	21.31	21.16	23.0	1.0	
15	64QAM	1	1	19.59	19.88	19.54	21.5	2.5	
15	256QAM	1	1	17.24	17.68	17.59	19.5	4.5	
Channel									
				142000	141000	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.17	22.27	22.22	24.0	0.0	
Channel									
				140300	141600	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.14	22.28	22.23	24.0	0.0	

n25 Ant4 NSA DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				374000	376500	379000			
Frequency (MHz)									
40	PI2 BPSK	1	1	17.56	17.65	17.60			
40	PI2 BPSK	1	108	18.26	18.35	18.28	19.5	0.0	
40	PI2 BPSK	1	214	17.61	17.62	17.58			
40	PI2 BPSK	108	0	17.84	18.04	17.84	19.5	0.0	
40	PI2 BPSK	108	54	18.16	18.20	18.14	19.5	0.0	
40	PI2 BPSK	108	108	17.86	18.09	18.05	19.5	0.0	
40	PI2 BPSK	216	0	18.10	18.16	18.02			
40	QPSK	1	1	17.53	17.56	17.51			
40	QPSK	1	108	18.31	18.39	18.18	19.5	0.0	
40	QPSK	1	214	17.54	17.55	17.52			
40	QPSK	108	0	17.84	18.07	17.88	19.5	0.0	
40	QPSK	108	54	18.19	18.23	18.09	19.5	0.0	
40	QPSK	108	108	18.01	18.08	18.04	19.5	0.0	
40	QPSK	216	0	18.03	18.11	17.89			
40	16QAM	1	1	17.59	17.63	17.56	19.5	0.0	
40	64QAM	1	1	17.55	17.58	17.53	19.5	0.0	
40	256QAM	1	1	17.22	17.47	17.72	19.5	0.0	
Channel									
				372000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	18.20	18.26	18.14	19.5	0.0	
Channel									
				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	18.24	18.30	18.05	19.5	0.0	
Channel									
				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	18.00	18.25	19.05	19.5	0.0	
Channel									
				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	18.21	18.30	18.10	19.5	0.0	
Channel									
				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	18.17	18.30	18.09	19.5	0.0	
Channel									
				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	18.24	18.34	18.07	19.5	0.0	

n26 Ant4 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				164800	166300	167800			
Frequency (MHz)									
20	PI2 BPSK	1	1	22.32	22.39	22.29			
20	PI2 BPSK	1	63	22.26	22.32	22.20	24.0	0.0	
20	PI2 BPSK	1	104	22.22	22.25	22.15			
20	PI2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5	
20	PI2 BPSK	50	28	22.18	22.22	22.15	24.0	0.0	
20	PI2 BPSK	50	66	21.72	21.76	21.72	23.5	0.5	
20	PI2 BPSK	100	0	21.78	21.86	21.79			
20	QPSK	1	1	22.42	22.45	22.39			
20	QPSK	1	63	22.22	22.39	22.25	24.0	0.0	
20	QPSK	1	104	22.15	22.23	22.11			
20	QPSK	50	0	21.12	21.22	21.07	23.0	1.0	
20	QPSK	50	28	22.23	22.28	22.27	24.0	0.0	
20	QPSK	50	66	21.28	21.37	21.27	23.0	1.0	
20	QPSK	100	0	21.39	21.46	21.41			
20	16QAM	1	1	21.44	21.50	21.43	23.0	1.0	
20	64QAM	1	1	19.72	19.85	19.77	21.5	2.5	
20	256QAM	1	1	18.01	18.10	18.06	19.5	4.5	
Channel									
				163300	163300	163300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.30	22.36	22.34	#REF!	0.0	
Channel									
				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.39	22.41	22.31	#REF!	0.0	
Channel									
				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.38	22.31	22.24	#REF!	0.0	



n30 Ant4 NSA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	17.80				
10	PI2 BPSK	1	26	17.77			19.5	0.0
10	PI2 BPSK	1	50	17.73				
10	PI2 BPSK	25	0	17.81			19.5	0.0
10	PI2 BPSK	25	14	17.84			19.5	0.0
10	PI2 BPSK	25	27	17.74			19.5	0.0
10	PI2 BPSK	50	0	17.81			19.5	0.0
10	QPSK	1	1	17.89				
10	QPSK	1	26	17.79			19.5	0.0
10	QPSK	1	50	17.76				
10	QPSK	25	0	17.83			19.5	0.0
10	QPSK	25	14	17.86			19.5	0.0
10	QPSK	25	27	17.81			19.5	0.0
10	QPSK	50	0	17.83			19.5	0.0
10	16QAM	1	1	17.74			19.5	0.0
10	64QAM	1	1	17.88			19.5	0.0
10	256QAM	1	1	17.62			19.5	0.0
Channel				461500	462000	462500		
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	17.74	17.86	17.81	19.5	0.0

n66 Ant4 NSA DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1720				
40	PI2 BPSK	1	1	14.58	14.67	14.57		
40	PI2 BPSK	1	108	15.47	15.58	15.47	16.5	0.0
40	PI2 BPSK	1	214	14.57	14.63	14.54		
40	PI2 BPSK	108	0	14.79	14.94	14.88	16.5	0.0
40	PI2 BPSK	108	54	15.23	15.33	15.24	16.5	0.0
40	PI2 BPSK	108	108	14.79	14.91	14.84	16.5	0.0
40	PI2 BPSK	216	0	14.93	14.97	14.94	16.5	0.0
40	QPSK	1	1	14.84	14.71	14.67		
40	QPSK	1	108	15.62	15.68	15.51	16.5	0.0
40	QPSK	1	214	14.52	14.58	14.54		
40	QPSK	108	0	14.90	14.97	14.87	16.5	0.0
40	QPSK	108	54	15.22	15.35	15.20	16.5	0.0
40	QPSK	108	108	14.89	14.95	14.85	16.5	0.0
40	QPSK	216	0	14.98	14.99	14.91	16.5	0.0
40	16QAM	1	1	14.66	14.71	14.65	16.5	0.0
40	64QAM	1	1	14.51	14.64	14.59	16.5	0.0
40	256QAM	1	1	14.50	14.60	14.55	16.5	0.0
Channel				343500	343500	343500		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.52	15.51	15.44	16.5	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	15.55	15.52	15.37	16.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.51	15.61	15.44	16.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.43	15.50	15.40	16.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.55	15.56	15.38	16.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.50	15.54	15.41	16.5	0.0

n71 Ant4 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				670				
20	PI2 BPSK	1	1	22.49	22.53	22.40		
20	PI2 BPSK	1	63	22.37	22.40	22.30	24.0	0.0
20	PI2 BPSK	1	104	22.23	22.37	22.29		
20	PI2 BPSK	50	0	21.88	21.98	21.93	23.5	0.5
20	PI2 BPSK	50	28	22.20	22.33	22.26	24.0	0.0
20	PI2 BPSK	50	66	21.76	21.86	21.78	23.5	0.5
20	PI2 BPSK	100	0	21.81	21.95	21.82		
20	QPSK	1	1	22.51	22.55	22.47		
20	QPSK	1	63	22.36	22.47	22.42	24.0	0.0
20	QPSK	1	104	22.24	22.29	22.25		
20	QPSK	50	0	21.30	21.34	21.23	23.0	1.0
20	QPSK	50	28	22.35	22.43	22.39	24.0	0.0
20	QPSK	50	66	21.32	21.44	21.32	23.0	1.0
20	QPSK	100	0	21.42	21.60	21.45		
20	16QAM	1	1	21.50	21.62	21.54	23.0	1.0
20	64QAM	1	1	19.96	20.02	19.95	21.5	2.5
20	256QAM	1	1	18.14	18.20	18.06	19.5	4.5
Channel				131100	131100	131100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.41	22.48	22.37	24.0	0.0
Channel				130500	136100	138900		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.44	22.43	22.38	24.0	0.0
Channel				130100	136100	139100		
Frequency (MHz)				665.5	681.5	695.5		
5	QPSK	1	1	22.38	22.45	22.35	24.0	0.0



Part270 n77 PC2&PC3 Ant5 NSA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 660000	Power Middle Ch. / Freq. 666000	Power High Ch. / Freq. 666000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	13.02	13.15	12.97			
100	Pi2 BPSK	1	137	12.34	12.51	12.37	14.0	0.0	
100	Pi2 BPSK	1	271	12.24	12.45	12.35			
100	Pi2 BPSK	135	0	12.87	13.05	12.86	14.0	0.0	
100	Pi2 BPSK	135	69	13.68	13.14	13.01			14.0
100	Pi2 BPSK	135	138	12.97	12.97	12.92			14.0
100	Pi2 BPSK	270	0	12.61	13.07	12.99	14.0	0.0	
100	QPSK	1	1	12.48	12.51	12.48			
100	QPSK	1	137	13.16	13.20	13.11	14.0	0.0	
100	QPSK	1	271	12.33	12.45	12.38			
100	QPSK	135	0	13.00	12.98	12.93	14.0	0.0	
100	QPSK	135	69	12.93	13.06	12.98	14.0	0.0	
100	QPSK	135	138	12.63	12.86	12.82	14.0	0.0	
100	QPSK	270	0	12.85	12.99	12.92			
100	16QAM	1	1	12.30	12.30	12.21	14.0	0.0	
100	64QAM	1	1	12.11	12.20	12.06	14.0	0.0	
100	256QAM	1	1	12.62	12.71	12.73	14.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.06	13.14	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.03	13.11	13.05	14.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.05	13.15	13.05	14.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.05	13.09	13.04	14.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.06	13.07	13.06	14.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.12	13.12	13.02	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.03	13.08	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.13	13.13	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.06	13.06	13.04	14.0	0.0	

Part27Q n77 PC2&PC3 Ant5 NSA DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	13.22		13.00			
100	Pi2 BPSK	1	137	13.18		13.18	14.0	0.0	
100	Pi2 BPSK	1	271	12.49		12.49			
100	Pi2 BPSK	135	0	13.03		13.03	14.0	0.0	
100	Pi2 BPSK	135	69	13.09		13.09	14.0	0.0	
100	Pi2 BPSK	135	138	12.95		12.95			14.0
100	Pi2 BPSK	270	0	13.01		13.01	14.0	0.0	
100	QPSK	1	1	12.49		12.49			
100	QPSK	1	137	13.31		13.31	14.0	0.0	
100	QPSK	1	271	12.51		12.51			
100	QPSK	135	0	13.14		13.14	14.0	0.0	
100	QPSK	135	69	13.17		13.17	14.0	0.0	
100	QPSK	135	138	13.05		13.05	14.0	0.0	
100	QPSK	270	0	13.05		13.05			
100	16QAM	1	1	12.08		12.08	14.0	0.0	
100	64QAM	1	1	12.05		12.05	14.0	0.0	
100	256QAM	1	1	12.64		12.64	14.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.21	13.24	13.23	14.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.21	13.19	13.26	14.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.24	13.22	13.27	14.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.20	13.20	13.16	14.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.26	13.25	13.22	14.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.26	13.27	13.20	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.20	13.25	13.17	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.21	13.19	13.19	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.19	13.26	13.26	14.0	0.0	



Part270 n78 PC3 Ant5 NSA DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. F. Freq. 650000	Midle Ch. F. Freq. 650000	High Ch. F. Freq. 650000		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	3750	3750	3750		
100	Pi2 BPSK	1	137		13.16		14.0	0.0
100	Pi2 BPSK	1	271		12.85			
100	Pi2 BPSK	135	0		12.74		14.0	0.0
100	Pi2 BPSK	135	69		13.16		14.0	0.0
100	Pi2 BPSK	135	138		12.96			
100	Pi2 BPSK	270	0		13.11		14.0	0.0
100	QPSK	1	1		12.88			
100	QPSK	1	137		13.24		14.0	0.0
100	QPSK	1	271		12.71			
100	QPSK	135	0		12.85		14.0	0.0
100	QPSK	135	69		13.22		14.0	0.0
100	QPSK	135	138		13.02			
100	QPSK	270	0		13.05		14.0	0.0
100	16QAM	1	1		12.20		14.0	0.0
100	64QAM	1	1		12.12		14.0	0.0
100	256QAM	1	1		12.82		14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3750	3755.01		
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3750	3760.02		
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3750	3765		
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.02	3750	3770.01		
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	652000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3725.01	3750	3775.02		
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3750	3780		
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3750	3785.01		
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3750	3790.02		
Channel								
Frequency (MHz)								
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3705	3750	3795		
Channel								
Frequency (MHz)								
10	QPSK	1	1	646668	650000	653334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3700	3750	3800		

Part270Q n78 Ant5 NSA PC3 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. F. Freq. 653334	Midle Ch. F. Freq. 653334	High Ch. F. Freq. 653334		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		13.33			
100	Pi2 BPSK	1	137		13.11		14.0	0.0
100	Pi2 BPSK	1	271		13.14			
100	Pi2 BPSK	135	0		13.02		14.0	0.0
100	Pi2 BPSK	135	69		13.35		14.0	0.0
100	Pi2 BPSK	135	138		13.29			
100	Pi2 BPSK	270	0		13.26		14.0	0.0
100	QPSK	1	1		13.05			
100	QPSK	1	137		13.41		14.0	0.0
100	QPSK	1	271		13.13			
100	QPSK	135	0		13.14		14.0	0.0
100	QPSK	135	69		13.27		14.0	0.0
100	QPSK	135	138		13.25			
100	QPSK	270	0		13.30		14.0	0.0
100	16QAM	1	1		12.84		14.0	0.0
100	64QAM	1	1		12.47		14.0	0.0
100	256QAM	1	1		12.98		14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3485	3500.01	3505.02		
90	QPSK	1	1	13.31	13.35	13.35		
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3480.02	3500.01	3510.01		
80	QPSK	1	1	13.28	13.38	13.38		
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3475.01	3500.01	3515.01		
70	QPSK	1	1	13.27	13.34	13.34		
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3470.02	3500.01	3520.02		
60	QPSK	1	1	13.29	13.28	13.28		
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3465.02	3500.01	3525.02		
50	QPSK	1	1	13.27	13.35	13.35		
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3460.01	3500.01	3530.01		
40	QPSK	1	1	13.38	13.34	13.34		
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3455.01	3500.01	3535.02		
30	QPSK	1	1	13.30	13.35	13.35		
Channel								
Frequency (MHz)								
20	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3450.02	3500.01	3540.02		
20	QPSK	1	1	13.31	13.37	13.37		
Channel								
Frequency (MHz)								
15	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3445.01	3500.01	3545.01		
15	QPSK	1	1	13.33	13.31	13.31		
Channel								
Frequency (MHz)								
10	QPSK	1	1	630000	633334	636668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3440.01	3500.01	3545.01		
10	QPSK	1	1	13.35	13.29	13.29		



n2 Ant0 SA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	17.10	17.40	17.60			
30	PI2 BPSK	1	80	17.34	17.44	17.20	18.5	0.0	
30	PI2 BPSK	1	158	16.98	17.10	17.01			
30	PI2 BPSK	80	0	17.19	17.32	17.26	18.5	0.0	
30	PI2 BPSK	80	40	17.30	17.35	17.21	18.5	0.0	
30	PI2 BPSK	80	80	17.05	17.15	17.08			
30	PI2 BPSK	160	0	17.16	17.30	17.17	18.5	0.0	
30	QPSK	1	1	16.97	17.11	17.09			
30	QPSK	1	80	17.44	17.50	17.40	18.5	0.0	
30	QPSK	1	158	16.96	17.03	16.91			
30	QPSK	80	0	17.23	17.26	17.22	18.5	0.0	
30	QPSK	80	40	17.19	17.33	17.26	18.5	0.0	
30	QPSK	80	80	17.06	17.18	17.09	18.5	0.0	
30	QPSK	160	0	17.11	17.25	17.17	18.5	0.0	
30	16QAM	1	1	16.75	16.88	16.82	18.5	0.0	
30	64QAM	1	1	16.88	16.92	16.78	18.5	0.0	
30	256QAM	1	1	17.11	17.16	17.06	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.84	17.07	17.05	18.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	17.03	17.08	16.95			
20	PI2 BPSK	1	53	17.27	17.40	17.22	18.5	0.0	
20	PI2 BPSK	1	104	16.92	17.05	16.96			
20	PI2 BPSK	50	0	17.14	17.28	17.19	18.5	0.0	
20	PI2 BPSK	50	28	17.25	17.29	17.18	18.5	0.0	
20	PI2 BPSK	50	56	16.99	17.10	17.02	18.5	0.0	
20	PI2 BPSK	100	0	17.12	17.25	17.12	18.5	0.0	
20	QPSK	1	1	16.90	17.05	17.03			
20	QPSK	1	53	17.38	17.46	17.35	18.5	0.0	
20	QPSK	1	104	16.90	16.99	16.88			
20	QPSK	50	0	17.19	17.20	17.17	23.0	1.0	
20	QPSK	50	28	17.12	17.26	17.19	24.0	0.0	
20	QPSK	50	56	16.99	17.12	17.05	23.0	1.0	
20	QPSK	100	0	17.04	17.18	17.10	18.5	0.0	
20	16QAM	1	1	16.69	16.83	16.76	18.5	0.0	
20	64QAM	1	1	16.84	16.86	16.74	18.5	0.0	
20	256QAM	1	1	17.06	17.10	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.23	17.35	17.27	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.92	17.91	17.91	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.39	17.44	17.28	18.5	0.0	

Reduced Power Mode for Sensor on for 5G NR									
n5 Ant0 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	22.47	22.52	22.43			
25	PI2 BPSK	1	80	22.73	22.73	22.73	24.0	0.0	
25	PI2 BPSK	1	158	22.69	22.69	22.69			
25	PI2 BPSK	80	0	22.37	22.37	22.37	23.5	0.5	
25	PI2 BPSK	80	40	22.76	22.76	22.76	24.0	0.0	
25	PI2 BPSK	80	80	22.47	22.47	22.47	23.5	0.5	
25	QPSK	1	1	22.76	22.76	22.76			
25	QPSK	1	80	22.70	22.70	22.70	24.0	0.0	
25	QPSK	1	158	22.65	22.65	22.65			
25	QPSK	80	0	21.89	21.89	21.89	23.0	1.0	
25	QPSK	80	40	22.90	22.90	22.90	24.0	0.0	
25	QPSK	80	80	21.91	21.91	21.91	23.0	1.0	
25	QPSK	160	0	21.98	21.98	21.98	24.0	1.0	
25	16QAM	1	1	21.23	21.23	21.23	23.0	1.0	
25	64QAM	1	1	19.75	19.75	19.75	23.5	2.5	
25	256QAM	1	1	18.44	18.44	18.44	19.5	4.5	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.47	22.49	22.37			
20	PI2 BPSK	1	53	22.64	22.68	22.56	24.0	0.0	
20	PI2 BPSK	1	104	22.50	22.60	22.54			
20	PI2 BPSK	50	0	22.15	22.36	22.14	23.5	0.5	
20	PI2 BPSK	50	28	22.64	22.73	22.66	24.0	0.0	
20	PI2 BPSK	50	56	22.22	22.36	22.31	23.5	0.5	
20	PI2 BPSK	100	0	22.30	22.43	22.36			
20	QPSK	1	1	22.56	22.67	22.57			
20	QPSK	1	53	22.61	22.66	22.55	24.0	0.0	
20	QPSK	1	104	22.52	22.58	22.51			
20	QPSK	50	0	21.67	21.86	21.77	23.0	1.0	
20	QPSK	50	28	22.70	22.87	22.81	24.0	0.0	
20	QPSK	50	56	21.81	21.91	21.75	23.0	1.0	
20	QPSK	100	0	21.80	21.95	21.79	23.0	1.0	
20	16QAM	1	1	21.05	21.17	21.12	23.0	1.0	
20	64QAM	1	1	19.84	19.89	19.83	21.5	2.5	
20	256QAM	1	1	18.34	18.36	18.33	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.58	22.65	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.68	22.62	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.67	22.67	22.72	24.0	0.0	

n12 Ant0 SA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.77	22.83	22.74			
15	PI2 BPSK	1	40	22.76	22.79	22.69	24.0	0.0	
15	PI2 BPSK	1	77	22.66	22.70	22.58			
15	PI2 BPSK	36	0	22.26	22.32	22.23	23.5	0.5	
15	PI2 BPSK	36	22	22.74	22.80	22.71	24.0	0.0	
15	PI2 BPSK	36	43	22.19	22.33	22.20	23.5	0.5	
15	PI2 BPSK	75	0	22.28	22.36	22.29			
15	QPSK	1	1	22.85	22.87	22.82			
15	QPSK	1	40	22.67	22.75	22.61	24.0	0.0	
15	QPSK	1	77	22.63	22.68	22.58			
15	QPSK	36	0	21.73	21.79	21.67	23.0	1.0	
15	QPSK	36	22	22.76	22.83	22.79	24.0	0.0	
15	QPSK	36	43	21.79	21.84	21.79	23.0	1.0	
15	QPSK	75	0	21.67	21.68	21.63	23.0	1.0	
15	16QAM	1	1	21.24	21.36	21.30	23.0	1.0	
15	64QAM	1	1	19.99	20.07	19.99	21.5	2.5	
15	256QAM	1	1	18.58	18.65	18.61	19.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.77	22.76	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.72	22.76	22.70	24.0	0.0	



n14 Ant0 SA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158100					
Frequency (MHz)				790.5					
10	PI2 BPSK	1	1	22.92					
10	PI2 BPSK	1	26	22.52			24.0	0.0	
10	PI2 BPSK	1	50	22.44					
10	PI2 BPSK	25	0	22.12			23.5	0.5	
10	PI2 BPSK	25	14	22.06			24.0	0.0	
10	PI2 BPSK	25	27	21.94					
10	PI2 BPSK	50	0	22.01			23.5	0.5	
10	QPSK	1	1	22.58					
10	QPSK	1	26	22.53			24.0	0.0	
10	QPSK	1	50	22.47					
10	QPSK	25	0	21.58			23.0	1.0	
10	QPSK	25	14	22.55			24.0	0.0	
10	QPSK	25	27	21.43					
10	QPSK	50	0	21.50			23.0	1.0	
10	16QAM	1	1	21.29			23.0	1.0	
10	64QAM	1	1	19.84			21.5	2.5	
10	256QAM	1	1	18.54			19.5	4.5	
Channel				158100	158500	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	796.5			
5	QPSK	1	1	22.44	22.53	22.47	24.0	0.0	

n25 Ant0 SA DS13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000					
Frequency (MHz)				1870	1892.5	1905			
40	PI2 BPSK	1	1	18.78	18.82	18.74			
40	PI2 BPSK	1	108	17.22	17.26	17.25	18.5	0.0	
40	PI2 BPSK	1	214	18.73	18.79	18.76			
40	PI2 BPSK	108	0	17.17	17.24	17.13	18.5	0.0	
40	PI2 BPSK	108	54	17.36	17.39	17.34	18.5	0.0	
40	PI2 BPSK	108	108	17.25	17.33	17.23	18.5	0.0	
40	PI2 BPSK	216	0	17.20	17.31	17.22			
40	QPSK	1	1	18.78	18.81	18.75			
40	QPSK	1	108	17.25	17.41	17.39	18.5	0.0	
40	QPSK	1	214	18.72	18.81	18.77			
40	QPSK	108	0	17.21	17.27	17.16	18.5	0.0	
40	QPSK	108	54	17.34	17.45	17.39	18.5	0.0	
40	QPSK	108	108	17.17	17.29	17.22			
40	QPSK	216	0	17.24	17.35	17.30	18.5	0.0	
40	16QAM	1	1	16.80	16.89	16.83	18.5	0.0	
40	64QAM	1	1	16.78	16.83	16.73	18.5	0.0	
40	256QAM	1	1	17.02	17.10	16.97	18.5	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	17.21	17.36	17.31	18.5	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
25	QPSK	1	1	17.18	17.33	17.26	18.5	0.0	
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1905			
20	QPSK	1	1	17.20	17.30	17.34	18.5	0.0	
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1875	1882.5	1907.5			
15	QPSK	1	1	17.11	17.23	17.23	18.5	0.0	
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	17.16	17.31	17.29	18.5	0.0	
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	17.19	17.27	17.33	18.5	0.0	

n26 Ant0 SA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800					
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.61	22.73	22.66			
20	PI2 BPSK	1	63	22.61	22.69	22.65	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.87	22.84			
20	PI2 BPSK	50	0	22.07	22.14	22.06	23.5	0.5	
20	PI2 BPSK	50	28	22.54	22.66	22.61	24.0	0.0	
20	PI2 BPSK	50	56	22.21	22.29	22.17	23.5	0.5	
20	PI2 BPSK	100	0	22.24	22.35	22.28			
20	QPSK	1	1	22.73	22.76	22.69			
20	QPSK	1	63	22.57	22.69	22.54	24.0	0.0	
20	QPSK	1	104	22.53	22.64	22.52			
20	QPSK	50	0	21.64	21.67	21.61	23.0	1.0	
20	QPSK	50	28	22.66	22.75	22.71	24.0	0.0	
20	QPSK	50	56	21.70	21.79	21.66	23.0	1.0	
20	QPSK	100	0	21.74	21.82	21.62	23.0	1.0	
20	16QAM	1	1	21.21	21.30	21.16	23.0	1.0	
20	64QAM	1	1	19.68	19.74	19.71	21.5	2.5	
20	256QAM	1	1	18.41	18.46	18.38	19.5	4.5	
Channel				164300	165300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.59	22.67	22.62	#REF!	0.0	
Channel				163800	165000	166000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.59	22.63	22.58	#REF!	0.0	
Channel				163300	165000	166000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.67	22.72	22.59	#REF!	0.0	



n66 Ant0 SA DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				346000	349000	352000				
Frequency (MHz)				1743	1745	1760				
40	PI2 BPSK	1	1	18.10	18.13	18.02				
40	PI2 BPSK	1	108	19.00	19.07	18.96	20.0	0.0		
40	PI2 BPSK	1	214	18.01	18.08	18.05				
40	PI2 BPSK	108	0	18.32	18.41	18.28	20.0	0.0		
40	PI2 BPSK	108	54	18.77	18.83	18.72	20.0	0.0		
40	PI2 BPSK	108	108	18.27	18.38	18.23	20.0	0.0		
40	PI2 BPSK	216	0	18.37	18.40	18.27				
40	QPSK	1	1	18.12	18.18	18.16				
40	QPSK	1	108	18.03	18.10	18.09	20.0	0.0		
40	QPSK	1	214	18.06	18.12	18.09				
40	QPSK	108	0	18.20	18.34	18.22	20.0	0.0		
40	QPSK	108	54	18.81	18.88	18.85	20.0	0.0		
40	QPSK	108	108	18.18	18.32	18.19	20.0	0.0		
40	QPSK	216	0	18.24	18.38	18.29				
40	16QAM	1	1	18.03	18.17	18.04	20.0	0.0		
40	64QAM	1	1	18.01	18.13	18.09	20.0	0.0		
40	256QAM	1	1	18.37	18.48	18.34	20.0	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	18.88	19.00	18.81	20.0	0.0		
Channel				344000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1722.5	1745	1767.5				
25	QPSK	1	1	18.84	19.04	18.77	20.0	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
20	QPSK	1	1	18.79	18.96	18.77	20.0	0.0		
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
15	QPSK	1	1	18.69	18.87	18.69	20.0	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	18.78	19.03	18.85	20.0	0.0		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	18.88	19.01	18.82	20.0	0.0		

n70 Ant0 SA DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				340000	340500	341000				
Frequency (MHz)				1700	1702.5	1705				
15	PI2 BPSK	1	1	18.18						
15	PI2 BPSK	1	40	19.35			20.5	0.0		
15	PI2 BPSK	1	77	19.29						
15	PI2 BPSK	36	0	19.13			20.5	0.0		
15	PI2 BPSK	36	22	19.31			20.5	0.0		
15	PI2 BPSK	36	43	19.38			20.5	0.0		
15	PI2 BPSK	75	0	19.24						
15	QPSK	1	1	19.40						
15	QPSK	1	40	19.32			20.5	0.0		
15	QPSK	1	77	19.26						
15	QPSK	36	0	19.14			20.5	0.0		
15	QPSK	36	22	19.33			20.5	0.0		
15	QPSK	36	43	19.20			20.5	0.0		
15	QPSK	75	0	19.25			20.5	0.0		
15	16QAM	1	1	18.98			20.5	0.0		
15	64QAM	1	1	18.91			20.5	0.0		
15	256QAM	1	1	19.23			20.5	0.0		
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1700	1702.5	1705				
10	QPSK	1	1	19.20	19.32	19.34	20.5	0.0		
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1697.5	1702.5	1707.5				
5	QPSK	1	1	19.27	19.28	19.26	20.5	0.0		

n71 Ant0 SA Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				134600	136100	137600				
Frequency (MHz)				673	673.5	673.5				
20	PI2 BPSK	1	1	22.47	22.70	22.58				
20	PI2 BPSK	1	63	22.49	22.64	22.52	24.0	0.0		
20	PI2 BPSK	1	104	22.38	22.42	22.33				
20	PI2 BPSK	50	0	22.04	22.09	21.98	23.5	0.5		
20	PI2 BPSK	40	28	22.61	22.68	22.54	24.0	0.0		
20	PI2 BPSK	50	56	22.03	22.06	21.97	23.5	0.5		
20	PI2 BPSK	100	0	22.06	22.11	21.98				
20	QPSK	1	1	22.72	22.77	22.69				
20	QPSK	1	53	22.49	22.60	22.52	24.0	0.0		
20	QPSK	1	104	22.49	22.53	22.45				
20	QPSK	50	0	21.82	21.87	21.45	23.0	1.0		
20	QPSK	50	28	22.73	22.75	22.70	24.0	0.0		
20	QPSK	50	56	21.49	21.61	21.52	23.0	1.0		
20	QPSK	100	0	21.88	21.76	21.72	23.0	1.0		
20	16QAM	1	1	21.43	21.49	21.35	23.0	1.0		
20	64QAM	1	1	19.79	19.88	19.75	21.5	2.5		
20	256QAM	1	1	18.33	18.46	18.38	19.5	4.5		
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				670.5	680.5	690.5				
15	QPSK	1	1	22.65	22.71	22.62	24.0	0.0		
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				668	680.5	693				
10	QPSK	1	1	22.60	22.73	22.55	24.0	0.0		
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				665.5	680.5	695.5				
5	QPSK	1	1	22.63	22.69	22.62	24.0	0.0		



n7 Ant1 SA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	19.61	19.67	19.58			
50	PI2 BPSK	1	135	20.05	20.14	20.00	21.0	0.0	
50	PI2 BPSK	1	268	19.71	19.76	19.73			
50	PI2 BPSK	135	0	19.92	20.03	19.93	21.0	0.0	
50	PI2 BPSK	135	68	19.92	19.99	19.95	21.0	0.0	
50	PI2 BPSK	135	135	19.96	20.02	19.89	21.0	0.0	
50	PI2 BPSK	270	0	19.97	20.08	19.94			
50	QPSK	1	1	20.12	20.17	20.13			
50	QPSK	1	135	19.67	19.76	19.88	21.0	0.0	
50	QPSK	1	268	19.63	19.71	19.67			
50	QPSK	135	0	19.92	20.06	19.95	21.0	0.0	
50	QPSK	135	68	20.04	20.15	20.10	21.0	0.0	
50	QPSK	135	135	19.87	19.95	19.85	21.0	0.0	
50	QPSK	270	0	19.99	20.05	20.02			
50	16QAM	1	1	19.35	19.46	19.40	21.0	0.0	
50	64QAM	1	1	19.30	19.42	19.34	21.0	0.0	
50	256QAM	1	1	18.73	18.86	18.76	19.5	1.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	21.0	0.0	
40	QPSK	1	1	19.95	20.11	19.99	21.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.97	20.05	19.97	21.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	19.99	20.08	19.91	21.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	20.01	20.13	19.97	21.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.06	20.06	19.96	21.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.96	20.03	20.00	21.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.01	20.10	19.99	21.0	0.0	

n30 Ant1 SA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						462000			
Frequency (MHz)						2310			
10	PI2 BPSK	1	1			21.88			
10	PI2 BPSK	1	26			21.63			23.0
10	PI2 BPSK	1	50			21.71			
10	PI2 BPSK	25	0			21.79			23.0
10	PI2 BPSK	25	14			21.83			23.0
10	PI2 BPSK	25	27			21.66			
10	PI2 BPSK	50	0			21.80			23.0
10	QPSK	1	1			21.91			
10	QPSK	1	26			21.87			23.0
10	QPSK	1	50			21.70			
10	QPSK	25	0			21.82			23.0
10	QPSK	25	14			21.88			23.0
10	QPSK	25	27			21.64			
10	QPSK	50	0			21.80			23.0
10	16QAM	1	1			21.46			23.0
10	64QAM	1	1			21.39			23.0
10	256QAM	1	1			21.50			23.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	21.82	21.85	21.77	23.0	0.0	



n41 PC2&PC3 Ant1 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	19.74	19.83	19.85		
100	PI2 BPSK	1	137	19.83	19.82	19.74	20.5	0.0
100	PI2 BPSK	1	271	19.72	19.88	19.82		
100	PI2 BPSK	135	0	19.71	19.85	19.85	20.5	0.0
100	PI2 BPSK	135	69	19.82	19.82	19.76	20.5	0.0
100	PI2 BPSK	135	138	19.75	19.85	19.76	20.5	0.0
100	PI2 BPSK	270	0	19.65	19.83	19.84	20.5	0.0
100	QPSK	1	1	19.70	19.85	19.84		
100	QPSK	1	137	19.77	19.86	19.76	20.5	0.0
100	QPSK	1	271	19.74	19.84	19.80		
100	QPSK	135	0	19.72	19.83	19.85	20.5	0.0
100	QPSK	135	69	19.79	19.89	19.74	20.5	0.0
100	QPSK	135	138	19.79	19.83	19.81	20.5	0.0
100	QPSK	270	0	19.61	19.86	19.80	20.5	0.0
100	16QAM	1	1	19.70	19.84	19.89	20.5	0.0
100	64QAM	1	1	19.75	19.80	19.79	20.5	0.0
100	256QAM	1	1	19.74	19.80	19.78	20.5	0.0
Channel				5022.00	51898	53698		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.68	19.86	19.70	20.5	0.0
Channel				5072.04	51898	52998		
Frequency (MHz)				2543.65	2592.99	2644.99		
80	QPSK	1	1	19.77	19.85	19.85	20.5	0.0
Channel				5600.02	51898	53100		
Frequency (MHz)				2521.01	2592.99	2655		
70	QPSK	1	1	19.70	19.86	19.84	20.5	0.0
Channel				5620.00	51898	53198		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.77	19.87	19.83	20.5	0.0
Channel				5622.01	51898	53298		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.76	19.84	19.72	20.5	0.0
Channel				5632.02	51898	53400		
Frequency (MHz)				2481.81	2592.99	2670		
40	QPSK	1	1	19.69	19.84	19.85	20.5	0.0
Channel				5622.00	51898	53498		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.70	19.83	19.87	20.5	0.0
Channel				5622.01	51898	53598		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.68	19.85	19.84	20.5	0.0
Channel				5607.00	51898	53698		
Frequency (MHz)				2503.51	2592.99	2682.40		
15	QPSK	1	1	19.73	19.85	19.88	20.5	0.0
Channel				5600.02	51898	53700		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.70	19.86	19.86	20.5	0.0

Part270 n77 Ant1 SA 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								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	17.06	17.07	16.96		
100	PI2 BPSK	1	137	16.90	16.95	16.94	18.0	0.0
100	PI2 BPSK	1	271	16.92	16.97	16.89		
100	PI2 BPSK	135	0	16.81	16.81	16.72	18.0	0.0
100	PI2 BPSK	135	69	16.99	17.06	17.07	18.0	0.0
100	PI2 BPSK	135	138	16.81	16.93	16.90	18.0	0.0
100	PI2 BPSK	270	0	16.82	17.00	16.87	18.0	0.0
100	QPSK	1	1	16.91	16.98	16.94		
100	QPSK	1	137	16.80	17.03	16.95	18.0	0.0
100	QPSK	1	271	16.89	16.95	16.91		
100	QPSK	135	0	16.71	16.78	16.81	18.0	0.0
100	QPSK	135	69	17.04	17.12	17.00	18.0	0.0
100	QPSK	135	138	16.80	16.81	16.89	18.0	0.0
100	QPSK	270	0	16.96	16.90	16.92	18.0	0.0
100	16QAM	1	1	15.89	15.98	15.85	17.0	1.0
100	64QAM	1	1	15.75	15.87	15.81	17.0	1.0
100	256QAM	1	1	15.28	15.25	15.14	16.0	2.0
Channel				6400.00	65000	66000		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.77	16.99	16.84	18.0	0.0
Channel				6403.34	65000	66000		
Frequency (MHz)				3740.01	3840	3930.02		
80	QPSK	1	1	16.80	16.94	16.83	18.0	0.0
Channel				6400.00	65000	66000		
Frequency (MHz)				3735	3840	3935		
70	QPSK	1	1	16.84	16.99	16.81	18.0	0.0
Channel				6406.68	65000	66033.4		
Frequency (MHz)				3730.02	3840	3930.01		
60	QPSK	1	1	16.87	16.97	16.81	18.0	0.0
Channel				6403.34	65000	66000		
Frequency (MHz)				3725.01	3840	3935.02		
50	QPSK	1	1	16.83	16.91	16.91	18.0	0.0
Channel				6400.00	65000	66000		
Frequency (MHz)				3720.01	3840	3930.02		
40	QPSK	1	1	16.79	16.93	16.89	18.0	0.0
Channel				6403.34	65000	66068		
Frequency (MHz)				3710.01	3840	3970.02		
30	QPSK	1	1	16.85	16.96	16.88	18.0	0.0
Channel				6401.68	65000	66033.4		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	16.87	16.91	16.85	18.0	0.0
Channel				6400.00	65000	66000		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.75	17.00	16.80	18.0	0.0

Part270 n77 Ant1 SA 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								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1				18.0	0.0
100	PI2 BPSK	1	137				17.64	0.0
100	PI2 BPSK	1	271				16.94	0.0
100	PI2 BPSK	135	0				17.35	0.0
100	PI2 BPSK	135	69				17.65	0.0
100	PI2 BPSK	135	138				17.54	0.0
100	PI2 BPSK	270	0				17.58	0.0
100	QPSK	1	1				17.10	0.0
100	QPSK	1	137				17.70	0.0
100	QPSK	1	271				17.09	0.0
100	QPSK	135	0				17.37	0.0
100	QPSK	135	69				17.78	0.0
100	QPSK	135	138				17.44	0.0
100	QPSK	270	0				17.57	0.0
100	16QAM	1	1				16.35	1.0
100	64QAM	1	1				16.28	1.0
100	256QAM	1	1				15.20	2.0
Channel				63300	63334	63368		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.71	17.70	17.63	18.0	0.0
Channel				63068	63334	63400		
Frequency (MHz)				3499.02	3500.01	3505.01		
80	QPSK	1	1	17.67	17.63	17.65	18.0	0.0
Channel				63234	63334	63434		
Frequency (MHz)				3495.01	3500.01	3515.01		
70	QPSK	1	1	17.65	17.69	17.69	18.0	0.0
Channel				63200	63334	63468		
Frequency (MHz)				3490	3500.01	3505.02		
60	QPSK	1	1	17.71	17.73	17.64	18.0	0.0
Channel				63168	63334	63500		
Frequency (MHz)				3475.02	3500.01	3505.01		
50	QPSK	1	1	17.70	17.81	17.82	18.0	0.0
Channel				63134	63334	63534		
Frequency (MHz)				3470.01	3500.01	3515.01		
40	QPSK	1	1	17.72	17.70	17.63	18.0	0.0
Channel				63068	63334	63600		
Frequency (MHz)				3460.02	3500.01	3505		
30	QPSK	1	1	17.72	17.72	17.62	18.0	0.0
Channel				63034	63334	63668		
Frequency (MHz)				3455.01	3500.01	3515.01		
15	QPSK	1	1	17.63	17.71	17.65	18.0	0.0
Channel				63000	63334	63700		
Frequency (MHz)				3450.01	3500.01	3515.01		
10	QPSK	1	1	17.65	17.69	17.68	18.0	0.0



Part270 n77 Ant1 SA PC2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 650000	Power Middle Ch. F. Freq. 656000	Power High Ch. F. Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.11	20.14	20.12			
100	PI2 BPSK	1	137	19.26	19.35	19.30	21.0	0.0	
100	PI2 BPSK	1	271	19.28	19.32	19.29			
100	PI2 BPSK	135	0	19.79	19.79	19.79	20.5	0.5	
100	PI2 BPSK	135	69	19.98	20.03	19.98	21.0	0.0	
100	PI2 BPSK	135	138	19.87	19.93	19.93			
100	PI2 BPSK	270	0	19.97	19.98	19.93	20.5	0.5	
100	QPSK	1	1	19.86	19.86	19.59			
100	QPSK	1	197	20.13	20.21	20.16	21.0	0.0	
100	QPSK	1	271	19.27	19.27	19.26			
100	QPSK	135	0	19.86	19.76	19.67	20.0	1.0	
100	QPSK	135	69	19.94	20.03	19.99	21.0	0.0	
100	QPSK	135	138	19.80	19.82	19.76	20.0	1.0	
100	QPSK	270	0	19.94	19.97	19.91			
100	16QAM	1	1	18.78	18.81	18.76	20.0	1.0	
100	16QAM	1	1	17.37	17.38	17.31	18.5	2.5	
100	256QAM	1	1	15.94	15.98	15.80	16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.14	20.09	20.06	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.16	20.06	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.07	20.12	20.11	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.11	20.07	20.09	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.07	20.18	20.07	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.14	20.10	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.13	20.16	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.13	20.17	20.15	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.12	20.09	20.12	21.0	0.0	

Part270 n77 Ant1 SA PC2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 650000	Power Middle Ch. F. Freq. 653334	Power High Ch. F. Freq. 656668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		20.09		21.0	0.0	
100	PI2 BPSK	1	271		19.33				
100	PI2 BPSK	135	0		19.28		20.5	0.5	
100	PI2 BPSK	135	69		19.72		21.0	0.0	
100	PI2 BPSK	135	138		19.97				
100	PI2 BPSK	270	0		19.85		20.5	0.5	
100	QPSK	1	1		19.98				
100	QPSK	1	197		19.58		21.0	0.0	
100	QPSK	1	271		20.12				
100	QPSK	135	0		19.70		20.0	1.0	
100	QPSK	135	69		20.06		21.0	0.0	
100	QPSK	135	138		19.83		20.0	1.0	
100	QPSK	270	0		19.98				
100	16QAM	1	1		18.79		20.0	1.0	
100	16QAM	1	1		17.29		18.5	2.5	
100	256QAM	1	1		16.54		16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.04	20.09	20.02	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.00	20.08	20.07	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.01	20.09	20.02	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.01	20.10	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.04	20.02	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.01	20.10	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.04	20.02	20.03	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.06	20.05	20.04	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.02	20.09	20.07	21.0	0.0	



Part270 n78 Ant1 SA Default							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 650000	Power Middle Ch. F.Freq. 650000	Power High Ch. F.Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.18	18.06	18.06	19.0
100	PI2 BPSK	1	137	18.06	18.06	18.06	19.0
100	PI2 BPSK	1	271	18.06	18.06	18.06	19.0
100	PI2 BPSK	135	0	17.98	18.22	18.22	19.0
100	PI2 BPSK	135	69	18.22	18.06	18.06	19.0
100	PI2 BPSK	135	138	18.01	18.01	18.01	19.0
100	PI2 BPSK	270	0	18.02	18.02	18.02	19.0
100	QPSK	1	1	18.10	18.10	18.10	19.0
100	QPSK	1	137	18.16	18.16	18.16	19.0
100	QPSK	1	271	17.95	18.25	18.25	19.0
100	QPSK	135	0	17.97	18.23	18.23	19.0
100	QPSK	135	69	18.23	18.07	18.07	19.0
100	QPSK	135	138	17.96	18.07	18.07	19.0
100	QPSK	270	0	18.07	18.07	18.07	19.0
100	16QAM	1	1	17.46	18.01	18.01	19.0
100	16QAM	1	1	18.39	18.01	18.01	19.0
100	256QAM	1	1	18.38	17.0	17.0	2.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.08	18.10	18.06	19.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.12	18.21	18.08	19.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.07	18.18	18.14	19.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.12	18.16	18.09	19.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.07	18.12	18.07	19.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.09	18.13	18.09	19.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.07	18.10	18.09	19.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.08	18.19	18.09	19.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.06	18.21	18.09	19.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.10	18.14	18.12	19.0

Part27Q n78 Ant1 SA Default							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 653334	Power Middle Ch. F.Freq. 653334	Power High Ch. F.Freq. 653334	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.52	18.32	18.32	19.0
100	PI2 BPSK	1	137	18.32	18.20	18.20	19.0
100	PI2 BPSK	1	271	18.20	18.21	18.21	19.0
100	PI2 BPSK	135	0	18.21	18.22	18.22	19.0
100	PI2 BPSK	135	69	18.22	18.43	18.43	19.0
100	PI2 BPSK	135	138	18.43	18.32	18.32	19.0
100	PI2 BPSK	270	0	18.37	18.37	18.37	19.0
100	QPSK	1	1	18.37	18.37	18.37	19.0
100	QPSK	1	137	18.37	18.28	18.28	19.0
100	QPSK	1	271	18.28	18.18	18.18	19.0
100	QPSK	135	0	18.18	18.51	18.51	19.0
100	QPSK	135	69	18.51	18.38	18.38	19.0
100	QPSK	135	138	18.38	18.43	18.43	19.0
100	QPSK	270	0	18.43	18.27	18.27	19.0
100	16QAM	1	1	18.27	18.01	18.01	19.0
100	16QAM	1	1	17.90	18.01	18.01	19.0
100	256QAM	1	1	17.28	17.0	17.0	2.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.43	18.49	18.33	19.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.41	18.46	18.38	19.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.41	18.43	18.31	19.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.43	18.54	18.39	19.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.40	18.50	18.31	19.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.42	18.51	18.39	19.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.40	18.52	18.42	19.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.39	18.47	18.37	19.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.41	18.53	18.34	19.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.45	18.45	18.37	19.0



n41 PC2&PC3 Ant3 SA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
				509002	518598	528000			
				2540.01	2592.99	2640			
				18.65	18.81	18.84			
100	PI2 BPSK	1	1	17.59	17.65	17.50	18.0	0.0	
100	PI2 BPSK	1	137	17.03	17.06	16.90			
100	PI2 BPSK	135	0	17.15	17.17	17.12	18.0	0.0	
100	PI2 BPSK	135	69	17.58	17.61	17.60			
100	PI2 BPSK	135	138	17.52	17.62	17.41	18.0	0.0	
100	PI2 BPSK	270	0	17.55	17.61	17.58			
100	QPSK	1	1	16.71	16.97	16.89			
100	QPSK	1	137	17.66	17.65	17.62	18.0	0.0	
100	QPSK	1	271	16.99	17.06	16.95			
100	QPSK	135	0	17.13	17.28	17.17	18.0	0.0	
100	QPSK	135	69	17.59	17.70	17.62	18.0	0.0	
100	QPSK	135	138	17.51	17.57	17.55	18.0	0.0	
100	QPSK	270	0	17.56	17.60	17.53			
100	16QAM	1	1	16.45	16.54	16.41	18.0	0.0	
100	64QAM	1	1	16.43	16.43	16.40	18.0	0.0	
100	25QAM	1	1	16.84	17.01	17.03	18.0	0.0	
				509000	518598	528000	Tune-up limit (dBm)	MPR (dB)	
				2541	2592.99	2644.98			
90	QPSK	1	1	17.60	17.74	17.71	18.0	0.0	
				507204	518598	528998	Tune-up limit (dBm)	MPR (dB)	
				2638.02	2692.99	2649.99			
80	QPSK	1	1	17.62	17.72	17.78	18.0	0.0	
				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
				2531.01	2592.99	2695			
70	QPSK	1	1	17.62	17.70	17.70	18.0	0.0	
				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
				2526	2592.99	2659.98			
60	QPSK	1	1	17.62	17.60	17.71	18.0	0.0	
				504204	518598	532996	Tune-up limit (dBm)	MPR (dB)	
				2521.02	2592.99	2654.99			
50	QPSK	1	1	17.65	17.70	17.78	18.0	0.0	
				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
				2516.01	2592.99	2670			
40	QPSK	1	1	17.55	17.76	17.74	18.0	0.0	
				502000	518598	534996	Tune-up limit (dBm)	MPR (dB)	
				2511	2592.99	2674.98			
30	QPSK	1	1	17.54	17.75	17.75	18.0	0.0	
				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.54	17.77	17.71	18.0	0.0	
				500100	518598	536996	Tune-up limit (dBm)	MPR (dB)	
				2503.03	2592.99	2692.48			
15	QPSK	1	1	17.60	17.73	17.76	18.0	0.0	
				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
				2501.01	2592.99	2685			
10	QPSK	1	1	17.63	17.70	17.65	18.0	0.0	



Part270 n77 PC2&PC3 Ant3 SA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. @650000	Power Middle Ch. / Freq. @660000	Power High Ch. / Freq. @660000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	13.61	13.77	13.72			
100	Pi2 BPSK	1	137	12.82	12.89	12.75	14.5	0.0	
100	Pi2 BPSK	1	271	13.04	13.08	13.05			
100	Pi2 BPSK	135	0	13.38	13.46	13.39	14.5	0.0	
100	Pi2 BPSK	135	69	13.55	13.61	13.42			
100	Pi2 BPSK	135	138	13.51	13.53	13.43			
100	Pi2 BPSK	270	0	13.55	13.60	13.58	14.5	0.0	
100	QPSK	1	1	12.77	12.85	12.64			
100	QPSK	1	137	13.63	13.68	13.75	14.5	0.0	
100	QPSK	1	271	13.08	13.18	13.02			
100	QPSK	135	0	13.38	13.50	13.52	14.5	0.0	
100	QPSK	135	69	13.55	13.65	13.55			
100	QPSK	135	138	13.41	13.55	13.47			
100	QPSK	270	0	13.52	13.55	13.43			
100	16QAM	1	1	12.70	12.78	12.62	14.5	0.0	
100	64QAM	1	1	12.61	12.59	12.51			
100	256QAM	1	1	13.14	13.20	13.12	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.50	13.71	13.68	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.55	13.78	13.65	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.50	13.77	13.67	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.53	13.74	13.61	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.59	13.79	13.70	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.58	13.72	13.69	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.40	13.75	13.69	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.59	13.80	13.65	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.51	13.78	13.64	14.5	0.0	

Part27Q n77 PC2&PC3 Ant3 SA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. @633000	Power Middle Ch. / Freq. @633334	Power High Ch. / Freq. @633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1			3500.01			
100	Pi2 BPSK	1	137			13.25			
100	Pi2 BPSK	1	271			12.53	14.5	0.0	
100	Pi2 BPSK	1	271			12.52			
100	Pi2 BPSK	135	0			13.14	14.5	0.0	
100	Pi2 BPSK	135	69			13.16			
100	Pi2 BPSK	135	138			12.92	14.5	0.0	
100	Pi2 BPSK	270	0			12.90			
100	QPSK	1	1			12.57			
100	QPSK	1	137			13.22	14.5	0.0	
100	QPSK	1	271			12.25			
100	QPSK	135	0			13.11	14.5	0.0	
100	QPSK	135	69			13.30			
100	QPSK	135	138			12.90	14.5	0.0	
100	QPSK	270	0			12.98			
100	16QAM	1	1			12.89	14.5	0.0	
100	64QAM	1	1			12.51			
100	256QAM	1	1			13.02	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63495	3800.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632068	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63480.02	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630968	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630134	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	6355.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	



Part270 n78 Ant3 SA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 650000	Power Middle Ch. F.Freq. 650000	Power High Ch. F.Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		13.75	13.75	14.5	0.0	
100	PI2 BPSK	1	137		13.07	13.07	14.5	0.0	
100	PI2 BPSK	1	271		13.10	13.10	14.5	0.0	
100	PI2 BPSK	135	0		13.42	13.42	14.5	0.0	
100	PI2 BPSK	135	69		13.54	13.54	14.5	0.0	
100	PI2 BPSK	135	138		13.51	13.51	14.5	0.0	
100	PI2 BPSK	270	0		13.58	13.58	14.5	0.0	
100	QPSK	1	1		13.09	13.09	14.5	0.0	
100	QPSK	1	137		13.76	13.76	14.5	0.0	
100	QPSK	1	271		13.17	13.17	14.5	0.0	
100	QPSK	135	0		13.48	13.48	14.5	0.0	
100	QPSK	135	69		13.70	13.70	14.5	0.0	
100	QPSK	135	138		13.57	13.57	14.5	0.0	
100	QPSK	270	0		13.61	13.61	14.5	0.0	
100	16QAM	1	1		12.85	12.85	14.5	0.0	
100	64QAM	1	1		12.77	12.77	14.5	0.0	
100	256QAM	1	1		13.34	13.34	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3750	3755.01			
90	QPSK	1	1	13.59	13.67	13.59	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	645334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3750	3760.02			
80	QPSK	1	1	13.68	13.65	13.65	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
				3735	3750	3765			
70	QPSK	1	1	13.63	13.65	13.63	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648968	650000	651334	Tune-up limit (dBm)	MPR (dB)	
				3730.02	3750	3770.01			
60	QPSK	1	1	13.58	13.68	13.60	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	645334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
				3725.01	3750	3775.02			
50	QPSK	1	1	13.68	13.67	13.67	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
				3720	3750	3780			
40	QPSK	1	1	13.56	13.67	13.58	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
				3715.02	3750	3785.01			
30	QPSK	1	1	13.62	13.61	13.64	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3750	3790.02			
20	QPSK	1	1	13.69	13.64	13.62	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	653000	Tune-up limit (dBm)	MPR (dB)	
				3707.50	3750	3792.51			
15	QPSK	1	1	13.58	13.67	13.62	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
				3705	3750	3795			
10	QPSK	1	1	13.55	13.68	13.63	14.5	0.0	

Part27Q n78 Ant3 SA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq. 653334	Power Middle Ch. F.Freq. 653334	Power High Ch. F.Freq. 653334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		13.08	13.08	14.5	0.0	
100	PI2 BPSK	1	137		13.52	13.52	14.5	0.0	
100	PI2 BPSK	1	271		13.10	13.10	14.5	0.0	
100	PI2 BPSK	135	0		13.48	13.48	14.5	0.0	
100	PI2 BPSK	135	69		13.54	13.54	14.5	0.0	
100	PI2 BPSK	135	138		13.38	13.38	14.5	0.0	
100	PI2 BPSK	270	0		13.47	13.47	14.5	0.0	
100	QPSK	1	1		13.12	13.12	14.5	0.0	
100	QPSK	1	137		13.68	13.68	14.5	0.0	
100	QPSK	1	271		13.04	13.04	14.5	0.0	
100	QPSK	135	0		13.46	13.46	14.5	0.0	
100	QPSK	135	69		13.52	13.52	14.5	0.0	
100	QPSK	135	138		13.43	13.43	14.5	0.0	
100	QPSK	270	0		13.48	13.48	14.5	0.0	
100	16QAM	1	1		12.83	12.83	14.5	0.0	
100	64QAM	1	1		12.78	12.78	14.5	0.0	
100	256QAM	1	1		13.46	13.46	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
				3485	3500.01	3505.02			
90	QPSK	1	1	13.58	13.51	13.53	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
				3480.02	3500.01	3510			
80	QPSK	1	1	13.60	13.54	13.54	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
				3485.01	3500.01	3515.01			
70	QPSK	1	1	13.59	13.52	13.55	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
				3480	3500.01	3520.02			
60	QPSK	1	1	13.52	13.48	13.58	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
				3475.02	3500.01	3525			
50	QPSK	1	1	13.55	13.53	13.51	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3500.01	3530.01			
40	QPSK	1	1	13.56	13.53	13.51	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
				3465	3500.01	3535.02			
30	QPSK	1	1	13.50	13.54	13.57	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3500.01	3540			
20	QPSK	1	1	13.51	13.52	13.55	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
				3457.5	3500.01	3542.5			
15	QPSK	1	1	13.51	13.51	13.53	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
				3452.01	3500.01	3542.01			
10	QPSK	1	1	13.53	13.54	13.57	14.5	0.0	



n2 Ant4 SA Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				1865	1880	1895		
Frequency (MHz)				21.34	21.58	21.50		
30	PI2 BPSK	1	1	21.34	21.58	21.50	23.0	0.0
30	PI2 BPSK	1	80	21.74	21.78	21.87		
30	PI2 BPSK	1	158	21.20	21.33	21.25		
30	PI2 BPSK	80	0	21.88	21.84	21.59	23.0	0.0
30	PI2 BPSK	80	40	21.54	21.67	21.53	23.0	0.0
30	PI2 BPSK	80	80	21.47	21.50	21.40	23.0	0.0
30	PI2 BPSK	160	0	21.49	21.57	21.52		
30	QPSK	1	1	21.28	21.42	21.32		
30	QPSK	1	80	21.78	21.83	21.88	23.0	0.0
30	QPSK	1	158	21.17	21.30	21.20		
30	QPSK	80	0	21.42	21.52	21.46	23.0	0.0
30	QPSK	80	40	21.54	21.60	21.51	23.0	0.0
30	QPSK	80	80	21.37	21.44	21.35	23.0	0.0
30	QPSK	160	0	21.45	21.51	21.43		
30	16QAM	1	1	21.04	21.11	21.07	23.0	1.0
30	64QAM	1	1	20.97	21.09	21.03	22.0	1.0
30	256QAM	1	1	20.38	20.52	20.46	21.0	2.0
Channel				1825.5	1880	1897.5		
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	21.22	21.36	21.28	23.0	0.0
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.33	21.33	21.24		
20	PI2 BPSK	1	53	21.70	21.72	21.58	23.0	0.0
20	PI2 BPSK	50	0	21.54	21.23	21.18	23.0	0.0
20	PI2 BPSK	50	28	21.53	21.58	21.51	23.0	0.0
20	PI2 BPSK	50	28	21.53	21.58	21.45	23.0	0.0
20	PI2 BPSK	50	56	21.37	21.44	21.31	23.0	0.0
20	QPSK	100	0	21.48	21.56	21.43	23.0	1.0
20	QPSK	1	1	21.19	21.40	21.28		
20	QPSK	1	53	21.78	21.74	21.60	23.0	0.0
20	QPSK	1	104	21.10	21.29	21.12		
20	QPSK	50	0	21.37	21.46	21.44	23.0	1.0
20	QPSK	40	28	21.47	21.60	21.49	23.0	0.0
20	QPSK	50	56	21.30	21.34	21.33	23.0	1.0
20	QPSK	100	0	21.35	21.45	21.42	23.0	1.0
20	16QAM	1	1	20.98	21.06	21.06	23.0	0.0
20	64QAM	1	1	20.90	21.00	20.98	22.0	1.0
20	256QAM	1	1	20.30	20.49	20.45	21.0	2.0
Channel				371500	376000	380500		
Frequency (MHz)				1827.5	1880	1922.5		
15	QPSK	1	1	21.54	21.77	21.55	23.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.74	21.88	21.89	23.0	0.0
Channel				373500	378000	383500		
Frequency (MHz)				1825.5	1880	1907.5		
5	QPSK	1	1	21.68	21.71	21.63	23.0	0.0

n5 Ant4 SA Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				836.5				
Frequency (MHz)				22.28				
25	PI2 BPSK	1	1	22.28				
25	PI2 BPSK	1	80	22.49			24.0	0.0
25	PI2 BPSK	1	158	22.42				
25	PI2 BPSK	80	0	22.08			23.5	0.5
25	PI2 BPSK	80	40	22.54			24.0	0.0
25	PI2 BPSK	80	80	22.11			23.5	0.5
25	PI2 BPSK	160	0	22.17				
25	QPSK	1	1	22.52				
25	QPSK	1	80	22.32			24.0	0.0
25	QPSK	1	158	22.39				
25	QPSK	80	0	21.88			23.0	1.0
25	QPSK	80	40	22.65			24.0	0.0
25	QPSK	80	80	21.62			23.0	1.0
25	QPSK	160	0	21.05				
25	16QAM	1	1	21.09			23.0	1.0
25	64QAM	1	1	19.87			21.5	2.5
25	256QAM	1	1	18.31			19.5	4.5
Channel				166800	167800	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.18	22.25	22.15		
20	PI2 BPSK	1	53	22.33	22.42	22.33	24.0	0.0
20	PI2 BPSK	1	104	22.23	22.36	22.25		
20	PI2 BPSK	50	0	21.98	22.02	21.97	23.5	0.5
20	PI2 BPSK	50	28	22.43	22.51	22.39	24.0	0.0
20	PI2 BPSK	50	56	21.97	22.08	21.90	23.5	0.5
20	PI2 BPSK	100	0	22.05	22.11	22.00		
20	QPSK	1	1	22.34	22.46	22.37		
20	QPSK	1	53	22.15	22.28	22.14	24.0	0.0
20	QPSK	1	104	22.20	22.38	22.22		
20	QPSK	50	0	21.45	21.51	21.38	23.0	1.0
20	QPSK	50	28	22.47	22.60	22.47	24.0	0.0
20	QPSK	50	56	21.52	21.56	21.46	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.54		
20	16QAM	1	1	20.98	21.03	21.01	23.0	1.0
20	64QAM	1	1	19.47	19.51	19.48	21.5	2.5
20	256QAM	1	1	18.13	18.25	18.13	19.5	4.5
Channel				166800	167800	168800		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.45	22.53	22.42	24.0	0.0
Channel				166800	167800	168800		
Frequency (MHz)				829	836.5	841		
10	QPSK	1	1	22.47	22.58	22.41	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				836.5	836.5	842.5		
5	QPSK	1	1	22.45	22.60	22.44	24.0	0.0



n12 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.17	22.22	22.09	24.0	0.0
15	PI/2 BPSK	1	40	22.05	22.10	22.03		
15	PI/2 BPSK	1	77	22.05	22.11	22.05		
15	PI/2 BPSK	36	0	21.54	21.63	21.53	23.5	0.5
15	PI/2 BPSK	36	22	22.04	22.11	22.06	24.0	0.0
15	PI/2 BPSK	36	43	21.61	21.65	21.60	23.5	0.5
15	PI/2 BPSK	75	0	21.62	21.67	21.52	23.0	1.0
15	QPSK	1	1	22.26	22.31	22.24	24.0	0.0
15	QPSK	1	40	22.06	22.14	22.07		
15	QPSK	1	77	22.02	22.10	22.06		
15	QPSK	36	0	21.08	21.11	21.03	23.0	1.0
15	QPSK	36	22	22.11	22.26	22.17	24.0	0.0
15	QPSK	36	43	21.14	21.22	21.08	23.0	1.0
15	QPSK	75	0	21.22	21.26	21.23	23.0	1.0
15	16QAM	1	1	21.23	21.31	21.16	23.0	1.0
15	16QAM	1	1	19.59	19.68	19.54	21.5	2.5
15	256QAM	1	1	17.84	17.95	17.80	19.5	4.5
Channel				143300	143500	143700		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.17	22.27	22.22	24.0	0.0
Channel				143300	143500	143700		
Frequency (MHz)				704.5	707.5	711.5		
5	QPSK	1	1	22.14	22.28	22.23	24.0	0.0

n25 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				374000	376000	378000		
Frequency (MHz)				1870	1882.5	1895		
40	PI/2 BPSK	1	1	21.05	21.09	21.03	23.0	0.0
40	PI/2 BPSK	1	108	21.72	21.81	21.70		
40	PI/2 BPSK	1	214	21.04	21.08	21.02		
40	PI/2 BPSK	108	0	21.35	21.43	21.37	23.0	0.0
40	PI/2 BPSK	108	54	21.55	21.61	21.51	23.0	0.0
40	PI/2 BPSK	108	108	21.45	21.49	21.42	23.0	0.0
40	PI/2 BPSK	216	0	21.44	21.52	21.39	23.0	0.0
40	QPSK	1	1	21.07	21.12	21.03	23.0	0.0
40	QPSK	1	108	21.74	21.86	21.83		
40	QPSK	1	214	21.00	21.06	21.02		
40	QPSK	108	0	21.25	21.39	21.28	23.0	0.0
40	QPSK	108	54	21.42	21.54	21.49	23.0	0.0
40	QPSK	108	108	21.37	21.42	21.29	23.0	0.0
40	QPSK	216	0	21.36	21.47	21.35	23.0	0.0
40	16QAM	1	1	20.49	20.62	20.52	22.0	1.0
40	16QAM	1	1	20.38	20.46	20.41	22.0	1.0
40	256QAM	1	1	19.79	19.92	19.83	21.0	2.0
Channel				372000	376000	380000		
Frequency (MHz)				1885	1892.5	1900		
30	QPSK	1	1	21.61	21.85	21.74	23.0	0.0
Channel				372500	376500	380500		
Frequency (MHz)				1882.5	1892.5	1902.5		
25	QPSK	1	1	21.61	21.79	21.79	23.0	0.0
Channel				372000	376500	381000		
Frequency (MHz)				1890	1902.5	1905		
20	QPSK	1	1	21.70	21.74	21.69	23.0	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1887.5	1892.5	1907.5		
15	QPSK	1	1	21.70	21.77	21.74	23.0	0.0
Channel				371500	376500	380500		
Frequency (MHz)				1885	1892.5	1910		
10	QPSK	1	1	21.62	21.85	21.79	23.0	0.0
Channel				370500	376500	380500		
Frequency (MHz)				1882.5	1892.5	1912.5		
5	QPSK	1	1	21.69	21.80	21.79	23.0	0.0

n26 Ant4 SA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	166900	167000		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	22.32	22.39	22.29	24.0	0.0
20	PI/2 BPSK	1	53	22.29	22.32	22.20		
20	PI/2 BPSK	1	104	22.22	22.25	22.15		
20	PI/2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5
20	PI/2 BPSK	50	26	22.18	22.22	22.15	24.0	0.0
20	PI/2 BPSK	50	56	21.72	21.76	21.72	23.5	0.5
20	PI/2 BPSK	100	0	21.78	21.86	21.79	23.0	1.0
20	QPSK	1	1	22.42	22.45	22.39	24.0	0.0
20	QPSK	1	53	22.22	22.33	22.25		
20	QPSK	1	104	22.15	22.23	22.11		
20	QPSK	50	0	21.12	21.22	21.07	23.0	1.0
20	QPSK	50	28	22.23	22.28	22.27	24.0	0.0
20	QPSK	50	56	21.28	21.37	21.27	23.0	1.0
20	QPSK	100	0	21.39	21.46	21.41	23.0	1.0
20	16QAM	1	1	21.44	21.50	21.43	23.0	1.0
20	16QAM	1	1	19.72	19.85	19.77	21.5	2.5
20	256QAM	1	1	18.01	18.10	18.05	19.5	4.5
Channel				166300	166900	166900		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.30	22.36	22.34	#REF!	0.0
Channel				163800	166900	166900		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.39	22.41	22.31	#REF!	0.0
Channel				163300	166900	166900		
Frequency (MHz)				816.5	831.5	842.5		
5	QPSK	1	1	22.38	22.31	22.24	#REF!	0.0



n66 Ant4 SA DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	18.19	18.22	18.14		
40	PI2 BPSK	1	108	19.11	19.18	19.09	20.0	0.0
40	PI2 BPSK	1	214	18.07	18.16	18.03		
40	PI2 BPSK	108	0	18.50	18.59	18.54	20.0	0.0
40	PI2 BPSK	108	54	18.91	18.97	18.90	20.0	0.0
40	PI2 BPSK	108	108	18.42	18.54	18.41	20.0	0.0
40	PI2 BPSK	216	0	18.45	18.56	18.50		
40	QPSK	1	1	18.11	18.28	18.23		
40	QPSK	1	108	18.15	18.24	18.07	20.0	0.0
40	QPSK	1	214	18.03	18.12	18.01		
40	QPSK	108	0	18.40	18.51	18.45	20.0	0.0
40	QPSK	108	54	18.83	18.88	18.79	20.0	0.0
40	QPSK	108	108	18.47	18.53	18.40	20.0	0.0
40	QPSK	216	0	18.52	18.57	18.51		
40	16QAM	1	1	18.12	18.16	18.09	20.0	0.0
40	64QAM	1	1	18.07	18.11	18.05	20.0	0.0
40	256QAM	1	1	18.53	18.57	18.48	20.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.10	19.16	18.94	20.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	19.05	19.11	18.95	20.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.02	19.13	19.02	20.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.01	19.17	18.99	20.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.01	19.10	18.94	20.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.10	19.20	19.02	20.0	0.0

n71 Ant4 SA Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.49	22.53	22.40		
20	PI2 BPSK	1	53	22.37	22.40	22.30	24.0	0.0
20	PI2 BPSK	1	104	22.23	22.37	22.29		
20	PI2 BPSK	50	0	21.88	21.98	21.93	23.5	0.5
20	PI2 BPSK	50	28	22.20	22.33	22.26	24.0	0.0
20	PI2 BPSK	50	56	21.76	21.86	21.76	23.5	0.5
20	PI2 BPSK	100	0	21.81	21.95	21.82		
20	QPSK	1	1	22.51	22.55	22.47		
20	QPSK	1	53	22.36	22.47	22.42	24.0	0.0
20	QPSK	1	104	22.54	22.59	22.55		
20	QPSK	50	0	21.30	21.34	21.23	23.0	1.0
20	QPSK	50	28	22.35	22.43	22.39	24.0	0.0
20	QPSK	50	56	21.32	21.44	21.32	23.0	1.0
20	QPSK	100	0	21.42	21.48	21.45		
20	16QAM	1	1	21.50	21.82	21.54	23.0	1.0
20	64QAM	1	1	19.98	20.02	19.95	21.5	2.5
20	256QAM	1	1	18.14	18.20	18.08	18.5	4.5
Channel				134100	135100	136100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.41	22.48	22.37	24.0	0.0
Channel				133600	136100	136600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.44	22.43	22.38	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.38	22.45	22.35	24.0	0.0



n41 PC2&PC3 Ant4 SA DSI3								
Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	509202	518598	528000					
Frequency (MHz)	2546.01	2592.99	2640					
100	Pi/2 BPSK	1	1	17.52	17.69	17.54		
100	Pi/2 BPSK	1	137	18.39	18.45	18.39	19.5	0.0
100	Pi/2 BPSK	1	271	17.82	17.88	17.70		
100	Pi/2 BPSK	135	0	18.22	18.24	18.24	19.5	0.0
100	Pi/2 BPSK	135	69	18.42	18.44	18.39	19.5	0.0
100	Pi/2 BPSK	135	138	18.32	18.36	18.27	19.5	0.0
100	Pi/2 BPSK	270	0	18.39	18.38	18.29		
100	QPSK	1	1	17.59	17.63	17.61		
100	QPSK	1	137	18.50	18.52	18.56	19.5	0.0
100	QPSK	1	271	17.79	17.83	17.83		
100	QPSK	135	0	18.22	18.25	18.17	19.5	0.0
100	QPSK	135	69	18.44	18.56	18.32	19.5	0.0
100	QPSK	135	138	18.25	18.26	18.22	19.5	0.0
100	QPSK	270	0	18.31	18.36	18.22		
100	16QAM	1	1	17.65	17.66	17.59	19.5	0.0
100	64QAM	1	1	17.56	17.62	17.58	19.5	0.0
100	256QAM	1	1	17.84	18.02	17.86	19.5	0.0
Channel	508200	518598	528996	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2541	2592.99	2644.98					
90	QPSK	1	1	18.55	18.49	18.48	19.5	0.0
Channel	507204	518598	529998	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2536.02	2592.99	2649.99					
80	QPSK	1	1	18.52	18.55	18.45	19.5	0.0
Channel	506202	518598	531000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2531.01	2592.99	2655					
70	QPSK	1	1	18.53	18.50	18.50	19.5	0.0
Channel	505200	518598	531996	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2526	2592.99	2659.98					
60	QPSK	1	1	18.48	18.56	18.49	19.5	0.0
Channel	504204	518598	532998	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2521.02	2592.99	2664.99					
50	QPSK	1	1	18.52	18.52	18.47	19.5	0.0
Channel	503202	518598	534000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2516.01	2592.99	2670					
40	QPSK	1	1	18.46	18.58	18.52	19.5	0.0
Channel	502200	518598	534996	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2511	2592.99	2674.98					
30	QPSK	1	1	18.52	18.54	18.41	19.5	0.0
Channel	501204	518598	535998	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2506.02	2592.99	2679.99					
20	QPSK	1	1	18.56	18.55	18.47	19.5	0.0
Channel	500100	518598	534996	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2500.5	2592.99	2682.48					
15	QPSK	1	1	18.48	18.59	18.42	19.5	0.0
Channel	500202	518598	537000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2501.01	2592.99	2685					
10	QPSK	1	1	18.49	18.48	18.50	19.5	0.0



n48 Ant5 SA DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				640000	641666	643332		
Frequency (MHz)				3000	3024.99	3049.98		
100	PI2 BPSK	1	1	18.32	18.40	18.34		
100	PI2 BPSK	1	137	18.91	19.09	18.95	19.5	0.0
100	PI2 BPSK	1	271	18.12	18.28	18.14		
100	PI2 BPSK	135	0	18.76	18.85	18.73	19.5	0.0
100	PI2 BPSK	135	69	18.98	19.00	19.05	19.5	0.0
100	PI2 BPSK	135	138	18.80	18.76	18.84	19.5	0.0
100	PI2 BPSK	270	0	18.80	18.85	18.78		
100	QPSK	1	1	18.31	18.40	18.16		
100	QPSK	1	137	18.06	18.17	18.89	19.5	0.0
100	QPSK	1	271	18.20	18.22	18.20		
100	QPSK	135	0	18.83	18.91	18.89	19.5	0.0
100	QPSK	135	69	18.93	18.99	18.96	19.5	0.0
100	QPSK	135	138	18.85	18.80	18.71	19.5	0.0
100	QPSK	270	0	18.79	18.97	18.85		
100	16QAM	1	1	18.32	18.22	18.11	19.5	0.0
100	64QAM	1	1	18.20	18.15	18.09	19.5	0.0
100	25QAM	1	1	18.67	18.83	18.75	19.5	0.0
Channel				639568	641666	643568	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3695.02	3624.99	3694.99		
90	QPSK	1	1	18.86	19.06	18.62	19.5	0.0
Channel				639334	641666	644000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3693.91	3624.99	3693		
80	QPSK	1	1	18.88	19.04	18.80	19.5	0.0
Channel				638668	641666	644666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3690.02	3624.99	3693.99		
60	QPSK	1	1	18.91	19.10	18.83	19.5	0.0
Channel				638334	641666	645000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3676.01	3624.99	3675		
50	QPSK	1	1	18.91	19.13	18.75	19.5	0.0
Channel				638000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	18.95	19.08	18.79	19.5	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3566.01	3624.99	3693		
20	QPSK	1	1	18.93	19.12	18.84	19.5	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	18.84	19.09	18.89	19.5	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3554	3624.99	3694.98		
10	QPSK	1	1	18.89	19.02	18.77	19.5	0.0



Part270 n77 PC2&PC3 Ant5 SA DSI3

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)								
100	PI2 BPSK	1	1	18.53	18.62	18.61		
100	PI2 BPSK	1	137	18.77	18.95	18.87	20.5	0.0
100	PI2 BPSK	1	271	18.85	18.87	18.83		
100	PI2 BPSK	135	0	19.38	19.49	19.41	20.5	0.0
100	PI2 BPSK	135	69	19.58	19.67	19.54	20.5	0.0
100	PI2 BPSK	135	138	19.45	19.48	19.36	20.5	0.0
100	PI2 BPSK	270	0	19.51	19.48	19.44		
100	QPSK	1	1	18.95	19.04	18.96		
100	QPSK	1	137	18.86	18.89	18.83	20.5	0.0
100	QPSK	1	271	18.87	18.81	18.83		
100	QPSK	135	0	19.47	19.54	19.51	20.5	0.0
100	QPSK	135	69	19.48	19.60	19.56	20.5	0.0
100	QPSK	135	138	19.37	19.39	19.30	20.5	0.0
100	QPSK	270	0	19.42	19.46	19.41		
100	16QAM	1	1	18.79	18.83	18.76	20.5	0.0
100	16QAM	1	1	18.67	18.65	18.56	20.5	0.0
100	256QAM	1	1	18.08	18.26	18.19	20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.56	19.57	19.59	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.62	19.58	19.55	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.57	19.62	19.61	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.61	19.55	19.52	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.59	19.61	19.58	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.60	19.62	19.56	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.47	19.44	19.53	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.53	19.60	19.52	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.58	19.65	19.48	20.5	0.0

Part27Q n77 PC2&PC3 Ant5 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.58				
100	PI2 BPSK	1	137	19.58			20.5	0.0
100	PI2 BPSK	1	271	19.52				
100	PI2 BPSK	135	0	19.39			20.5	0.0
100	PI2 BPSK	135	69	19.55			20.5	0.0
100	PI2 BPSK	135	138	19.45			20.5	0.0
100	PI2 BPSK	270	0	19.39				
100	QPSK	1	1	19.67				
100	QPSK	1	137	19.62			20.5	0.0
100	QPSK	1	271	19.59				
100	QPSK	135	0	19.51			20.5	0.0
100	QPSK	135	69	19.61			20.5	0.0
100	QPSK	135	138	19.52			20.5	0.0
100	QPSK	270	0	19.60				
100	16QAM	1	1	18.64			20.5	0.0
100	16QAM	1	1	18.52			20.5	0.0
100	256QAM	1	1	18.17			20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.57	19.55	19.51	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.54	19.54	19.57	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.51	19.58	19.47	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.55	19.48	19.52	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.50	19.52	19.52	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.57	19.58	19.56	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.57	19.52	19.48	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.58	19.51	19.57	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.58	19.53	19.50	20.5	0.0

Part270 n78 PC3 Ant5 SA DSI3

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)								
100	PI2 BPSK	1	1	19.67				
100	PI2 BPSK	1	137	19.62			20.5	0.0
100	PI2 BPSK	1	271	19.09				
100	PI2 BPSK	135	0	19.31			20.5	0.0
100	PI2 BPSK	135	69	19.62			20.5	0.0
100	PI2 BPSK	135	138	19.50			20.5	0.0
100	PI2 BPSK	270	0	19.62				
100	QPSK	1	1	18.91				
100	QPSK	1	137	18.78			20.5	0.0
100	QPSK	1	271	19.28				
100	QPSK	135	0	19.39			20.5	0.0
100	QPSK	135	69	19.60			20.5	0.0
100	QPSK	135	138	19.51			20.5	0.0
100	QPSK	270	0	19.61				
100	16QAM	1	1	18.64			20.5	0.0
100	16QAM	1	1	18.62			20.5	0.0
100	256QAM	1	1	18.17			20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.61	19.61	19.65	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.64	19.69	19.67	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.64	19.61	19.73	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.70	19.67	19.64	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.72	19.67	19.70	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.66	19.60	19.70	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.63	19.69	19.73	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.68	19.63	19.67	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.65	19.70	19.74	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.65	19.61	19.66	20.5	0.0



Part27Q n78 PC3 Ant5 SA DSI3

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3000.01				
100	PI2 BPSK	1	1	19.60				
100	PI2 BPSK	1	137	18.77			20.5	0.0
100	PI2 BPSK	1	271	19.48				
100	PI2 BPSK	135	0	19.39			20.5	0.0
100	PI2 BPSK	135	69	19.84			20.5	0.0
100	PI2 BPSK	135	138	19.59			20.5	0.0
100	PI2 BPSK	270	0	19.55				
100	QPSK	1	1	18.77				
100	QPSK	1	137	19.72			20.5	0.0
100	QPSK	1	271	19.42				
100	QPSK	135	0	19.48			20.5	0.0
100	QPSK	135	69	19.67			20.5	0.0
100	QPSK	135	138	19.28			20.5	0.0
100	QPSK	270	0	19.05				
100	16QAM	1	1	18.87			20.5	0.0
100	64QAM	1	1	18.73			20.5	0.0
100	256QAM	1	1	18.11			20.5	0.0
Channel				633100	633334	633668		
Frequency (MHz)				3485	3000.01	3005.02		
90	QPSK	1	1	19.61	19.60	19.63	20.5	0.0
Channel				632068	633334	634000		
Frequency (MHz)				3480.02	3000.01	3010		
80	QPSK	1	1	19.60	19.60	19.59	20.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3000.01	3016.01		
70	QPSK	1	1	19.25	19.26	19.27	20.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3000.01	3020.02		
60	QPSK	1	1	19.56	19.56	19.57	20.5	0.0
Channel				631068	633334	635000		
Frequency (MHz)				3475.02	3000.01	3025		
50	QPSK	1	1	19.61	19.55	19.63	20.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3480.01	3000.01	3023.01		
40	QPSK	1	1	19.61	19.61	19.60	20.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3485	3000.01	3030.02		
30	QPSK	1	1	19.63	19.61	19.60	20.5	0.0
Channel				630668	633334	635900		
Frequency (MHz)				3480.02	3000.01	3040		
20	QPSK	1	1	19.58	19.58	19.61	20.5	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3475	3000.01	3042.02		
15	QPSK	1	1	19.61	19.54	19.60	20.5	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3480.01	3000.01	3043.01		
10	QPSK	1	1	19.50	19.53	19.50	20.5	0.0



n41 PC2&PC3 Ant6 SA DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	19.07	19.26	19.17		
100	Pl/2 BPSK	1	137	19.67	19.76	19.60	20.0	0.0
100	Pl/2 BPSK	1	271	19.62	19.75	19.59		
100	Pl/2 BPSK	135	0	19.63	19.71	19.58	20.0	0.0
100	Pl/2 BPSK	135	69	19.69	19.78	19.58	20.0	0.0
100	Pl/2 BPSK	135	138	19.64	19.75	19.62		
100	Pl/2 BPSK	270	0	19.38	19.55	19.38	20.0	0.0
100	QPSK	1	1	19.42	19.48	19.48		
100	QPSK	1	137	19.92	19.94	19.91	20.0	0.0
100	QPSK	1	271	19.66	19.76	19.55		
100	QPSK	135	0	19.68	19.75	19.57	20.0	0.0
100	QPSK	135	69	19.61	19.80	19.58	20.0	0.0
100	QPSK	135	138	19.62	19.73	19.57		
100	QPSK	270	0	19.48	19.49	19.38	20.0	0.0
100	16QAM	1	1	19.12	19.24	19.15	20.0	0.0
100	64QAM	1	1	19.29	19.33	19.22	19.5	0.5
100	256QAM	1	1	16.91	16.95	16.89	17.5	2.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.13	19.14	19.04	20.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.08	19.13	19.10	20.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.07	19.17	19.06	20.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.12	19.19	19.09	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.12	19.18	19.08	20.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.09	19.12	19.04	20.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.06	19.17	19.08	20.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2670.99		
20	QPSK	1	1	19.10	19.15	19.03	20.0	0.0
Channel				500700	518598	536996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.08	19.18	19.04	20.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.10	19.12	19.04	20.0	0.0



Part270 n77 PC2&PC3 Ant7 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.37	17.42	18.34		
100	PI2 BPSK	1	137	17.42	18.32	17.38	19.0	0.0
100	PI2 BPSK	1	271	17.57	17.83	17.53		
100	PI2 BPSK	135	0	18.45	18.54	18.47	19.0	0.0
100	PI2 BPSK	135	69	18.61	18.83	18.59	19.0	0.0
100	PI2 BPSK	135	138	18.29	18.33	18.29	19.0	0.0
100	PI2 BPSK	270	0	18.29	18.38	18.29		
100	QPSK	1	1	17.43	17.47	17.46		
100	QPSK	1	137	18.63	18.69	18.64	19.0	0.0
100	QPSK	1	271	17.59	17.68	17.64		
100	QPSK	135	0	18.37	18.46	18.37	19.0	0.0
100	QPSK	135	69	18.56	18.58	18.54	19.0	0.0
100	QPSK	135	138	18.33	18.42	18.39	19.0	0.0
100	QPSK	270	0	18.40	18.47	18.39		
100	16QAM	1	1	17.20	17.28	17.23	19.0	0.0
100	64QAM	1	1	17.14	17.22	17.17	19.0	0.0
100	256QAM	1	1	17.04	17.04	17.88	19.0	0.0
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	18.64	18.60	18.57	19.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	18.57	18.57	18.55	19.0	0.0
Channel				649000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	18.56	18.61	18.62	19.0	0.0
Channel				648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	18.61	18.63	18.63	19.0	0.0
Channel				648334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	18.61	18.56	18.63	19.0	0.0
Channel				648000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	18.59	18.58	18.63	19.0	0.0
Channel				647334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	18.63	18.61	18.62	19.0	0.0
Channel				647000	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	18.65	18.63	18.61	19.0	0.0
Channel				647000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	18.54	18.59	18.61	19.0	0.0



Part27Q n77 PC2&PC3 Ant7 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.68	3500.01			
100	PI2 BPSK	1	137	18.51			19.0	0.0
100	PI2 BPSK	1	271	17.84				
100	PI2 BPSK	135	0	18.20			19.0	0.0
100	PI2 BPSK	135	69	18.29			19.0	0.0
100	PI2 BPSK	135	138	18.08			19.0	0.0
100	PI2 BPSK	270	0	18.10			19.0	0.0
100	QPSK	1	1	17.76				
100	QPSK	1	137	18.67			19.0	0.0
100	QPSK	1	271	17.69				
100	QPSK	135	0	18.13			19.0	0.0
100	QPSK	135	69	18.32			19.0	0.0
100	QPSK	135	138	18.08			19.0	0.0
100	QPSK	270	0	18.12			19.0	0.0
100	16QAM	1	1	17.51			19.0	0.0
100	64QAM	1	1	17.48			19.0	0.0
100	256QAM	1	1	18.00			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3505.02		
90	QPSK	1	1	18.50	18.46	18.50	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
				3495.02	3500.01	3510		
80	QPSK	1	1	18.45	18.43	18.42	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
				3495.01	3500.01	3516.01		
70	QPSK	1	1	18.53	18.49	18.49	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
				3490	3500.01	3520.02		
60	QPSK	1	1	18.51	18.47	18.54	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3479.02	3500.01	3525		
50	QPSK	1	1	18.42	18.46	18.45	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.48	18.53	18.44	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630968	633334	635668	Tune-up limit (dBm)	MPR (dB)
				3460.02	3500.01	3540		
20	QPSK	1	1	18.53	18.44	18.52	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
				3457.5	3500.01	3542.52		
15	QPSK	1	1	18.51	18.50	18.48	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
				3453.01	3500.01	3545.01		
10	QPSK	1	1	18.47	18.49	18.45	19.0	0.0

Part27O n78 PC3 Ant7 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.87	3750	3750		
100	PI2 BPSK	1	137	18.67			19.0	0.0
100	PI2 BPSK	1	271	18.13				
100	PI2 BPSK	135	0	18.54			19.0	0.0
100	PI2 BPSK	135	69	18.79			19.0	0.0
100	PI2 BPSK	135	138	18.70			19.0	0.0
100	PI2 BPSK	270	0	18.74			19.0	0.0
100	QPSK	1	1	17.93				
100	QPSK	1	137	18.81			19.0	0.0
100	QPSK	1	271	18.19				
100	QPSK	135	0	18.49			19.0	0.0
100	QPSK	135	69	18.77			19.0	0.0
100	QPSK	135	138	18.65			19.0	0.0
100	QPSK	270	0	18.73			19.0	0.0
100	16QAM	1	1	17.72			19.0	0.0
100	64QAM	1	1	17.67			19.0	0.0
100	256QAM	1	1	18.24			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
90	QPSK	1	1	18.73	18.66	18.67	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
				3742.01	3750	3762.02		
80	QPSK	1	1	18.75	18.69	18.72	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3739	3750	3765		
70	QPSK	1	1	18.74	18.65	18.65	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
				3736.02	3750	3770.01		
60	QPSK	1	1	18.70	18.69	18.72	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
				3732.01	3750	3775.02		
50	QPSK	1	1	18.72	18.71	18.70	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3729	3750	3780		
40	QPSK	1	1	18.74	18.62	18.72	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3785.01		
30	QPSK	1	1	18.69	18.61	18.63	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3790.02		
20	QPSK	1	1	18.73	18.66	18.71	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3707.02	3750	3792.01		
15	QPSK	1	1	18.69	18.65	18.65	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	646668	650000	653334	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
10	QPSK	1	1	18.70	18.62	18.67	19.0	0.0

Part27Q n78 PC3 Ant7 SA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.54	3500.01			
100	PI2 BPSK	1	137	18.53			19.0	0.0
100	PI2 BPSK	1	271	18.37				
100	PI2 BPSK	135	0	18.29			19.0	0.0
100	PI2 BPSK	135	69	18.58			19.0	0.0
100	PI2 BPSK	135	138	18.44			19.0	0.0
100	PI2 BPSK	270	0	18.49			19.0	0.0
100	QPSK	1	1	17.87				
100	QPSK	1	137	18.97			19.0	0.0
100	QPSK	1	271	18.31				
100	QPSK	135	0	18.40			19.0	0.0
100	QPSK	135	69	18.51			19.0	0.0
100	QPSK	135	138	18.34			19.0	0.0
100	QPSK	270	0	18.38			19.0	0.0
100	16QAM	1	1	17.69			19.0	0.0
100	64QAM	1	1	17.61			19.0	0.0
100	256QAM	1	1	18.16			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3505.02		
90	QPSK	1	1	18.37	18.46	18.48	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
				3492.02	3500.01	3510		
80	QPSK	1	1	18.46	18.52	18.44	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
				3495.01	3500.01	3516.01		
70	QPSK	1	1	18.40	18.52	18.40	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
				3490	3500.01	3520.02		
60	QPSK	1	1	18.40	18.53	18.48	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3525		
50	QPSK	1	1	18.40	18.54	18.46	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.47	18.51	18.40	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)



n2 Ant0 NSA DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37600	37600	37600				
Frequency (MHz)				1865	1880	1895				
30	PI2 BPSK	1	1	14.97	15.06	14.93				
30	PI2 BPSK	1	80	15.14	15.22	15.15	16.0	0.0		
30	PI2 BPSK	1	158	15.12	15.18	15.12				
30	PI2 BPSK	80	0	14.98	15.09	14.97	16.0	0.0		
30	PI2 BPSK	80	40	15.07	15.20	15.16	16.0	0.0		
30	PI2 BPSK	80	80	14.93	15.06	15.00	16.0	0.0		
30	PI2 BPSK	160	0	15.02	15.11	15.05	16.0	0.0		
30	QPSK	1	1	14.93	15.07	14.94				
30	QPSK	1	80	15.12	15.20	15.21	16.0	0.0		
30	QPSK	1	158	15.02	15.14	15.08				
30	QPSK	80	0	15.08	15.13	15.01	16.0	0.0		
30	QPSK	80	40	15.10	15.17	15.04	16.0	0.0		
30	QPSK	80	80	14.88	15.03	15.00	16.0	0.0		
30	QPSK	160	0	15.06	15.14	15.00	16.0	0.0		
30	16QAM	1	1	14.91	14.95	14.89	16.0	0.0		
30	64QAM	1	1	14.78	14.86	14.75	16.0	0.0		
30	256QAM	1	1	15.00	15.08	14.90	16.0	0.0		
Channel				37200	37600	38000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1862.5	1880	1897.5				
25	QPSK	1	1	14.87	15.03	14.86	16.0	0.0		
Channel				37200	37600	38000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1869	1880	1890				
20	PI2 BPSK	1	1	14.92	15.00	14.88	16.0	0.0		
20	PI2 BPSK	1	53	15.11	15.19	15.08	16.0	0.0		
20	PI2 BPSK	1	104	15.07	15.14	15.08	16.0	0.0		
20	PI2 BPSK	50	0	14.92	15.04	14.94	16.0	0.0		
20	PI2 BPSK	50	28	15.03	15.17	15.12	16.0	0.0		
20	PI2 BPSK	50	56	14.87	15.02	14.95	16.0	0.0		
20	PI2 BPSK	100	0	14.99	15.07	15.00	16.0	0.0		
20	QPSK	1	1	14.89	15.01	14.87	16.0	0.0		
20	QPSK	1	53	15.06	15.19	15.17	16.0	0.0		
20	QPSK	1	104	14.97	15.09	15.02	16.0	0.0		
20	QPSK	50	0	15.03	15.10	14.95	23.0	1.0		
20	QPSK	50	28	15.07	15.10	14.98	24.0	1.0		
20	QPSK	50	56	14.84	14.96	14.97	23.0	1.0		
20	QPSK	100	0	15.02	15.11	14.94	16.0	0.0		
20	16QAM	1	1	14.86	14.89	14.84	16.0	0.0		
20	64QAM	1	1	14.72	14.83	14.71	16.0	0.0		
20	256QAM	1	1	14.97	15.03	14.93	16.0	0.0		
Channel				37150	37600	38050	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1877.2	1890	1902.8				
15	QPSK	1	1	15.09	15.11	15.14	16.0	0.0		
Channel				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	1	15.05	15.15	15.16	16.0	0.0		
Channel				37050	37600	38050	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	1	15.00	15.21	15.07	16.0	0.0		

n5 Ant0 NSA Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				16700	16700	16700				
Frequency (MHz)				836.5	836.5	836.5				
25	PI2 BPSK	1	1	22.52	22.52	22.52				
25	PI2 BPSK	1	80	22.73	22.73	22.73	24.0	0.0		
25	PI2 BPSK	1	158	22.69	22.69	22.69				
25	PI2 BPSK	80	0	22.37	22.37	22.37	23.5	0.5		
25	PI2 BPSK	80	40	22.79	22.79	22.79	24.0	0.0		
25	PI2 BPSK	80	80	22.43	22.43	22.43	23.5	0.5		
25	PI2 BPSK	160	0	22.47	22.47	22.47	23.0	1.0		
25	QPSK	1	1	22.76	22.76	22.76				
25	QPSK	1	80	22.70	22.70	22.70	24.0	0.0		
25	QPSK	1	158	22.65	22.65	22.65				
25	QPSK	80	0	21.89	21.89	21.89	23.0	1.0		
25	QPSK	80	40	22.90	22.90	22.90	24.0	0.0		
25	QPSK	80	80	21.91	21.91	21.91	23.0	1.0		
25	QPSK	160	0	21.96	21.96	21.96	23.0	1.0		
25	16QAM	1	1	21.23	21.23	21.23	23.0	1.0		
25	64QAM	1	1	19.75	19.75	19.75	21.5	2.5		
25	256QAM	1	1	18.44	18.44	18.44	19.5	4.5		
Channel				16800	16700	16700	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				834	836.5	839				
20	PI2 BPSK	1	1	22.47	22.49	22.37	24.0	0.0		
20	PI2 BPSK	1	53	22.64	22.68	22.56	24.0	0.0		
20	PI2 BPSK	1	104	22.50	22.60	22.54	23.0	0.5		
20	PI2 BPSK	50	0	22.15	22.36	22.14	24.0	0.0		
20	PI2 BPSK	50	28	22.64	22.73	22.66	24.0	0.0		
20	PI2 BPSK	50	56	22.22	22.36	22.31	23.5	0.5		
20	PI2 BPSK	100	0	22.30	22.43	22.36	23.0	1.0		
20	QPSK	1	1	22.56	22.67	22.57				
20	QPSK	1	53	22.61	22.66	22.55	24.0	0.0		
20	QPSK	1	104	22.52	22.58	22.51	23.0	1.0		
20	QPSK	50	0	21.67	21.86	21.77	23.0	1.0		
20	QPSK	50	28	22.70	22.87	22.81	24.0	0.0		
20	QPSK	50	56	21.81	21.91	21.75	23.0	1.0		
20	QPSK	100	0	21.68	21.95	21.79	23.0	1.0		
20	16QAM	1	1	21.05	21.17	21.12	23.0	1.0		
20	64QAM	1	1	19.64	19.69	19.63	21.5	2.5		
20	256QAM	1	1	18.34	18.36	18.33	19.5	4.5		
Channel				16800	16700	16800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				829	836.5	844				
15	QPSK	1	1	22.58	22.65	22.68	24.0	0.0		
Channel				16800	16700	16800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				829	836.5	844				
10	QPSK	1	1	22.68	22.62	22.51	24.0	0.0		
Channel				16800	16700	16800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	1	22.67	22.67	22.72	24.0	0.0		

n12 Ant0 NSA Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				141300	141600	141700				
Frequency (MHz)				706.5	707.5	708.5				
15	PI2 BPSK	1	1	22.77	22.83	22.74				
15	PI2 BPSK	1	40	22.76	22.79	22.69	24.0	0.0		
15	PI2 BPSK	1	77	22.68	22.70	22.58				
15	PI2 BPSK	36	0	22.26	22.32	22.23	23.5	0.5		
15	PI2 BPSK	36	22	22.74	22.80	22.71	24.0	0.0		
15	PI2 BPSK	36	43	22.19	22.33	22.20	23.5	0.5		
15	PI2 BPSK	75	0	22.28	22.36	22.29				
15	QPSK	1	1	22.85	22.87	22.82				
15	QPSK	1	40	22.67	22.75	22.61	24.0	0.0		
15	QPSK	1	77	22.63	22.68	22.58				
15	QPSK	36	0	21.73	21.79	21.67	23.0	1.0		
15	QPSK	36	22	22.76	22.83	22.79	24.0	0.0		
15	QPSK	36	43	21.79	21.84	21.79	23.0	1.0		
15	QPSK	75	0	21.87	21.93	21.83				
15	16QAM	1	1	21.24	21.36	21.30	23.0	1.0		
15	64QAM	1	1	19.99	20.07	19.99	21.5	2.5		
15	256QAM	1	1	18.50	18.63	18.61	19.5	4.5		
Channel				142000	141500	142000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				704	707.5	711				
10	QPSK	1	1	22.77	22.76	22.77	24.0	0.0		
Channel				140000	141600	142000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	1	22.72	22.76	22.70	24.0	0.0		



n14 Ant0 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.56	793				
10	PI2 BPSK	1	26	22.52			24.0	0.0	
10	PI2 BPSK	1	50	22.44					
10	PI2 BPSK	25	0	22.12			23.5	0.5	
10	PI2 BPSK	25	14	22.56			24.0	0.0	
10	PI2 BPSK	25	27	21.94			23.5	0.5	
10	PI2 BPSK	50	0	22.01					
10	QPSK	1	1	22.58					
10	QPSK	1	26	22.53			24.0	0.0	
10	QPSK	1	50	22.47					
10	QPSK	25	0	21.88			23.0	1.0	
10	QPSK	25	14	22.55			24.0	0.0	
10	QPSK	25	27	21.43			23.0	1.0	
10	QPSK	50	0	21.01					
10	16QAM	1	1	21.29			23.0	1.0	
10	64QAM	1	1	19.84			21.5	2.5	
10	256QAM	1	1	18.54			19.5	4.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.44	793	795.5	22.47	24.0	0.0

n25 Ant0 NSA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.13	14.16	14.08			
40	PI2 BPSK	1	108	14.88	14.97	14.84	16.0	0.0	
40	PI2 BPSK	1	214	14.15	14.22	14.08			
40	PI2 BPSK	108	0	14.62	14.71	14.62	16.0	0.0	
40	PI2 BPSK	108	54	14.74	14.77	14.65	16.0	0.0	
40	PI2 BPSK	108	108	14.60	14.73	14.59	16.0	0.0	
40	PI2 BPSK	216	0	14.57	14.70	14.60			
40	QPSK	1	1	14.23	14.24	14.26			
40	QPSK	1	108	14.96	15.04	15.06	16.0	0.0	
40	QPSK	1	214	14.15	14.27	14.15			
40	QPSK	108	0	14.68	14.80	14.75	16.0	0.0	
40	QPSK	108	54	14.72	14.83	14.69	16.0	0.0	
40	QPSK	108	108	14.67	14.77	14.63	16.0	0.0	
40	QPSK	216	0	14.75	14.82	14.74			
40	16QAM	1	1	14.26	14.31	14.22	16.0	0.0	
40	64QAM	1	1	14.24	14.29	14.15	16.0	0.0	
40	256QAM	1	1	14.23	14.25	14.47	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.84	14.90	14.92	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.90	14.97	14.86	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.87	14.95	14.83	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.82	14.91	14.83	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.83	14.99	14.93	16.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.88	14.93	14.91	16.0	0.0	

n26 Ant0 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.61	22.73	22.66			
20	PI2 BPSK	1	63	22.61	22.69	22.65	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.67	22.54			
20	PI2 BPSK	50	0	22.07	22.14	22.08	23.5	0.5	
20	PI2 BPSK	50	26	22.54	22.66	22.61	24.0	0.0	
20	PI2 BPSK	50	56	22.21	22.29	22.17	23.5	0.5	
20	PI2 BPSK	100	0	22.24	22.35	22.26			
20	QPSK	1	1	22.73	22.76	22.69			
20	QPSK	1	63	22.67	22.69	22.54	24.0	0.0	
20	QPSK	1	104	22.53	22.64	22.52			
20	QPSK	50	0	21.64	21.67	21.61	23.0	1.0	
20	QPSK	50	26	22.66	22.75	22.71	24.0	0.0	
20	QPSK	50	56	21.70	21.79	21.66	23.0	1.0	
20	QPSK	100	0	21.74	21.82	21.82			
20	16QAM	1	1	21.21	21.30	21.16	23.0	1.0	
20	64QAM	1	1	19.88	19.74	19.71	21.5	2.5	
20	256QAM	1	1	18.41	18.46	18.38	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.59	22.67	22.62	#REF!	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.59	22.63	22.58	#REF!	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.67	22.72	22.59	#REF!	0.0	



n66 Ant0 NSA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	15.53	15.57	15.56			
40	PI2 BPSK	1	108	16.33	16.45	16.31	17.5	0.0	
40	PI2 BPSK	1	214	15.54	15.81	15.56			
40	PI2 BPSK	108	0	15.80	15.88	15.82	17.5	0.0	
40	PI2 BPSK	108	54	16.06	16.20	16.15	17.5	0.0	
40	PI2 BPSK	108	108	15.69	15.80	15.71	17.5	0.0	
40	PI2 BPSK	216	0	15.77	15.84	15.72			
40	QPSK	1	1	15.52	15.57	15.55			
40	QPSK	1	108	16.45	16.56	16.54	17.5	0.0	
40	QPSK	1	214	15.52	15.56	15.53			
40	QPSK	108	0	15.86	15.79	15.76	17.5	0.0	
40	QPSK	108	54	16.22	16.32	16.25	17.5	0.0	
40	QPSK	108	108	15.68	15.77	15.65	17.5	0.0	
40	QPSK	216	0	15.74	15.97	15.96			
40	16QAM	1	1	15.53	15.84	15.80	17.5	0.0	
40	64QAM	1	1	15.55	15.59	15.53	17.5	0.0	
40	256QAM	1	1	15.58	15.59	15.59	17.5	0.0	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.33	16.45	16.42	17.5	0.0	
Channel									
Frequency (MHz)				34450	34900	35350			
25	QPSK	1	1	16.40	16.44	16.43	17.5	0.0	
Channel									
Frequency (MHz)				34400	34900	35400			
15	QPSK	1	1	16.31	16.35	16.39	17.5	0.0	
Channel									
Frequency (MHz)				34300	34900	35500			
10	QPSK	1	1	16.34	16.50	16.43	17.5	0.0	
Channel									
Frequency (MHz)				34250	34900	35500			
5	QPSK	1	1	16.40	16.52	16.40	17.5	0.0	

n70 Ant0 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1	22.48					
15	PI2 BPSK	1	40	22.55			24.0	0.0	
15	PI2 BPSK	1	77	22.40					
15	PI2 BPSK	38	0	22.44			24.0	0.0	
15	PI2 BPSK	38	22	22.51			24.0	0.0	
15	PI2 BPSK	38	43	22.64			24.0	0.0	
15	PI2 BPSK	75	0	22.50					
15	QPSK	1	1	22.73					
15	QPSK	1	40	22.51			24.0	0.0	
15	QPSK	1	77	22.44					
15	QPSK	38	0	22.38			24.0	0.0	
15	QPSK	38	22	22.70			24.0	0.0	
15	QPSK	38	43	22.58			24.0	0.0	
15	QPSK	75	0	22.65					
15	16QAM	1	1	22.49			24.0	0.0	
15	64QAM	1	1	22.08			24.0	0.0	
15	256QAM	1	1	21.45			23.0	1.0	
Channel									
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	22.59	22.66	22.63	24.0	0.0	
Channel									
Frequency (MHz)				33950	34050	34150			
5	QPSK	1	1	22.61	22.63	22.60	24.0	0.0	

n71 Ant0 NSA Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.57	22.70	22.54			
20	PI2 BPSK	1	63	22.49	22.64	22.52	24.0	0.0	
20	PI2 BPSK	1	104	22.38	22.42	22.33			
20	PI2 BPSK	50	0	22.04	22.09	21.98	23.5	0.5	
20	PI2 BPSK	50	28	22.61	22.68	22.54	24.0	0.0	
20	PI2 BPSK	50	66	22.03	22.06	21.97	23.5	0.5	
20	PI2 BPSK	100	0	22.06	22.11	21.98			
20	QPSK	1	1	22.72	22.77	22.69			
20	QPSK	1	63	22.49	22.60	22.52	24.0	0.0	
20	QPSK	1	104	22.49	22.43	22.45			
20	QPSK	50	0	21.52	21.57	21.45	23.0	1.0	
20	QPSK	50	28	22.73	22.75	22.70	24.0	0.0	
20	QPSK	50	66	21.49	21.61	21.52	23.0	1.0	
20	QPSK	100	0	21.68	21.76	21.72			
20	16QAM	1	1	21.43	21.49	21.35	23.0	1.0	
20	64QAM	1	1	19.79	19.88	19.75	21.5	2.5	
20	256QAM	1	1	18.33	18.46	18.38	19.5	4.5	
Channel									
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.65	22.71	22.62	24.0	0.0	
Channel									
Frequency (MHz)				13650	136100	136000			
10	QPSK	1	1	22.60	22.73	22.55	24.0	0.0	
Channel									
Frequency (MHz)				136100	136100	136100			
5	QPSK	1	1	22.63	22.69	22.62	24.0	0.0	



n7 Ant1 NSA DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PV2 BPSK	1	1	16.33	16.37	16.30			
50	PV2 BPSK	1	135	16.76	16.88	16.84	18.0	0.0	
50	PV2 BPSK	1	268	16.32	16.40	16.29			
50	PV2 BPSK	135	0	16.65	16.75	16.66	18.0	0.0	
50	PV2 BPSK	135	68	16.67	16.73	16.69	18.0	0.0	
50	PV2 BPSK	135	135	16.62	16.67	16.53	18.0	0.0	
50	PV2 BPSK	270	0	16.65	16.72	16.58			
50	QPSK	1	1	16.85	16.92	16.90			
50	QPSK	1	135	16.34	16.47	16.41	18.0	0.0	
50	QPSK	1	268	16.31	16.36	16.30			
50	QPSK	135	0	16.60	16.71	16.67	18.0	0.0	
50	QPSK	135	68	16.67	16.77	16.72	18.0	0.0	
50	QPSK	135	135	16.59	16.64	16.55			
50	QPSK	270	0	16.63	16.69	16.54	18.0	0.0	
50	16QAM	1	1	16.10	16.22	16.15	18.0	0.0	
50	64QAM	1	1	16.02	16.11	16.02	18.0	0.0	
50	256QAM	1	1	16.69	16.76	16.63	18.0	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	18.0	0.0	
40	QPSK	1	1	16.75	16.88	16.81	18.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	18.0	0.0	
30	QPSK	1	1	16.77	16.77	16.81	18.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	18.0	0.0	
25	QPSK	1	1	16.72	16.82	16.76	18.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	18.0	0.0	
20	PV2 BPSK	1	1	16.81	16.78	16.85	18.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	18.0	0.0	
15	QPSK	1	1	16.74	16.89	16.78	18.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	18.0	0.0	
10	QPSK	1	1	16.70	16.84	16.75	18.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	18.0	0.0	
5	QPSK	1	1	16.74	16.87	16.83	18.0	0.0	

n30 Ant1 NSA DSI3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel						462000				
Frequency (MHz)						2310				
10	PV2 BPSK	1	1			19.45				
10	PV2 BPSK	1	26			19.34		20.5	0.0	
10	PV2 BPSK	1	50			19.35				
10	PV2 BPSK	25	0			19.29		20.5	0.0	
10	PV2 BPSK	25	14			19.50		20.5	0.0	
10	PV2 BPSK	25	27			19.27		20.5	0.0	
10	PV2 BPSK	50	0			19.40				
10	QPSK	1	1			19.52				
10	QPSK	1	26			19.50		20.5	0.0	
10	QPSK	1	50			19.37				
10	QPSK	25	0			19.45		20.5	0.0	
10	QPSK	25	14			19.47		20.5	0.0	
10	QPSK	25	27			19.32		20.5	0.0	
10	QPSK	50	0			19.41				
10	16QAM	1	1			19.13		20.5	0.0	
10	64QAM	1	1			19.07		20.5	0.0	
10	256QAM	1	1			19.24		20.5	0.0	
Channel					461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)					2307.5	2310	2312.5	18.0	0.0	
5	QPSK	1	1			19.40	19.47	19.39	20.5	0.0



n41 PC2&PC3 Ant1 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	16.71	16.87	16.65		
100	PI2 BPSK	1	137	16.69	16.85	16.65	17.5	0.0
100	PI2 BPSK	1	271	16.74	16.87	16.79		
100	PI2 BPSK	135	0	16.75	16.74	16.64	17.5	0.0
100	PI2 BPSK	135	69	16.84	17.12	17.07	17.5	0.0
100	PI2 BPSK	135	138	16.80	16.91	16.75	17.5	0.0
100	PI2 BPSK	270	0	16.76	16.87	16.92		
100	QPSK	1	1	16.78	16.86	16.80		
100	QPSK	1	137	17.08	17.16	17.10	17.5	0.0
100	QPSK	1	271	16.77	16.89	16.80		
100	QPSK	135	0	16.78	16.78	16.64	17.5	0.0
100	QPSK	135	69	17.01	17.10	17.00	17.5	0.0
100	QPSK	135	138	16.71	16.87	16.83	17.5	0.0
100	QPSK	270	0	16.72	16.97	16.79		
100	16QAM	1	1	16.76	16.88	16.78	17.5	0.0
100	64QAM	1	1	16.73	16.86	16.80	17.5	0.0
100	256QAM	1	1	16.74	16.86	16.76	17.5	0.0
Channel				505203	518599	526000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	16.75	16.91	16.77	17.5	0.0
Channel				507204	518598	525998		
Frequency (MHz)				2638.02	2692.99	2648.98		
80	QPSK	1	1	16.73	16.86	16.80	17.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	16.76	16.88	16.77	17.5	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	16.78	16.88	16.76	17.5	0.0
Channel				505203	518599	535998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	16.74	16.90	16.78	17.5	0.0
Channel				505202	518598	536000		
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	16.75	16.86	16.82	17.5	0.0
Channel				502000	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	16.76	16.88	16.81	17.5	0.0
Channel				501000	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.98		
20	QPSK	1	1	16.74	16.85	16.81	17.5	0.0
Channel				500100	518598	536998		
Frequency (MHz)				2503.01	2592.99	2682.98		
15	QPSK	1	1	16.73	16.89	16.82	17.5	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2693		
10	QPSK	1	1	16.77	16.89	16.77	17.5	0.0



Part270 n77 PC2&PC3 Ant3 NSA DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	10.10	10.23	10.29		
100	PI2 BPSK	1	137	9.29	9.32	9.26	11.0	0.0
100	PI2 BPSK	1	271	9.30	9.36	9.35		
100	PI2 BPSK	135	61	9.30	9.06	9.06	11.0	0.0
100	PI2 BPSK	135	69	10.01	10.09	9.94	11.0	0.0
100	PI2 BPSK	135	138	10.01	10.05	9.99		
100	PI2 BPSK	270	0	10.04	10.16	10.14		
100	QPSK	1	1	9.27	9.37	9.14		
100	QPSK	1	137	10.09	10.31	10.22	11.0	0.0
100	QPSK	1	271	9.82	9.75	9.48		
100	QPSK	135	0	9.82	10.00	10.05	11.0	0.0
100	QPSK	135	69	10.05	10.15	10.07	11.0	0.0
100	QPSK	135	138	9.91	10.05	9.97		
100	QPSK	270	0	10.06	10.13	9.92	11.0	0.0
100	16QAM	1	1	9.20	9.28	9.17	11.0	0.0
100	16QAM	1	1	9.16	9.19	9.12	11.0	0.0
100	256QAM	1	1	9.61	9.70	9.68	11.0	0.0
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	10.03	10.17	10.17	11.0	0.0
Channel				649334	650000	662698	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	10.05	10.18	10.19	11.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	10.02	10.26	10.09	11.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3729.02	3840	3950.01		
60	QPSK	1	1	9.95	10.24	10.11	11.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	10.01	10.25	10.09	11.0	0.0
Channel				648000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	10.04	10.21	10.12	11.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	10.05	10.24	10.17	11.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	10.02	10.16	10.13	11.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	9.94	10.23	10.13	11.0	0.0



Part27Q n77 PC2&PC3 Ant3 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Channel			633334				
	Frequency (MHz)			3500.01				
100	PV2 BPSK	1	1		10.51			
100	PV2 BPSK	1	137		9.80		11.0	0.0
100	PV2 BPSK	1	271		9.78			
100	PV2 BPSK	135	0		10.47		11.0	0.0
100	PV2 BPSK	135	69		10.52		11.0	0.0
100	PV2 BPSK	135	138		10.29		11.0	0.0
100	PV2 BPSK	270	0		10.21			
100	QPSK	1	1		9.81			
100	QPSK	1	137		10.59		11.0	0.0
100	QPSK	1	271		9.83			
100	QPSK	135	0		10.48		11.0	0.0
100	QPSK	135	69		10.55		11.0	0.0
100	QPSK	135	138		10.27			
100	QPSK	270	0		10.29		11.0	0.0
100	16QAM	1	1		10.05		11.0	0.0
100	64QAM	1	1		9.84		11.0	0.0
100	256QAM	1	1		10.33		11.0	0.0
	Channel			633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3485	3500.01	3505.02		
90	QPSK	1	1	10.43	10.51	10.53	11.0	0.0
	Channel			632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3490.02	3500.01	3510		
80	QPSK	1	1	10.42	10.52	10.49	11.0	0.0
	Channel			632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3485.01	3500.01	3516.01		
70	QPSK	1	1	10.47	10.46	10.50	11.0	0.0
	Channel			632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3490	3500.01	3520.02		
60	QPSK	1	1	10.45	10.48	10.47	11.0	0.0
	Channel			631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3475.02	3500.01	3525		
50	QPSK	1	1	10.46	10.50	10.46	11.0	0.0
	Channel			631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3470.01	3500.01	3530.01		
40	QPSK	1	1	10.44	10.48	10.47	11.0	0.0
	Channel			630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3460.02	3500.01	3540		
20	QPSK	1	1	10.45	10.49	10.49	11.0	0.0
	Channel			630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3457.5	3500.01	3542.52		
15	QPSK	1	1	10.44	10.46	10.53	11.0	0.0
	Channel			630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3455.01	3500.01	3545.01		
10	QPSK	1	1	10.48	10.46	10.49	11.0	0.0



n2 Ant4 NSA DSI3

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
30	1885	1880	1895		
30	1895	1890	1910	19.5	0.0
30	1910	1905	1935		
30	1935	1930	1960	19.5	0.0
30	1960	1955	1990		
30	1990	1985	2020	19.5	0.0
30	2020	2015	2050		
30	2050	2045	2080	19.5	0.0
30	2080	2075	2110		
30	2110	2105	2140	19.5	0.0
30	2140	2135	2170		
30	2170	2165	2200	19.5	0.0
30	2200	2195	2230		
30	2230	2225	2260	19.5	0.0
30	2260	2255	2290		
30	2290	2285	2320	19.5	0.0
30	2320	2315	2350		
30	2350	2345	2380	19.5	0.0
30	2380	2375	2410		
30	2410	2405	2440	19.5	0.0
30	2440	2435	2470		
30	2470	2465	2500	19.5	0.0
30	2500	2495	2530		
30	2530	2525	2560	19.5	0.0
30	2560	2555	2590		
30	2590	2585	2620	19.5	0.0
30	2620	2615	2650		
30	2650	2645	2680	19.5	0.0
30	2680	2675	2710		
30	2710	2705	2740	19.5	0.0
30	2740	2735	2770		
30	2770	2765	2800	19.5	0.0
30	2800	2795	2830		
30	2830	2825	2860	19.5	0.0
30	2860	2855	2890		
30	2890	2885	2920	19.5	0.0
30	2920	2915	2950		
30	2950	2945	2980	19.5	0.0
30	2980	2975	3010		
30	3010	3005	3040	19.5	0.0
30	3040	3035	3070		
30	3070	3065	3100	19.5	0.0
30	3100	3095	3130		
30	3130	3125	3160	19.5	0.0
30	3160	3155	3190		
30	3190	3185	3220	19.5	0.0
30	3220	3215	3250		
30	3250	3245	3280	19.5	0.0
30	3280	3275	3310		
30	3310	3305	3340	19.5	0.0
30	3340	3335	3370		
30	3370	3365	3400	19.5	0.0
30	3400	3395	3430		
30	3430	3425	3460	19.5	0.0
30	3460	3455	3490		
30	3490	3485	3520	19.5	0.0
30	3520	3515	3550		
30	3550	3545	3580	19.5	0.0
30	3580	3575	3610		
30	3610	3605	3640	19.5	0.0
30	3640	3635	3670		
30	3670	3665	3700	19.5	0.0
30	3700	3695	3730		
30	3730	3725	3760	19.5	0.0
30	3760	3755	3790		
30	3790	3785	3820	19.5	0.0
30	3820	3815	3850		
30	3850	3845	3880	19.5	0.0
30	3880	3875	3910		
30	3910	3905	3940	19.5	0.0
30	3940	3935	3970		
30	3970	3965	4000	19.5	0.0
30	4000	3995	4030		
30	4030	4025	4060	19.5	0.0
30	4060	4055	4090		
30	4090	4085	4120	19.5	0.0
30	4120	4115	4150		
30	4150	4145	4180	19.5	0.0
30	4180	4175	4210		
30	4210	4205	4240	19.5	0.0
30	4240	4235	4270		
30	4270	4265	4300	19.5	0.0
30	4300	4295	4330		
30	4330	4325	4360	19.5	0.0
30	4360	4355	4390		
30	4390	4385	4420	19.5	0.0
30	4420	4415	4450		
30	4450	4445	4480	19.5	0.0
30	4480	4475	4510		
30	4510	4505	4540	19.5	0.0
30	4540	4535	4570		
30	4570	4565	4600	19.5	0.0
30	4600	4595	4630		
30	4630	4625	4660	19.5	0.0
30	4660	4655	4690		
30	4690	4685	4720	19.5	0.0
30	4720	4715	4750		
30	4750	4745	4780	19.5	0.0
30	4780	4775	4810		
30	4810	4805	4840	19.5	0.0
30	4840	4835	4870		
30	4870	4865	4900	19.5	0.0
30	4900	4895	4930		
30	4930	4925	4960	19.5	0.0
30	4960	4955	4990		
30	4990	4985	5020	19.5	0.0
30	5020	5015	5050		
30	5050	5045	5080	19.5	0.0
30	5080	5075	5110		
30	5110	5105	5140	19.5	0.0
30	5140	5135	5170		
30	5170	5165	5200	19.5	0.0
30	5200	5195	5230		
30	5230	5225	5260	19.5	0.0
30	5260	5255	5290		
30	5290	5285	5320	19.5	0.0
30	5320	5315	5350		
30	5350	5345	5380	19.5	0.0
30	5380	5375	5410		
30	5410	5405	5440	19.5	0.0
30	5440	5435	5470		
30	5470	5465	5500	19.5	0.0
30	5500	5495	5530		
30	5530	5525	5560	19.5	0.0
30	5560	5555	5590		
30	5590	5585	5620	19.5	0.0
30	5620	5615	5650		
30	5650	5645	5680	19.5	0.0
30	5680	5675	5710		
30	5710	5705	5740	19.5	0.0
30	5740	5735	5770		
30	5770	5765	5800	19.5	0.0
30	5800	5795	5830		
30	5830	5825	5860	19.5	0.0
30	5860	5855	5890		
30	5890	5885	5920	19.5	0.0
30	5920	5915	5950		
30	5950	5945	5980	19.5	0.0
30	5980	5975	6010		
30	6010	6005	6040	19.5	0.0
30	6040	6035	6070		
30	6070	6065	6100	19.5	0.0
30	6100	6095	6130		
30	6130	6125	6160	19.5	0.0
30	6160	6155	6190		
30	6190	6185	6220	19.5	0.0
30	6220	6215	6250		
30	6250	6245	6280	19.5	0.0
30	6280	6275	6310		
30	6310	6305	6340	19.5	0.0
30	6340	6335	6370		
30	6370	6365	6400	19.5	0.0
30	6400	6395	6430		
30	6430	6425	6460	19.5	0.0
30	6460	6455	6490		
30	6490	6485	6520	19.5	0.0
30	6520	6515	6550		
30	6550	6545	6580	19.5	0.0
30	6580	6575	6610		
30	6610	6605	6640	19.5	0.0
30	6640	6635	6670		
30	6670	6665	6700	19.5	0.0
30	6700	6695	6730		
30	6730	6725	6760	19.5	0.0
30	6760	6755	6790		
30	6790	6785	6820	19.5	0.0
30	6820	6815	6850		
30	6850	6845	6880	19.5	0.0
30	6880	6875	6910		
30	6910	6905	6940	19.5	0.0
30	6940	6935	6970		
30	6970	6965	7000	19.5	0.0
30	7000	6995	7030		
30	7030	7025	7060	19.5	0.0
30	7060	7055	7090		
30	7090	7085	7120	19.5	0.0
30	7120	7115	7150		
30	7150	7145	7180	19.5	0.0
30	7180	7175	7210		
30	7210	7205	7240	19.5	0.0
30	7240	7235	7270		
30	7270	7265	7300	19.5	0.0
30	7300	7295	7330		
30	7330	7325	7360	19.5	0.0
30	7360	7355	7390		
30	7390	7385	7420	19.5	0.0
30	7420	7415	7450		
30	7450	7445	7480	19.5	0.0
30	7480	7475	7510		
30	7510	7505	7540	19.5	0.0
30	7540	7535	7570		
30	7570	7565	7600	19.5	0.0
30	7600	7595	7630		
30	7630	7625	7660	19.5	0.0
30	7660	7655	7690		
30	7690	7685	7720	19.5	0.0
30	7720	7715	7750		
30	7750	7745	7780	19.5	0.0
30	7780	7775	7810		
30	7810	7805	7840	19.5	0.0
30	7840	7835	7870		
30	7870	7865	7900	19.5	0.0
30	7900	7895	7930		
30	7930	7925	7960	19.5	0.0
30	7960	7955	7990		



n25 Ant4 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	17.56	17.65	17.60		
40	PI2 BPSK	1	106	18.26	18.35	18.28	19.5	0.0
40	PI2 BPSK	1	214	17.81	17.82	17.58		
40	PI2 BPSK	108	0	17.94	18.04	17.94	19.5	0.0
40	PI2 BPSK	108	54	18.15	18.20	18.14	19.5	0.0
40	PI2 BPSK	108	106	17.98	18.09	18.05	19.5	0.0
40	PI2 BPSK	216	0	18.10	18.16	18.02		
40	QPSK	1	1	17.53	17.56	17.51		
40	QPSK	1	108	18.01	18.08	18.16	19.5	0.0
40	QPSK	1	214	17.54	17.55	17.52		
40	QPSK	108	0	17.94	18.07	17.98	19.5	0.0
40	QPSK	108	54	18.21	18.33	18.19	19.5	0.0
40	QPSK	108	106	18.01	18.08	18.04	19.5	0.0
40	QPSK	216	0	18.03	18.11	17.98	19.5	0.0
40	16QAM	1	1	17.59	17.63	17.56	19.5	0.0
40	64QAM	1	1	17.55	17.56	17.53	19.5	0.0
40	256QAM	1	1	17.52	17.57	17.59	19.5	0.0
Channel								
Frequency (MHz)				1885	1882.5	1900		
30	QPSK	1	1	18.20	18.26	18.14	19.5	0.0
Channel								
Frequency (MHz)				372500	376500	380500		
25	QPSK	1	1	18.24	18.30	18.05	19.5	0.0
Channel								
Frequency (MHz)				372000	376500	381000		
20	QPSK	1	1	18.23	18.33	18.05	19.5	0.0
Channel								
Frequency (MHz)				371500	376500	381500		
15	QPSK	1	1	18.21	18.35	18.15	19.5	0.0
Channel								
Frequency (MHz)				371000	376500	382000		
10	QPSK	1	1	18.17	18.30	18.09	19.5	0.0
Channel								
Frequency (MHz)				370500	376500	382500		
5	QPSK	1	1	18.24	18.34	18.07	19.5	0.0

n26 Ant4 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				824	831.5	835		
20	PI2 BPSK	1	1	22.32	22.39	22.29		
20	PI2 BPSK	1	53	22.26	22.32	22.20	24.0	0.0
20	PI2 BPSK	1	104	22.22	22.25	22.15		
20	PI2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5
20	PI2 BPSK	50	25	22.18	22.22	22.15	24.0	0.0
20	PI2 BPSK	50	56	21.72	21.76	21.72	23.5	0.5
20	PI2 BPSK	100	0	21.78	21.88	21.79		
20	QPSK	1	1	22.42	22.45	22.39		
20	QPSK	1	53	22.22	22.39	22.25	24.0	0.0
20	QPSK	1	104	22.15	22.23	22.11		
20	QPSK	50	0	21.12	21.22	21.07	23.0	1.0
20	QPSK	50	28	22.23	22.28	22.27	24.0	0.0
20	QPSK	50	56	21.28	21.37	21.27	23.0	1.0
20	QPSK	100	0	21.39	21.46	21.41	23.0	1.0
20	16QAM	1	1	21.44	21.50	21.43	23.0	1.0
20	64QAM	1	1	19.72	19.85	19.77	21.5	2.5
20	256QAM	1	1	18.07	18.10	18.05	19.5	4.5
Channel								
Frequency (MHz)				815.5	831.5	841.5		
15	QPSK	1	1	22.30	22.36	22.34	24.0	0.0
Channel								
Frequency (MHz)				163800	166300	168800		
10	QPSK	1	1	22.39	22.41	22.31	24.0	0.0
Channel								
Frequency (MHz)				163300	166300	169300		
5	QPSK	1	1	22.38	22.31	22.24	24.0	0.0

n30 Ant4 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	16.57				
10	PI2 BPSK	1	26	16.80			18.5	0.0
10	PI2 BPSK	1	50	16.73				
10	PI2 BPSK	25	0	16.82			18.5	0.0
10	PI2 BPSK	25	14	16.62			18.5	0.0
10	PI2 BPSK	25	27	16.74			18.5	0.0
10	PI2 BPSK	50	0	16.85				
10	QPSK	1	1	16.54				
10	QPSK	1	26	16.80			18.5	0.0
10	QPSK	1	50	16.81				
10	QPSK	25	0	16.86			18.5	0.0
10	QPSK	25	14	16.90			18.5	0.0
10	QPSK	25	27	16.81			18.5	0.0
10	QPSK	50	0	16.84				
10	16QAM	1	1	16.81			18.5	0.0
10	64QAM	1	1	16.72			18.5	0.0
10	256QAM	1	1	16.62			18.5	0.0
Channel								
Frequency (MHz)				401500	402500	402500		
5	QPSK	1	1	2307.5	2310	2312.5	18.5	0.0



n66 Ant4 NSA DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq	Midle Ch. Freq	High Ch. Freq	
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	14.59	14.67	14.57	18.5
40	PI2 BPSK	1	108	15.47	15.58	15.47	
40	PI2 BPSK	1	214	14.57	14.63	14.54	
40	PI2 BPSK	108	0	14.79	14.94	14.88	18.5
40	PI2 BPSK	108	54	15.23	15.33	15.24	18.5
40	PI2 BPSK	108	108	14.79	14.91	14.84	18.5
40	PI2 BPSK	216	0	14.93	14.97	14.94	18.5
40	QPSK	1	1	14.84	14.71	14.67	18.5
40	QPSK	1	108	15.62	15.64	15.51	
40	QPSK	1	214	14.52	14.58	14.54	
40	QPSK	108	0	14.90	14.97	14.87	18.5
40	QPSK	108	54	15.42	15.50	15.39	18.5
40	QPSK	108	108	14.89	14.96	14.85	18.5
40	QPSK	216	0	14.96	14.99	14.91	18.5
40	16QAM	1	1	14.66	14.71	14.65	18.5
40	64QAM	1	1	14.51	14.64	14.59	18.5
40	256QAM	1	1	14.36	14.40	14.35	18.5
Channel				350000	349000	350000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	MPR (dB)
30	QPSK	1	1	15.52	15.51	15.44	18.5
Channel				342500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	MPR (dB)
25	QPSK	1	1	15.55	15.52	15.37	18.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	MPR (dB)
20	QPSK	1	1	15.51	15.41	15.44	18.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	MPR (dB)
15	QPSK	1	1	15.48	15.50	15.45	18.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	MPR (dB)
10	QPSK	1	1	15.55	15.56	15.38	18.5
Channel				342500	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	MPR (dB)
5	QPSK	1	1	15.50	15.54	15.41	18.5

n71 Ant4 NSA Default							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq	Midle Ch. Freq	High Ch. Freq	
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.49	22.53	22.40	24.0
20	PI2 BPSK	1	53	22.37	22.40	22.30	
20	PI2 BPSK	1	104	22.23	22.37	22.29	
20	PI2 BPSK	50	0	21.88	21.98	21.93	23.5
20	PI2 BPSK	50	28	22.20	22.33	22.26	24.0
20	PI2 BPSK	50	56	21.76	21.86	21.76	23.5
20	PI2 BPSK	100	0	21.81	21.95	21.82	18.5
20	QPSK	1	1	22.51	22.55	22.47	24.0
20	QPSK	1	53	22.36	22.47	22.42	
20	QPSK	1	104	22.54	22.59	22.55	
20	QPSK	50	0	21.30	21.34	21.23	23.0
20	QPSK	50	28	22.35	22.43	22.39	24.0
20	QPSK	50	56	21.32	21.44	21.32	23.0
20	QPSK	100	0	21.42	21.49	21.45	18.5
20	16QAM	1	1	21.50	21.82	21.54	23.0
20	64QAM	1	1	19.96	20.02	19.95	21.5
20	256QAM	1	1	18.14	18.20	18.06	18.5
Channel				135100	135100	135100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	MPR (dB)
15	QPSK	1	1	22.41	22.48	22.37	24.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	MPR (dB)
10	QPSK	1	1	22.44	22.43	22.38	24.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	MPR (dB)
5	QPSK	1	1	22.38	22.45	22.35	24.0



Part270 n77 PC2&PC3 Ant5 NSA DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.			
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	16.08	16.11	15.99			
100	PI2 BPSK	1	137	15.31	15.55	15.32	17.0	0.0	
100	PI2 BPSK	1	271	15.30	15.45	15.33			
100	PI2 BPSK	135	0	15.90	16.11	15.85	17.0	0.0	
100	PI2 BPSK	135	69	16.05	16.16	16.07	17.0	0.0	
100	PI2 BPSK	135	138	15.92	16.03	15.95	17.0	0.0	
100	PI2 BPSK	270	0	15.88	16.08	15.98			
100	QPSK	1	1	15.46	15.51	15.43			
100	QPSK	1	137	16.12	16.25	16.17	17.0	0.0	
100	QPSK	1	271	15.31	15.42	15.30			
100	QPSK	135	0	15.85	15.94	15.91	17.0	0.0	
100	QPSK	135	69	15.96	16.22	16.00	17.0	0.0	
100	QPSK	135	138	15.81	15.83	15.82	17.0	0.0	
100	QPSK	270	0	15.92	16.06	15.95			
100	16QAM	1	1	15.35	15.28	15.25	17.0	0.0	
100	64QAM	1	1	15.12	15.20	15.04	17.0	0.0	
100	256QAM	1	1	15.73	15.73	15.76	17.0	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.08	16.10	16.07	17.0	0.0	
Channel				64834	65000	65166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3840	3940.02			
80	QPSK	1	1	16.01	16.17	16.08	17.0	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.00	16.13	16.07	17.0	0.0	
Channel				64968	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.07	16.15	16.11	17.0	0.0	
Channel				64935	65000	65065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.05	16.16	16.14	17.0	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.99	16.12	16.13	17.0	0.0	
Channel				64734	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.02	16.08	16.05	17.0	0.0	
Channel				64768	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.97	16.11	16.03	17.0	0.0	
Channel				64700	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.06	16.07	16.11	17.0	0.0	



Part27Q n77 PC2&PC3 Ant5 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.08	3500.01			
100	PI2 BPSK	1	137	15.15			17.0	0.0
100	PI2 BPSK	1	271	15.25				
100	PI2 BPSK	135	0	15.87			17.0	0.0
100	PI2 BPSK	135	69	15.89			17.0	0.0
100	PI2 BPSK	135	138	15.74			17.0	0.0
100	PI2 BPSK	270	0	15.83				
100	QPSK	1	1	15.17				
100	QPSK	1	137	15.31			17.0	0.0
100	QPSK	1	271	15.31				
100	QPSK	135	0	15.94			17.0	0.0
100	QPSK	135	69	15.94			17.0	0.0
100	QPSK	135	138	15.87			17.0	0.0
100	QPSK	270	0	15.93				
100	16QAM	1	1	15.24			17.0	0.0
100	64QAM	1	1	15.18			17.0	0.0
100	256QAM	1	1	15.47			17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3505.02		
90	QPSK	1	1	15.97	16.00	15.91	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
				3495.02	3500.01	3510.01		
80	QPSK	1	1	15.99	15.99	15.97	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
				3495.01	3500.01	3515.01		
70	QPSK	1	1	15.95	15.91	16.00	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
				3490	3500.01	3505.02		
60	QPSK	1	1	16.01	16.03	15.99	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3525.02		
50	QPSK	1	1	16.00	15.97	16.01	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3520.01		
40	QPSK	1	1	15.94	15.95	16.02	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	630968	633334	635668	Tune-up limit (dBm)	MPR (dB)
				3465.02	3500.01	3530.02		
30	QPSK	1	1	15.94	15.98	16.01	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630500	633334	636000	Tune-up limit (dBm)	MPR (dB)
				3457.5	3500.01	3542.52		
20	QPSK	1	1	15.98	16.03	15.99	17.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630134	633334	636334	Tune-up limit (dBm)	MPR (dB)
				3455.01	3500.01	3545.01		
10	QPSK	1	1	16.02	16.01	15.98	17.0	0.0

Part27Q n78 PC3 Ant5 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.14	3750	3750		
100	PI2 BPSK	1	137	15.34			17.0	0.0
100	PI2 BPSK	1	271	15.72				
100	PI2 BPSK	135	0	15.77			17.0	0.0
100	PI2 BPSK	135	69	16.20			17.0	0.0
100	PI2 BPSK	135	138	16.06			17.0	0.0
100	PI2 BPSK	270	0	16.08				
100	QPSK	1	1	15.53				
100	QPSK	1	137	15.90			17.0	0.0
100	QPSK	1	271	15.72				
100	QPSK	135	0	15.80			17.0	0.0
100	QPSK	135	69	16.24			17.0	0.0
100	QPSK	135	138	15.99			17.0	0.0
100	QPSK	270	0	16.16				
100	16QAM	1	1	15.24			17.0	0.0
100	64QAM	1	1	15.15			17.0	0.0
100	256QAM	1	1	15.61			17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
90	QPSK	1	1	16.18	16.18	16.12	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
				3742.01	3750	3752.02		
80	QPSK	1	1	16.18	16.19	16.15	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3739.02	3750	3750.01		
70	QPSK	1	1	16.17	16.23	16.17	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
				3736.02	3750	3750.01		
60	QPSK	1	1	16.12	16.17	16.15	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3752.02		
50	QPSK	1	1	16.18	16.16	16.17	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3722.01	3750	3752.02		
40	QPSK	1	1	16.17	16.20	16.20	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3755.01		
30	QPSK	1	1	16.13	16.23	16.21	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3750.02		
20	QPSK	1	1	16.12	16.16	16.19	17.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3707.02	3750	3752.01		
15	QPSK	1	1	16.16	16.20	16.14	17.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	646668	650000	653334	Tune-up limit (dBm)	MPR (dB)
				3705.01	3750	3752.01		
10	QPSK	1	1	16.16	16.23	16.22	17.0	0.0

Part27Q n78 PC3 Ant5 NSA DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.26	3500.01			
100	PI2 BPSK	1	137	15.46			17.0	0.0
100	PI2 BPSK	1	271	16.10				
100	PI2 BPSK	135	0	16.06			17.0	0.0
100	PI2 BPSK	135	69	16.53			17.0	0.0
100	PI2 BPSK	135	138	16.31			17.0	0.0
100	PI2 BPSK	270	0	16.27				
100	QPSK	1	1	15.56				
100	QPSK	1	137	16.36			17.0	0.0
100	QPSK	1	271	16.10				
100	QPSK	135	0	16.12			17.0	0.0
100	QPSK	135	69	16.23			17.0	0.0
100	QPSK	135	138	16.22			17.0	0.0
100	QPSK	270	0	16.36				
100	16QAM	1	1	15.60			17.0	0.0
100	64QAM	1	1	15.50			17.0	0.0
100	256QAM	1	1	15.87			17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3505.02		
90	QPSK	1	1	16.14	16.28	16.33	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
				3492.02	3500.01	3515.01		
80	QPSK	1	1	16.15	16.23	16.33	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
				3495.01	3500.01	3515.01		
70	QPSK	1	1	16.23	16.25	16.25	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
				3490	3500.01	3520.02		
60	QPSK	1	1	16.17	16.30	16.31	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3525.02		
50	QPSK	1	1	16.23	16.28	16.27	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3520.01		
40	QPSK	1	1	16.18	16.30	16.28	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
				3465	3500.0			



Reduced Power Mode for Sensor Off for 5GNR

n41 Ant3 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				509202	518598	528000			
Channel				2541.01	2592.99	2644.98			
100	PI2 BPSK	1	1	19.77	19.89	19.80			
100	PI2 BPSK	1	137	19.76	19.83	19.59	20.0	0.0	
100	PI2 BPSK	1	271	19.10	19.13	19.09			
100	PI2 BPSK	135	0	19.20	19.29	19.19	20.0	0.0	
100	PI2 BPSK	135	69	19.70	19.72	19.69	20.0	0.0	
100	PI2 BPSK	135	138	19.82	19.89	19.80			
100	PI2 BPSK	270	0	19.85	19.70	19.65	20.0	0.0	
100	QPSK	1	1	18.75	18.96	18.90			
100	QPSK	1	137	18.85	18.85	18.79	20.0	0.0	
100	QPSK	1	271	18.10	18.16	18.04			
100	QPSK	135	0	19.29	18.40	18.27	20.0	0.0	
100	QPSK	135	69	19.87	19.75	19.65	20.0	0.0	
100	QPSK	135	138	19.53	19.69	19.55			
100	QPSK	270	0	19.84	19.66	19.64	20.0	0.0	
100	16QAM	1	1	18.56	18.68	18.51	20.0	0.0	
100	16QAM	1	1	18.46	18.53	18.47	20.0	0.0	
100	256QAM	1	1	19.15	19.22	19.18	20.0	0.0	
Channel				509200	518598	528096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.56	19.76	19.64	20.0	0.0	
Channel				507204	518598	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	19.57	19.77	19.67	20.0	0.0	
Channel				509202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2655			
70	QPSK	1	1	19.60	19.80	19.64	20.0	0.0	
Channel				509200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2659.98			
60	QPSK	1	1	19.57	19.78	19.75	20.0	0.0	
Channel				504204	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2644.99			
50	QPSK	1	1	19.57	19.76	19.66	20.0	0.0	
Channel				509200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2670			
40	QPSK	1	1	19.58	19.79	19.67	20.0	0.0	
Channel				509200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.58	19.72	19.74	20.0	0.0	
Channel				509200	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99			
20	QPSK	1	1	19.55	19.74	19.67	20.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	19.56	19.70	19.75	20.0	0.0	
Channel				509200	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.59	19.79	19.70	20.0	0.0	

n41 Ant3 PC2 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				509202	518598	528000			
Channel				2541.01	2592.99	2640			
100	PI2 BPSK	1	1	21.63	21.69	21.59			
100	PI2 BPSK	1	137	22.76	22.80	22.45	23.0	0.0	
100	PI2 BPSK	1	271	21.87	21.88	21.87			
100	PI2 BPSK	135	0	21.96	22.04	21.94	23.0	0.0	
100	PI2 BPSK	135	69	22.53	22.54	22.54	23.0	0.0	
100	PI2 BPSK	135	138	22.40	22.55	22.37			
100	PI2 BPSK	270	0	22.48	22.50	22.45	23.0	0.0	
100	QPSK	1	1	21.55	21.83	21.72			
100	QPSK	1	137	22.42	22.70	22.84	23.0	0.0	
100	QPSK	1	271	21.84	21.96	21.80			
100	QPSK	135	0	22.06	22.16	22.02	23.0	0.0	
100	QPSK	135	69	22.45	22.55	22.50	23.0	0.0	
100	QPSK	135	138	22.30	22.48	22.36			
100	QPSK	270	0	22.46	22.52	22.47	23.0	0.0	
100	16QAM	1	1	21.36	21.44	21.37	23.0	0.0	
100	64QAM	1	1	20.67	20.74	20.69	22.5	0.5	
100	256QAM	1	1	19.16	19.28	19.21	20.5	2.5	
Channel				509200	518598	528096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
80	QPSK	1	1	22.28	22.66	22.57	23.0	0.0	
Channel				507204	518598	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.98			
80	QPSK	1	1	22.34	22.55	22.55	23.0	0.0	
Channel				509202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2655			
70	QPSK	1	1	22.29	22.59	22.80	23.0	0.0	
Channel				509200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2659.98			
60	QPSK	1	1	22.37	22.81	22.52	23.0	0.0	
Channel				504204	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2644.99			
50	QPSK	1	1	22.27	22.88	22.53	23.0	0.0	
Channel				509200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2670			
40	QPSK	1	1	22.33	22.58	22.51	23.0	0.0	
Channel				509200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.31	22.80	22.55	23.0	0.0	
Channel				509200	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99			
20	QPSK	1	1	22.33	22.57	22.51	23.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.28	22.54	22.59	23.0	0.0	
Channel				509200	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.32	22.56	22.53	23.0	0.0	



Part270 n77 PC2&PC3 ANT3 SA Sensor Off									
BW [MHz]	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)				3745.02	3840	3933			
100	PI2 BPSK	1	1	17.64	17.81	17.73			
100	PI2 BPSK	1	137	16.78	16.88	16.80	18.5	0.0	
100	PI2 BPSK	1	271	17.08	17.06	17.01			
100	PI2 BPSK	135	0	17.37	17.51	17.34	18.5	0.0	
100	PI2 BPSK	135	69	17.60	17.66	17.46	18.5	0.0	
100	PI2 BPSK	135	138	17.26	17.51	17.42	18.5	0.0	
100	PI2 BPSK	270	0	17.62	17.60	17.54			
100	QPSK	1	1	16.75	16.85	16.66			
100	QPSK	1	137	17.68	17.82	17.79	18.5	0.0	
100	QPSK	1	271	17.11	17.16	17.03			
100	QPSK	135	0	17.44	17.47	17.54	18.5	0.0	
100	QPSK	135	69	17.58	17.65	17.52	18.5	0.0	
100	QPSK	135	138	17.38	17.55	17.50			
100	QPSK	270	0	17.53	17.57	17.47	18.5	0.0	
100	16QAM	1	1	16.76	16.74	16.66	18.5	0.0	
100	64QAM	1	1	16.59	16.64	16.53	18.5	0.0	
100	256QAM	1	1	17.19	17.16	17.15	18.5	0.0	
Channel				649688	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.60	17.75	17.66	18.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.01	3840	3940.02			
80	QPSK	1	1	17.63	17.79	17.71	18.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.61	17.67	17.68	18.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3733.02	3840	3950.01			
60	QPSK	1	1	17.63	17.69	17.71	18.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.57	17.74	17.73	18.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.63	17.78	17.68	18.5	0.0	
Channel				647634	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.58	17.77	17.68	18.5	0.0	
Channel				647166	650000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.61	17.67	17.74	18.5	0.0	
Channel				647000	650000	666000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.64	17.73	17.69	18.5	0.0	

Part27Q n77 PC2&PC3 ANT3 SA Sensor Off									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	636000			
Frequency (MHz)				3550.01					
100	PI2 BPSK	1	1	17.15					
100	PI2 BPSK	1	137	16.59			18.5	0.0	
100	PI2 BPSK	1	271	16.54					
100	PI2 BPSK	135	0	17.09			18.5	0.0	
100	PI2 BPSK	135	69	17.12			18.5	0.0	
100	PI2 BPSK	135	138	16.90			18.5	0.0	
100	PI2 BPSK	270	0	16.95					
100	QPSK	1	1	16.57					
100	QPSK	1	137	17.20			18.5	0.0	
100	QPSK	1	271	16.54					
100	QPSK	135	0	17.06			18.5	0.0	
100	QPSK	135	69	17.17			18.5	0.0	
100	QPSK	135	138	16.86			18.5	0.0	
100	QPSK	270	0	16.93					
100	16QAM	1	1	16.66			18.5	0.0	
100	64QAM	1	1	16.54			18.5	0.0	
100	256QAM	1	1	17.08			18.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	17.14	17.08	17.12	18.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.15	17.11	17.12	18.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	17.08	17.12	17.16	18.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	17.15	17.05	17.06	18.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	17.11	17.09	17.08	18.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.13	17.06	17.15	18.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.10	17.13	17.12	18.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	17.05	17.17	17.11	18.5	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	17.08	17.07	17.16	18.5	0.0	



Part27O n78 Ant3 SA								
BW [MHz]	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	14.80	14.80	14.80	18.5	0.0
100	PI2 BPSK	1	137	17.84	17.84	17.84	18.5	0.0
100	PI2 BPSK	1	271	17.34	17.34	17.34	18.5	0.0
100	PI2 BPSK	135	0	17.63	17.63	17.63	18.5	0.0
100	PI2 BPSK	135	69	17.86	17.86	17.86	18.5	0.0
100	PI2 BPSK	135	138	17.88	17.88	17.88	18.5	0.0
100	PI2 BPSK	270	0	17.84	17.84	17.84	18.5	0.0
100	QPSK	1	1	17.02	17.02	17.02	18.5	0.0
100	QPSK	1	137	17.91	17.91	17.91	18.5	0.0
100	QPSK	1	271	17.12	17.12	17.12	18.5	0.0
100	QPSK	135	0	17.86	17.86	17.86	18.5	0.0
100	QPSK	135	69	17.85	17.85	17.85	18.5	0.0
100	QPSK	135	138	17.71	17.71	17.71	18.5	0.0
100	QPSK	270	0	17.79	17.79	17.79	18.5	0.0
100	16QAM	1	1	17.21	17.21	17.21	17.5	1.0
100	64QAM	1	1	16.78	16.78	16.78	17.5	1.0
100	256QAM	1	1	16.10	16.10	16.10	18.5	2.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.01		
90	QPSK	1	1	17.74	17.77	17.79	18.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.77	17.75	17.83	18.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.73	17.79	17.84	18.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.79	17.79	17.83	18.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.73	17.78	17.78	18.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.82	17.77	17.87	18.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.77	17.75	17.83	18.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.75	17.79	17.82	18.5	0.0
Channel				647000	650000	652999	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	17.82	17.74	17.84	18.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.74	17.79	17.86	18.5	0.0

Part27Q n78 Ant3 SA								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334		
Frequency (MHz)				3550.01	3550.01	3550.01		
100	PI2 BPSK	1	1	16.93	16.93	16.93	18.5	0.0
100	PI2 BPSK	1	137	17.90	17.90	17.90	18.5	0.0
100	PI2 BPSK	1	271	17.47	17.47	17.47	18.5	0.0
100	PI2 BPSK	135	0	17.77	17.77	17.77	18.5	0.0
100	PI2 BPSK	135	69	17.89	17.89	17.89	18.5	0.0
100	PI2 BPSK	135	138	17.81	17.81	17.81	18.5	0.0
100	PI2 BPSK	270	0	17.86	17.86	17.86	18.5	0.0
100	QPSK	1	1	16.91	16.91	16.91	18.5	0.0
100	QPSK	1	137	17.70	17.70	17.70	18.5	0.0
100	QPSK	1	271	17.26	17.26	17.26	18.5	0.0
100	QPSK	135	0	17.80	17.80	17.80	18.5	0.0
100	QPSK	135	69	17.97	17.97	17.97	18.5	0.0
100	QPSK	135	138	17.79	17.79	17.79	18.5	0.0
100	QPSK	270	0	17.86	17.86	17.86	18.5	0.0
100	16QAM	1	1	17.32	17.32	17.32	17.5	1.0
100	64QAM	1	1	16.84	16.84	16.84	17.5	1.0
100	256QAM	1	1	16.32	16.32	16.32	18.5	2.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.80	17.89	17.86	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.74	17.84	17.82	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.77	17.83	17.83	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.75	17.82	17.83	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.81	17.85	17.85	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.75	17.82	17.81	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.75	17.87	17.84	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.77	17.85	17.80	18.5	0.0
Channel				630300	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	17.75	17.83	17.86	18.5	0.0
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	17.83	17.84	17.88	18.5	0.0



Part270 n77 PC2&PC3 ANT3 NSA Sensor Off

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				65000	65000	65000		
Frequency (MHz)				3700	3840	3930		
100	PI2 BPSK	1	1	13.82	13.89	13.75	15.5	0.0
100	PI2 BPSK	1	137	14.59	14.79	14.80		
100	PI2 BPSK	1	271	14.00	14.09	14.04		
100	PI2 BPSK	135	0	14.42	14.47	14.49	15.5	0.0
100	PI2 BPSK	135	69	14.49	14.65	14.46	15.5	0.0
100	PI2 BPSK	135	138	14.51	14.54	14.52	15.5	0.0
100	PI2 BPSK	270	0	14.54	14.67	14.69		
100	QPSK	1	1	13.80	13.86	13.61	15.5	0.0
100	QPSK	1	137	14.57	14.56	14.66		
100	QPSK	1	271	14.11	14.25	13.95		
100	QPSK	135	0	14.43	14.52	14.51	15.5	0.0
100	QPSK	135	69	14.60	14.65	14.59	15.5	0.0
100	QPSK	135	138	14.47	14.53	14.52	15.5	0.0
100	QPSK	270	0	14.51	14.61	14.38		
100	16QAM	1	1	13.67	13.73	13.86	15.5	0.0
100	64QAM	1	1	13.68	13.71	13.61	15.5	0.0
100	256QAM	1	1	14.17	14.26	14.19	15.5	0.0
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.45	14.78	14.63	15.5	0.0
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	14.48	14.75	14.67	15.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	14.44	14.81	14.53	15.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.54	14.77	14.60	15.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	14.51	14.76	14.63	15.5	0.0
Channel				649000	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.45	14.74	14.61	15.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	14.44	14.71	14.63	15.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	14.54	14.78	14.67	15.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3985		
10	QPSK	1	1	14.44	14.72	14.69	15.5	0.0



Part27Q n77 PC2&PC3 ANT3 NSA Sensor Off									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63334	3500.01				
Frequency (MHz)				3500.01	14.27				
100	Pi2 BPSK	1	1		15.01		15.5	0.0	
100	Pi2 BPSK	1	137		14.25				
100	Pi2 BPSK	135	0		15.03		15.5	0.0	
100	Pi2 BPSK	135	69		15.07		15.5	0.0	
100	Pi2 BPSK	135	138		14.80		15.5	0.0	
100	Pi2 BPSK	270	0		14.77				
100	QPSK	1	1		14.38				
100	QPSK	1	137		15.06		15.5	0.0	
100	QPSK	1	271		14.33				
100	QPSK	135	0		14.88		15.5	0.0	
100	QPSK	135	69		15.06		15.5	0.0	
100	QPSK	135	138		14.78		15.5	0.0	
100	QPSK	270	0		14.80				
100	MSQAM	1	1		14.81		15.5	0.0	
100	MSQAM	1	1		14.34		15.5	0.0	
100	25QAM	1	1		14.80		15.5	0.0	
Channel				63300	63334	63368			
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	1		15.06	14.96	14.86	15.5	0.0
Channel				63366	63334	63300			
Frequency (MHz)				3480.02	3500.01	3510			
80	QPSK	1	1		15.01	14.96	14.96	15.5	0.0
Channel				63234	63334	63434			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		15.01	14.94	14.96	15.5	0.0
Channel				63000	63334	63668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		15.01	14.90	14.96	15.5	0.0
Channel				63168	63334	63500			
Frequency (MHz)				3475.02	3500.01	3525			
80	QPSK	1	1		15.04	14.96	14.95	15.5	0.0
Channel				63134	63334	63534			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		15.07	14.91	14.90	15.5	0.0
Channel				63068	63334	63000			
Frequency (MHz)				3465.02	3500.01	3545			
20	QPSK	1	1		15.06	14.89	14.99	15.5	0.0
Channel				63500	63334	63668			
Frequency (MHz)				3467.5	3500.01	3542.52			
15	QPSK	1	1		14.99	14.97	14.96	15.5	0.0
Channel				63034	63334	63634			
Frequency (MHz)				3465.01	3500.01	3545.01			
10	QPSK	1	1		15.04	14.94	14.94	15.5	0.0

Part27O n78 ANT3 NSA									
BW (MHz)	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)				3750	3750	3750			
100	Pi2 BPSK	1	1		13.80				
100	Pi2 BPSK	1	137		14.84		15.5	0.0	
100	Pi2 BPSK	1	271		14.34				
100	Pi2 BPSK	135	0		14.85		15.5	0.0	
100	Pi2 BPSK	135	69		14.86		15.5	0.0	
100	Pi2 BPSK	135	138		14.88		15.5	0.0	
100	Pi2 BPSK	270	0		14.84		15.5	0.0	
100	QPSK	1	1		14.02				
100	QPSK	1	137		14.91		15.5	0.0	
100	QPSK	1	271		14.12				
100	QPSK	135	0		14.88		15.5	0.0	
100	QPSK	135	69		14.93		15.5	0.0	
100	QPSK	135	138		14.71		15.5	0.0	
100	QPSK	270	0		14.79				
100	MSQAM	1	1		14.21		15.5	0.0	
100	MSQAM	1	1		14.20		15.5	0.0	
100	25QAM	1	1		14.11		15.5	0.0	
Channel				64968	65000	65034			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		14.81	14.81	14.79	15.5	0.0
Channel				64934	65000	64966			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		14.74	14.80	14.85	15.5	0.0
Channel				64900	65000	65100			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		14.82	14.83	14.79	15.5	0.0
Channel				64868	65000	65134			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		14.78	14.83	14.79	15.5	0.0
Channel				64834	65000	65168			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		14.79	14.80	14.78	15.5	0.0
Channel				64800	65000	65200			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		14.74	14.83	14.81	15.5	0.0
Channel				64768	65000	65234			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		14.75	14.83	14.81	15.5	0.0
Channel				64734	65000	65268			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		14.76	14.77	14.84	15.5	0.0
Channel				64700	65000	65300			
Frequency (MHz)				3705.02	3750	3795.01			
15	QPSK	1	1		14.83	14.74	14.77	15.5	0.0
Channel				64668	65000	65334			
Frequency (MHz)				3700.01	3750	3790.01			
10	QPSK	1	1		14.81	14.79	14.84	15.5	0.0



Part27Q n78 ANT3 NSA

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel	63334	63334	63334					
Frequency (MHz)	3500.01	3500.01	3500.01					
100	PI2 BPSK	1	1	13.93				
100	PI2 BPSK	1	137	14.90	15.5			
100	PI2 BPSK	1	271	14.47	0.0			
100	PI2 BPSK	135	0	14.77	15.5			
100	PI2 BPSK	135	69	14.93	0.0			
100	PI2 BPSK	135	138	14.81	15.5			
100	PI2 BPSK	270	0	14.89	0.0			
100	QPSK	1	1	13.91				
100	QPSK	1	137	14.70	15.5			
100	QPSK	1	271	14.26	0.0			
100	QPSK	135	0	14.90	15.5			
100	QPSK	135	69	14.97	0.0			
100	QPSK	135	138	14.79	15.5			
100	QPSK	270	0	14.88	0.0			
100	16QAM	1	1	14.32	15.5			
100	64QAM	1	1	14.23	0.0			
100	256QAM	1	1	14.20	15.5			
Channel	63000	63334	63668					
Frequency (MHz)	3495	3500.01	3505.02					
90	QPSK	1	1	14.77	14.87	14.83	15.5	0.0
Channel	63002	63334	63668					
Frequency (MHz)	3490.02	3500.01	3510					
80	QPSK	1	1	14.83	14.83	14.82	15.5	0.0
Channel	63234	63334	63434					
Frequency (MHz)	3485.01	3500.01	3515.01					
70	QPSK	1	1	14.82	14.83	14.89	15.5	0.0
Channel	63000	63334	63668					
Frequency (MHz)	3480	3500.01	3500.02					
60	QPSK	1	1	14.77	14.85	14.81	15.5	0.0
Channel	63168	63334	63500					
Frequency (MHz)	3475.02	3500.01	3505					
50	QPSK	1	1	14.80	14.83	14.89	15.5	0.0
Channel	63134	63334	63534					
Frequency (MHz)	3470.01	3500.01	3530.01					
40	QPSK	1	1	14.77	14.86	14.88	15.5	0.0
Channel	63100	63334	63568					
Frequency (MHz)	3465	3500.01	3535.02					
30	QPSK	1	1	14.84	14.86	14.89	15.5	0.0
Channel	63068	63334	63000					
Frequency (MHz)	3460.02	3500.01	3540					
20	QPSK	1	1	14.77	14.82	14.80	15.5	0.0
Channel	63000	63334	63068					
Frequency (MHz)	3455.01	3500.01	3542.02					
15	QPSK	1	1	14.80	14.82	14.81	15.5	0.0
Channel	63034	63334	63634					
Frequency (MHz)	3450.01	3500.01	3545.01					
10	QPSK	1	1	14.81	14.90	14.82	15.5	0.0



Part270 n77 PC2 ANT 7 SA Sensor Off									
BW [MHz]	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	PV2 BPSK	1	1	20.03	20.12	20.01			
100	PV2 BPSK	1	137	20.96	21.02	20.98	22.0	0.0	
100	PV2 BPSK	1	271	20.11	20.21	20.15			
100	PV2 BPSK	135	0	20.15	20.18	20.12	22.0	0.0	
100	PV2 BPSK	135	69	20.90	20.99	20.93	22.0	0.0	
100	PV2 BPSK	135	138	20.06	20.14	20.05	22.0	0.0	
100	PV2 BPSK	270	0	20.08	20.18	20.14			
100	QPSK	1	1	20.89	20.99	20.94			
100	QPSK	1	137	20.97	21.05	20.94	22.0	0.0	
100	QPSK	1	271	20.01	20.09	20.05			
100	QPSK	135	0	20.08	20.16	20.10	22.0	0.0	
100	QPSK	135	69	20.97	21.03	20.96	22.0	0.0	
100	QPSK	135	138	20.13	20.23	20.20			
100	QPSK	270	0	20.97	21.06	20.95	22.0	0.0	
100	16QAM	1	1	20.96	21.02	20.91	22.0	0.0	
100	64QAM	1	1	19.85	19.88	19.79	21.5	0.5	
100	256QAM	1	1	18.35	18.47	18.42	19.5	2.5	
Channel				649688	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.95	21.01	20.89	22.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.00	20.99	20.93	22.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.94	21.05	20.99	22.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.94	21.03	20.95	22.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.95	21.05	20.97	22.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.00	21.04	20.93	22.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.95	21.05	20.91	22.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.95	21.04	20.92	22.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.98	21.00	20.95	22.0	0.0	

Part27Q n77 PC2 ANT 7 SA Sensor Off									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633334			
Frequency (MHz)						3500.01			
100	PV2 BPSK	1	1			20.05			
100	PV2 BPSK	1	137			20.98	22.0	0.0	
100	PV2 BPSK	1	271			20.17			
100	PV2 BPSK	135	0			20.97	22.0	0.0	
100	PV2 BPSK	135	69			21.00	22.0	0.0	
100	PV2 BPSK	135	138			21.04			
100	PV2 BPSK	270	0			21.05	22.0	0.0	
100	QPSK	1	1			21.27			
100	QPSK	1	137			21.29	22.0	0.0	
100	QPSK	1	271			20.41			
100	QPSK	135	0			21.09	22.0	0.0	
100	QPSK	135	69			21.06	22.0	0.0	
100	QPSK	135	138			20.91			
100	QPSK	270	0			20.99	22.0	0.0	
100	16QAM	1	1			21.04	22.0	0.0	
100	64QAM	1	1			19.86	21.5	0.5	
100	256QAM	1	1			18.36	19.5	2.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	20.96	21.02	21.01	22.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	20.95	20.96	20.91	22.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	20.90	20.94	21.01	22.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	20.86	20.95	20.96	22.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	20.93	21.00	21.00	22.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.91	20.96	21.00	22.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	20.95	21.01	20.98	22.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.92	21.01	21.00	22.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.87	21.02	20.97	22.0	0.0	



Reduced Power Mode for Handheld on for 5G NR

n2 Ant0 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				373000	376000	379000			
Frequency (MHz)				1865	1880	1895			
30	PV2 BPSK	1	1	21.98	22.04	21.86	23.5	0.0	
30	PV2 BPSK	1	80	22.38	22.45	22.24			
30	PV2 BPSK	1	158	22.01	22.05	21.97			
30	PV2 BPSK	80	0	22.18	22.20	22.10	23.5	0.0	
30	PV2 BPSK	80	40	22.15	22.31	22.25	23.5	0.0	
30	PV2 BPSK	80	80	22.00	22.09	21.94	23.5	0.0	
30	PV2 BPSK	160	0	22.09	22.11	22.04			
30	QPSK	1	1	22.34	22.40	22.13			
30	QPSK	1	80	22.29	22.49	22.19	23.5	0.0	
30	QPSK	1	158	21.80	21.97	21.84	23.5	0.0	
30	QPSK	80	0	22.15	22.22	22.11			
30	QPSK	80	40	22.14	22.25	22.15			
30	QPSK	80	80	21.90	22.02	21.89	23.5	0.0	
30	QPSK	160	0	22.15	22.24	22.14	23.5	0.0	
30	16QAM	1	1	21.70	21.72	21.68			
30	64QAM	1	1	21.68	21.73	21.64			
30	256QAM	1	1	21.01	21.02	21.05	23.0	0.5	
Channel				372500	376000	379500			
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	22.28	22.34	22.08	23.5	0.0	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PV2 BPSK	1	1	21.92	21.98	21.82	23.5	0.0	
20	PV2 BPSK	1	53	22.34	22.41	22.19			
20	PV2 BPSK	1	104	21.97	22.02	21.92			
20	PV2 BPSK	50	0	22.13	22.16	22.07	23.5	0.0	
20	PV2 BPSK	50	28	22.10	22.25	22.20	23.5	0.0	
20	PV2 BPSK	50	56	21.96	22.03	21.89	23.5	0.0	
20	PV2 BPSK	100	0	22.04	22.04	22.00			
20	QPSK	1	1	22.29	22.33	22.09			
20	QPSK	1	53	22.26	22.45	22.16	23.5	0.0	
20	QPSK	1	104	21.75	21.93	21.80	23.0	1.0	
20	QPSK	50	0	22.10	22.17	22.05			
20	QPSK	50	28	22.09	22.18	22.12			
20	QPSK	50	56	21.83	21.96	21.86	23.0	1.0	
20	QPSK	100	0	22.09	22.19	22.10			
20	16QAM	1	1	21.65	21.68	21.62			
20	64QAM	1	1	21.63	21.66	21.61	23.5	0.0	
20	256QAM	1	1	20.97	20.98	21.00	23.0	0.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	21.69	21.69	21.59	23.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	21.70	21.65	21.62	23.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	21.72	21.72	21.63	23.5	0.0	

n25 Ant0 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PV2 BPSK	1	1	22.16	22.24	22.17	23.5	0.0	
40	PV2 BPSK	1	108	22.26	22.28	22.20			
40	PV2 BPSK	1	214	22.33	21.58	22.13			
40	PV2 BPSK	108	0	21.97	22.02	21.93	23.5	0.0	
40	PV2 BPSK	108	54	22.20	22.25	22.18	23.5	0.0	
40	PV2 BPSK	108	108	22.02	22.13	22.07	23.5	0.0	
40	PV2 BPSK	216	0	21.95	22.06	22.05			
40	QPSK	1	1	22.17	22.26	22.22			
40	QPSK	1	108	22.17	22.37	22.20	23.5	0.0	
40	QPSK	1	214	22.13	21.66	21.58	23.5	0.0	
40	QPSK	108	0	21.89	22.01	21.93			
40	QPSK	108	54	22.07	22.24	22.13			
40	QPSK	108	108	22.04	22.09	21.98	23.5	0.0	
40	QPSK	216	0	22.13	22.23	22.03	23.5	0.0	
40	16QAM	1	1	21.64	21.73	21.65			
40	64QAM	1	1	21.61	21.66	21.65			
40	256QAM	1	1	21.03	21.07	21.01	23.0	0.5	
Channel				373000	376500	380000			
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.01	22.15	22.16	23.5	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.10	22.06	21.96	23.5	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.05	22.18	22.07	23.5	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.03	22.16	22.14	23.5	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.08	22.05	22.03	23.5	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.01	22.03	22.10	23.5	0.0	



n7 Ant1 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	22.02	22.05	21.88			
50	PI/2 BPSK	1	135	22.02	21.93	21.93	23.0	0.0	
50	PI/2 BPSK	1	268	21.79	21.97	21.75			
50	PI/2 BPSK	135	0	21.96	22.06	21.95	23.0	0.0	
50	PI/2 BPSK	135	68	21.98	21.95	21.99	23.0	0.0	
50	PI/2 BPSK	135	135	21.79	21.91	21.69	23.0	0.0	
50	PI/2 BPSK	270	0	21.96	21.99	21.96			
50	QPSK	1	1	22.02	22.07	21.87			
50	QPSK	1	135	21.93	21.94	22.00	23.0	0.0	
50	QPSK	1	268	21.82	21.94	21.77			
50	QPSK	135	0	21.93	21.96	21.87	23.0	0.0	
50	QPSK	135	68	21.92	22.06	21.96	23.0	0.0	
50	QPSK	135	135	22.04	22.00	22.01	23.0	0.0	
50	QPSK	270	0	21.71	21.80	21.74			
50	16QAM	1	1	21.40	21.58	21.48	23.0	0.0	
50	64QAM	1	1	20.18	20.23	20.17	21.5	1.5	
50	256QAM	1	1	18.73	18.86	18.76	10.5	3.5	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	21.97	22.04	21.85	23.0	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.93	22.05	21.80	23.0	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	21.97	22.06	21.77	23.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	21.97	22.00	21.84	23.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.01	22.06	21.82	23.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.96	21.98	21.86	23.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.94	22.00	21.83	23.0	0.0	

n30 Ant1 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					462000				
Frequency (MHz)					2310				
10	PI/2 BPSK	1	1		21.88				
10	PI/2 BPSK	1	26		21.83		23.0	0.0	
10	PI/2 BPSK	1	50		21.71				
10	PI/2 BPSK	25	0		21.79		23.0	0.0	
10	PI/2 BPSK	25	14		21.83		23.0	0.0	
10	PI/2 BPSK	25	27		21.66		23.0	0.0	
10	PI/2 BPSK	50	0		21.80				
10	QPSK	1	1		21.91				
10	QPSK	1	26		21.87		23.0	0.0	
10	QPSK	1	50		21.70				
10	QPSK	25	0		21.82		23.0	0.0	
10	QPSK	25	14		21.82		23.0	0.0	
10	QPSK	25	27		21.64		23.0	0.0	
10	QPSK	50	0		21.80				
10	16QAM	1	1		21.46		23.0	0.0	
10	64QAM	1	1		21.39		23.0	0.0	
10	256QAM	1	1		21.50		23.0	0.0	
Channel					461500	462000	462500		
Frequency (MHz)					2307.5	2310	2312.5		
5	QPSK	1	1		21.76	21.87	21.78	23.0	0.0



n41 PC2&PC3 Ant1 SA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.41	20.48	20.38			
100	PI/2 BPSK	1	137	20.41	20.46	20.47	21.0	0.0	
100	PI/2 BPSK	1	271	20.38	20.47	20.42			
100	PI/2 BPSK	135	0	20.40	20.43	20.38	21.0	0.0	
100	PI/2 BPSK	135	69	20.39	20.51	20.45	21.0	0.0	
100	PI/2 BPSK	135	138	20.43	20.38	20.45	21.0	0.0	
100	PI/2 BPSK	270	0	20.42	20.39	20.42			
100	QPSK	1	1	20.46	20.43	20.42			
100	QPSK	1	137	20.37	20.47	20.43	21.0	0.0	
100	QPSK	1	271	20.37	20.41	20.38			
100	QPSK	135	0	20.48	20.45	20.41	21.0	0.0	
100	QPSK	135	69	20.41	20.53	20.44	21.0	0.0	
100	QPSK	135	138	20.36	20.45	20.41	21.0	0.0	
100	QPSK	270	0	20.38	20.46	20.43			
100	16QAM	1	1	20.42	20.47	20.43	21.0	0.0	
100	64QAM	1	1	20.45	20.52	20.45	21.0	0.0	
100	256QAM	1	1	20.38	20.41	20.43	21.0	0.0	
Channel				506200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.42	20.41	20.38	21.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.49	20.46	20.44	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.45	20.48	20.43	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.40	20.48	20.41	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.43	20.49	20.39	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.42	20.46	20.37	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.49	20.50	20.40	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.44	20.41	20.41	21.0	0.0	
Channel				500700	518598	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	20.47	20.49	20.44	21.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	20.42	20.45	20.36	21.0	0.0	



n41 PC2 Ant4 SA DSI6

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	509202	518598	528000					
Frequency (MHz)	2546.01	2592.99	2640					
100	PI/2 BPSK	1	1	21.59	21.65	21.53	23.5	0.0
100	PI/2 BPSK	1	137	21.93	21.95	21.88		
100	PI/2 BPSK	1	271	21.54	21.68	21.56		
100	PI/2 BPSK	135	0	21.54	21.63	21.51		
100	PI/2 BPSK	135	69	21.89	21.93	21.87		
100	PI/2 BPSK	135	138	21.82	21.82	21.64		
100	PI/2 BPSK	270	0	21.56	21.66	21.51		
100	QPSK	1	1	21.61	21.57	21.64		
100	QPSK	1	137	21.93	21.97	21.96		
100	QPSK	1	271	21.57	21.66	21.53		
100	QPSK	135	0	21.62	21.66	21.57	23.5	0.0
100	QPSK	135	69	21.91	21.96	21.93	23.5	0.0
100	QPSK	135	138	21.54	21.66	21.53	23.5	0.0
100	QPSK	270	0	21.91	21.97	21.91	23.5	0.0
100	16QAM	1	1	21.82	21.82	21.59	23.5	0.0
100	64QAM	1	1	20.85	20.82	20.52	22.5	1.0
100	256QAM	1	1	18.80	18.88	18.56	20.5	3.0
Channel	508200	518598	528998					
Frequency (MHz)	2541	2592.99	2644.98					
90	QPSK	1	1	21.61	21.59	21.51	23.5	0.0
Channel	507204	518598	529998					
Frequency (MHz)	2536.02	2592.99	2649.99					
80	QPSK	1	1	21.56	21.66	21.56	23.5	0.0
Channel	506202	518598	531000					
Frequency (MHz)	2531.01	2592.99	2655					
70	QPSK	1	1	21.56	21.64	21.52	23.5	0.0
Channel	505200	518598	531998					
Frequency (MHz)	2526	2592.99	2659.98					
60	QPSK	1	1	21.55	21.63	21.58	23.5	0.0
Channel	504204	518598	532998					
Frequency (MHz)	2521.02	2592.99	2664.99					
50	QPSK	1	1	21.55	21.57	21.54	23.5	0.0
Channel	503202	518598	534000					
Frequency (MHz)	2516.01	2592.99	2670					
40	QPSK	1	1	21.63	21.69	21.62	23.5	0.0
Channel	502200	518598	534998					
Frequency (MHz)	2511	2592.99	2674.98					
30	QPSK	1	1	21.57	21.69	21.63	23.5	0.0
Channel	501204	518598	535998					
Frequency (MHz)	2506.02	2592.99	2679.99					
20	QPSK	1	1	21.55	21.62	21.61	23.5	0.0
Channel	500700	518598	536498					
Frequency (MHz)	2503.5	2592.99	2682.48					
15	QPSK	1	1	21.62	21.67	21.60	23.5	0.0
Channel	500202	518598	537000					
Frequency (MHz)	2501.01	2592.99	2685					
10	QPSK	1	1	21.58	21.66	21.52	23.5	0.0



n48 Ant5 SA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				68000	64166	64332		
Frequency (MHz)				3600	3624.99	3649.98		
100	PI2 BPSK	1	1	21.84	21.93	21.83	23.0	0.0
100	PI2 BPSK	1	137	22.38	22.62	22.45		
100	PI2 BPSK	1	271	21.59	21.83	21.60		
100	PI2 BPSK	135	0	22.31	22.48	22.28	23.0	0.0
100	PI2 BPSK	135	69	22.43	22.47	22.57	23.0	0.0
100	PI2 BPSK	135	135	22.34	22.30	22.38	23.0	0.0
100	PI2 BPSK	270	0	22.33	22.33	22.32		
100	QPSK	1	1	21.83	21.90	21.68	23.0	0.0
100	QPSK	1	137	22.56	22.65	22.44		
100	QPSK	1	271	21.72	21.69	21.71		
100	QPSK	135	0	22.33	22.48	22.34	23.0	0.0
100	QPSK	135	69	22.45	22.65	22.51	23.0	0.0
100	QPSK	135	135	22.40	22.45	22.20	23.0	0.0
100	QPSK	270	0	22.29	22.48	22.33		
100	16QAM	1	1	21.81	21.73	21.85	23.0	0.0
100	64QAM	1	1	21.75	21.70	21.79	23.0	0.0
100	256QAM	1	1	21.79	21.89	21.81	22.0	1.0
Channel				63866	64166	64366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3595.02	3624.99	3654.99		
90	QPSK	1	1	22.44	22.53	22.38	23.0	0.0
Channel				63834	64166	64500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3590.01	3624.99	3650		
80	QPSK	1	1	22.48	22.55	22.30	23.0	0.0
Channel				63866	64166	64466	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3590.02	3624.99	3659.99		
60	QPSK	1	1	22.43	22.59	22.38	23.0	0.0
Channel				63834	64166	64500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3575.01	3624.99	3675		
50	QPSK	1	1	22.49	22.51	22.30	23.0	0.0
Channel				63800	64166	64332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3570	3624.99	3679.98		
40	QPSK	1	1	22.43	22.57	22.30	23.0	0.0
Channel				63734	64166	64500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	22.41	22.54	22.30	23.0	0.0
Channel				63768	64166	64666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3657.82	3624.99	3692.49		
15	QPSK	1	1	22.50	22.60	22.32	23.0	0.0
Channel				63700	64166	64632	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	22.51	22.58	22.39	23.0	0.0



Part270 n77 PC2&PC3 Ant5 SA DSI6

BW (MHz)	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	66000	66000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	20.02	20.09	20.06		
100	PI2 BPSK	1	137	19.22	19.42	19.42	21.0	0.0
100	PI2 BPSK	1	271	19.38	19.43	19.38		
100	PI2 BPSK	135	0	19.91	19.99	19.89	21.0	0.0
100	PI2 BPSK	135	69	20.14	20.20	20.01	21.0	0.0
100	PI2 BPSK	135	138	19.91	20.03	19.89		
100	PI2 BPSK	270	0	19.96	20.01	19.95	21.0	0.0
100	QPSK	1	1	19.50	19.52	19.49		
100	QPSK	1	137	20.12	20.21	20.16	21.0	0.0
100	QPSK	1	271	19.43	19.36	19.36		
100	QPSK	135	0	20.02	20.02	20.04	21.0	0.0
100	QPSK	135	69	19.97	20.10	20.06	21.0	0.0
100	QPSK	135	138	19.82	19.89	19.84	21.0	0.0
100	QPSK	270	0	19.97	20.00	19.89		
100	MSQAM	1	1	19.34	19.36	19.25	21.0	0.0
100	MSQAM	1	1	19.14	19.21	19.02	21.0	0.0
100	MSQAM	1	1	19.61	19.72	19.74	21.0	0.0
Channel				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.98	20.14	20.11	21.0	0.0
Channel				64934	65000	65238	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.02	20.11	20.06	21.0	0.0
Channel				64900	65000	65300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.98	20.13	20.08	21.0	0.0
Channel				64868	65000	65334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.08	20.14	20.06	21.0	0.0
Channel				64834	65000	65398	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.99	20.16	20.09	21.0	0.0
Channel				64800	65000	65400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.99	20.09	20.04	21.0	0.0
Channel				64734	65000	65468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3718.01	3840	3970.02		
20	QPSK	1	1	20.07	20.08	20.12	21.0	0.0
Channel				64768	65000	65484	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3717.52	3840	3972.51		
15	QPSK	1	1	19.99	20.15	20.05	21.0	0.0
Channel				64700	65000	65500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715	3840	3975		
10	QPSK	1	1	20.00	20.07	20.10	21.0	0.0

Part27Q n77 PC2&PC3 Ant5 SA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				63000	63334	63668		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI2 BPSK	1	1	20.04				
100	PI2 BPSK	1	137	19.06			21.0	0.0
100	PI2 BPSK	1	271	19.46				
100	PI2 BPSK	135	0	19.92			21.0	0.0
100	PI2 BPSK	135	69	20.11			21.0	0.0
100	PI2 BPSK	135	138	20.00				
100	PI2 BPSK	270	0	19.92			21.0	0.0
100	QPSK	1	1	19.14				
100	QPSK	1	137	20.15			21.0	0.0
100	QPSK	1	271	19.55				
100	QPSK	135	0	19.98			21.0	0.0
100	QPSK	135	69	20.12			21.0	0.0
100	QPSK	135	138	19.99			21.0	0.0
100	QPSK	270	0	20.17				
100	MSQAM	1	1	19.16			21.0	0.0
100	MSQAM	1	1	19.03			21.0	0.0
100	MSQAM	1	1	19.63			21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.08	20.10	20.02	21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.12	20.04	20.02	21.0	0.0
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3488.01	3500.01	3515.01		
70	QPSK	1	1	20.11	20.11	20.01	21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3500.02		
60	QPSK	1	1	20.04	20.07	20.12	21.0	0.0
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3479.02	3500.01	3520		
50	QPSK	1	1	20.05	20.05	20.07	21.0	0.0
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.02	20.08	20.10	21.0	0.0
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3468.02	3500.01	3540		
20	QPSK	1	1	20.11	20.01	20.08	21.0	0.0
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	20.01	20.12	20.11	21.0	0.0
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3458.01	3500.01	3545.01		
10	QPSK	1	1	20.11	20.03	20.04	21.0	0.0



Part270 n78 PC3 Ant5 SA DSI6

BW (MHz)	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)				3750	3750	3750		
100	PI2 BPSK	1	1	20.22			21.0	0.0
100	PI2 BPSK	1	137	19.44				
100	PI2 BPSK	1	271	19.59				
100	PI2 BPSK	135	0	19.81			21.0	0.0
100	PI2 BPSK	135	69	20.10			21.0	0.0
100	PI2 BPSK	135	138	20.05				
100	PI2 BPSK	270	0	20.07			21.0	0.0
100	QPSK	1	1	19.41				
100	QPSK	1	137	20.31			21.0	0.0
100	QPSK	1	271	19.75				
100	QPSK	135	0	19.90			21.0	0.0
100	QPSK	135	69	20.28			21.0	0.0
100	QPSK	135	138	20.02			21.0	0.0
100	QPSK	270	0	20.09			21.0	0.0
100	16QAM	1	1	19.17			21.0	0.0
100	64QAM	1	1	19.17			21.0	0.0
100	256QAM	1	1	19.71			21.0	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.18	20.14	20.30	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	20.19	20.14	20.29	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725	3750	3765		
70	QPSK	1	1	20.13	20.17	20.30	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	20.19	20.21	20.22	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	20.13	20.15	20.24	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.17	20.18	20.28	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3716.02	3750	3786.01		
30	QPSK	1	1	20.14	20.20	20.28	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	20.14	20.20	20.30	21.0	0.0
Channel				647000	650000	652934	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3709.52	3750	3789.51		
15	QPSK	1	1	20.13	20.13	20.26	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	20.16	20.14	20.29	21.0	0.0

Part27Q n78 PC3 Ant5 SA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				63334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	20.11			21.0	0.0
100	PI2 BPSK	1	137	19.32				
100	PI2 BPSK	1	271	19.99				
100	PI2 BPSK	135	0	19.87			21.0	0.0
100	PI2 BPSK	135	69	20.19			21.0	0.0
100	PI2 BPSK	135	138	20.04				
100	PI2 BPSK	270	0	20.11			21.0	0.0
100	QPSK	1	1	19.24				
100	QPSK	1	137	20.28			21.0	0.0
100	QPSK	1	271	19.95				
100	QPSK	135	0	19.92			21.0	0.0
100	QPSK	135	69	20.20			21.0	0.0
100	QPSK	135	138	20.18			21.0	0.0
100	QPSK	270	0	20.21			21.0	0.0
100	16QAM	1	1	19.38			21.0	0.0
100	64QAM	1	1	19.38			21.0	0.0
100	256QAM	1	1	19.63			21.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	20.13	20.15	20.07	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.12	20.15	20.12	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.12	20.16	20.04	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	20.12	20.11	20.06	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	20.16	20.16	20.10	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.15	20.17	20.07	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.12	20.15	20.11	21.0	0.0
Channel				630634	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.01	3500.01	3537.51		
25	QPSK	1	1	20.14	20.14	20.09	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500.01	3540		
20	QPSK	1	1	20.17	20.13	20.09	21.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	20.17	20.17	20.13	21.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	20.13	20.11	20.05	21.0	0.0



n2 Ant0 NSA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37200	37600	37600		
Frequency (MHz)				1865	1880	1885		
30	PI2 BPSK	1	1	19.48	19.61	19.45		
30	PI2 BPSK	1	80	19.82	19.90	19.87	21.0	0.0
30	PI2 BPSK	1	158	19.49	19.54	19.46		
30	PI2 BPSK	80	0	19.78	19.81	19.76	21.0	0.0
30	PI2 BPSK	80	40	19.84	19.87	19.77	21.0	0.0
30	PI2 BPSK	80	80	19.56	19.65	19.57		
30	PI2 BPSK	160	0	19.69	19.80	19.65	21.0	0.0
30	QPSK	1	1	19.49	19.67	19.57		
30	QPSK	1	80	19.88	19.95	19.86	21.0	0.0
30	QPSK	1	158	19.40	19.54	19.46		
30	QPSK	80	0	19.73	19.85	19.72	21.0	0.0
30	QPSK	80	40	19.80	19.92	19.79	21.0	0.0
30	QPSK	80	80	19.63	19.68	19.62	21.0	0.0
30	QPSK	160	0	19.65	19.77	19.65		
30	16QAM	1	1	19.30	19.39	19.26	21.0	0.0
30	16QAM	1	1	19.26	19.37	19.21	21.0	0.0
30	256QAM	1	1	19.59	19.56	19.53	21.0	0.0
Channel								
Frequency (MHz)				37200	37600	37600		
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	19.45	19.61	19.50	21.0	0.0
Channel								
Frequency (MHz)				37200	37600	37600		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	19.44	19.57	19.39		
20	PI2 BPSK	1	53	19.78	19.85	19.83	21.0	0.0
20	PI2 BPSK	1	104	19.42	19.51	19.42		
20	PI2 BPSK	80	0	19.78	19.78	19.73	21.0	0.0
20	PI2 BPSK	50	28	19.80	19.83	19.72	21.0	0.0
20	PI2 BPSK	50	56	19.52	19.59	19.52		
20	PI2 BPSK	100	0	19.65	19.73	19.62	21.0	0.0
20	QPSK	1	1	19.42	19.63	19.51		
20	QPSK	1	53	19.84	19.90	19.83	21.0	0.0
20	QPSK	1	104	19.35	19.50	19.42		
20	QPSK	50	0	19.67	19.81	19.68	23.0	1.0
20	QPSK	50	28	19.77	19.86	19.73	24.0	0.0
20	QPSK	50	56	19.57	19.64	19.59		
20	QPSK	100	0	19.62	19.73	19.61	23.0	1.0
20	16QAM	1	1	19.26	19.24	19.23	21.0	0.0
20	16QAM	1	1	19.23	19.32	19.17	21.0	0.0
20	256QAM	1	1	19.52	19.53	19.47	21.0	0.0
Channel								
Frequency (MHz)				37150	37600	38050		
Frequency (MHz)				1877.5	1880	1922.5		
15	QPSK	1	1	19.54	19.65	19.50	21.0	0.0
Channel								
Frequency (MHz)				37100	37600	38100		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	19.81	19.89	19.86	21.0	0.0
Channel								
Frequency (MHz)				37050	37600	38150		
Frequency (MHz)				1852.5	1880	1917.5		
5	QPSK	1	1	19.45	19.55	19.53	21.0	0.0

n5 Ant0 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16700				
Frequency (MHz)				836.5				
25	PI2 BPSK	1	1		22.52			
25	PI2 BPSK	1	80		22.73		24.0	0.0
25	PI2 BPSK	1	158		22.69			
25	PI2 BPSK	80	0		22.37		23.5	0.5
25	PI2 BPSK	80	40		22.79		24.0	0.0
25	PI2 BPSK	80	80		22.43			
25	PI2 BPSK	160	0		22.47		23.5	0.5
25	QPSK	1	1		22.76			
25	QPSK	1	80		22.70		24.0	0.0
25	QPSK	1	158		22.65			
25	QPSK	80	0		21.89		23.0	1.0
25	QPSK	80	40		22.90		24.0	0.0
25	QPSK	80	80		21.91		23.0	1.0
25	QPSK	160	0		21.88			
25	16QAM	1	1		21.23		23.0	1.0
25	16QAM	1	1		19.75		21.5	2.5
25	256QAM	1	1		18.44		19.5	4.5
Channel								
Frequency (MHz)				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1		22.47	22.49	22.37	
20	PI2 BPSK	1	53		22.64	22.68	22.56	24.0
20	PI2 BPSK	1	104		22.50	22.60	22.54	
20	PI2 BPSK	50	0		22.15	22.36	22.14	23.5
20	PI2 BPSK	50	28		22.84	22.73	22.66	24.0
20	PI2 BPSK	50	56		22.22	22.36	22.31	
20	PI2 BPSK	100	0		22.30	22.43	22.38	23.5
20	QPSK	1	1		22.56	22.67	22.57	
20	QPSK	1	53		22.61	22.66	22.55	24.0
20	QPSK	1	104		22.52	22.58	22.51	
20	QPSK	50	0		21.67	21.86	21.77	23.0
20	QPSK	50	28		22.70	22.87	22.81	24.0
20	QPSK	50	56		21.81	21.91	21.78	
20	QPSK	100	0		21.88	21.95	21.79	23.0
20	16QAM	1	1		21.05	21.17	21.12	23.0
20	16QAM	1	1		19.64	19.69	19.63	21.5
20	256QAM	1	1		18.34	18.36	18.32	19.5
Channel								
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1		22.58	22.65	22.68	24.0
Channel								
Frequency (MHz)				166800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1		22.68	22.62	22.51	24.0
Channel								
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1		22.67	22.67	22.72	24.0

n12 Ant0 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				141300	141600	141900		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.77	22.83	22.74		
15	PI2 BPSK	1	40	22.76	22.79	22.69	24.0	0.0
15	PI2 BPSK	1	77	22.66	22.70	22.58		
15	PI2 BPSK	36	0	22.28	22.32	22.23	23.5	0.5
15	PI2 BPSK	36	22	22.74	22.80	22.71	24.0	0.0
15	PI2 BPSK	36	43	22.19	22.33	22.20		
15	PI2 BPSK	75	0	22.28	22.36	22.29	23.5	0.5
15	QPSK	1	1	22.85	22.87	22.82		
15	QPSK	1	40	22.67	22.75	22.61	24.0	0.0
15	QPSK	1	77	22.63	22.69	22.58		
15	QPSK	36	0	21.73	21.79	21.67	23.0	1.0
15	QPSK	36	22	22.76	22.83	22.79	24.0	0.0
15	QPSK	36	43	21.79	21.84	21.79		
15	QPSK	75	0	21.87	21.88	21.83		
15	16QAM	1	1	21.24	21.36	21.30	23.0	1.0
15	16QAM	1	1	19.89	20.07	19.98	21.5	2.5
15	256QAM	1	1	18.56	18.65	18.61	19.5	4.5
Channel								
Frequency (MHz)				140800	141600	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.77	22.78	22.77	24.0	0.0
Channel								
Frequency (MHz)				140300	141600	142100		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.72	22.76	22.70	24.0	0.0



n14 Ant0 NSA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				168000					
Frequency (MHz)				793					
10	PI2 BPSK	1	1	22.56					
10	PI2 BPSK	1	26	22.52			24.0	0.0	
10	PI2 BPSK	1	50	22.44					
10	PI2 BPSK	25	0	22.12			23.5	0.5	
10	PI2 BPSK	25	14	22.56			24.0	0.0	
10	PI2 BPSK	25	27	21.94					
10	PI2 BPSK	50	0	22.01			23.5	0.5	
10	QPSK	1	1	22.58					
10	QPSK	1	26	22.53			24.0	0.0	
10	QPSK	1	50	22.47					
10	QPSK	25	0	21.58			23.0	1.0	
10	QPSK	25	14	22.55			24.0	0.0	
10	QPSK	25	27	21.43			23.0	1.0	
10	QPSK	50	0	21.50					
10	16QAM	1	1	21.26			23.0	1.0	
10	16QAM	1	1	19.84			21.5	2.5	
10	256QAM	1	1	18.54			19.5	4.5	
Channel				158100	168000	169100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5	24.0	0.0	
5	QPSK	1	1	22.44	22.53	22.47	24.0	0.0	

n25 Ant0 NSA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				376000					
Frequency (MHz)				1870					
40	PI2 BPSK	1	1	19.10	19.16	19.05			
40	PI2 BPSK	1	108	19.86	19.93	19.87	21.0	0.0	
40	PI2 BPSK	1	214	19.08	19.14	19.06			
40	PI2 BPSK	108	0	19.72	19.72	19.83	21.0	0.0	
40	PI2 BPSK	108	54	19.82	19.92	19.75	21.0	0.0	
40	PI2 BPSK	108	108	19.59	19.89	19.64			
40	PI2 BPSK	216	0	19.68	19.75	19.67	21.0	0.0	
40	QPSK	1	1	19.06	19.16	19.07			
40	QPSK	1	108	19.83	19.95	19.91	21.0	0.0	
40	QPSK	1	214	19.02	19.17	19.02			
40	QPSK	108	0	19.62	19.89	19.58	21.0	0.0	
40	QPSK	108	54	19.70	19.84	19.76	21.0	0.0	
40	QPSK	108	108	19.63	19.62	19.60	21.0	0.0	
40	QPSK	216	0	19.62	19.77	19.71			
40	16QAM	1	1	19.04	19.21	19.05	21.0	0.0	
40	16QAM	1	1	19.10	19.12	19.11	21.0	0.0	
40	256QAM	1	1	19.54	19.64	19.46	20.5	0.5	
Channel				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1862.5	1860	21.0	0.0	
30	QPSK	1	1	19.13	19.10	19.04	21.0	0.0	
Channel				375000	376000	376000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1862.5	21.0	0.0	
25	QPSK	1	1	19.06	19.11	19.06	21.0	0.0	
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1862.5	1860	21.0	0.0	
20	QPSK	1	1	19.04	19.09	19.11	21.0	0.0	
Channel				371000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1862.5	1867.5	21.0	0.0	
15	QPSK	1	1	19.10	19.02	19.01	21.0	0.0	
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1862.5	1860	21.0	0.0	
10	QPSK	1	1	19.08	19.06	19.02	21.0	0.0	
Channel				370000	376000	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1862.5	1912.5	21.0	0.0	
5	QPSK	1	1	19.01	19.07	19.06	21.0	0.0	

n26 Ant0 NSA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				164000					
Frequency (MHz)				824					
20	PI2 BPSK	1	1	22.61	22.73	22.66			
20	PI2 BPSK	1	53	22.61	22.69	22.65	24.0	0.0	
20	PI2 BPSK	1	104	22.61	22.67	22.54			
20	PI2 BPSK	50	0	22.07	22.14	22.08	23.5	0.5	
20	PI2 BPSK	50	26	22.54	22.66	22.61	24.0	0.0	
20	PI2 BPSK	50	56	22.21	22.29	22.17			
20	PI2 BPSK	100	0	22.24	22.35	22.26	23.5	0.5	
20	QPSK	1	1	22.73	22.76	22.69			
20	QPSK	1	53	22.57	22.69	22.54	24.0	0.0	
20	QPSK	1	104	22.53	22.64	22.52			
20	QPSK	50	0	21.84	21.67	21.61	23.0	1.0	
20	QPSK	50	26	22.66	22.75	22.71	24.0	0.0	
20	QPSK	50	56	21.70	21.79	21.66	23.0	1.0	
20	QPSK	100	0	21.74	21.82	21.62			
20	16QAM	1	1	21.21	21.30	21.16	23.0	1.0	
20	16QAM	1	1	19.68	19.74	19.71	21.5	2.5	
20	256QAM	1	1	18.41	18.46	18.38	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0	
15	QPSK	1	1	22.59	22.67	22.62	#REF!	0.0	
Channel				163300	165300	165300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	24.0	0.0	
10	QPSK	1	1	22.59	22.63	22.58	#REF!	0.0	
Channel				163300	166300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0	
5	QPSK	1	1	22.67	22.72	22.59	#REF!	0.0	



n66 Ant0 NSA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	346000	347000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	20.04	20.09	20.01			
40	PI2 BPSK	1	108	20.90	21.03	20.88	22.0	0.0	
40	PI2 BPSK	1	214	20.03	20.08	20.06			
40	PI2 BPSK	108	0	20.19	20.31	20.19	22.0	0.0	
40	PI2 BPSK	108	54	20.08	20.77	20.72	22.0	0.0	
40	PI2 BPSK	108	108	20.25	20.32	20.17			
40	PI2 BPSK	216	0	20.30	20.34	20.27	22.0	0.0	
40	QPSK	1	1	20.04	20.15	20.08			
40	QPSK	1	108	21.17	21.23	21.09	22.0	0.0	
40	QPSK	1	214	20.02	20.09	20.07			
40	QPSK	108	0	20.27	20.38	20.31	22.0	0.0	
40	QPSK	108	54	20.91	20.94	20.80	22.0	0.0	
40	QPSK	108	108	20.23	20.28	20.16			
40	QPSK	216	0	20.22	20.33	20.28			
40	16QAM	1	1	20.07	20.12	20.08	22.0	0.0	
40	16QAM	1	1	20.01	20.08	20.04	22.0	0.0	
40	256QAM	1	1	20.45	20.52	20.49	22.0	0.0	
Channel				345000	346000	347000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.08	21.19	21.05	22.0	0.0	
Channel				345500	346500	347500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	21.06	21.17	21.05	22.0	0.0	
Channel				344000	346000	348000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.00	21.13	20.95	22.0	0.0	
Channel				343500	346000	348500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.07	21.10	21.01	22.0	0.0	
Channel				343000	346000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.07	21.19	20.96	22.0	0.0	
Channel				342500	346000	350500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.06	21.11	20.95	22.0	0.0	

n70 Ant0 NSA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				340500	340500	340500			
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1		22.88				
15	PI2 BPSK	1	40		22.55		24.0	0.0	
15	PI2 BPSK	1	77		22.40				
15	PI2 BPSK	36	0		22.44		24.0	0.0	
15	PI2 BPSK	36	22		22.51		24.0	0.0	
15	PI2 BPSK	36	43		22.64				
15	PI2 BPSK	75	0		22.50		24.0	0.0	
15	QPSK	1	1		22.73				
15	QPSK	1	40		22.51		24.0	0.0	
15	QPSK	1	77		22.44				
15	QPSK	36	0		22.38		24.0	0.0	
15	QPSK	36	22		22.70		24.0	0.0	
15	QPSK	36	43		22.58				
15	QPSK	75	0		22.66		24.0	0.0	
15	16QAM	1	1		22.49		24.0	0.0	
15	16QAM	1	1		22.08		24.0	0.0	
15	256QAM	1	1		21.45		23.0	1.0	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	22.59	22.65	22.63	24.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	22.61	22.63	22.60	24.0	0.0	

n71 Ant0 NSA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				136000	136100	136200			
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.67	22.70	22.58			
20	PI2 BPSK	1	53	22.49	22.64	22.52	24.0	0.0	
20	PI2 BPSK	1	104	22.38	22.42	22.33			
20	PI2 BPSK	50	0	22.54	22.69	21.98	23.5	0.5	
20	PI2 BPSK	50	26	22.81	22.88	22.54	24.0	0.0	
20	PI2 BPSK	50	56	22.03	22.06	21.97			
20	PI2 BPSK	100	0	22.06	22.11	21.98	23.5	0.5	
20	QPSK	1	1	22.72	22.77	22.69			
20	QPSK	1	53	22.49	22.60	22.52	24.0	0.0	
20	QPSK	1	104	22.49	22.53	22.45			
20	QPSK	50	0	21.52	21.57	21.45	23.0	1.0	
20	QPSK	50	26	22.73	22.75	22.70	24.0	0.0	
20	QPSK	50	56	21.49	21.61	21.52			
20	QPSK	100	0	21.88	21.78	21.72	23.0	1.0	
20	16QAM	1	1	21.43	21.49	21.36	23.0	1.0	
20	16QAM	1	1	19.79	19.88	19.75	21.5	2.5	
20	256QAM	1	1	18.33	18.46	18.38	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.85	22.71	22.62	24.0	0.0	
Channel				133500	136100	138500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.60	22.73	22.55	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	686.5			
5	QPSK	1	1	22.83	22.69	22.62	24.0	0.0	



n7 Ant1 NSA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI/2 BPSK	1	1	18.07	18.13	18.10			
50	PI/2 BPSK	1	135	18.58	18.62	18.51	19.5	0.0	
50	PI/2 BPSK	1	268	18.17	18.31	18.26			
50	PI/2 BPSK	135	0	18.45	18.56	18.50	19.5	0.0	
50	PI/2 BPSK	135	68	18.41	18.55	18.47	19.5	0.0	
50	PI/2 BPSK	135	135	18.44	18.49	18.44	19.5	0.0	
50	PI/2 BPSK	270	0	18.59	18.63	18.51			
50	QPSK	1	1	18.14	18.27	18.16			
50	QPSK	1	135	18.66	18.70	18.57	19.5	0.0	
50	QPSK	1	268	18.15	18.23	18.15			
50	QPSK	135	0	18.30	18.40	18.31	19.5	0.0	
50	QPSK	135	68	18.39	18.52	18.41	19.5	0.0	
50	QPSK	135	135	18.46	18.51	18.44			
50	QPSK	270	0	18.39	18.54	18.50	19.5	0.0	
50	16QAM	1	1	17.84	17.98	17.95	19.5	0.0	
50	64QAM	1	1	17.84	17.87	17.72	19.5	0.0	
50	256QAM	1	1	17.93	18.06	17.98	19.5	0.0	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	18.61	18.66	18.51	19.5	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.55	18.63	18.52	19.5	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.58	18.67	18.51	19.5	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	18.59	18.60	18.46	19.5	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.61	18.65	18.50	19.5	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.62	18.64	18.46	19.5	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.55	18.60	18.48	19.5	0.0	

n30 Ant1 NSA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				462000					
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		19.45				
10	PI/2 BPSK	1	26		19.34		20.5	0.0	
10	PI/2 BPSK	1	50		19.35				
10	PI/2 BPSK	25	0		19.29		20.5	0.0	
10	PI/2 BPSK	25	14		19.50		20.5	0.0	
10	PI/2 BPSK	25	27		19.27		20.5	0.0	
10	PI/2 BPSK	50	0		19.40				
10	QPSK	1	1		19.52				
10	QPSK	1	26		19.50		20.5	0.0	
10	QPSK	1	50		19.37				
10	QPSK	25	0		19.45		20.5	0.0	
10	QPSK	25	14		19.47		20.5	0.0	
10	QPSK	25	27		19.32				
10	QPSK	50	0		19.41		20.5	0.0	
10	16QAM	1	1		19.13		20.5	0.0	
10	64QAM	1	1		19.07		20.5	0.0	
10	256QAM	1	1		19.24		20.5	0.0	
Channel				461500	462000	462500			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	19.40	19.45	19.39	20.5	0.0	



n41 PC2&PC3 Ant1 NSA DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				5262.02	518598	5262.00		
Frequency (MHz)				2546.01	2592.99	2546		
100	PI2 BPSK	1	1	18.98	19.02	18.96	19.5	0.0
100	PI2 BPSK	1	137	19.19	19.25	19.09		
100	PI2 BPSK	1	271	18.97	19.01	18.93		
100	PI2 BPSK	135	0	19.20	19.25	19.04	19.5	0.0
100	PI2 BPSK	135	69	18.94	18.99	18.91	19.5	0.0
100	PI2 BPSK	135	138	19.15	19.21	19.07	19.5	0.0
100	PI2 BPSK	270	0	18.85	18.94	18.91		
100	QPSK	1	1	18.99	19.04	19.10		
100	QPSK	1	137	19.06	19.26	19.11	19.5	0.0
100	QPSK	1	271	18.94	19.04	18.93	19.5	0.0
100	QPSK	135	0	19.11	19.15	19.03		
100	QPSK	135	69	19.05	19.17	19.11		
100	QPSK	135	138	18.88	18.86	18.94	19.5	0.0
100	QPSK	270	0	18.86	19.10	18.83	19.5	0.0
100	16QAM	1	1	18.99	18.99	18.92		
100	64QAM	1	1	19.04	19.02	19.03		
100	256QAM	1	1	18.66	18.78	18.65	19.5	0.0
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2544.98		
90	QPSK	1	1	18.98	19.04	19.08	19.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2549.99		
80	QPSK	1	1	18.98	19.06	19.08	19.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2605		
70	QPSK	1	1	18.98	19.01	19.07	19.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2609.98		
60	QPSK	1	1	18.95	18.98	19.05	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2614.99		
50	QPSK	1	1	18.98	18.98	19.11	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.00	19.03	19.08	19.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2614.98		
30	QPSK	1	1	18.95	19.05	19.04	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.96	18.99	19.06	19.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48		
15	QPSK	1	1	18.98	18.99	19.11	19.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.99	19.03	19.07	19.5	0.0



n2 Ant4 NSA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1865	1880	1895		
30	PI2 BPSK	1	1	20.28	20.32	20.24		
30	PI2 BPSK	1	80	20.55	20.69	20.57	22.0	0.0
30	PI2 BPSK	1	158	20.18	20.27	20.20		
30	PI2 BPSK	80	0	20.43	20.57	20.43	23.0	0.0
30	PI2 BPSK	80	40	20.53	20.61	20.48	22.0	0.0
30	PI2 BPSK	80	80	20.34	20.39	20.29		
30	PI2 BPSK	160	0	20.31	20.44	20.35	22.0	0.0
30	QPSK	1	1	20.21	20.36	20.32		
30	QPSK	1	80	20.68	20.75	20.81	22.0	0.0
30	QPSK	1	158	20.18	20.24	20.10		
30	QPSK	80	0	20.44	20.54	20.45	22.0	0.0
30	QPSK	80	40	20.61	20.68	20.58	22.0	0.0
30	QPSK	80	80	20.34	20.42	20.37	22.0	0.0
30	QPSK	160	0	20.35	20.49	20.34		
30	16QAM	1	1	20.08	20.12	20.04	22.0	0.0
30	16QAM	1	1	20.02	20.06	20.15	22.0	0.0
30	256QAM	1	1	19.38	19.52	19.46	21.0	1.0
Channel								
Frequency (MHz)				37250	37600	37950	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	20.15	20.31	20.25	22.0	0.0
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	20.25	20.25	20.18		
20	PI2 BPSK	1	53	20.51	20.63	20.53	22.0	0.0
20	PI2 BPSK	1	104	20.13	20.21	20.15		
20	PI2 BPSK	80	0	20.38	20.51	20.39	22.0	0.0
20	PI2 BPSK	80	28	20.50	20.56	20.43	22.0	0.0
20	PI2 BPSK	50	56	20.28	20.32	20.25		
20	PI2 BPSK	100	0	20.27	20.41	20.31	22.0	0.0
20	QPSK	1	1	20.16	20.31	20.28		
20	QPSK	1	53	20.61	20.68	20.55	22.0	0.0
20	QPSK	1	104	20.12	20.20	20.05		
20	QPSK	50	0	20.40	20.48	20.41	23.0	1.0
20	QPSK	50	28	20.57	20.63	20.53	24.0	0.0
20	QPSK	50	56	20.28	20.38	20.30	23.0	1.0
20	QPSK	100	0	20.31	20.43	20.29		
20	16QAM	1	1	20.02	20.06	20.00	22.0	0.0
20	16QAM	1	1	19.98	20.01	20.12	22.0	0.0
20	256QAM	1	1	19.33	19.48	19.42	21.0	1.0
Channel								
Frequency (MHz)				37150	37600	38050	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.75	18.80	18.75	22.0	0.0
Channel								
Frequency (MHz)				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.55	20.62	20.55	22.0	0.0
Channel								
Frequency (MHz)				37050	37600	38150	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.50	20.65	20.54	22.0	0.0

n5 Ant4 NSA Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				18700				
25	PI2 BPSK	1	1	22.28	22.28	22.28		
25	PI2 BPSK	1	80	22.42	22.42	22.42	24.0	0.0
25	PI2 BPSK	1	158	22.08	22.08	22.08		
25	PI2 BPSK	80	0	22.54	22.54	22.54	23.5	0.5
25	PI2 BPSK	80	40	22.54	22.54	22.54	24.0	0.0
25	PI2 BPSK	80	80	22.11	22.11	22.11		
25	PI2 BPSK	160	0	22.17	22.17	22.17	23.5	0.5
25	QPSK	1	1	22.52	22.52	22.52		
25	QPSK	1	80	22.32	22.32	22.32	24.0	0.0
25	QPSK	1	158	22.39	22.39	22.39		
25	QPSK	80	0	21.58	21.58	21.58	23.0	1.0
25	QPSK	80	40	22.05	22.05	22.05	24.0	0.0
25	QPSK	80	80	21.62	21.62	21.62	23.0	1.0
25	QPSK	160	0	21.65	21.65	21.65		
25	16QAM	1	1	21.09	21.09	21.09	23.0	1.0
25	16QAM	1	1	19.57	19.57	19.57	21.5	2.5
25	256QAM	1	1	18.31	18.31	18.31	19.5	4.5
Channel								
Frequency (MHz)				16680	16700	16780	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	834	836.5	839		
20	PI2 BPSK	1	53	22.18	22.26	22.15	24.0	0.0
20	PI2 BPSK	1	104	22.23	22.30	22.25		
20	PI2 BPSK	50	0	21.98	22.02	21.97	23.5	0.5
20	PI2 BPSK	50	28	22.43	22.51	22.39	24.0	0.0
20	PI2 BPSK	50	56	21.97	22.08	21.90	23.5	0.5
20	PI2 BPSK	100	0	22.06	22.11	22.00		
20	QPSK	1	1	22.34	22.46	22.37		
20	QPSK	1	53	22.15	22.26	22.14	24.0	0.0
20	QPSK	1	104	22.20	22.36	22.22		
20	QPSK	50	0	21.45	21.51	21.38	23.0	1.0
20	QPSK	50	28	22.47	22.60	22.47	24.0	0.0
20	QPSK	50	56	21.82	21.96	21.46	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.54		
20	16QAM	1	1	20.98	21.03	21.01	23.0	1.0
20	16QAM	1	1	19.47	19.51	19.48	21.5	2.5
20	256QAM	1	1	18.13	18.26	18.13	19.5	4.5
Channel								
Frequency (MHz)				16530	16530	16530	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	831.5	836.5	841.5		
15	QPSK	1	1	22.45	22.53	22.42	24.0	0.0
Channel								
Frequency (MHz)				16680	16700	16880	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	839	836.5	844		
10	QPSK	1	1	22.47	22.56	22.41	24.0	0.0
Channel								
Frequency (MHz)				16530	16700	16530	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	826.5	836.5	846.5		
5	QPSK	1	1	22.45	22.60	22.44	24.0	0.0

n7 Ant4 NSA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	21.47	21.50	21.42		
50	PI2 BPSK	1	135	21.72	21.78	21.74	22.5	0.0
50	PI2 BPSK	1	268	21.57	21.62	21.47		
50	PI2 BPSK	135	0	21.57	21.65	21.61	22.5	0.0
50	PI2 BPSK	135	68	21.75	21.80	21.66	22.5	0.0
50	PI2 BPSK	135	135	21.67	21.79	21.67		
50	PI2 BPSK	270	0	21.71	21.83	21.69	22.5	0.0
50	QPSK	1	1	21.78	21.88	21.73		
50	QPSK	1	135	21.41	21.52	21.42	22.5	0.0
50	QPSK	1	268	21.58	21.63	21.55		
50	QPSK	135	0	21.58	21.69	21.58	22.5	0.0
50	QPSK	135	68	21.67	21.81	21.72	22.5	0.0
50	QPSK	135	135	21.59	21.71	21.67	22.5	0.0
50	QPSK	270	0	21.69	21.78	21.60		
50	16QAM	1	1	21.10	21.18	21.06	22.5	0.0
50	16QAM	1	1	20.10	20.25	20.12	21.5	1.0
50	256QAM	1	1	18.86	18.96	18.83	19.5	3.0
Channel								
Frequency (MHz)				50400	50700	51000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	2520	2535	2550		
40	QPSK	1	1	21.64	21.73	21.64	22.5	0.0
Channel								
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.73	21.79	21.65	22.5	0.0
Channel								
Frequency (MHz)				50200	50700	51100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.72	21.84	21.67	22.5	0.0
Channel								
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	21.75	21.82	21.61	22.5	0.0
Channel								
Frequency (MHz)				50150	50700	51200	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	2507.5	2535	2562.5		
15	QPSK	1	1	21.71	21.74	21.68	22.5	0.0
Channel								
Frequency (MHz)				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	2505	2535	2565		
10	QPSK	1	1	21.74	21.78	21.67	22.5	0.0
Channel								
Frequency (MHz)				50050	50700	51300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	2470	2478	2483	22.5	0.0



n12 Ant4 NSA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141500	141500	141700			
Frequency (MHz)				709.5	707.5	708.5			
15	PI2 BPSK	1	1	22.17	22.22	22.09	24.0	0.0	
15	PI2 BPSK	1	40	22.05	22.10	22.03			
15	PI2 BPSK	1	77	22.05	22.11	22.05			
15	PI2 BPSK	36	0	21.54	21.63	21.53	23.5	0.5	
15	PI2 BPSK	36	22	22.04	22.11	22.06	24.0	0.0	
15	PI2 BPSK	36	43	21.61	21.65	21.60	23.5	0.5	
15	PI2 BPSK	75	0	21.62	21.67	21.52			
15	QPSK	1	1	22.26	22.31	22.24			
15	QPSK	1	40	22.08	22.14	22.07	24.0	0.0	
15	QPSK	1	77	22.02	22.10	22.06	23.0	1.0	
15	QPSK	36	0	21.08	21.11	21.03			
15	QPSK	36	22	22.11	22.26	22.17			
15	QPSK	36	43	21.14	21.22	21.08	23.0	1.0	
15	QPSK	75	0	21.22	21.28	21.23	23.0	1.0	
15	MSAM	1	1	21.23	21.31	21.18			
15	MSAM	1	1	19.59	19.68	19.54			
15	MSAM	1	1	19.59	19.68	19.54	21.5	2.5	
15	MSAM	1	1	17.84	17.95	17.80	19.5	4.5	
Channel				146800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.17	22.27	22.22	24.0	0.0	
Channel				145300	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.14	22.28	22.23	24.0	0.0	

n25 Ant4 NSA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374200	376500	378000			
Frequency (MHz)				1870	1882.5	1895			
45	PI2 BPSK	1	1	20.06	20.12	20.07	22.0	0.0	
45	PI2 BPSK	1	108	20.57	20.71	20.60			
45	PI2 BPSK	1	214	20.05	20.16	20.08			
45	PI2 BPSK	108	0	20.37	20.43	20.35	22.0	0.0	
45	PI2 BPSK	108	54	20.52	20.59	20.54	22.0	0.0	
45	PI2 BPSK	108	108	20.38	20.41	20.30	22.0	0.0	
45	PI2 BPSK	216	0	20.44	20.49	20.38			
45	QPSK	1	1	20.05	20.18	20.10			
45	QPSK	1	108	20.70	20.78	20.68	22.0	0.0	
45	QPSK	1	214	20.01	20.14	20.06	22.0	0.0	
45	QPSK	108	0	20.27	20.35	20.28			
45	QPSK	108	54	20.41	20.55	20.42			
45	QPSK	108	108	20.28	20.39	20.28	22.0	0.0	
45	QPSK	216	0	20.37	20.45	20.37	22.0	0.0	
45	MSAM	1	1	20.17	20.26	20.12			
45	MSAM	1	1	20.11	20.21	20.16			
45	MSAM	1	1	19.79	19.92	19.83	21.0	1.0	
Channel				375000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	20.63	20.69	20.53	22.0	0.0	
Channel				376200	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	20.67	20.69	20.58	22.0	0.0	
Channel				375000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	20.59	20.70	20.54	22.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	20.60	20.67	20.59	22.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	20.66	20.61	20.60	22.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	20.62	20.64	20.65	22.0	0.0	

n26 Ant4 NSA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164500	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.32	22.39	22.29	24.0	0.0	
20	PI2 BPSK	1	53	22.26	22.32	22.20			
20	PI2 BPSK	1	104	22.22	22.25	22.15			
20	PI2 BPSK	50	0	21.76	21.85	21.78	23.5	0.5	
20	PI2 BPSK	50	28	22.18	22.22	22.15	24.0	0.0	
20	PI2 BPSK	50	56	21.72	21.76	21.72	23.5	0.5	
20	PI2 BPSK	100	0	21.78	21.86	21.76			
20	QPSK	1	1	22.42	22.45	22.39			
20	QPSK	1	53	22.22	22.33	22.25	24.0	0.0	
20	QPSK	1	104	22.15	22.23	22.11	23.0	1.0	
20	QPSK	50	0	21.12	21.22	21.07			
20	QPSK	50	28	22.23	22.28	22.27			
20	QPSK	50	56	21.28	21.37	21.27	23.0	1.0	
20	QPSK	100	0	21.39	21.48	21.41	23.0	1.0	
20	MSAM	1	1	21.44	21.50	21.43			
20	MSAM	1	1	19.72	19.85	19.77			
20	MSAM	1	1	18.01	18.10	18.06	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.30	22.36	22.34	#REF!	0.0	
Channel				163500	166300	166500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.39	22.41	22.31	#REF!	0.0	
Channel				163300	166300	166900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.38	22.31	22.24	#REF!	0.0	



n30 Ant4 NSA DSI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				462000						
Frequency (MHz)				2310						
10	PI2 BPSK	1	1	20.31						
10	PI2 BPSK	1	26	20.36			22.0	0.0		
10	PI2 BPSK	1	50	20.28						
10	PI2 BPSK	25	0	20.35			22.0	0.0		
10	PI2 BPSK	25	14	20.39			22.0	0.0		
10	PI2 BPSK	25	27	20.38			22.0	0.0		
10	PI2 BPSK	50	0	20.40						
10	QPSK	1	1	20.41						
10	QPSK	1	26	20.31			22.0	0.0		
10	QPSK	1	50	20.28						
10	QPSK	25	0	20.34			22.0	0.0		
10	QPSK	25	14	20.38			22.0	0.0		
10	QPSK	25	27	20.30			22.0	0.0		
10	QPSK	50	0	20.32						
10	MSAM	1	1	20.13			22.0	0.0		
10	MSAM	1	1	19.58			21.5	0.5		
10	256QAM	1	1	18.13			19.5	2.5		
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2307.5	2310	2312.5	20.30	20.37	20.33	22.0

n66 Ant4 NSA DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				349000					
Frequency (MHz)				1730			1745	1760	
40	PI2 BPSK	1	1	18.17	18.28	18.17			
40	PI2 BPSK	1	108	18.03	18.05	18.05	20.0	0.0	
40	PI2 BPSK	1	214	18.04	18.10	18.01			
40	PI2 BPSK	108	0	18.68	18.73	18.65	20.0	0.0	
40	PI2 BPSK	108	54	18.61	18.70	18.54	20.0	0.0	
40	PI2 BPSK	108	108	18.55	18.64	18.62			
40	PI2 BPSK	216	0	18.73	18.72	18.72	20.0	0.0	
40	QPSK	1	1	18.17	18.27	18.17			
40	QPSK	1	108	18.70	18.69	18.79	20.0	0.0	
40	QPSK	1	214	18.08	18.17	18.12			
40	QPSK	108	0	18.71	18.77	18.79	20.0	0.0	
40	QPSK	108	54	18.66	18.75	18.62	20.0	0.0	
40	QPSK	108	108	18.64	18.75	18.68	20.0	0.0	
40	QPSK	216	0	18.76	18.77	18.73			
40	MSAM	1	1	18.08	18.10	18.02	20.0	0.0	
40	MSAM	1	1	18.01	18.09	18.04	20.0	0.0	
40	256QAM	1	1	18.58	18.62	18.55	20.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.09	18.28	18.15	20.0	0.0	
Channel				345000	350000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	18.08	18.25	18.17	20.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.13	18.20	18.14	20.0	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.13	18.21	18.13	20.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.15	18.20	18.13	20.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.15	18.20	18.10	20.0	0.0	

n71 Ant4 NSA Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				136000					
Frequency (MHz)				673			680.5	688	
20	PI2 BPSK	1	1	22.49	22.53	22.40			
20	PI2 BPSK	1	53	22.37	22.40	22.30	24.0	0.0	
20	PI2 BPSK	1	104	22.23	22.37	22.29			
20	PI2 BPSK	50	0	21.98	21.98	21.93	23.5	0.5	
20	PI2 BPSK	50	28	22.20	22.33	22.28	24.0	0.0	
20	PI2 BPSK	50	56	21.76	21.86	21.76			
20	PI2 BPSK	100	0	21.81	21.95	21.82	23.5	0.5	
20	QPSK	1	1	22.51	22.55	22.47			
20	QPSK	1	53	22.36	22.47	22.42	24.0	0.0	
20	QPSK	1	104	22.24	22.29	22.25			
20	QPSK	50	0	21.30	21.34	21.23	23.0	1.0	
20	QPSK	50	28	22.35	22.43	22.39	24.0	0.0	
20	QPSK	50	56	21.32	21.44	21.32	23.0	1.0	
20	QPSK	100	0	21.42	21.49	21.45			
20	MSAM	1	1	21.50	21.62	21.54	23.0	1.0	
20	MSAM	1	1	19.96	20.02	19.95	21.5	2.5	
20	256QAM	1	1	18.14	18.20	18.06	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.41	22.48	22.37	24.0	0.0	
Channel				133000	136100	139200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.44	22.43	22.38	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	686.5			
5	QPSK	1	1	22.38	22.42	22.35	24.0	0.0	



Part270 n77 PC2&PC3 Ant5 NSA DSI6

BW (MHz)	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)				3750	3840	3930		
100	PI2 BPSK	1	1	15.31	15.05	15.32		
100	PI2 BPSK	1	137	16.08	16.18	15.99	17.0	0.0
100	PI2 BPSK	1	271	15.30	15.45	15.33		
100	PI2 BPSK	135	0	15.90	16.11	15.85	17.0	0.0
100	PI2 BPSK	135	69	16.05	16.16	16.07	17.0	0.0
100	PI2 BPSK	135	138	15.92	16.03	15.95		
100	PI2 BPSK	270	0	15.88	16.06	15.98	17.0	0.0
100	QPSK	1	1	15.46	15.51	15.43		
100	QPSK	1	137	16.12	16.22	16.17	17.0	0.0
100	QPSK	1	271	15.31	15.42	15.39		
100	QPSK	135	0	15.95	15.94	15.91	17.0	0.0
100	QPSK	135	69	15.96	16.11	16.00	17.0	0.0
100	QPSK	135	138	15.81	15.83	15.82	17.0	0.0
100	QPSK	270	0	15.82	16.06	15.85	17.0	0.0
100	16QAM	1	1	15.38	15.26	15.25	17.0	0.0
100	64QAM	1	1	15.12	15.20	15.04	17.0	0.0
100	256QAM	1	1	15.73	15.73	15.75	17.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.08	16.19	16.07	17.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3840.02		
80	QPSK	1	1	16.01	16.17	16.08	17.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725	3840	3945		
70	QPSK	1	1	16.00	16.13	16.07	17.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.07	16.15	16.11	17.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3951.02		
50	QPSK	1	1	16.05	16.16	16.14	17.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.99	16.12	16.13	17.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3716.01	3840	3970.02		
20	QPSK	1	1	16.02	16.08	16.05	17.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	15.97	16.11	16.03	17.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.06	16.07	16.11	17.0	0.0

Part270Q n77 PC2&PC3 Ant5 NSA DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				63334	63334	63334		
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	15.15				
100	PI2 BPSK	1	137	15.98			17.0	0.0
100	PI2 BPSK	1	271	15.25				
100	PI2 BPSK	135	0	15.87			17.0	0.0
100	PI2 BPSK	135	69	15.89			17.0	0.0
100	PI2 BPSK	135	138	15.74				
100	PI2 BPSK	270	0	15.83			17.0	0.0
100	QPSK	1	1	15.17				
100	QPSK	1	137	16.05			17.0	0.0
100	QPSK	1	271	15.31				
100	QPSK	135	0	15.94			17.0	0.0
100	QPSK	135	69	15.94			17.0	0.0
100	QPSK	135	138	15.87			17.0	0.0
100	QPSK	270	0	15.93			17.0	0.0
100	16QAM	1	1	15.24			17.0	0.0
100	64QAM	1	1	15.18			17.0	0.0
100	256QAM	1	1	15.47			17.0	0.0
Channel				630000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	15.97	16.00	15.91	17.0	0.0
Channel				630668	633334	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.99	15.99	15.97	17.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.95	15.91	16.00	17.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.01	16.03	15.99	17.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.00	15.97	16.01	17.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.94	15.95	16.02	17.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.94	15.95	16.01	17.0	0.0
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.52	3500.01	3542.52		
15	QPSK	1	1	15.96	16.03	15.99	17.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	16.02	16.01	15.98	17.0	0.0



Part270 n78 PC3 Ant5 NSA DSI6									
BW (MHz)	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)				3750	3750	3750			
100	PI2 BPSK	1	1		15.34				
100	PI2 BPSK	1	137		18.14		17.0	0.0	
100	PI2 BPSK	1	271		15.72				
100	PI2 BPSK	135	0		15.77		17.0	0.0	
100	PI2 BPSK	135	69		18.20		17.0	0.0	
100	PI2 BPSK	135	138		16.06				
100	PI2 BPSK	270	0		16.06		17.0	0.0	
100	QPSK	1	1		15.53				
100	QPSK	1	137		16.20		17.0	0.0	
100	QPSK	1	271		15.72				
100	QPSK	135	0		15.80		17.0	0.0	
100	QPSK	135	69		16.24		17.0	0.0	
100	QPSK	135	138		15.99				
100	QPSK	270	0		16.16		17.0	0.0	
100	16QAM	1	1		15.24		17.0	0.0	
100	64QAM	1	1		15.15		17.0	0.0	
100	256QAM	1	1		15.81		17.0	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		16.14	16.23	16.15	17.0	0.0
Channel				64934	65000	65066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		16.16	16.19	16.17	17.0	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		16.15	16.25	16.20	17.0	0.0
Channel				64866	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		16.18	16.21	16.17	17.0	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		16.22	16.20	16.17	17.0	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		16.16	16.28	16.22	17.0	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		16.12	16.25	16.17	17.0	0.0
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3795.02			
20	QPSK	1	1		16.14	16.20	16.24	17.0	0.0
Channel				64706	65000	65294	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.03	3750	3792.51			
15	QPSK	1	1		16.13	16.18	16.16	17.0	0.0
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		16.15	16.21	16.20	17.0	0.0

Part27Q n78 PC3 Ant5 NSA DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				63000	63334	63668			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		15.46				
100	PI2 BPSK	1	137		16.30		17.0	0.0	
100	PI2 BPSK	1	271		16.10				
100	PI2 BPSK	135	0		16.06		17.0	0.0	
100	PI2 BPSK	135	69		16.33		17.0	0.0	
100	PI2 BPSK	135	138		16.31				
100	PI2 BPSK	270	0		16.27		17.0	0.0	
100	QPSK	1	1		15.56				
100	QPSK	1	137		16.36		17.0	0.0	
100	QPSK	1	271		16.10				
100	QPSK	135	0		16.12		17.0	0.0	
100	QPSK	135	69		16.23		17.0	0.0	
100	QPSK	135	138		16.22				
100	QPSK	270	0		16.36		17.0	0.0	
100	16QAM	1	1		15.40		17.0	0.0	
100	64QAM	1	1		15.50		17.0	0.0	
100	256QAM	1	1		15.87		17.0	0.0	
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		16.18	16.36	16.30	17.0	0.0
Channel				62966	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		16.16	16.32	16.30	17.0	0.0
Channel				62934	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		16.20	16.29	16.27	17.0	0.0
Channel				62900	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		16.24	16.30	16.33	17.0	0.0
Channel				62868	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505			
50	QPSK	1	1		16.24	16.30	16.31	17.0	0.0
Channel				62834	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		16.22	16.31	16.30	17.0	0.0
Channel				62800	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		16.23	16.28	16.30	17.0	0.0
Channel				62834	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		16.19	16.27	16.33	17.0	0.0
Channel				62868	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		16.26	16.32	16.29	17.0	0.0
Channel				62900	63334	63618	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		16.23	16.34	16.31	17.0	0.0
Channel				62834	63334	63634	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		16.19	16.28	16.28	17.0	0.0



Ant 8 Full Power Handheld(Standalone)						Ant 8 Head (Simultaneous)		Ant 8 Head (Standalone) Bodyworn(Standalone)		Ant 8 Hotspot Bodyworn(Simultaneous)		Ant 8 Handheld(Simultaneous)		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.12	21.50	9.61	11.00	17.91	19.00	10.23	12.00	13.93	15.50	100.00
		6	2437	20.55	22.00	9.55	11.00	17.89	19.00	10.17	12.00	14.12	15.50	
		11	2462	20.06	21.50	9.06	11.00	17.90	19.00	10.16	12.00	14.11	15.50	
	802.11g 6Mbps	1	2412	17.13	18.50	Not Required	11.00	17.13	18.50	Not Required	12.00	Not Required	15.50	97.46
		6	2437	18.83	20.50		11.00	17.23	19.00		12.00		15.50	
		11	2462	16.10	17.50		11.00	16.10	17.50		12.00		15.50	
	802.11n-HT20 MCSO	1	2412	17.03	18.50	Not Required	11.00	Not Required	18.50	Not Required	12.00	Not Required	15.50	97.28
		6	2437	18.70	20.00		11.00		19.00		12.00		15.50	
		11	2462	15.79	17.50		11.00		17.50		12.00		15.50	
	802.11n-HT40 MCSO	3	2422	14.94	16.50	Not Required	11.00	Not Required	16.50	Not Required	12.00	Not Required	15.50	94.92
		6	2437	16.79	18.50		11.00		18.50		12.00		15.50	
		9	2452	14.21	15.50		11.00		15.50		12.00		15.50	

Ant 8 Full Power Handheld(Standalone)						Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Handheld(Simultaneous) Bodyworn(Standalone)		Ant 8 Hotspot Bodyworn(Simultaneous)		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.06	20.50	Not Required	19.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	97.46
		40	5200	18.93	20.50		19.00		12.00		14.50		8.50	
		44	5220	18.97	20.50		19.00		12.00		14.50		8.50	
		48	5240	19.09	20.50		19.00		12.00		14.50		8.50	
	802.11n-HT20 MCSO	36	5180	19.17	20.50	Not Required	19.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	97.28
		40	5200	19.13	20.50		19.00		12.00		14.50		8.50	
		44	5220	18.96	20.50		19.00		12.00		14.50		8.50	
	802.11n-HT40 MCSO	38	5190	17.15	18.50	17.15	18.50	Not Required	12.00	Not Required	14.50	Not Required	8.50	94.90
		46	5230	17.88	19.50	17.38	19.00		12.00		14.50		8.50	
	802.11ac-VHT20 MCSO	36	5180	17.69	19.00	Not Required	19.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	96.89
		40	5200	17.75	19.00		19.00		12.00		14.50		8.50	
		44	5220	17.62	19.00		19.00		12.00		14.50		8.50	
	802.11ac-VHT40 MCSO	38	5190	16.77	18.00	Not Required	18.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	95.14
		46	5230	16.58	18.00		18.00		12.00		14.50		8.50	
	802.11ac-VHT80 MCSO	42	5210	15.78	17.50	17.50	10.48	12.00	13.21	14.50	7.07	8.50	90.69	

Ant 8 Full Power Handheld(Standalone)						Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Bodyworn(Standalone)		Ant 8 Bodyworn(Simultaneous)		Ant 8 Handheld(Simultaneous)		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.06	20.50	Not Required	19.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	14.50	97.46	
		56	5280	19.05	20.50		19.00		12.00		14.50		8.50			
		60	5300	18.82	20.50		19.00		12.00		14.50		8.50			
		64	5320	18.89	20.50		19.00		12.00		14.50		8.50			
	802.11n-HT20 MCSO	52	5260	19.04	20.50	Not Required	19.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	14.50	97.28	
		56	5280	18.87	20.50		19.00		12.00		14.50		8.50			
		60	5300	18.80	20.50		19.00		12.00		14.50		8.50			
	802.11n-HT40 MCSO	54	5270	17.84	19.50	17.84	19.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	14.50	94.90	
		62	5310	17.11	18.50	17.11	18.50		12.00		14.50		8.50			
	802.11ac-VHT20 MCSO	52	5260	17.53	19.00	Not Required	19.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	14.50	96.89	
		56	5280	17.42	19.00		19.00		12.00		14.50		8.50			
		60	5300	17.35	19.00		19.00		12.00		14.50		8.50			
	802.11ac-VHT40 MCSO	54	5270	16.61	18.00	Not Required	18.00	Not Required	12.00	Not Required	14.50	Not Required	8.50	14.50	95.14	
		62	5310	16.38	18.00		18.00		12.00		14.50		8.50			
	802.11ac-VHT80 MCSO	58	5290	15.70	17.50	17.00	10.51	12.00	13.23	14.50	7.10	8.50	13.13	14.50	90.69	



Ant 8 Full Power Handheld(Standalone)						Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Bodyworn(Standalone)		Ant 8 Bodyworn(Simultaneous)		Ant 8 Handheld(Simultaneous)		Duty Cycle %			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit					
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.43	20.00	Not Required	18.50	Not Required	12.50	Not Required	17.50	Not Required	8.50	Not Required	14.00	97.46			
		116	5580	18.99	20.50		18.50		12.50		17.50		8.50		14.00				
		124	5620	18.89	20.50		18.50		12.50		17.50		8.50		14.00				
		132	5660	18.54	20.00		18.50		12.50		17.50		8.50		14.00				
		140	5700	18.76	20.50		18.50		12.50		17.50		8.50		14.00				
		144	5720	18.68	20.00		18.50		12.50		17.50		8.50		14.00				
	802.11n-HT20 MCS0	100	5500	16.96	18.00	Not Required	18.00	Not Required	12.50	Not Required	17.50	Not Required	8.50	Not Required	14.00	97.28			
		116	5580	18.94	20.50		18.50		12.50		17.50		8.50		14.00				
		124	5620	18.90	20.50		18.50		12.50		17.50		8.50		14.00				
		132	5660	18.51	20.00		18.50		12.50		17.50		8.50		14.00				
		140	5700	18.26	20.00		18.50		12.50		17.50		8.50		14.00				
		144	5720	18.62	20.00		18.50		12.50		17.50		8.50		14.00				
	802.11n-HT40 MCS0	102	5510	14.91	16.50	Not Required	14.91	Not Required	12.50	Not Required	16.50	Not Required	8.50	Not Required	14.00	94.90			
		110	5550	17.91	19.50		16.65		18.00		12.50		17.50		8.50		14.00		
		126	5630	18.27	19.50		17.01		18.50		12.50		17.50		8.50		14.00		
		134	5670	17.53	19.00		16.27		18.00		12.50		17.50		8.50		14.00		
	802.11ac-VHT20 MCS0	100	5500	16.46	18.00	Not Required	18.00	Not Required	12.50	Not Required	17.50	Not Required	8.50	Not Required	14.00	96.89			
		116	5580	17.53	19.00		18.50		12.50		17.50		8.50		14.00				
		124	5620	17.60	19.00		18.50		12.50		17.50		8.50		14.00				
		132	5660	17.51	19.00		18.50		12.50		17.50		8.50		14.00				
140		5700	17.34	19.00	18.50		12.50		17.50		8.50		14.00						
144		5720	17.49	19.00	18.50		12.50		17.50		8.50		14.00						
802.11ac-VHT40 MCS0	102	5510	14.78	16.50	Not Required	16.50	Not Required	12.50	Not Required	16.50	Not Required	8.50	Not Required	14.00	95.14				
	110	5550	16.65	18.00		18.00		12.50		17.50		8.50		14.00					
	126	5630	16.64	18.00		18.00		12.50		17.50		8.50		14.00					
	134	5670	16.74	18.00		18.00		12.50		17.50		8.50		14.00					
	142	5710	16.47	18.00		18.00		12.50		17.50		8.50		14.00					
802.11ac-VHT80 MCS0	106	5530	15.85	17.50	Not Required	17.50	Not Required	10.73	Not Required	12.50	Not Required	7.16	Not Required	12.29	90.69				
	122	5610	15.90	17.50		17.50		10.79		12.50		15.90		17.50		7.20	8.50	12.34	14.00
	138	5690	15.57	17.00		17.00		10.48		12.00		15.57		17.00		6.98	8.50	12.21	14.00

Ant 8 Full Power Handheld(Standalone)						Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Body worn(Standalone)		Ant 8 Body worn(Simultaneous)		Ant 8 Hotspot		Ant 8 Handheld(Simultaneous)		Duty Cycle %							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit									
5.8GHz WLAN	802.11a 6Mbps	149	5745	19.26	20.50	Not Required	20.00	Not Required	13.50	Not Required	18.50	Not Required	11.50	Not Required	11.00	Not Required	17.50	97.46							
		157	5785	19.16	20.50		20.00		13.50		18.50		11.50		11.00										
		165	5825	19.03	20.50		20.00		13.50		18.50		11.50		11.00										
	802.11n-HT20 MCS0	149	5745	19.24	20.50	Not Required	20.00	Not Required	13.50	Not Required	18.50	Not Required	11.50	Not Required	11.00	Not Required	17.50	97.28							
		157	5785	19.08	20.50		20.00		13.50		18.50		11.50		11.00										
		165	5825	18.99	20.50		20.00		13.50		18.50		11.50		11.00										
	802.11n-HT40 MCS0	151	5755	18.21	19.50	Not Required	18.21	Not Required	13.50	Not Required	17.05	Not Required	11.50	Not Required	11.00	Not Required	17.50	94.90							
		159	5795	18.35	20.00		18.35		20.00		13.50		17.19		18.50		11.50		11.00	17.50					
	802.11ac-VHT20 MCS0	149	5745	17.76	19.00	Not Required	19.00	Not Required	13.50	Not Required	18.50	Not Required	11.50	Not Required	11.00	Not Required	17.50	96.89							
		157	5785	17.73	19.00		19.00		13.50		18.50		11.50		11.00										
	802.11ac-VHT40 MCS0	151	5755	16.61	18.00	Not Required	18.00	Not Required	13.50	Not Required	18.00	Not Required	11.50	Not Required	11.00	Not Required	17.50	95.14							
		159	5795	16.82	18.00		18.00		13.50		18.00		11.50		11.00										
802.11ac-VHT80 MCS0	155	5775	15.94	17.50	Not Required	17.50	Not Required	12.13	Not Required	13.50	Not Required	17.50	Not Required	9.84	Not Required	11.50	Not Required	9.42	Not Required	11.00	Not Required	15.94	Not Required	17.50	90.69

BT BR/EDR Ant8

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.56	10.11	10.03
	CH 39	2441	13.43	10.50	10.57
	CH 78	2480	12.84	10.75	10.71
Tune-up Limit			14.50	11.50	11.50

BLE 1M Ant8

Mode	Channel	Frequency (MHz)	Average power (dBm)
			LE
	CH 19	2440	4.65
	CH 39	2480	3.65
Tune-up Limit			5.00

BLE 2M Ant8

Mode	Channel	Frequency (MHz)	Average power (dBm)
			LE
	CH 19	2440	4.42
	CH 39	2480	3.94
Tune-up Limit			5.00