



n30_Ant1									
DIV (MHz)	Modulation	RS Size	RS Offset	Power Level (mW)	Power Spectral Density (dBm/Hz)	Power Spectral Density (dBm/5MHz)	Time-up time (min)	MFR (dB)	
Channel									
30	PSS-SSB	1	1	21.84	21.84	21.84			
30	PSS-SSB	1	26	21.84	21.84	21.84	23.5	0.0	
30	PSS-SSB	1	31	21.84	21.84	21.84			
30	PSS-SSB	25	14	21.84	21.84	21.84	23.5	0.0	
30	PSS-SSB	25	27	21.84	21.84	21.84			
30	PSS-SSB	50	1	21.84	21.84	21.84	23.5	0.0	
30	CPSS	1	1	21.84	21.84	21.84			
30	CPSS	1	26	21.84	21.84	21.84	23.5	0.0	
30	CPSS	1	31	21.84	21.84	21.84			
30	CPSS	25	14	21.84	21.84	21.84	23.5	1.0	
30	CPSS	25	27	21.84	21.84	21.84			
30	CPSS	50	1	21.84	21.84	21.84	23.5	1.0	
30	SSB-DM	1	1	21.84	21.84	21.84			
30	SSB-DM	1	1	21.84	21.84	21.84	23.5	1.0	
Channel									
30	PSS-SSB	1	1	21.84	21.84	21.84	23.5	0.0	

n66_Ant1									
DIV (MHz)	Modulation	RS Size	RS Offset	Power Level (mW)	Power Spectral Density (dBm/Hz)	Power Spectral Density (dBm/5MHz)	Time-up time (min)	MFR (dB)	
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00			
30	PSS-SSB	1	30	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	1	150	24.00	24.00	24.00			
30	PSS-SSB	80	0	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	80	40	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	80	80	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	160	0	24.00	24.00	24.00	26.0	0.0	
30	CPSS	1	1	24.00	24.00	24.00			
30	CPSS	1	30	24.00	24.00	24.00	26.0	0.0	
30	CPSS	1	150	24.00	24.00	24.00			
30	CPSS	80	0	24.00	24.00	24.00	26.0	1.0	
30	CPSS	80	40	24.00	24.00	24.00	26.0	1.0	
30	CPSS	80	80	24.00	24.00	24.00	26.0	1.0	
30	CPSS	160	0	24.00	24.00	24.00	26.0	1.0	
30	SSB-DM	1	1	24.00	24.00	24.00			
30	SSB-DM	1	1	24.00	24.00	24.00	26.0	1.0	
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00	26.0	0.0	
Frequency Mask									
30	PSS-SSB	1	1	24.00	24.00	24.00			
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00	26.0	0.0	
Frequency Mask									
30	PSS-SSB	1	1	24.00	24.00	24.00			
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00	26.0	0.0	
Frequency Mask									
30	PSS-SSB	1	1	24.00	24.00	24.00			

n66_Ant2									
DIV (MHz)	Modulation	RS Size	RS Offset	Power Level (mW)	Power Spectral Density (dBm/Hz)	Power Spectral Density (dBm/5MHz)	Time-up time (min)	MFR (dB)	
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00			
30	PSS-SSB	1	30	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	1	150	24.00	24.00	24.00			
30	PSS-SSB	80	0	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	80	40	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	80	80	24.00	24.00	24.00	26.0	0.0	
30	PSS-SSB	160	0	24.00	24.00	24.00	26.0	0.0	
30	CPSS	1	1	24.00	24.00	24.00			
30	CPSS	1	30	24.00	24.00	24.00	26.0	0.0	
30	CPSS	1	150	24.00	24.00	24.00			
30	CPSS	80	0	24.00	24.00	24.00	26.0	1.0	
30	CPSS	80	40	24.00	24.00	24.00	26.0	1.0	
30	CPSS	80	80	24.00	24.00	24.00	26.0	1.0	
30	CPSS	160	0	24.00	24.00	24.00	26.0	1.0	
30	SSB-DM	1	1	24.00	24.00	24.00			
30	SSB-DM	1	1	24.00	24.00	24.00	26.0	1.0	
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00	26.0	0.0	
Frequency Mask									
30	PSS-SSB	1	1	24.00	24.00	24.00			
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00	26.0	0.0	
Frequency Mask									
30	PSS-SSB	1	1	24.00	24.00	24.00			
Channel									
30	PSS-SSB	1	1	24.00	24.00	24.00	26.0	0.0	
Frequency Mask									
30	PSS-SSB	1	1	24.00	24.00	24.00			



n41_FCC_Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50900	51898	52900			
100	PV2 BPSK	1	1	24.82	24.85	24.79			
100	PV2 BPSK	1	137	24.77	24.79	24.80	26.0	0.0	
100	PV2 BPSK	1	271	24.76	24.78	24.75			
100	PV2 BPSK	138	0	24.03	24.14	24.11	26.5	0.5	
100	PV2 BPSK	138	69	24.70	24.71	24.69	26.0	0.0	
100	PV2 BPSK	138	138	24.22	24.24	24.19	26.5	0.5	
100	PV2 BPSK	270	0	24.12	24.18	24.14			
100	QPSK	1	1	24.81	24.83	24.76			
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0	
100	QPSK	1	271	24.71	24.81	24.80			
100	QPSK	138	0	24.74	24.76	24.69			
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0	
100	QPSK	138	138	24.72	24.76	24.74	26.0	1.0	
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0	
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0	
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5	
100	16QAM	1	1	19.90	20.03	19.94	21.5	4.5	
Channel									
Frequency (MHz)				50800	51898	52998	Tune-up limit (dBm)	MPR (dB)	
50	PV2 BPSK	1	1	24.41	24.42	24.41	25.0	0.0	
Channel									
Frequency (MHz)				50704	51898	52998	Tune-up limit (dBm)	MPR (dB)	
80	PV2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0	
Channel									
Frequency (MHz)				50602	51898	53100	Tune-up limit (dBm)	MPR (dB)	
70	PV2 BPSK	1	1	24.03	24.79	24.54	26.0	0.0	
Channel									
Frequency (MHz)				50500	51898	53196	Tune-up limit (dBm)	MPR (dB)	
60	PV2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0	
Channel									
Frequency (MHz)				50404	51898	53298	Tune-up limit (dBm)	MPR (dB)	
50	PV2 BPSK	1	1	24.85	24.76	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50302	51898	53400	Tune-up limit (dBm)	MPR (dB)	
40	PV2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0	
Channel									
Frequency (MHz)				50200	51898	53496	Tune-up limit (dBm)	MPR (dB)	
30	PV2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50104	51898	53598	Tune-up limit (dBm)	MPR (dB)	
20	PV2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0	

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50900	51898	52900			
100	PV2 BPSK	1	1	24.82	24.85	24.79			
100	PV2 BPSK	1	137	24.77	24.79	24.80	26.0	0.0	
100	PV2 BPSK	1	271	24.76	24.78	24.75			
100	PV2 BPSK	138	0	24.03	24.14	24.11	26.5	0.5	
100	PV2 BPSK	138	69	24.70	24.71	24.69	26.0	0.0	
100	PV2 BPSK	138	138	24.22	24.24	24.19	26.5	0.5	
100	PV2 BPSK	270	0	24.12	24.18	24.14			
100	QPSK	1	1	24.81	24.83	24.76			
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0	
100	QPSK	1	271	24.71	24.81	24.80			
100	QPSK	138	0	24.74	24.76	24.69			
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0	
100	QPSK	138	138	24.72	24.76	24.74	26.0	1.0	
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0	
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0	
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5	
100	16QAM	1	1	19.90	20.03	19.94	21.5	4.5	
Channel									
Frequency (MHz)				50800	51898	52998	Tune-up limit (dBm)	MPR (dB)	
90	PV2 BPSK	1	1	24.67	24.75	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50704	51898	52998	Tune-up limit (dBm)	MPR (dB)	
80	PV2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0	
Channel									
Frequency (MHz)				50602	51898	53100	Tune-up limit (dBm)	MPR (dB)	
70	PV2 BPSK	1	1	24.03	24.79	24.54	26.0	0.0	
Channel									
Frequency (MHz)				50500	51898	53196	Tune-up limit (dBm)	MPR (dB)	
60	PV2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0	
Channel									
Frequency (MHz)				50404	51898	53298	Tune-up limit (dBm)	MPR (dB)	
50	PV2 BPSK	1	1	24.85	24.76	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50302	51898	53400	Tune-up limit (dBm)	MPR (dB)	
40	PV2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0	
Channel									
Frequency (MHz)				50200	51898	53496	Tune-up limit (dBm)	MPR (dB)	
30	PV2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50104	51898	53598	Tune-up limit (dBm)	MPR (dB)	
20	PV2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0	



Par270 n77_FCC_Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				648000	650000	652000			
Frequency (MHz)				3790	3840	3900			
100	P1/2 BPSK	1	1	24.21	24.32	24.29			
100	P1/2 BPSK	1	137	24.14	24.24	24.20			
100	P1/2 BPSK	1	271	24.16	24.22	24.18			
100	P1/2 BPSK	135	0	23.89	23.77	23.74	26.0	0.0	
100	P1/2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0	
100	P1/2 BPSK	135	138	23.57	23.57	23.57	25.5	0.5	
100	P1/2 BPSK	270	0	23.70	23.72	23.66			
100	QPSK	1	1	24.33	24.36	24.30			
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0	
100	QPSK	1	271	24.10	24.15	24.06			
100	QPSK	135	0	24.12	24.23	24.22			
100	QPSK	135	69	24.20	24.25	24.20	26.0	0.0	
100	QPSK	135	138	24.11	24.16	24.09			
100	QPSK	270	0	23.27	23.26	23.24	25.0	1.0	
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0	
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5	
100	256QAM	1	1	19.95	20.06	19.99	21.5	4.5	
Channel				648334	650000	652666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3743.01	3743.00	3743.00			
80	P1/2 BPSK	1	1	24.12	24.18	24.06	25.0	0.0	
Channel				648668	650000	653332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3743.02	3743.00	3743.00			
60	P1/2 BPSK	1	1	24.09	24.15	24.07	25.0	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3740	3760			
40	P1/2 BPSK	1	1	24.11	24.16	24.11	24.0	0.0	
Channel				647668	650000	654332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3718.02	3743.00	3768.00			
30	P1/2 BPSK	1	1	24.09	24.16	24.10	25.0	0.0	
Channel				647334	650000	654666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3718.01	3740	3768.00			
20	P1/2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0	

Par27Q n77_FCC_Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633332	636000			
Frequency (MHz)				3499.98					
100	P1/2 BPSK	1	1	24.42					
100	P1/2 BPSK	1	137	24.41			26.0	0.0	
100	P1/2 BPSK	1	271	24.45					
100	P1/2 BPSK	135	0	23.93			25.5	0.5	
100	P1/2 BPSK	135	69	24.31			25.0	0.0	
100	P1/2 BPSK	135	138	24.15			25.5	0.5	
100	P1/2 BPSK	270	0	24.01					
100	QPSK	1	1	24.33					
100	QPSK	1	137	24.28			26.0	0.0	
100	QPSK	1	271	24.32					
100	QPSK	135	0	24.14					
100	QPSK	135	69	24.39			26.0	0.0	
100	QPSK	135	138	24.26					
100	QPSK	270	0	23.62			25.0	1.0	
100	16QAM	1	1	23.56			25.0	1.0	
100	64QAM	1	1	21.81			23.5	2.5	
100	256QAM	1	1	19.83			21.5	4.5	
Channel				632068	633332	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3499.92	3499.98	3500.00			
80	P1/2 BPSK	1	1	24.29	24.29	24.19	25.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3499.98	3499.98	3500.00			
60	P1/2 BPSK	1	1	24.53	24.31	24.19	25.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	P1/2 BPSK	1	1	24.29	24.24	24.29	25.0	0.0	
Channel				631000	633332	636666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3499.98	3534.99			
30	P1/2 BPSK	1	1	24.21	24.23	24.21	25.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3469.00	3499.98	3504			
20	P1/2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0	



Par270 n77_FCC_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				656000	666000	666000		
100	PI2 BPSK	1	1	24.21	24.32	24.29		
100	PI2 BPSK	1	197	24.14	24.24	24.26	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	135	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	135	138	23.57	23.57	23.57	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.38	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	135	138	24.11	24.16	24.09		
100	QPSK	270	0	23.57	23.58	23.54	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0
100	16QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel								
Frequency (MHz)				649334	656000	662666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.02	3470	2423.98	(dBm)	
80	PI2 BPSK	1	1	24.12	24.18	24.05	26.0	0.0
Channel								
Frequency (MHz)				648668	656000	663332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.02	3470	2423.98	(dBm)	
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740	3470	3090	(dBm)	
40	PI2 BPSK	1	1	24.11	24.15	24.11	26.0	0.0
Channel								
Frequency (MHz)				647668	656000	664332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.02	3460.00	2824.98	(dBm)	
30	PI2 BPSK	1	1	24.10	24.15	24.10	26.0	0.0
Channel								
Frequency (MHz)				647334	656000	664666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3440	2823.99	(dBm)	
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par27Q n77_FCC_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633332		649998		
100	PI2 BPSK	1	1	24.42				
100	PI2 BPSK	1	197	24.41			26.0	0.0
100	PI2 BPSK	1	271	24.45				
100	PI2 BPSK	135	0	23.93			25.5	0.5
100	PI2 BPSK	135	69	24.31			26.0	0.0
100	PI2 BPSK	135	138	24.15			25.5	0.5
100	PI2 BPSK	270	0	24.01				
100	QPSK	1	1	24.53				
100	QPSK	1	137	24.28			26.0	0.0
100	QPSK	1	271	24.32				
100	QPSK	135	0	24.14				
100	QPSK	135	69	24.39			26.0	0.0
100	QPSK	135	138	24.28				
100	QPSK	270	0	23.62			25.0	1.0
100	16QAM	1	1	23.96			25.0	1.0
100	16QAM	1	1	21.81			23.5	2.5
100	256QAM	1	1	19.83			21.5	4.5
Channel								
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3460.00	3470	(dBm)	
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460	3460.00	3470.99	(dBm)	
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3460.00	3023.98	(dBm)	
40	PI2 BPSK	1	1	24.23	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)				631000	633332	636666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460	3460.00	3324.99	(dBm)	
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)				630668	633332	638000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3460.00	3040	(dBm)	
20	PI2 BPSK	1	1	24.21	24.23	24.22	26.0	0.0



State 6 Power

Band 2_Ant 1										
MSI (MHz)	Modulation	MS Size	MS Offset	Channel ID	Channel Name	Power Class	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)	Power Class (dBm)
20	QPSK	1.4	0	20	20	1	20	1	20	1
20	QPSK	1.4	0	21	21	1	21	1	21	1
20	QPSK	1.4	0	22	22	1	22	1	22	1
20	QPSK	1.4	0	23	23	1	23	1	23	1
20	QPSK	1.4	0	24	24	2	24	2	24	2
20	QPSK	1.4	0	25	25	2	25	2	25	2
20	QPSK	1.4	0	26	26	2	26	2	26	2
20	QPSK	1.4	0	27	27	2	27	2	27	2
20	QPSK	1.4	0	28	28	2	28	2	28	2
20	QPSK	1.4	0	29	29	2	29	2	29	2
20	QPSK	1.4	0	30	30	2	30	2	30	2
20	QPSK	1.4	0	31	31	2	31	2	31	2
20	QPSK	1.4	0	32	32	2	32	2	32	2
20	QPSK	1.4	0	33	33	2	33	2	33	2
20	QPSK	1.4	0	34	34	2	34	2	34	2
20	QPSK	1.4	0	35	35	2	35	2	35	2
20	QPSK	1.4	0	36	36	2	36	2	36	2
20	QPSK	1.4	0	37	37	2	37	2	37	2
20	QPSK	1.4	0	38	38	2	38	2	38	2
20	QPSK	1.4	0	39	39	2	39	2	39	2
20	QPSK	1.4	0	40	40	2	40	2	40	2
20	QPSK	1.4	0	41	41	2	41	2	41	2
20	QPSK	1.4	0	42	42	2	42	2	42	2
20	QPSK	1.4	0	43	43	2	43	2	43	2
20	QPSK	1.4	0	44	44	2	44	2	44	2
20	QPSK	1.4	0	45	45	2	45	2	45	2
20	QPSK	1.4	0	46	46	2	46	2	46	2
20	QPSK	1.4	0	47	47	2	47	2	47	2
20	QPSK	1.4	0	48	48	2	48	2	48	2
20	QPSK	1.4	0	49	49	2	49	2	49	2
20	QPSK	1.4	0	50	50	2	50	2	50	2
20	QPSK	1.4	0	51	51	2	51	2	51	2
20	QPSK	1.4	0	52	52	2	52	2	52	2
20	QPSK	1.4	0	53	53	2	53	2	53	2
20	QPSK	1.4	0	54	54	2	54	2	54	2
20	QPSK	1.4	0	55	55	2	55	2	55	2
20	QPSK	1.4	0	56	56	2	56	2	56	2
20	QPSK	1.4	0	57	57	2	57	2	57	2
20	QPSK	1.4	0	58	58	2	58	2	58	2
20	QPSK	1.4	0	59	59	2	59	2	59	2
20	QPSK	1.4	0	60	60	2	60	2	60	2
20	QPSK	1.4	0	61	61	2	61	2	61	2
20	QPSK	1.4	0	62	62	2	62	2	62	2
20	QPSK	1.4	0	63	63	2	63	2	63	2
20	QPSK	1.4	0	64	64	2	64	2	64	2
20	QPSK	1.4	0	65	65	2	65	2	65	2
20	QPSK	1.4	0	66	66	2	66	2	66	2
20	QPSK	1.4	0	67	67	2	67	2	67	2
20	QPSK	1.4	0	68	68	2	68	2	68	2
20	QPSK	1.4	0	69	69	2	69	2	69	2
20	QPSK	1.4	0	70	70	2	70	2	70	2
20	QPSK	1.4	0	71	71	2	71	2	71	2
20	QPSK	1.4	0	72	72	2	72	2	72	2
20	QPSK	1.4	0	73	73	2	73	2	73	2
20	QPSK	1.4	0	74	74	2	74	2	74	2
20	QPSK	1.4	0	75	75	2	75	2	75	2
20	QPSK	1.4	0	76	76	2	76	2	76	2
20	QPSK	1.4	0	77	77	2	77	2	77	2
20	QPSK	1.4	0	78	78	2	78	2	78	2
20	QPSK	1.4	0	79	79	2	79	2	79	2
20	QPSK	1.4	0	80	80	2	80	2	80	2
20	QPSK	1.4	0	81	81	2	81	2	81	2
20	QPSK	1.4	0	82	82	2	82	2	82	2
20	QPSK	1.4	0	83	83	2	83	2	83	2
20	QPSK	1.4	0	84	84	2	84	2	84	2
20	QPSK	1.4	0	85	85	2	85	2	85	2
20	QPSK	1.4	0	86	86	2	86	2	86	2
20	QPSK	1.4	0	87	87	2	87	2	87	2
20	QPSK	1.4	0	88	88	2	88	2	88	2
20	QPSK	1.4	0	89	89	2	89	2	89	2
20	QPSK	1.4	0	90	90	2	90	2	90	2
20	QPSK	1.4	0	91	91	2	91	2	91	2
20	QPSK	1.4	0	92	92	2	92	2	92	2
20	QPSK	1.4	0	93	93	2	93	2	93	2
20	QPSK	1.4	0	94	94	2	94	2	94	2
20	QPSK	1.4	0	95	95	2	95	2	95	2
20	QPSK	1.4	0	96	96	2	96	2	96	2
20	QPSK	1.4	0	97	97	2	97	2	97	2
20	QPSK	1.4	0	98	98	2	98	2	98	2
20	QPSK	1.4	0	99	99	2	99	2	99	2
20	QPSK	1.4	0	100	100	2	100	2	100	2
20	QPSK	1.4	0	101	101	2	101	2	101	2
20	QPSK	1.4	0	102	102	2	102	2	102	2
20	QPSK	1.4	0	103	103	2	103	2	103	2
20	QPSK	1.4	0	104	104	2	104	2	104	2
20	QPSK	1.4	0	105	105	2	105	2	105	2
20	QPSK	1.4	0	106	106	2	106	2	106	2
20	QPSK	1.4	0	107	107	2	107	2	107	2
20	QPSK	1.4	0	108	108	2	108	2	108	2
20	QPSK	1.4	0	109	109	2	109	2	109	2
20	QPSK	1.4	0	110	110	2	110	2	110	2
20	QPSK	1.4	0	111	111	2	111	2	111	2
20	QPSK	1.4	0	112	112	2	112	2	112	2
20	QPSK	1.4	0	113	113	2	113	2	113	2
20	QPSK	1.4	0	114	114	2	114	2	114	2
20	QPSK	1.4	0	115	115	2	115	2	115	2
20	QPSK	1.4	0	116	116	2	116	2	116	2
20	QPSK	1.4	0	117	117	2	117	2	117	2
20	QPSK	1.4	0	118	118	2	118	2	118	2
20	QPSK	1.4	0	119	119	2	119	2	119	2
20	QPSK	1.4	0	120	120	2	120	2	120	2
20	QPSK	1.4	0	121	121	2	121	2	121	2
20	QPSK	1.4	0	122	122	2	122	2	122	2
20	QPSK	1.4	0	123	123	2	123	2	123	2
20	QPSK	1.4	0	124	124	2	124	2	124	2
20	QPSK	1.4	0	125	125	2	125	2	125	2
20	QPSK	1.4	0	126	126	2	126	2	126	2
20	QPSK	1.4	0	127	127	2	127	2	127	2
20	QPSK	1.4	0	128	128	2	128	2	128	2
20	QPSK	1.4	0	129	129	2	129	2	129	2
20	QPSK	1.4	0	130	130	2	130	2	130	2
20	QPSK	1.4	0	131	131	2	131	2	131	2
20	QPSK	1.4	0	132	132	2	132	2	132	2
20	QPSK	1.4	0	133	133	2	133	2	133	2
20	QPSK	1.4	0	134	134	2	134	2	134	2
20	QPSK	1.4	0	135	135	2	135	2	135	2
20	QPSK	1.4	0	136	136	2	136	2	136	2
20	QPSK	1.4	0	137	137	2	137	2	137	2
20	QPSK	1.4	0	138	138	2	138	2	138	2
20	QPSK	1.4	0	139	139	2	139	2	139	2
20	QPSK	1.4	0	140	140	2	140	2	140	2
20	QPSK	1.4	0	141	141	2	141	2	141	2
20	QPSK	1.4	0	142	142	2	142	2	142	2
20	QPSK	1.4	0	143	143	2	143	2	143	2
20	QPSK	1.4	0	144	144	2	144	2	144	2
20	QPSK	1.4	0	145	145	2	145	2	145	2
20	QPSK	1.4	0	146	146	2	146	2	146	2
20	QPSK	1.4	0	147	147	2	147	2	147	2
20	QPSK	1.4	0	148	148	2	148	2	148	2
20	QPSK	1.4	0	149	149	2	149	2	149	2
20	QPSK	1.4	0	150	150	2	150	2	150	2
20	QPSK	1.4	0	151	151	2	151	2	151	2
20	QPSK	1.4	0	152	152	2	152	2	152	2
20	QPSK	1.4	0	153	153	2	153	2	153	2
20	QPSK	1.4	0	154	154	2	154	2	154	2
20	QPSK	1.4	0	155	155	2	155	2	155	2
20	QPSK	1.4	0	156	156	2	156	2	156	2
20	QPSK	1.4	0	157	157	2	157	2	157	2
20	QPSK	1.4	0	158	158	2	158	2	158	2
20	QPSK	1.4	0	159	159	2	159	2	159	2
20	QPSK	1.4	0	160	160	2	160	2	160	2
20	QPSK	1.4	0	161	161	2	161	2	161	2
20	QPSK	1.4	0	162	162	2	162	2	162	2
20	QPSK	1.4	0	163	163	2	163	2	163	2
20	QPSK	1.4	0	164	164	2	164	2	164	2
20	QPSK	1.4	0	165	165	2	165	2	165	2
20	QPSK	1.4	0	166	166	2	166	2	166	2
20	QPSK	1.4	0	167	167	2	167	2	167	2
20	QPSK	1.4	0	168	168	2	168	2	168	2
20	QPSK	1.4	0	169	169	2	169	2	169	2
20	QPSK	1.4								



n5_Ant0										
SR-Index	Modulation	SR-Rate	SR-Order	Power (dBm)	Power (dBm)	Power (dBm)	Throughput (Mbps)	SR-Index	Modulation	SR-Rate
0	QPSK	1	0	10	10	10	10.0	0.0	QPSK	1
0	QPSK	2	0	10	10	10	10.0	0.0	QPSK	2
0	QPSK	4	0	10	10	10	10.0	0.0	QPSK	4
0	QPSK	8	0	10	10	10	10.0	0.0	QPSK	8
0	QPSK	16	0	10	10	10	10.0	0.0	QPSK	16
0	QPSK	32	0	10	10	10	10.0	0.0	QPSK	32
0	QPSK	64	0	10	10	10	10.0	0.0	QPSK	64
0	QPSK	128	0	10	10	10	10.0	0.0	QPSK	128
0	QPSK	256	0	10	10	10	10.0	0.0	QPSK	256
0	QPSK	512	0	10	10	10	10.0	0.0	QPSK	512
0	QPSK	1024	0	10	10	10	10.0	0.0	QPSK	1024
0	QPSK	2048	0	10	10	10	10.0	0.0	QPSK	2048
0	QPSK	4096	0	10	10	10	10.0	0.0	QPSK	4096
0	QPSK	8192	0	10	10	10	10.0	0.0	QPSK	8192
0	QPSK	16384	0	10	10	10	10.0	0.0	QPSK	16384
0	QPSK	32768	0	10	10	10	10.0	0.0	QPSK	32768
0	QPSK	65536	0	10	10	10	10.0	0.0	QPSK	65536
0	QPSK	131072	0	10	10	10	10.0	0.0	QPSK	131072
0	QPSK	262144	0	10	10	10	10.0	0.0	QPSK	262144
0	QPSK	524288	0	10	10	10	10.0	0.0	QPSK	524288
0	QPSK	1048576	0	10	10	10	10.0	0.0	QPSK	1048576
0	QPSK	2097152	0	10	10	10	10.0	0.0	QPSK	2097152
0	QPSK	4194304	0	10	10	10	10.0	0.0	QPSK	4194304
0	QPSK	8388608	0	10	10	10	10.0	0.0	QPSK	8388608
0	QPSK	16777216	0	10	10	10	10.0	0.0	QPSK	16777216
0	QPSK	33554432	0	10	10	10	10.0	0.0	QPSK	33554432
0	QPSK	67108864	0	10	10	10	10.0	0.0	QPSK	67108864
0	QPSK	134217728	0	10	10	10	10.0	0.0	QPSK	134217728
0	QPSK	268435456	0	10	10	10	10.0	0.0	QPSK	268435456
0	QPSK	536870912	0	10	10	10	10.0	0.0	QPSK	536870912
0	QPSK	1073741824	0	10	10	10	10.0	0.0	QPSK	1073741824
0	QPSK	2147483648	0	10	10	10	10.0	0.0	QPSK	2147483648
0	QPSK	4294967296	0	10	10	10	10.0	0.0	QPSK	4294967296
0	QPSK	8589934592	0	10	10	10	10.0	0.0	QPSK	8589934592
0	QPSK	17179869184	0	10	10	10	10.0	0.0	QPSK	17179869184
0	QPSK	34359738368	0	10	10	10	10.0	0.0	QPSK	34359738368
0	QPSK	68719476736	0	10	10	10	10.0	0.0	QPSK	68719476736
0	QPSK	137438953472	0	10	10	10	10.0	0.0	QPSK	137438953472
0	QPSK	274877906944	0	10	10	10	10.0	0.0	QPSK	274877906944
0	QPSK	549755813888	0	10	10	10	10.0	0.0	QPSK	549755813888
0	QPSK	1099511627776	0	10	10	10	10.0	0.0	QPSK	1099511627776
0	QPSK	2199023255552	0	10	10	10	10.0	0.0	QPSK	2199023255552
0	QPSK	4398046511104	0	10	10	10	10.0	0.0	QPSK	4398046511104
0	QPSK	8796093022208	0	10	10	10	10.0	0.0	QPSK	8796093022208
0	QPSK	17592186044416	0	10	10	10	10.0	0.0	QPSK	17592186044416
0	QPSK	35184372088832	0	10	10	10	10.0	0.0	QPSK	35184372088832
0	QPSK	70368744177664	0	10	10	10	10.0	0.0	QPSK	70368744177664
0	QPSK	140737488355328	0	10	10	10	10.0	0.0	QPSK	140737488355328
0	QPSK	281474976710656	0	10	10	10	10.0	0.0	QPSK	281474976710656
0	QPSK	562949953421312	0	10	10	10	10.0	0.0	QPSK	562949953421312
0	QPSK	1125899906842624	0	10	10	10	10.0	0.0	QPSK	1125899906842624
0	QPSK	2251799813685248	0	10	10	10	10.0	0.0	QPSK	2251799813685248
0	QPSK	4503599627370496	0	10	10	10	10.0	0.0	QPSK	4503599627370496
0	QPSK	9007199254740992	0	10	10	10	10.0	0.0	QPSK	9007199254740992
0	QPSK	18014398509481984	0	10	10	10	10.0	0.0	QPSK	18014398509481984
0	QPSK	36028797018963968	0	10	10	10	10.0	0.0	QPSK	36028797018963968
0	QPSK	72057594037927936	0	10	10	10	10.0	0.0	QPSK	72057594037927936
0	QPSK	144115188075855872	0	10	10	10	10.0	0.0	QPSK	144115188075855872
0	QPSK	288230376151711744	0	10	10	10	10.0	0.0	QPSK	288230376151711744
0	QPSK	576460752303423488	0	10	10	10	10.0	0.0	QPSK	576460752303423488
0	QPSK	1152921504606846976	0	10	10	10	10.0	0.0	QPSK	1152921504606846976
0	QPSK	2305843009213693952	0	10	10	10	10.0	0.0	QPSK	2305843009213693952
0	QPSK	4611686018427387904	0	10	10	10	10.0	0.0	QPSK	4611686018427387904
0	QPSK	9223372036854775808	0	10	10	10	10.0	0.0	QPSK	9223372036854775808
0	QPSK	18446744073709551616	0	10	10	10	10.0	0.0	QPSK	18446744073709551616
0	QPSK	36893488147419103232	0	10	10	10	10.0	0.0	QPSK	36893488147419103232
0	QPSK	73786976294838206464	0	10	10	10	10.0	0.0	QPSK	73786976294838206464
0	QPSK	147573952589676412928	0	10	10	10	10.0	0.0	QPSK	147573952589676412928
0	QPSK	295147905179352825856	0	10	10	10	10.0	0.0	QPSK	295147905179352825856
0	QPSK	590295810358705651712	0	10	10	10	10.0	0.0	QPSK	590295810358705651712
0	QPSK	1180591620717411303424	0	10	10	10	10.0	0.0	QPSK	1180591620717411303424
0	QPSK	2361183241434822606848	0	10	10	10	10.0	0.0	QPSK	2361183241434822606848
0	QPSK	4722366482869645213696	0	10	10	10	10.0	0.0	QPSK	4722366482869645213696
0	QPSK	9444732965739290427392	0	10	10	10	10.0	0.0	QPSK	9444732965739290427392
0	QPSK	18889465931478580854784	0	10	10	10	10.0	0.0	QPSK	18889465931478580854784
0	QPSK	37778931862957161709568	0	10	10	10	10.0	0.0	QPSK	37778931862957161709568
0	QPSK	75557863725914323419136	0	10	10	10	10.0	0.0	QPSK	75557863725914323419136
0	QPSK	151115727451828646838272	0	10	10	10	10.0	0.0	QPSK	151115727451828646838272
0	QPSK	302231454903657293676544	0	10	10	10	10.0	0.0	QPSK	302231454903657293676544
0	QPSK	604462909807314587353088	0	10	10	10	10.0	0.0	QPSK	604462909807314587353088
0	QPSK	1208925819614629174706176	0	10	10	10	10.0	0.0	QPSK	1208925819614629174706176
0	QPSK	2417851639229258349412352	0	10	10	10	10.0	0.0	QPSK	2417851639229258349412352
0	QPSK	4835703278458516698824704	0	10	10	10	10.0	0.0	QPSK	4835703278458516698824704
0	QPSK	9671406556917033397649408	0	10	10	10	10.0	0.0	QPSK	9671406556917033397649408
0	QPSK	19342813113834066795298816	0	10	10	10	10.0	0.0	QPSK	19342813113834066795298816
0	QPSK	38685626227668133590597632	0	10	10	10	10.0	0.0	QPSK	38685626227668133590597632
0	QPSK	77371252455336267181195264	0	10	10	10	10.0	0.0	QPSK	77371252455336267181195264
0	QPSK	154742504910672534362390528	0	10	10	10	10.0	0.0	QPSK	154742504910672534362390528
0	QPSK	309485009821345068724781056	0	10	10	10	10.0	0.0	QPSK	309485009821345068724781056
0	QPSK	618970019642690137449562112	0	10	10	10	10.0	0.0	QPSK	618970019642690137449562112
0	QPSK	1237940039285380274899124224	0	10	10	10	10.0	0.0	QPSK	1237940039285380274899124224
0	QPSK	2475880078570760549798248448	0	10	10	10	10.0	0.0	QPSK	2475880078570760549798248448
0	QPSK	4951760157141521099596496896	0	10	10	10	10.0	0.0	QPSK	4951760157141521099596496896
0	QPSK	9903520314283042199192993792	0	10	10	10	10.0	0.0	QPSK	9903520314283042199192993792
0	QPSK	19807040628566084398385987584	0	10	10	10	10.0	0.0	QPSK	19807040628566084398385987584
0	QPSK	39614081257132168796771975168	0	10	10	10	10.0	0.0	QPSK	39614081257132168796771975168
0	QPSK	79228162514264337593543950336	0	10	10	10	10.0	0.0	QPSK	79228162514264337593543950336
0	QPSK	158456325028528675187087900672	0	10	10	10	10.0	0.0	QPSK	158456325028528675187087900672
0	QPSK	316912650057057350374175801344	0	10	10	10	10.0	0.0	QPSK	316912650057057350374175801344
0	QPSK	633825300114114700748351602688	0	10	10	10	10.0	0.0	QPSK	633825300114114700748351602688
0	QPSK	1267650600228229401496703205376	0	10	10	10	10.0	0.0	QPSK	1267650600228229401496703205376
0	QPSK	2535301200456458802993406410752	0	10	10	10	10.0	0.0	QPSK	2535301200456458802993406410752
0	QPSK	5070602400912917605986812821504	0	10	10	10	10.0	0.0	QPSK	5070602400912917605986812821504
0	QPSK	10141204801825835211973625643008	0	10	10	10	10.0	0.0	QPSK	10141204801825835211973625643008
0	QPSK	20282409603651670423947251286016	0	10	10	10	10.0	0.0	QPSK	20282409603651670423947251286016
0	QPSK	40564819207303340847894502572032	0	10	10	10	10.0	0.0	QPSK	40564819207303340847894502572032
0	QPSK	81129638414606681695789005144064	0	10	10	10	10.0	0.0	QPSK	811296384146066816957



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509200	518998	528796		
100	PI2 BPSK	1	1	24.82	24.85	24.79		
100	PI2 BPSK	1	137	24.77	24.76	24.86		
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	135	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	135	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	135	138	24.32	24.24	24.19		
100	PI2 BPSK	270	0	24.12	24.18	24.14	25.5	0.5
100	QPSK	1	1	24.81	24.80	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	135	0	24.74	24.76	24.68		
100	QPSK	135	69	24.69	24.71	24.58	26.0	0.0
100	QPSK	135	138	24.32	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				508200	518998	528996	Tune-up limit (dBm)	MPR (dB)
90	PI2 BPSK	1	1	24.1	24.2	24.18	25.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	24.07	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
70	PI2 BPSK	1	1	24.03	24.77	24.66	25.0	0.0
Channel								
Frequency (MHz)				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	24.05	24.77	24.63	25.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
50	PI2 BPSK	1	1	24.05	24.76	24.62	26.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	24.94	24.74	24.63	26.0	0.0
Channel								
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509200	518998	528796		
100	PI2 BPSK	1	1	16.32	16.24	16.20		
100	PI2 BPSK	1	137	16.24	16.17	16.16	17.5	0.0
100	PI2 BPSK	1	271	16.20	16.16	16.21		
100	PI2 BPSK	135	0	16.21	16.24	16.19	17.5	0.0
100	PI2 BPSK	135	69	16.26	16.12	16.11	17.5	0.0
100	PI2 BPSK	135	138	16.16	16.17	16.08		
100	PI2 BPSK	270	0	16.16	16.13	16.17	17.5	0.0
100	QPSK	1	1	16.26	16.33	16.28		
100	QPSK	1	137	16.17	16.16	16.04	17.5	0.0
100	QPSK	1	271	16.20	16.20	16.21		
100	QPSK	135	0	16.23	16.21	16.11		
100	QPSK	135	69	16.20	16.25	16.14	17.5	0.0
100	QPSK	135	138	16.19	16.10	16.11		
100	QPSK	270	0	16.30	16.32	16.13	17.5	0.0
100	16QAM	1	1	16.21	16.18	16.16	17.5	0.0
100	16QAM	1	1	16.21	16.14	16.07	17.5	0.0
100	256QAM	1	1	16.15	16.14	16.14	17.5	0.0
Channel								
Frequency (MHz)				508200	518998	528996	Tune-up limit (dBm)	MPR (dB)
90	PI2 BPSK	1	1	16.14	16.20	16.20	17.5	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	16.14	16.24	16.23	17.5	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
70	PI2 BPSK	1	1	16.13	16.20	16.23	17.5	0.0
Channel								
Frequency (MHz)				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	16.16	16.12	16.19	17.5	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
50	PI2 BPSK	1	1	16.24	16.12	16.23	17.5	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	16.18	16.24	16.27	17.5	0.0
Channel								
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	16.21	16.33	16.28	17.5	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	16.19	16.25	16.25	17.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PV2 BPSK	1	137	24.14	24.24	24.20		
100	PV2 BPSK	1	271	24.15	24.22	24.18		
100	PV2 BPSK	135	0	23.89	23.77	23.74		
100	PV2 BPSK	135	69	24.12	24.14	24.01		
100	PV2 BPSK	135	138	23.57	23.67	23.57		
100	PV2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.35	24.30		
100	QPSK	1	137	24.17	24.23	24.15		
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20		
100	QPSK	135	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.63	23.34		
100	16QAM	1	1	23.27	23.38	23.23		
100	16QAM	1	1	21.81	21.90	21.83		
100	16QAM	1	1	19.95	20.05	19.99		
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	64934	65000	65066	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	PV2 BPSK	1	1	64868	65000	65332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	64734	65000	65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	64600	65000	65000	Tune-up limit (dBm)	MPR (dB)

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1			24.42	26.0	0.0
100	PV2 BPSK	1	137			24.41		
100	PV2 BPSK	1	271			24.45		
100	PV2 BPSK	135	0			23.93		
100	PV2 BPSK	135	69			24.31		
100	PV2 BPSK	135	138			24.15		
100	PV2 BPSK	270	0			24.01		
100	QPSK	1	1			24.33		
100	QPSK	1	137			24.28		
100	QPSK	1	271			24.32		
100	QPSK	135	0			24.14		
100	QPSK	135	69			24.30		
100	QPSK	135	138			24.25		
100	QPSK	270	0			23.62		
100	16QAM	1	1			23.86		
100	16QAM	1	1			21.81		
100	16QAM	1	1			19.93		
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	63268	63332	63400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	PV2 BPSK	1	1	63200	63332	63466	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	63068	63332	63600	Tune-up limit (dBm)	MPR (dB)



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Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	666000	666000	666000		
Frequency (MHz)	3750	3850	3950		
100	18.09	18.30	18.17		
100	18.05	18.14	18.16	20.0	0.0
100	18.09	18.18	18.13		
100	18.20	18.24	18.29	20.0	0.0
100	18.20	18.22	18.28		
100	18.13	18.16	18.10	20.0	0.0
100	18.15	18.16	18.06		
100	18.16	18.32	18.29		
100	18.02	18.20	18.11	20.0	0.0
100	18.09	18.17	18.18		
100	18.02	18.22	18.18		
100	18.04	18.30	18.20	20.0	0.0
100	18.03	18.16	18.07		
100	18.16	18.31	18.27	20.0	0.0
100	18.09	18.22	18.18	20.0	0.0
100	18.14	18.21	18.12	20.0	0.0
100	18.12	18.15	18.11	20.0	0.0
Channel	649334	656000	662666	Tune-up limit	MPR
Frequency (MHz)	3743.01	3800	3866.99	(dBm)	(dB)
80	18.14	18.24	18.21	20.0	0.0
Channel	648668	656000	663332	Tune-up limit	MPR
Frequency (MHz)	3736.02	3800	3866.98	(dBm)	(dB)
60	18.16	18.29	18.20	20.0	0.0
Channel	648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)	3729	3800	3870	(dBm)	(dB)
40	18.18	18.29	18.27	20.0	0.0
Channel	647968	656000	664332	Tune-up limit	MPR
Frequency (MHz)	3718.02	3800.00	3865.98	(dBm)	(dB)
30	18.04	18.25	18.22	20.0	0.0
Channel	647334	656000	664666	Tune-up limit	MPR
Frequency (MHz)	3710.01	3800	3869.99	(dBm)	(dB)
20	18.04	18.26	18.20	20.0	0.0

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Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	633332				
Frequency (MHz)	3599.98				
100	18.35				
100	18.33			20.0	0.0
100	18.40				
100	18.41			20.0	0.0
100	18.34				
100	18.36			20.0	0.0
100	18.34				
100	18.42				
100	18.33			20.0	0.0
100	18.39				
100	18.41				
100	18.38			20.0	0.0
100	18.37				
100	18.40			20.0	0.0
100	18.40			20.0	0.0
100	18.30			20.0	0.0
100	18.35			20.0	0.0
Channel	632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)	3490.02	3492.98	3500	(dBm)	(dB)
80	18.33	18.38	18.33	20.0	0.0
Channel	632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)	3483	3492.98	3502.98	(dBm)	(dB)
60	18.40	18.34	18.35	20.0	0.0
Channel	631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)	3476.01	3486.98	3496.98	(dBm)	(dB)
40	18.37	18.35	18.41	20.0	0.0
Channel	631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)	3468	3486.98	3496.98	(dBm)	(dB)
30	18.32	18.41	18.35	20.0	0.0
Channel	630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)	3460.02	3469.98	3479.98	(dBm)	(dB)
20	18.36	18.33	18.41	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PW2 BPSK	1	1	24.82	24.85	24.79		
100	PW2 BPSK	1	137	24.77	24.76	24.66		
100	PW2 BPSK	1	271	24.76	24.78	24.75		
100	PW2 BPSK	135	0	24.03	24.14	24.11	25.5	0.0
100	PW2 BPSK	135	69	24.70	24.71	24.58	26.0	0.0
100	PW2 BPSK	135	138	24.22	24.24	24.19	25.5	0.0
100	PW2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	135	0	24.74	24.76	24.68		
100	QPSK	135	69	24.68	24.71	24.58	26.0	0.0
100	QPSK	135	138	24.72	24.76	24.74		
100	QPSK	270	0	23.92	23.74	23.84	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
90	PW2 BPSK	1	1	24.41	24.42	24.43	26.0	0.0
Channel								
Frequency (MHz)				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
80	PW2 BPSK	1	1	24.08	24.17	24.06	26.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	PW2 BPSK	1	1	23.11	23.92	23.02	26.0	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	PW2 BPSK	1	1	24.05	24.77	24.09	26.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	PW2 BPSK	1	1	24.05	24.76	24.62	26.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	PW2 BPSK	1	1	24.94	24.74	24.63	26.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	PW2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	PW2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PW2 BPSK	1	1	14.22	14.21	14.19		
100	PW2 BPSK	1	137	14.17	14.06	14.14	15.5	0.0
100	PW2 BPSK	1	271	14.18	14.11	14.15		
100	PW2 BPSK	135	0	14.18	14.18	14.14	15.5	0.0
100	PW2 BPSK	135	69	14.17	14.05	14.01	15.5	0.0
100	PW2 BPSK	135	138	14.12	14.07	13.97	15.5	0.0
100	PW2 BPSK	270	0	14.13	14.06	14.05		
100	QPSK	1	1	14.26	14.28	14.28		
100	QPSK	1	137	14.11	14.16	13.98	15.5	0.0
100	QPSK	1	271	14.09	14.11	14.16		
100	QPSK	135	0	14.12	14.16	14.05		
100	QPSK	135	69	14.18	14.22	14.05	15.5	0.0
100	QPSK	135	138	14.18	14.03	14.00		
100	QPSK	270	0	14.25	14.08	14.01	15.5	0.0
100	16QAM	1	1	14.18	14.12	14.12	15.5	0.0
100	16QAM	1	1	14.17	14.13	13.98	15.5	0.0
100	256QAM	1	1	14.04	14.09	14.14	15.5	0.0
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
90	PW2 BPSK	1	1	14.24	14.23	14.28	15.5	0.0
Channel								
Frequency (MHz)				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
80	PW2 BPSK	1	1	14.19	14.23	14.19	15.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	PW2 BPSK	1	1	14.13	14.24	14.15	15.5	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	PW2 BPSK	1	1	14.25	14.23	14.19	15.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	PW2 BPSK	1	1	14.22	14.23	14.28	15.5	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	PW2 BPSK	1	1	14.16	14.21	14.20	15.5	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	PW2 BPSK	1	1	14.24	14.25	14.21	15.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	PW2 BPSK	1	1	14.23	14.24	14.19	15.5	0.0



Par270 n77_FCC_Ant7

Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel							
Frequency (MHz)			64800	65000	65200		
			3750	3840	3930		
Pi2 BPSK	1	1	18.01	18.22	18.07		
Pi2 BPSK	1	137	18.84	18.99	18.53	18.0	0.0
Pi2 BPSK	1	271	18.04	18.12	18.03		
Pi2 BPSK	135	0	18.12	18.20	18.25	18.0	0.0
Pi2 BPSK	135	69	18.08	18.15	18.27	18.0	0.0
Pi2 BPSK	135	138	18.01	18.15	18.03		
Pi2 BPSK	270	0	18.02	18.12	18.99	18.0	0.0
QPSK	1	1	18.06	18.32	18.17		
QPSK	1	137	18.96	18.14	18.03		
QPSK	1	271	18.04	18.12	18.16	18.0	0.0
QPSK	135	0	18.16	18.17	18.26		
QPSK	135	69	18.07	18.29	18.15	18.0	0.0
QPSK	135	138	18.11	18.12	18.98		
QPSK	270	0	18.06	18.31	18.24	18.0	0.0
16QAM	1	1	18.06	18.20	18.07	18.0	0.0
16QAM	1	1	18.10	18.13	18.07	18.0	0.0
256QAM	1	1	18.11	18.06	18.03	18.0	0.0
Channel							
Frequency (MHz)			64934	65000	65066	Tune-up limit (dBm)	MPR (dB)
			3743.01	3840	3933.9		
Pi2 BPSK	1	1	18.95	18.20	18.15	18.0	0.0
Channel							
Frequency (MHz)			64868	65000	65332	Tune-up limit (dBm)	MPR (dB)
			3738.02	3840	3943.9		
Pi2 BPSK	1	1	18.97	18.27	18.15	18.0	0.0
Channel							
Frequency (MHz)			64800	65000	65400	Tune-up limit (dBm)	MPR (dB)
			3720	3840	3960		
Pi2 BPSK	1	1	18.97	18.22	18.11	18.0	0.0
Channel							
Frequency (MHz)			64768	65000	65432	Tune-up limit (dBm)	MPR (dB)
			3718.02	3840.00	3963.98		
Pi2 BPSK	1	1	18.04	18.21	18.10	18.0	0.0
Channel							
Frequency (MHz)			64734	65000	65466	Tune-up limit (dBm)	MPR (dB)
			3718.01	3840	3963.99		
Pi2 BPSK	1	1	18.97	18.20	18.14	18.0	0.0

Par27Q n77_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63932	63998			
100	Pi2 BPSK	1	1	18.28				
100	Pi2 BPSK	1	137	18.24			18.0	0.0
100	Pi2 BPSK	1	271	18.32				
100	Pi2 BPSK	135	0	18.36			18.0	0.0
100	Pi2 BPSK	135	69	18.22			18.0	0.0
100	Pi2 BPSK	135	138	18.26				
100	Pi2 BPSK	270	0	18.34			18.0	0.0
100	QPSK	1	1	18.42				
100	QPSK	1	137	18.31			18.0	0.0
100	QPSK	1	271	18.29				
100	QPSK	135	0	18.38				
100	QPSK	135	69	18.35			18.0	0.0
100	QPSK	135	138	18.31				
100	QPSK	270	0	18.38			18.0	0.0
100	16QAM	1	1	18.36			18.0	0.0
100	16QAM	1	1	18.21			18.0	0.0
100	256QAM	1	1	18.24			18.0	0.0
Channel								
Frequency (MHz)				63268	63332	63400	Tune-up limit (dBm)	MPR (dB)
			3693.02	3699.06	3710			
80	Pi2 BPSK	1	1	18.33	18.40	18.42	18.0	0.0
Channel								
Frequency (MHz)				63200	63332	63466	Tune-up limit (dBm)	MPR (dB)
			3680	3699.06	3718.99			
80	Pi2 BPSK	1	1	18.34	18.33	18.33	18.0	0.0
Channel								
Frequency (MHz)				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
			3670.01	3699.06	3723.06			
40	Pi2 BPSK	1	1	18.42	18.39	18.33	18.0	0.0
Channel								
Frequency (MHz)				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
			3660	3699.06	3734.99			
30	Pi2 BPSK	1	1	18.39	18.33	18.36	18.0	0.0
Channel								
Frequency (MHz)				63066	63332	63600	Tune-up limit (dBm)	MPR (dB)
			3650.02	3699.06	3740			
30	Pi2 BPSK	1	1	18.35	18.31	18.34	18.0	0.0



n41_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				28602	51898	53000		
100	PV2 BPSK	1	1	24.82	24.85	24.79		
100	PV2 BPSK	1	137	24.77	24.79	24.85	26.0	0.0
100	PV2 BPSK	1	271	24.75	24.78	24.75		
100	PV2 BPSK	138	0	24.03	24.14	24.11	26.5	0.5
100	PV2 BPSK	138	69	24.70	24.71	24.83	26.0	0.0
100	PV2 BPSK	138	138	24.22	24.24	24.19	26.5	0.5
100	PV2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.83	24.83	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	138	0	24.74	24.76	24.68		
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0
100	QPSK	138	138	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	16QAM	1	1	19.30	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				50620	51898	52998	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.87	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				507204	51898	52998	Tune-up limit	MPR
80	PV2 BPSK	1	1	24.69	24.77	24.66	25.0	0.0
Channel								
Frequency (MHz)				506202	51898	531000	Tune-up limit	MPR
70	PV2 BPSK	1	1	24.69	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				506200	51898	531996	Tune-up limit	MPR
60	PV2 BPSK	1	1	24.65	24.77	24.69	25.0	0.0
Channel								
Frequency (MHz)				504204	51898	532998	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.65	24.76	24.62	25.0	0.0
Channel								
Frequency (MHz)				503202	51898	534000	Tune-up limit	MPR
40	PV2 BPSK	1	1	24.64	24.74	24.63	25.0	0.0
Channel								
Frequency (MHz)				502200	51898	534996	Tune-up limit	MPR
30	PV2 BPSK	1	1	24.71	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				501204	51898	535998	Tune-up limit	MPR
20	PV2 BPSK	1	1	24.68	24.77	24.64	25.0	0.0

n41_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				30602	51898	53000		
100	PV2 BPSK	1	1	24.82	24.85	24.79		
100	PV2 BPSK	1	137	24.77	24.79	24.85	26.0	0.0
100	PV2 BPSK	1	271	24.75	24.78	24.75		
100	PV2 BPSK	138	0	24.03	24.14	24.11	26.5	0.5
100	PV2 BPSK	138	69	24.70	24.71	24.83	26.0	0.0
100	PV2 BPSK	138	138	24.22	24.24	24.19	26.5	0.5
100	PV2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.83	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	138	0	24.74	24.76	24.68		
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0
100	QPSK	138	138	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	16QAM	1	1	19.30	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				50620	51898	52998	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.87	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				507204	51898	52998	Tune-up limit	MPR
80	PV2 BPSK	1	1	24.69	24.77	24.66	25.0	0.0
Channel								
Frequency (MHz)				506202	51898	531000	Tune-up limit	MPR
70	PV2 BPSK	1	1	24.69	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				506200	51898	531996	Tune-up limit	MPR
60	PV2 BPSK	1	1	24.65	24.77	24.69	25.0	0.0
Channel								
Frequency (MHz)				504204	51898	532998	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.65	24.76	24.62	25.0	0.0
Channel								
Frequency (MHz)				503202	51898	534000	Tune-up limit	MPR
40	PV2 BPSK	1	1	24.64	24.74	24.63	25.0	0.0
Channel								
Frequency (MHz)				502200	51898	534996	Tune-up limit	MPR
30	PV2 BPSK	1	1	24.71	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				501204	51898	535998	Tune-up limit	MPR
20	PV2 BPSK	1	1	24.68	24.77	24.64	25.0	0.0



Par270 n77_FCC_Ant8

BW (MHz)	Modulation	RB 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	PV2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PV2 BPSK	1	137	24.14	24.24	24.20		
100	PV2 BPSK	1	271	24.15	24.22	24.18		
100	PV2 BPSK	135	0	23.89	23.77	23.74	26.5	0.5
100	PV2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PV2 BPSK	135	138	23.57	23.67	23.57	26.5	0.5
100	PV2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.35	24.30		
100	QPSK	1	137	24.17	24.23	24.15		
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20		
100	QPSK	135	138	24.11	24.16	24.09	25.0	1.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23		
100	16QAM	1	1	21.81	21.90	21.83		
100	256QAM	1	1	19.95	20.05	19.99	21.5	4.5
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	64934	65000	65066	Tune-up limit	MPR
Frequency (MHz)								
60	PV2 BPSK	1	1	64868	65000	65332	Tune-up limit	MPR
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	64800	65000	65000	Tune-up limit	MPR
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	64768	65000	65432	Tune-up limit	MPR
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	64734	65000	65666	Tune-up limit	MPR

Par27Q n77_FCC_Ant8

BW (MHz)	Modulation	RB 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	PV2 BPSK	1	1			24.42	26.0	0.0
100	PV2 BPSK	1	137			24.41		
100	PV2 BPSK	1	271			24.45		
100	PV2 BPSK	135	0			23.93	25.5	0.5
100	PV2 BPSK	135	69			24.31	26.0	0.0
100	PV2 BPSK	135	138			24.15	25.5	0.5
100	PV2 BPSK	270	0			24.01	26.0	0.0
100	QPSK	1	1			24.33		
100	QPSK	1	137			24.26		
100	QPSK	1	271			24.32	26.0	0.0
100	QPSK	135	0			24.14		
100	QPSK	135	69			24.39		
100	QPSK	135	138			24.28	26.0	0.0
100	QPSK	270	0			23.82	25.0	1.0
100	16QAM	1	1			23.86	25.0	1.0
100	16QAM	1	1			21.81	23.5	2.5
100	256QAM	1	1			19.93	21.5	4.5
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	63068	63332	63600	Tune-up limit	MPR
Channel								
Frequency (MHz)								
60	PV2 BPSK	1	1	63000	63332	63666	Tune-up limit	MPR
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	63134	63332	63532	Tune-up limit	MPR
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	63100	63332	63666	Tune-up limit	MPR
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	63068	63332	63600	Tune-up limit	MPR



Par270 n77_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3900	3900		
100	PI2 BPSK	1	137	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	271	24.18	24.22	24.18		
100	PI2 BPSK	135	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	135	138	23.57	23.67	23.57		
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.5	0.5
100	QPSK	1	1	24.33	24.38	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	135	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.33	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.95	20.08	19.99	21.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	649334	656000	652666	Tune-up limit (dB)	MPR (dB)
				3740.01	3444	3433.99		
				24.12	24.15	24.06	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	648668	656000	653332	Tune-up limit (dB)	MPR (dB)
				328.02	3444	3433.98		
				24.09	24.15	24.07	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	648000	656000	654000	Tune-up limit (dB)	MPR (dB)
				3740	3444	3434		
				24.11	24.15	24.11	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647968	656000	654332	Tune-up limit (dB)	MPR (dB)
				318.02	3440.00	3434.98		
				24.09	24.15	24.10	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647334	656000	654666	Tune-up limit (dB)	MPR (dB)
				3716.01	3444	3433.99		
				24.09	24.17	24.12	26.0	0.0

Par27Q n77_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		633332			
100	PI2 BPSK	1	137		24.42			
100	PI2 BPSK	1	271		24.41			
100	PI2 BPSK	135	0		23.93		25.5	0.5
100	PI2 BPSK	135	69		24.31		26.0	0.0
100	PI2 BPSK	135	138		24.15			
100	PI2 BPSK	270	0		24.01		25.5	0.5
100	QPSK	1	1		24.53			
100	QPSK	1	137		24.28			
100	QPSK	1	271		24.32			
100	QPSK	135	0		24.14			
100	QPSK	135	69		24.39		26.0	0.0
100	QPSK	135	138		24.26			
100	QPSK	270	0		23.62		25.0	1.0
100	16QAM	1	1		23.56		25.0	1.0
100	64QAM	1	1		21.81		23.5	2.5
100	256QAM	1	1		19.83		21.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	632668	633332	634000	Tune-up limit (dB)	MPR (dB)
				340.02	3492.99	3510		
				24.22	24.25	24.19	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	632000	633332	634666	Tune-up limit (dB)	MPR (dB)
				3400	3492.99	3512.99		
				24.21	24.21	24.19	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631334	633332	635332	Tune-up limit (dB)	MPR (dB)
				3470.01	3492.99	3522.98		
				24.23	24.24	24.20	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631000	633332	635666	Tune-up limit (dB)	MPR (dB)
				3485	3492.99	3524.99		
				24.21	24.23	24.21	25.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	630668	633332	636000	Tune-up limit (dB)	MPR (dB)
				3480.02	3492.99	3526		
				24.21	24.23	24.22	26.0	0.0



n66_Ant1									
HR (MHz)	Modulation	HR (MHz)	HR (MHz)	Power (dBm)	Power (dBm)	Power (dBm)	Throughput (Mbps)	Latency (ms)	BER
20	QPSK	1	1	10	10	10	0.00	0.00	0.00
20	QPSK	1	2	10	10	10	0.00	0.00	0.00
20	QPSK	1	4	10	10	10	0.00	0.00	0.00
20	QPSK	1	8	10	10	10	0.00	0.00	0.00
20	QPSK	1	16	10	10	10	0.00	0.00	0.00
20	QPSK	1	32	10	10	10	0.00	0.00	0.00
20	QPSK	1	64	10	10	10	0.00	0.00	0.00
20	QPSK	1	128	10	10	10	0.00	0.00	0.00
20	QPSK	1	256	10	10	10	0.00	0.00	0.00
20	QPSK	1	512	10	10	10	0.00	0.00	0.00
20	QPSK	1	1024	10	10	10	0.00	0.00	0.00
20	QPSK	1	2048	10	10	10	0.00	0.00	0.00
20	QPSK	1	4096	10	10	10	0.00	0.00	0.00
20	QPSK	1	8192	10	10	10	0.00	0.00	0.00
20	QPSK	1	16384	10	10	10	0.00	0.00	0.00
20	QPSK	1	32768	10	10	10	0.00	0.00	0.00
20	QPSK	1	65536	10	10	10	0.00	0.00	0.00
20	QPSK	1	131072	10	10	10	0.00	0.00	0.00
20	QPSK	1	262144	10	10	10	0.00	0.00	0.00
20	QPSK	1	524288	10	10	10	0.00	0.00	0.00
20	QPSK	1	1048576	10	10	10	0.00	0.00	0.00
20	QPSK	1	2097152	10	10	10	0.00	0.00	0.00
20	QPSK	1	4194304	10	10	10	0.00	0.00	0.00
20	QPSK	1	8388608	10	10	10	0.00	0.00	0.00
20	QPSK	1	16777216	10	10	10	0.00	0.00	0.00
20	QPSK	1	33554432	10	10	10	0.00	0.00	0.00
20	QPSK	1	67108864	10	10	10	0.00	0.00	0.00
20	QPSK	1	134217728	10	10	10	0.00	0.00	0.00
20	QPSK	1	268435456	10	10	10	0.00	0.00	0.00
20	QPSK	1	536870912	10	10	10	0.00	0.00	0.00
20	QPSK	1	1073741824	10	10	10	0.00	0.00	0.00
20	QPSK	1	2147483648	10	10	10	0.00	0.00	0.00
20	QPSK	1	4294967296	10	10	10	0.00	0.00	0.00
20	QPSK	1	8589934592	10	10	10	0.00	0.00	0.00
20	QPSK	1	17179869184	10	10	10	0.00	0.00	0.00
20	QPSK	1	34359738368	10	10	10	0.00	0.00	0.00
20	QPSK	1	68719476736	10	10	10	0.00	0.00	0.00
20	QPSK	1	137438953472	10	10	10	0.00	0.00	0.00
20	QPSK	1	274877906944	10	10	10	0.00	0.00	0.00
20	QPSK	1	549755813888	10	10	10	0.00	0.00	0.00
20	QPSK	1	1099511627776	10	10	10	0.00	0.00	0.00
20	QPSK	1	2199023255552	10	10	10	0.00	0.00	0.00
20	QPSK	1	4398046511104	10	10	10	0.00	0.00	0.00
20	QPSK	1	8796093022208	10	10	10	0.00	0.00	0.00
20	QPSK	1	17592186044416	10	10	10	0.00	0.00	0.00
20	QPSK	1	35184372088832	10	10	10	0.00	0.00	0.00
20	QPSK	1	70368744177664	10	10	10	0.00	0.00	0.00
20	QPSK	1	140737488355328	10	10	10	0.00	0.00	0.00
20	QPSK	1	281474976710656	10	10	10	0.00	0.00	0.00
20	QPSK	1	562949953421312	10	10	10	0.00	0.00	0.00
20	QPSK	1	1125899906842624	10	10	10	0.00	0.00	0.00
20	QPSK	1	2251799813685248	10	10	10	0.00	0.00	0.00
20	QPSK	1	4503599627370496	10	10	10	0.00	0.00	0.00
20	QPSK	1	9007199254740992	10	10	10	0.00	0.00	0.00
20	QPSK	1	18014398509481984	10	10	10	0.00	0.00	0.00
20	QPSK	1	36028797018963968	10	10	10	0.00	0.00	0.00
20	QPSK	1	72057594037927936	10	10	10	0.00	0.00	0.00
20	QPSK	1	144115188075855872	10	10	10	0.00	0.00	0.00
20	QPSK	1	288230376151711744	10	10	10	0.00	0.00	0.00
20	QPSK	1	576460752303423488	10	10	10	0.00	0.00	0.00
20	QPSK	1	1152921504606846976	10	10	10	0.00	0.00	0.00
20	QPSK	1	2305843009213693952	10	10	10	0.00	0.00	0.00
20	QPSK	1	4611686018427387904	10	10	10	0.00	0.00	0.00
20	QPSK	1	9223372036854775808	10	10	10	0.00	0.00	0.00
20	QPSK	1	18446744073709551616	10	10	10	0.00	0.00	0.00
20	QPSK	1	36893488147419103232	10	10	10	0.00	0.00	0.00
20	QPSK	1	73786976294838206464	10	10	10	0.00	0.00	0.00
20	QPSK	1	147573952589676412928	10	10	10	0.00	0.00	0.00
20	QPSK	1	295147905179352825856	10	10	10	0.00	0.00	0.00
20	QPSK	1	590295810358705651712	10	10	10	0.00	0.00	0.00
20	QPSK	1	1180591620717411303424	10	10	10	0.00	0.00	0.00
20	QPSK	1	2361183241434822606848	10	10	10	0.00	0.00	0.00
20	QPSK	1	4722366482869645213696	10	10	10	0.00	0.00	0.00
20	QPSK	1	9444732965739290427392	10	10	10	0.00	0.00	0.00
20	QPSK	1	18889465931478580854784	10	10	10	0.00	0.00	0.00
20	QPSK	1	37778931862957161709568	10	10	10	0.00	0.00	0.00
20	QPSK	1	75557863725914323419136	10	10	10	0.00	0.00	0.00
20	QPSK	1	151115727451828646838272	10	10	10	0.00	0.00	0.00
20	QPSK	1	302231454903657293676544	10	10	10	0.00	0.00	0.00
20	QPSK	1	604462909807314587353088	10	10	10	0.00	0.00	0.00
20	QPSK	1	1208925819614629174706176	10	10	10	0.00	0.00	0.00
20	QPSK	1	2417851639229258349412352	10	10	10	0.00	0.00	0.00
20	QPSK	1	4835703278458516698824704	10	10	10	0.00	0.00	0.00
20	QPSK	1	9671406556917033397649408	10	10	10	0.00	0.00	0.00
20	QPSK	1	19342813113834066795298816	10	10	10	0.00	0.00	0.00
20	QPSK	1	38685626227668133590597632	10	10	10	0.00	0.00	0.00
20	QPSK	1	77371252455336267181195264	10	10	10	0.00	0.00	0.00
20	QPSK	1	154742504910672534362390528	10	10	10	0.00	0.00	0.00
20	QPSK	1	309485009821345068724781056	10	10	10	0.00	0.00	0.00
20	QPSK	1	618970019642690137449562112	10	10	10	0.00	0.00	0.00
20	QPSK	1	1237940039285380274899124224	10	10	10	0.00	0.00	0.00
20	QPSK	1	2475880078570760549798248448	10	10	10	0.00	0.00	0.00
20	QPSK	1	4951760157141521099596496896	10	10	10	0.00	0.00	0.00
20	QPSK	1	9903520314283042199192993792	10	10	10	0.00	0.00	0.00
20	QPSK	1	19807040628566084398385987584	10	10	10	0.00	0.00	0.00
20	QPSK	1	39614081257132168796771975168	10	10	10	0.00	0.00	0.00
20	QPSK	1	79228162514264337593543950336	10	10	10	0.00	0.00	0.00
20	QPSK	1	158456325028528675187087900672	10	10	10	0.00	0.00	0.00
20	QPSK	1	316912650057057350374175801344	10	10	10	0.00	0.00	0.00
20	QPSK	1	633825300114114700748351602688	10	10	10	0.00	0.00	0.00
20	QPSK	1	1267650600228229401496703205376	10	10	10	0.00	0.00	0.00
20	QPSK	1	2535301200456458802993406410752	10	10	10	0.00	0.00	0.00
20	QPSK	1	5070602400912917605986812821504	10	10	10	0.00	0.00	0.00
20	QPSK	1	10141204801825835211973625643008	10	10	10	0.00	0.00	0.00
20	QPSK	1	20282409603651670423947251286016	10	10	10	0.00	0.00	0.00
20	QPSK	1	40564819207303340847894502572032	10	10	10	0.00	0.00	0.00
20	QPSK	1	81129638414606681695789005144064	10	10	10	0.00	0.00	0.00
20	QPSK	1	162259276833213363391578010288128	10	10	10	0.00	0.00	0.00
20	QPSK	1	324518553666426726783156020576256	10	10	10	0.00	0.00	0.00
20	QPSK	1	649037107332853453566312041152512	10	10	10	0.00	0.00	0.00
20	QPSK	1	1298074214665706907132624082305024	10	10	10	0.00	0.00	0.00
20	QPSK	1	2596148429331413814265248164610048	10	10	10	0.00	0.00	0.00
20	QPSK	1	5192296858662827628530496329220						



n41_FCC_Ant8									
BW (MHz)	Modulation	RB 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	P12 BPSK	1	1	24.82	24.85	24.79	26.0	0.0	
100	P12 BPSK	1	137	24.77	24.79	24.66			
100	P12 BPSK	1	271	24.76	24.78	24.75			
100	P12 BPSK	135	0	24.03	24.14	24.11	26.5	0.5	
100	P12 BPSK	135	69	24.70	24.71	24.68	26.0	0.0	
100	P12 BPSK	135	138	24.22	24.24	24.19	25.5	0.5	
100	P12 BPSK	270	0	24.12	24.18	24.14	26.0	0.0	
100	QPSK	1	1	24.82	24.83	24.76			
100	QPSK	1	137	24.72	24.83	24.70			
100	QPSK	1	271	24.71	24.81	24.80	26.0	0.0	
100	QPSK	135	0	24.74	24.76	24.69			
100	QPSK	135	69	24.69	24.71	24.68			
100	QPSK	135	138	24.72	24.76	24.74	25.0	1.0	
100	QPSK	270	0	23.62	23.74	23.64	25.0	0.0	
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0	
100	64QAM	1	1	22.10	22.24	22.17	23.5	2.5	
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	24.87	24.75	24.82	25.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	24.69	24.77	24.66	25.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	24.69	24.76	24.64	25.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	24.65	24.77	24.69	25.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	24.65	24.76	24.62	25.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	24.64	24.74	24.63	25.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	24.71	24.75	24.62	25.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	24.68	24.77	24.64	25.0	0.0	

n41_FCC_Ant7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	24.82	24.85	24.79	26.0	0.0	
100	P12 BPSK	1	137	24.77	24.79	24.66			
100	P12 BPSK	1	271	24.76	24.78	24.75			
100	P12 BPSK	135	0	24.03	24.14	24.11	26.5	0.5	
100	P12 BPSK	135	69	24.70	24.71	24.68	26.0	0.0	
100	P12 BPSK	135	138	24.22	24.24	24.19	25.5	0.5	
100	P12 BPSK	270	0	24.12	24.18	24.14	26.0	0.0	
100	QPSK	1	1	24.81	24.83	24.76			
100	QPSK	1	137	24.72	24.83	24.70			
100	QPSK	1	271	24.71	24.81	24.80	26.0	0.0	
100	QPSK	135	0	24.74	24.76	24.69			
100	QPSK	135	69	24.69	24.71	24.68			
100	QPSK	135	138	24.72	24.76	24.74	25.0	1.0	
100	QPSK	270	0	23.62	23.74	23.64	25.0	0.0	
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0	
100	64QAM	1	1	22.10	22.24	22.17	23.5	2.5	
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	24.87	24.75	24.82	25.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	24.69	24.77	24.66	25.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	24.69	24.76	24.64	25.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	24.65	24.77	24.69	25.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	24.65	24.76	24.62	25.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	24.64	24.74	24.63	25.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	24.71	24.75	24.62	25.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	24.68	24.77	24.64	25.0	0.0	



Par270 n77_FCC_Ant8

BW [MHz]	Modulation	RB 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	656000		
100	PI2 BPSK	1	1	24.21	24.32	24.29		
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	135	0	23.89	23.77	23.74	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	135	138	23.57	23.67	23.57	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.68		
100	QPSK	1	1	24.33	24.36	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.08		
100	QPSK	135	0	24.12	24.21	24.22		
100	QPSK	135	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	135	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0
100	16QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.95	20.08	19.99	21.5	4.5
Channel				649334	656000	652666	Tune-up limit	MPR
Frequency (MHz)				3740.02	3740	3740.99	(dBm)	(dB)
80	PI2 BPSK	1	1	24.12	24.16	24.06	26.0	0.0
Channel				648968	656000	653332	Tune-up limit	MPR
Frequency (MHz)				3740.02	3740	3740.99	(dBm)	(dB)
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				648000	656000	654000	Tune-up limit	MPR
Frequency (MHz)				3720	3740	3760	(dBm)	(dB)
40	PI2 BPSK	1	1	24.11	24.10	24.11	26.0	0.0
Channel				647668	656000	654332	Tune-up limit	MPR
Frequency (MHz)				3718.02	3740.02	3762.98	(dBm)	(dB)
30	PI2 BPSK	1	1	24.09	24.10	24.10	26.0	0.0
Channel				647334	656000	654666	Tune-up limit	MPR
Frequency (MHz)				3718.02	3740	3762.98	(dBm)	(dB)
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par27Q n77_FCC_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633932	633932	633932		
100	PI2 BPSK	1	1	24.42	24.42	24.42		
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	135	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	135	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	135	138	24.15	24.15	24.15	25.0	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.33	24.33	24.33		
100	QPSK	1	137	24.26	24.26	24.26	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	135	0	24.14	24.14	24.14		
100	QPSK	135	69	24.39	24.39	24.39	26.0	0.0
100	QPSK	135	138	24.28	24.28	24.28		
100	QPSK	270	0	23.82	23.82	23.82	25.0	1.0
100	16QAM	1	1	23.86	23.86	23.86	25.0	1.0
100	16QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.93	19.93	19.93	21.5	4.5
Channel				632668	633932	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3490.98	3490	(dBm)	(dB)
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel				632000	633932	634666	Tune-up limit	MPR
Frequency (MHz)				3490	3490.98	3491.98	(dBm)	(dB)
60	PI2 BPSK	1	1	24.23	24.21	24.19	26.0	0.0
Channel				631334	633932	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3490.98	3520.98	(dBm)	(dB)
40	PI2 BPSK	1	1	24.23	24.24	24.20	26.0	0.0
Channel				631000	633932	635666	Tune-up limit	MPR
Frequency (MHz)				3468	3490.98	3524.98	(dBm)	(dB)
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel				630668	633932	636000	Tune-up limit	MPR
Frequency (MHz)				3468.02	3490.98	3524	(dBm)	(dB)
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0



Par270 n77_FCC_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3850	3950	24.5	0.0
100	PI2 BPSK	1	137	22.72	22.72	22.65		
100	PI2 BPSK	1	271	22.72	22.74	22.51		
100	PI2 BPSK	135	0	22.79	22.78	22.65		
100	PI2 BPSK	135	69	22.71	22.80	22.65		
100	PI2 BPSK	135	138	22.79	22.81	22.55		
100	PI2 BPSK	270	0	22.78	22.82	22.65		
100	QPSK	1	1	22.86	22.86	22.77		
100	QPSK	1	137	22.83	22.82	22.70		
100	QPSK	1	271	22.85	22.79	22.76		
100	QPSK	135	0	22.75	22.79	22.63		
100	QPSK	135	69	22.82	22.83	22.71		
100	QPSK	135	138	22.81	22.82	22.64		
100	QPSK	270	0	22.79	22.81	22.68		
100	16QAM	1	1	22.75	22.75	22.66		
100	16QAM	1	1	21.72	21.77	21.66		
100	256QAM	1	1	19.74	19.77	19.64		
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	84934	85000	85066	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	74010	840	383332	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.74	22.82	22.70	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	84800	85000	85400	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	370	340	300	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.81	22.75	22.51	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	64768	85000	86432	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	31010	340	30030	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	64734	85000	86466	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.81	22.76	22.65	Tune-up limit (dBm)	MPR

Par27Q n77_FCC_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	83332	83332	83332	24.5	0.0
100	PI2 BPSK	1	137	22.87	22.86	22.86		
100	PI2 BPSK	1	271	22.82	22.82	22.82		
100	PI2 BPSK	135	0	22.83	22.83	22.83		
100	PI2 BPSK	135	69	22.84	22.84	22.84		
100	PI2 BPSK	135	138	22.87	22.87	22.87		
100	PI2 BPSK	270	0	22.81	22.81	22.81		
100	QPSK	1	1	22.87	22.87	22.87		
100	QPSK	1	137	22.87	22.87	22.87		
100	QPSK	1	271	22.83	22.83	22.83		
100	QPSK	135	0	22.82	22.82	22.82		
100	QPSK	135	69	22.86	22.86	22.86		
100	QPSK	135	138	22.83	22.83	22.83		
100	QPSK	270	0	22.81	22.81	22.81		
100	16QAM	1	1	22.81	22.81	22.81		
100	16QAM	1	1	21.89	21.89	21.89		
100	256QAM	1	1	19.95	19.95	19.95		
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	83068	83332	83600	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	74010	840	383332	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.81	22.80	22.86	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	83134	83332	83532	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	340	340	340	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.80	22.81	22.81	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	83068	83332	83600	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.92	22.94	22.95	Tune-up limit (dBm)	MPR



n41_FCC_Ant8

BW (MHz)	Modulation	RB 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	P12 BPSK	1	1	24.82	24.85	24.79	28.0	0.0
100	P12 BPSK	1	137	24.77	24.79	24.85		
100	P12 BPSK	1	271	24.76	24.78	24.75		
100	P12 BPSK	135	0	24.03	24.14	24.11	28.5	0.5
100	P12 BPSK	135	69	24.70	24.71	24.68	28.0	0.0
100	P12 BPSK	135	138	24.22	24.24	24.19	28.5	0.5
100	P12 BPSK	270	0	24.12	24.18	24.14	28.0	0.0
100	QPSK	1	1	24.81	24.83	24.76	28.0	0.0
100	QPSK	1	137	24.72	24.83	24.70		
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	135	0	24.74	24.76	24.68	28.0	0.0
100	QPSK	135	69	24.69	24.71	24.58	28.0	0.0
100	QPSK	135	138	24.72	24.76	24.74	28.0	1.0
100	QPSK	270	0	23.82	23.74	23.64	23.0	0.0
100	16QAM	1	1	23.80	23.82	23.81	28.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	16QAM	1	1	13.90	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	50.724	51.058	52.998	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	24.69	24.77	24.65	28.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	50.620	51.058	53.100	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	24.31	24.77	24.63	28.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	24.65	24.76	24.69	28.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	50.200	51.058	53.098	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	24.64	24.74	24.63	28.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	50.200	51.058	53.098	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	24.68	24.77	24.64	28.0	0.0

n41_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	14.22	14.23	14.19	15.5	0.0
100	P12 BPSK	1	137	14.17	14.20	14.14		
100	P12 BPSK	1	271	14.18	14.11	14.13		
100	P12 BPSK	135	0	14.18	14.18	14.14	15.5	0.0
100	P12 BPSK	135	69	14.17	14.20	14.01	15.5	0.0
100	P12 BPSK	135	138	14.12	14.07	13.97	15.5	0.0
100	P12 BPSK	270	0	14.13	14.05	14.05	15.5	0.0
100	QPSK	1	1	14.25	14.28	14.28	15.5	0.0
100	QPSK	1	137	14.11	14.18	13.98		
100	QPSK	1	271	14.09	14.11	14.16		
100	QPSK	135	0	14.12	14.10	14.05	15.5	0.0
100	QPSK	135	69	14.19	14.22	14.05	15.5	0.0
100	QPSK	135	138	14.18	14.03	14.00	15.5	0.0
100	QPSK	270	0	14.25	14.28	14.01	15.5	0.0
100	16QAM	1	1	14.18	14.12	14.12	15.5	0.0
100	16QAM	1	1	14.17	14.13	13.98	15.5	0.0
100	16QAM	1	1	14.04	14.09	14.14	15.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	14.24	14.23	14.23	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	14.19	14.23	14.19	15.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	50.620	51.058	53.100	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	24.31	24.77	24.63	14.15	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	24.25	24.23	24.19	15.5	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	50.200	51.058	53.098	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	14.22	14.23	14.28	15.5	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	14.23	14.24	14.19	15.5	0.0



Par270 n77_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				648000	649000	649000		
				3750	3840	3930		
100	P1/2 BPSK	1	1	22.75	22.83	22.73	24.5	0.0
100	P1/2 BPSK	1	137	22.69	22.76	22.60		
100	P1/2 BPSK	1	271	22.57	22.65	22.50		
100	P1/2 BPSK	135	0	22.78	22.82	22.72	24.5	0.0
100	P1/2 BPSK	135	69	22.83	22.86	22.72		
100	P1/2 BPSK	135	138	22.65	22.70	22.51		
100	P1/2 BPSK	270	0	22.99	22.83	22.69	24.5	0.0
100	QPSK	1	1	22.82	22.83	22.76		
100	QPSK	1	137	22.71	22.80	22.69		
100	QPSK	1	271	22.60	22.73	22.61		
100	QPSK	135	0	22.76	22.86	22.72		
100	QPSK	135	69	22.70	22.76	22.65	24.5	0.0
100	QPSK	135	138	22.50	22.83	22.54		
100	QPSK	270	0	22.81	22.83	22.74	24.5	0.0
100	16QAM	1	1	22.78	22.81	22.78	24.5	0.0
100	16QAM	1	1	21.85	21.72	21.68	23.5	1.0
100	256QAM	1	1	19.50	19.64	19.32	21.5	3.0
Channel								
Frequency (MHz)				649334	650000	650000	Tune-up limit (dBm)	MPR (dB)
				3740.01	3748.09	3748.09		
80	P1/2 BPSK	1	1	22.72	22.74	22.61	24.5	0.0
Channel								
Frequency (MHz)				648668	650000	653332	Tune-up limit (dBm)	MPR (dB)
				3750.02	3749.08	3748.18		
60	P1/2 BPSK	1	1	22.73	22.69	22.64	24.5	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
				3720	3740	3760		
40	P1/2 BPSK	1	1	22.63	22.74	22.66	24.5	0.0
Channel								
Frequency (MHz)				647698	650000	654332	Tune-up limit (dBm)	MPR (dB)
				3718.02	3693.06	3682.08		
30	P1/2 BPSK	1	1	22.72	22.67	22.57	24.5	0.0
Channel								
Frequency (MHz)				647334	650000	654666	Tune-up limit (dBm)	MPR (dB)
				3719.01	3693.06	3682.09		
20	P1/2 BPSK	1	1	22.73	22.71	22.60	24.5	0.0

Par27Q n77_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				639332	639332	6399.98		
100	P1/2 BPSK	1	1	22.81	22.81	22.81		
100	P1/2 BPSK	1	137	22.70	22.70	22.70	24.5	0.0
100	P1/2 BPSK	1	271	22.75	22.75	22.75		
100	P1/2 BPSK	135	0	22.88	22.88	22.88	24.5	0.0
100	P1/2 BPSK	135	69	22.78	22.78	22.78		
100	P1/2 BPSK	135	138	22.67	22.67	22.67	24.5	0.0
100	P1/2 BPSK	270	0	22.73	22.73	22.73		
100	QPSK	1	1	22.82	22.82	22.76		
100	QPSK	1	137	22.75	22.75	22.75	24.5	0.0
100	QPSK	1	271	22.76	22.76	22.76		
100	QPSK	135	0	22.74	22.74	22.74		
100	QPSK	135	69	22.71	22.71	22.71	24.5	0.0
100	QPSK	135	138	22.74	22.74	22.74		
100	QPSK	270	0	22.82	22.82	22.82	24.5	0.0
100	16QAM	1	1	22.82	22.82	22.82	24.5	0.0
100	16QAM	1	1	21.70	21.70	21.68	23.5	1.0
100	256QAM	1	1	19.68	19.68	19.68	21.5	3.0
Channel								
Frequency (MHz)				639668	633332	634000	Tune-up limit (dBm)	MPR (dB)
				3490.02	3489.06	3489.06		
80	P1/2 BPSK	1	1	22.67	22.66	22.65	24.5	0.0
Channel								
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
				3490	3489.06	3489.06		
60	P1/2 BPSK	1	1	22.66	22.67	22.67	24.5	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
				3470.01	3489.06	3493.06		
40	P1/2 BPSK	1	1	22.62	22.63	22.63	24.5	0.0
Channel								
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
				3465	3489.06	3482.09		
30	P1/2 BPSK	1	1	22.83	22.82	22.83	24.5	0.0
Channel								
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
				3465.02	3489.06	3490		
20	P1/2 BPSK	1	1	22.89	22.81	22.82	24.5	0.0



Par270 n77_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3850	3950		
100	PI2 BPSK	1	1	16.01	16.22	16.07		
100	PI2 BPSK	1	137	16.84	16.08	16.13	18.0	0.0
100	PI2 BPSK	1	271	16.04	16.12	16.03		
100	PI2 BPSK	135	0	16.12	16.20	16.29	18.0	0.0
100	PI2 BPSK	135	69	16.08	16.15	16.27	18.0	0.0
100	PI2 BPSK	135	138	16.01	16.10	16.03		
100	PI2 BPSK	270	0	16.02	16.12	16.99	18.0	0.0
100	QPSK	1	1	16.05	16.32	16.17		
100	QPSK	1	137	16.96	16.14	16.03	18.0	0.0
100	QPSK	1	271	16.04	16.12	16.16		
100	QPSK	135	0	16.10	16.17	16.26		
100	QPSK	135	69	16.07	16.29	16.15	18.0	0.0
100	QPSK	135	138	16.11	16.12	16.98		
100	QPSK	270	0	16.05	16.31	16.24	18.0	0.0
100	16QAM	1	1	16.06	16.20	16.07	18.0	0.0
100	16QAM	1	1	16.10	16.13	16.07	17.0	0.0
100	256QAM	1	1	16.11	16.09	16.03	19.0	0.0
Channel								
Frequency (MHz)				64934	65600	66266	Tune-up limit	MPR
80				74301	8400	30289	(dB)	
Channel				15.95	16.28	16.15	19.0	0.0
Frequency (MHz)				64668	65600	66332	Tune-up limit	MPR
60				72002	8400	30438	(dB)	
Channel				15.97	16.27	16.15	19.0	0.0
Frequency (MHz)				64800	65600	66400	Tune-up limit	MPR
40				3702	3800	3900	(dB)	
Channel				16.04	16.22	16.11	19.0	0.0
Frequency (MHz)				64768	65600	66432	Tune-up limit	MPR
30				23102	30400	30438	(dB)	
Channel				16.04	16.21	16.10	19.0	0.0
Frequency (MHz)				64734	65600	66466	Tune-up limit	MPR
20				23101	3040	30689	(dB)	
Channel				15.97	16.20	16.14	18.0	0.0

Par27Q n77_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332				
100	PI2 BPSK	1	1			16.28		
100	PI2 BPSK	1	137			16.34	18.0	0.0
100	PI2 BPSK	1	271			16.32		
100	PI2 BPSK	135	0			16.36	18.0	0.0
100	PI2 BPSK	135	69			16.22	18.0	0.0
100	PI2 BPSK	135	138			16.26		
100	PI2 BPSK	270	0			16.34	18.0	0.0
100	QPSK	1	1			16.42		
100	QPSK	1	137			16.31	18.0	0.0
100	QPSK	1	271			16.29		
100	QPSK	135	0			16.36		
100	QPSK	135	69			16.35	18.0	0.0
100	QPSK	135	138			16.31		
100	QPSK	270	0			16.38	18.0	0.0
100	16QAM	1	1			16.36	18.0	0.0
100	16QAM	1	1			16.21	17.0	0.0
100	256QAM	1	1			16.34	19.0	0.0
Channel								
Frequency (MHz)				63268	63332	63400	Tune-up limit	MPR
80				34010	34888	35700	(dB)	
Channel				16.33	16.40	16.42	18.0	0.0
Frequency (MHz)				63000	63332	63466	Tune-up limit	MPR
60				34000	34888	35139	(dB)	
Channel				16.34	16.33	16.29	18.0	0.0
Frequency (MHz)				63134	63332	63532	Tune-up limit	MPR
40				34701	34888	35238	(dB)	
Channel				16.42	16.29	16.33	18.0	0.0
Frequency (MHz)				63100	63332	63666	Tune-up limit	MPR
30				34600	34888	35239	(dB)	
Channel				16.39	16.33	16.30	18.0	0.0
Frequency (MHz)				63068	63332	63600	Tune-up limit	MPR
20				34600	34888	35400	(dB)	
Channel				16.30	16.31	16.34	18.0	0.0



Full Power

n2_Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				1860	1860	1900			
20	P12 BPSK	1	1	24.84	24.85	24.92			
20	P12 BPSK	1	63	24.82	24.82	24.79	26.0	0.0	
20	P12 BPSK	1	104	24.81	24.82	24.74			
20	P12 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	P12 BPSK	50	28	24.12	24.84	24.79	25.0	0.0	
20	P12 BPSK	50	56	24.22	24.34	24.33	25.5	0.5	
20	P12 BPSK	100	0	24.27	24.36	24.29			
20	QPSK	1	1	24.96	25.01	24.92			
20	QPSK	1	63	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.96	24.91			
20	QPSK	50	0	23.76	23.79	23.76	25.0	1.0	
20	QPSK	50	28	24.80	24.86	24.78	25.0	0.0	
20	QPSK	50	56	23.70	23.81	23.69	25.0	1.0	
20	QPSK	100	0	23.12	23.84	23.79			
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0	
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.91	20.96	20.41	21.5	4.5	
Channel									
Frequency (MHz)									
				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
15	P12 BPSK	1	1	1867.5	1860	1900.5	25.0	0.0	
Channel									
Frequency (MHz)									
				1865	1860	1900			
10	P12 BPSK	1	1	24.84	24.84	24.89	25.0	0.0	
Channel									
Frequency (MHz)									
				1862.5	1860	1907.5			
5	P12 BPSK	1	1	24.91	24.87	24.86	26.0	0.0	

n2_Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				1860	1860	1900			
20	P12 BPSK	1	1	24.84	24.85	24.92			
20	P12 BPSK	1	63	24.82	24.82	24.79	26.0	0.0	
20	P12 BPSK	1	104	24.81	24.82	24.74			
20	P12 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	P12 BPSK	50	28	24.12	24.84	24.79	25.0	0.0	
20	P12 BPSK	50	56	24.22	24.34	24.33	25.5	0.5	
20	P12 BPSK	100	0	24.27	24.36	24.29			
20	QPSK	1	1	24.96	25.01	24.92			
20	QPSK	1	63	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.96	24.91			
20	QPSK	50	0	23.76	23.79	23.76	25.0	1.0	
20	QPSK	50	28	24.80	24.86	24.78	25.0	0.0	
20	QPSK	50	56	23.70	23.81	23.69	25.0	1.0	
20	QPSK	100	0	23.12	23.84	23.79			
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0	
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.91	20.96	20.41	21.5	4.5	
Channel									
Frequency (MHz)									
				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
15	P12 BPSK	1	1	1867.5	1860	1900.5	25.0	0.0	
Channel									
Frequency (MHz)									
				1865	1860	1900			
10	P12 BPSK	1	1	24.84	24.84	24.89	25.0	0.0	
Channel									
Frequency (MHz)									
				1862.5	1860	1907.5			
5	P12 BPSK	1	1	24.91	24.87	24.86	26.0	0.0	



n2_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	P12 BPSK	1	1	22.61	22.62	22.52	23.5	0.0
20	P12 BPSK	1	83	22.56	22.63	22.53		
20	P12 BPSK	1	104	22.58	22.62	22.57		
20	P12 BPSK	50	0	22.05	22.18	22.13	23.0	0.5
20	P12 BPSK	50	28	22.05	22.06	22.54	23.5	0.0
20	P12 BPSK	50	56	22.05	22.10	22.01	23.0	0.5
20	P12 BPSK	100	0	22.16	22.17	22.10		
20	QPSK	1	1	22.73	22.70	22.75	23.5	0.0
20	QPSK	1	63	22.59	22.70	22.59		
20	QPSK	1	104	22.59	22.65	22.59		
20	QPSK	50	0	21.98	21.69	21.56	22.5	1.0
20	QPSK	50	28	22.60	22.64	22.63	23.5	0.0
20	QPSK	50	56	21.59	21.62	21.61	22.5	1.0
20	QPSK	100	0	21.56	21.63	21.62		
20	16QAM	1	1	21.69	21.78	21.64	22.5	1.0
20	64QAM	1	1	20.29	20.34	20.32	21.0	2.5
20	256QAM	1	1	17.95	18.05	18.04	19.0	4.5
Channel				375000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1867.5	1860	1907.5	(dBm)	(dB)
15	P12 BPSK	1	1	22.55	22.64	22.54	23.5	0.0
Channel				375000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1865	1860	1900	(dBm)	(dB)
10	P12 BPSK	1	1	22.57	22.64	22.54	23.5	0.0
Channel				375000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1862.5	1860	1907.5	(dBm)	(dB)
5	P12 BPSK	1	1	22.54	22.62	22.58	23.5	0.0

n5_Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	836.5	839		
20	P12 BPSK	1	1	24.49	24.61	24.43	26.0	0.0
20	P12 BPSK	1	83	24.32	24.65	24.32		
20	P12 BPSK	1	104	24.49	24.55	24.46		
20	P12 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	P12 BPSK	50	28	24.46	24.53	24.41	26.0	0.0
20	P12 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	P12 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.63	24.71	24.60	26.0	0.0
20	QPSK	1	63	24.58	24.66	24.57		
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.30	23.46	23.33		
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				169300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.55	24.64	24.60	23.0	0.0
Channel				169300	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	P12 BPSK	1	1	24.56	24.63	24.50	25.0	0.0
Channel				169300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.56	24.61	24.60	26.0	0.0



n5_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				168650	167300	167900		
				834	836.5	839		
20	P12 BPSK	1	1	24.49	24.41	24.43	26.0	0.0
20	P12 BPSK	1	83	24.32	24.55	24.32		
20	P12 BPSK	1	104	24.49	24.55	24.46		
20	P12 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	P12 BPSK	50	28	24.46	24.53	24.41	25.0	0.0
20	P12 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	P12 BPSK	100	0	23.91	23.95	23.88	25.0	0.0
20	QPSK	1	1	24.53	24.71	24.62	26.0	0.0
20	QPSK	1	63	24.58	24.65	24.57		
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	25.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.30	23.46	23.33	25.0	1.0
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	P12 BPSK	1	1	24.55	24.64	24.62	23.0	0.0
Channel				168900	167300	168900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	P12 BPSK	1	1	24.55	24.63	24.59	25.0	0.0
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	P12 BPSK	1	1	24.56	24.61	24.63	26.0	0.0

n7_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				505000	507000	510000		
				2510	2535	2560		
20	P12 BPSK	1	1	24.86	24.95	24.94	26.0	0.0
20	P12 BPSK	1	83	24.81	24.91	24.86		
20	P12 BPSK	1	104	24.84	24.93	24.87		
20	P12 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	P12 BPSK	50	28	24.32	24.39	24.33	25.0	0.0
20	P12 BPSK	50	56	24.36	24.45	24.36	25.5	0.5
20	P12 BPSK	100	0	24.30	24.43	24.34	25.0	0.0
20	QPSK	1	1	24.96	24.97	24.91	26.0	0.0
20	QPSK	1	63	24.82	24.91	24.90		
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	25.0	1.0
20	QPSK	50	28	24.85	24.91	24.86	25.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	25.0	1.0
20	QPSK	100	0	23.86	23.96	23.82	25.0	1.0
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel				503000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2567.5		
15	P12 BPSK	1	1	24.81	24.90	24.87	23.0	0.0
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	P12 BPSK	1	1	24.74	24.86	24.87	25.0	0.0
Channel				505000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	P12 BPSK	1	1	24.75	24.82	24.84	26.0	0.0



n7_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel				500000	507000	510000		
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	24.86	24.86	24.94	26.0	0.0
20	PI2 BPSK	1	83	24.81	24.91	24.89		
20	PI2 BPSK	1	104	24.84	24.93	24.87		
20	PI2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	PI2 BPSK	50	29	24.32	24.59	24.33	25.0	0.0
20	PI2 BPSK	50	56	24.36	24.45	24.36	25.5	0.5
20	PI2 BPSK	100	0	24.30	24.43	24.34	25.0	0.0
20	QPSK	1	1	24.96	24.97	24.91	26.0	0.0
20	QPSK	1	63	24.82	24.91	24.90		
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	25.0	1.0
20	QPSK	50	28	24.85	24.91	24.85	25.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	25.0	1.0
20	QPSK	100	0	23.86	23.96	23.83	25.0	1.0
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel				501000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	PI2 BPSK	1	1	24.81	24.90	24.87	25.0	0.0
Channel				501000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2495	2535	2565	(dBm)	(dB)
10	PI2 BPSK	1	1	24.74	24.85	24.87	25.0	0.0
Channel				500000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0

n12_Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141600	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.30	24.30	26.0	0.0
15	PI2 BPSK	1	40	24.25	24.32	24.22		
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	25.0	0.0
15	PI2 BPSK	36	43	23.89	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74	25.0	0.0
15	QPSK	1	1	24.33	24.40	24.35	26.0	0.0
15	QPSK	1	40	24.29	24.36	24.31		
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.92	23.93	23.93	25.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	25.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	25.0	1.0
15	QPSK	75	0	23.21	23.26	23.25	25.0	1.0
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.16	20.21	20.14	21.5	4.5
Channel				140900	141000	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	PI2 BPSK	1	1	24.72	24.84	24.82	25.0	0.0
Channel				140300	141000	142700	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.27	24.36	24.26	26.0	0.0



n12_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30	26.0	0.0
15	PI2 BPSK	1	40	24.26	24.32	24.22		
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.89	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74	26.0	0.0
15	QPSK	1	1	24.33	24.45	24.35	26.0	0.0
15	QPSK	1	40	24.29	24.36	24.31		
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.92	23.93	23.93	26.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.26	23.23	26.0	1.0
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.16	20.21	20.14	21.5	4.5
Channel				149800	141000	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	PI2 BPSK	1	1	24.22	24.34	24.23	23.0	0.0
Channel				149300	141000	142700	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.27	24.35	24.26	26.0	0.0

n25_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	373500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	24.87	24.88	24.85	26.0	0.0
20	PI2 BPSK	1	83	24.73	24.79	24.70		
20	PI2 BPSK	1	104	24.75	24.84	24.74		
20	PI2 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	PI2 BPSK	50	26	24.72	24.81	24.79	26.0	0.0
20	PI2 BPSK	50	56	24.19	24.31	24.25	25.5	0.5
20	PI2 BPSK	100	0	24.30	24.33	24.26	26.0	0.0
20	QPSK	1	1	24.91	25.01	24.93	26.0	0.0
20	QPSK	1	63	24.84	24.95	24.81		
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.98	26.0	1.0
20	QPSK	50	26	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	26.0	1.0
20	QPSK	100	0	24.05	24.11	24.05	26.0	1.0
20	16QAM	1	1	23.94	24.05	24.03	25.0	1.0
20	64QAM	1	1	22.30	22.33	22.26	23.5	2.5
20	256QAM	1	1	20.49	20.62	20.59	21.5	4.5
Channel				371500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1867.5	1882.5	1907.5	(dBm)	(dB)
15	PI2 BPSK	1	1	24.79	24.87	24.83	23.0	0.0
Channel				371000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1865	1882.5	1910	(dBm)	(dB)
10	PI2 BPSK	1	1	24.83	24.88	24.85	23.0	0.0
Channel				370500	376500	382500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1882.5	1912.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.76	24.86	24.80	26.0	0.0



n25_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
				1860	1882.5	1905		
20	P12 BPSK	1	1	24.87	24.88	24.85		
20	P12 BPSK	1	83	24.75	24.79	24.70	26.0	0.0
20	P12 BPSK	1	104	24.75	24.84	24.74		
20	P12 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	P12 BPSK	50	28	24.72	24.81	24.79	25.0	0.0
20	P12 BPSK	50	56	24.19	24.31	24.25	25.5	0.5
20	P12 BPSK	100	0	24.30	24.33	24.26		
20	QPSK	1	1	24.91	24.91	24.83		
20	QPSK	1	63	24.84	24.95	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.88	25.0	1.0
20	QPSK	50	28	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	25.0	1.0
20	QPSK	100	0	24.05	24.11	24.05		
20	16QAM	1	1	23.94	24.05	24.03	25.0	1.0
20	64QAM	1	1	22.30	22.33	22.26	23.5	2.5
20	256QAM	1	1	20.49	20.63	20.59	21.5	4.5
Channel								
Frequency (MHz)								
				37500	37600	38150	Tune-up limit (dBm)	MRR (dB)
15	P12 BPSK	1	1	1867.5	1882.5	1907.5		
15	P12 BPSK	1	1	23.79	24.87	24.87	23.0	0.0
Channel								
Frequency (MHz)								
				37500	37600	38000	Tune-up limit (dBm)	MRR (dB)
10	P12 BPSK	1	1	1865	1882.5	1910		
10	P12 BPSK	1	1	24.83	24.83	24.85	25.0	0.0
Channel								
Frequency (MHz)								
				1862.5	1882.5	1912.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.76	24.86	24.85	26.0	0.0

n25_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
				1860	1882.5	1905		
20	P12 BPSK	1	1	22.47	22.51	22.45		
20	P12 BPSK	1	83	22.44	22.49	22.47	23.5	0.0
20	P12 BPSK	1	104	22.40	22.52	22.45		
20	P12 BPSK	50	0	22.00	22.09	21.97	23.0	0.5
20	P12 BPSK	50	28	22.43	22.56	22.43	23.5	0.0
20	P12 BPSK	50	56	22.00	22.06	21.93	23.0	0.5
20	P12 BPSK	100	0	22.11	22.13	22.12		
20	QPSK	1	1	22.52	22.62	22.52		
20	QPSK	1	63	22.42	22.51	22.45	23.5	0.0
20	QPSK	1	104	22.42	22.53	22.43		
20	QPSK	50	0	21.87	21.95	21.82	22.5	1.0
20	QPSK	50	28	22.44	22.56	22.49	23.5	0.0
20	QPSK	50	56	21.47	21.56	21.44	22.5	1.0
20	QPSK	100	0	21.66	21.69	21.59		
20	16QAM	1	1	21.58	21.59	21.54	22.5	1.0
20	64QAM	1	1	20.16	20.24	20.19	21.0	2.5
20	256QAM	1	1	18.03	18.16	18.07	19.0	4.5
Channel								
Frequency (MHz)								
				37500	37600	38150	Tune-up limit (dBm)	MRR (dB)
15	P12 BPSK	1	1	1867.5	1882.5	1907.5		
15	P12 BPSK	1	1	22.59	22.48	22.43	23.5	0.0
Channel								
Frequency (MHz)								
				37500	37600	38000	Tune-up limit (dBm)	MRR (dB)
10	P12 BPSK	1	1	1865	1882.5	1910		
10	P12 BPSK	1	1	22.55	22.50	22.40	23.5	0.0
Channel								
Frequency (MHz)								
				1862.5	1882.5	1912.5	(dBm)	(dB)
5	P12 BPSK	1	1	22.36	22.44	22.44	23.5	0.0



n26_Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq	Power Middle Ch./ Freq	Power High Ch./ Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				156800	169300	181900		
				824	831.5	839		
20	P12 BPSK	1	1	24.46	24.43	24.50		
20	P12 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	P12 BPSK	1	104	24.42	24.45	24.41		
20	P12 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	P12 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	P12 BPSK	50	56	23.85	23.87	23.77	25.5	0.5
20	P12 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	63	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.53	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	26.0	1.0
20	QPSK	100	0	23.36	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	26.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				164300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.35	24.43	24.40	23.0	0.0
Channel				163800	169300	168800	Tune-up limit	MPR
Frequency (MHz)				819	831.5	844	(dBm)	(dB)
10	P12 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel				163300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.37	24.42	24.30	26.0	0.0

n26_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq	Power Middle Ch./ Freq	Power High Ch./ Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				156800	169300	181900		
				824	831.5	839		
20	P12 BPSK	1	1	24.46	24.43	24.50		
20	P12 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	P12 BPSK	1	104	24.42	24.45	24.41		
20	P12 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	P12 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	P12 BPSK	50	56	23.85	23.87	23.77	25.5	0.5
20	P12 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	63	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.53	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	26.0	1.0
20	QPSK	100	0	23.36	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	26.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				164300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.35	24.43	24.40	23.0	0.0
Channel				163800	169300	168800	Tune-up limit	MPR
Frequency (MHz)				819	831.5	844	(dBm)	(dB)
10	P12 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel				163300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.37	24.42	24.30	26.0	0.0



n30_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				462000	2310			
10	PI2 BPSK	1	1	21.29			22.5	0.0
10	PI2 BPSK	1	25	21.30				
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.21			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			18.0	4.5
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	21.33	2310	2312.5	22.5	0.0

n30_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				462000	2310			
10	PI2 BPSK	1	1	21.29			22.5	0.0
10	PI2 BPSK	1	25	21.30				
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.21			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			18.0	4.5
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	21.33	2310	2312.5	22.5	0.0



n30_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				462000	2310			
10	P12 BPSK	1	1	21.84			23.5	0.0
10	P12 BPSK	1	25	21.96				
10	P12 BPSK	1	50	21.84				
10	P12 BPSK	25	0	21.36			23.0	0.5
10	P12 BPSK	25	14	21.84			23.5	0.0
10	P12 BPSK	25	27	21.36			23.0	0.5
10	P12 BPSK	50	0	21.36				
10	QPSK	1	1	21.90				
10	QPSK	1	25	21.90			23.5	0.0
10	QPSK	1	50	21.85				
10	QPSK	25	0	20.82			22.5	1.0
10	QPSK	25	14	21.85			23.5	0.0
10	QPSK	25	27	20.84			22.5	1.0
10	QPSK	50	0	20.86				
10	16QAM	1	1	21.07			22.5	1.0
10	64QAM	1	1	19.33			21.0	2.5
10	256QAM	1	1	17.23			19.0	4.5
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
5	P12 BPSK	1	1	21.92	2310	2312.5	23.5	0.0

n66_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				345000	1725	1745		
30	P12 BPSK	1	1	24.89	24.81	24.89		
30	P12 BPSK	1	80	24.95	24.75	24.83	26.0	0.0
30	P12 BPSK	1	156	24.75	24.79	24.68		
30	P12 BPSK	80	0	24.16	24.22	24.13		
30	P12 BPSK	80	40	24.61	24.74	24.73	25.5	0.5
30	P12 BPSK	80	80	24.05	24.18	24.08	25.5	0.5
30	P12 BPSK	160	0	24.09	24.16	24.13		
30	QPSK	1	1	24.96	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	156	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.75	23.75		
30	QPSK	80	40	24.73	24.85	24.77	25.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	25.0	1.0
30	QPSK	160	0	23.61	23.66	23.66		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel								
Frequency (MHz)								
				344500	345000	345500	Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	1720	1745	1770		
Channel								
Frequency (MHz)								
				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)
15	P12 BPSK	1	1	1717.5	1745	1772.5		
Channel								
Frequency (MHz)								
				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)
10	P12 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel								
Frequency (MHz)								
				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)
5	P12 BPSK	1	1	1712.5	1745	1777.5		



n66_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				345000	349000	353000		
				1725	1745	1765		
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.81	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08	25.5	0.5
30	PI2 BPSK	150	0	24.09	24.16	24.13		
30	QPSK	1	1	24.96	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.75	23.76	26.0	1.0
30	QPSK	80	40	24.73	24.85	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	150	0	23.81	23.68	23.68		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.23	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel								
Frequency (MHz)				345000	349000	349000	Tune-up limit (dBm)	MPR (dB)
				1720	1745	1770		
20	PI2 BPSK	1	1	24.76	24.73	24.71	23.0	0.0
Channel								
Frequency (MHz)				345000	349000	349000	Tune-up limit (dBm)	MPR (dB)
				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	24.50	24.42	24.65	24.0	0.0
Channel								
Frequency (MHz)				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1715	1745	1775		
10	PI2 BPSK	1	1	24.77	24.61	24.70	26.0	0.0
Channel								
Frequency (MHz)				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				345000	349000	353000		
				1725	1745	1765		
30	PI2 BPSK	1	1	22.06	22.18	22.11		
30	PI2 BPSK	1	80	22.17	22.20	22.07	23.5	0.0
30	PI2 BPSK	1	158	21.90	22.02	21.99		
30	PI2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	PI2 BPSK	80	40	22.11	22.23	22.18	23.5	0.0
30	PI2 BPSK	80	80	21.88	21.70	21.57	23.0	0.5
30	PI2 BPSK	150	0	21.64	21.67	21.64		
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.06	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.06		
30	QPSK	80	0	21.13	21.25	21.12	22.5	1.0
30	QPSK	80	40	22.18	22.23	22.15	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13	22.5	1.0
30	QPSK	150	0	21.16	21.27	21.18		
30	16QAM	1	1	21.38	21.45	21.30	22.5	1.0
30	64QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.68	17.81	17.66	19.0	4.5
Channel								
Frequency (MHz)				345000	349000	349000	Tune-up limit (dBm)	MPR (dB)
				1720	1745	1770		
20	PI2 BPSK	1	1	22.10	22.13	21.90	23.5	0.0
Channel								
Frequency (MHz)				345000	349000	349000	Tune-up limit (dBm)	MPR (dB)
				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	22.02	22.16	22.02	23.5	0.0
Channel								
Frequency (MHz)				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1715	1745	1775		
10	PI2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
Channel								
Frequency (MHz)				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				673	680.5	688		
20	P12 BPSK	1	1	24.71	24.74	24.70		0.0
20	P12 BPSK	1	53	24.66	24.67	24.63	26.0	0.0
20	P12 BPSK	1	104	24.66	24.71	24.66		
20	P12 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	P12 BPSK	50	75	24.50	24.55	24.49	26.0	0.0
20	P12 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	P12 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.63	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.64	24.59	24.58		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.52	23.60	23.57		
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel				134100	134100	134100	Tune-up limit	MPR
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.43	24.41	24.51	25.0	0.0
Channel				133600	134100	133600	Tune-up limit	MPR
Frequency (MHz)				668	680.5	693	(dBm)	(dB)
10	P12 BPSK	1	1	24.62	24.53	24.52	26.0	0.0
Channel				133100	134100	133100	Tune-up limit	MPR
Frequency (MHz)				665.5	680.5	690.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.40	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				673	680.5	688		
20	P12 BPSK	1	1	24.71	24.74	24.70		0.0
20	P12 BPSK	1	53	24.66	24.67	24.63	26.0	0.0
20	P12 BPSK	1	104	24.66	24.71	24.66		
20	P12 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	P12 BPSK	50	75	24.50	24.55	24.49	26.0	0.0
20	P12 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	P12 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.63	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.64	24.59	24.58		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.52	23.60	23.57		
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel				134100	134100	134100	Tune-up limit	MPR
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.43	24.41	24.51	25.0	0.0
Channel				133600	134100	133600	Tune-up limit	MPR
Frequency (MHz)				668	680.5	693	(dBm)	(dB)
10	P12 BPSK	1	1	24.62	24.53	24.52	26.0	0.0
Channel				133100	134100	133100	Tune-up limit	MPR
Frequency (MHz)				665.5	680.5	690.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.40	24.54	24.53	26.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836000	841666	845332		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836000	841666	845332		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836000	841666	845332		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836000	841666	845332		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				6370.58	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				6323.34	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				6311.68	641666	642165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				6300.00	641666	642332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				6370.58	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				6323.34	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				6311.68	641666	642165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				6300.00	641666	642332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	138	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	138	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	25.0	4.5
100	16QAM	1	1	24.92	24.99	24.75	25.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3499.98	24.42				
100	PI2 BPSK	1	137		24.41		26.0	0.0	
100	PI2 BPSK	1	271		24.45				
100	PI2 BPSK	133	0		23.93		25.5	0.5	
100	PI2 BPSK	133	69		24.31		26.0	0.0	
100	PI2 BPSK	133	133		24.15		25.5	0.5	
100	PI2 BPSK	270	0		24.01				
100	QPSK	1	1		24.53				
100	QPSK	1	137		24.28		26.0	0.0	
100	QPSK	1	271		24.32				
100	QPSK	133	0		24.14				
100	QPSK	133	69		24.59		26.0	0.0	
100	QPSK	133	133		24.26				
100	QPSK	270	0		23.62		25.0	1.0	
100	16QAM	1	1		23.66		25.0	1.0	
100	64QAM	1	1		21.81		23.5	2.5	
100	256QAM	1	1		19.83		21.5	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	633000	3495	333312	633668	1.94	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	3495.98	24.17	24.16	26.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	3499.98	24.22	24.25	24.19	26.0	0.0
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	3480	3499.98	3819.99	26.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.23	24.23	24.10	26.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	3475.02	3499.98	3502	26.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.20	24.23	24.21	26.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	631000	3495	3499.98	3534.99	63096	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	3499.98	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42			
100	PI2 BPSK	1	137		24.41		27.5	0.0
100	PI2 BPSK	1	271		24.45			
100	PI2 BPSK	133	0		23.93		27.0	0.5
100	PI2 BPSK	133	69		24.31		27.5	0.0
100	PI2 BPSK	133	133		24.15		27.0	0.5
100	PI2 BPSK	270	0		24.01			
100	QPSK	1	1		24.53			
100	QPSK	1	137		24.28		27.5	0.0
100	QPSK	1	271		24.32			
100	QPSK	133	0		24.14			
100	QPSK	133	69		24.59		27.5	0.0
100	QPSK	133	133		24.26			
100	QPSK	270	0		23.62		26.5	1.0
100	16QAM	1	1		23.66		26.5	1.0
100	64QAM	1	1		21.81		24.0	2.5
100	256QAM	1	1		19.83		23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	3495	333312	633668	1.94
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	133	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	133	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	133	133	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	133	0	24.12	24.23	24.22		
100	QPSK	133	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	133	133	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3904.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3909.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	133	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	133	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	133	0	25.87	25.89	25.77		
100	QPSK	133	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	133	133	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3904.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3909.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				3333.2			3499.98	
100	PI2 BPSK	1	1	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45	26.0	0.0
100	PI2 BPSK	138	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	138	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	138	138	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01	26.0	0.0
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32	26.0	0.0
100	QPSK	138	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	138	69	24.59	24.59	24.59	26.0	0.0
100	QPSK	138	138	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel				633000	3333.2	633668	1348	
Frequency (MHz)				3495	3499.98	3504.99	1348	
90	PI2 BPSK	1	1	24.17	24.17	24.16	26.0	0.0
Channel				632668	3333.2	633000	1348	
Frequency (MHz)				3490.02	3499.98	3510	1348	
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel				632000	3333.2	633668	1348	
Frequency (MHz)				3480	3499.98	3519.99	1348	
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel				631168	3333.2	633000	1348	
Frequency (MHz)				3475.02	3499.98	3524	1348	
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel				631000	3333.2	633392	1348	
Frequency (MHz)				3470.01	3499.98	3529.98	1348	
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel				631000	3333.2	633668	1348	
Frequency (MHz)				3465	3499.98	3534.99	1348	
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel				630968	3333.2	630000	1348	
Frequency (MHz)				3460.02	3499.98	3540	1348	
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				3333.2			3499.98	
100	PI2 BPSK	1	1	25.99	25.99	25.99	27.5	0.0
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03	27.5	0.0
100	PI2 BPSK	138	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	138	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46	27.5	0.0
100	QPSK	1	1	26.11	26.11	26.11	27.5	0.0
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04	27.5	0.0
100	QPSK	138	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	138	69	26.08	26.08	26.08	27.5	0.0
100	QPSK	138	138	25.84	25.84	25.84	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel				633000	3333.2	633668	1348	
Frequency (MHz)				3495	3499.98	3504.99	1348	
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel				632668	3333.2	633000	1348	
Frequency (MHz)				3490.02	3499.98	3510	1348	
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel				632000	3333.2	633668	1348	
Frequency (MHz)				3480	3499.98	3519.99	1348	
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel				631168	3333.2	633000	1348	
Frequency (MHz)				3475.02	3499.98	3524	1348	
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel				631000	3333.2	633392	1348	
Frequency (MHz)				3470.01	3499.98	3529.98	1348	
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel				631000	3333.2	633668	1348	
Frequency (MHz)				3465	3499.98	3534.99	1348	
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel				630968	3333.2	630000	1348	
Frequency (MHz)				3460.02	3499.98	3540	1348	
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01		
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	26.08	26.01	26.06	27.0	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92		
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95		
100	QPSK	138	138	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.89	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42	25.99		
100	PI2 BPSK	1	137	3499.98	24.41	26.00	26.0	0.0
100	PI2 BPSK	1	271	3499.98	24.45	26.03		
100	PI2 BPSK	138	0	3499.98	23.93	25.51	25.5	0.5
100	PI2 BPSK	138	69	3499.98	24.31	25.96	26.0	0.0
100	PI2 BPSK	138	138	3499.98	24.15	25.50	25.5	0.5
100	PI2 BPSK	270	0	3499.98	24.01	25.46		
100	QPSK	1	1	3499.98	24.53	26.11		
100	QPSK	1	137	3499.98	24.28	26.05	26.0	0.0
100	QPSK	1	271	3499.98	24.32	26.04		
100	QPSK	138	0	3499.98	24.14	25.98		
100	QPSK	138	69	3499.98	24.59	26.08	26.0	0.0
100	QPSK	138	138	3499.98	24.26	25.84	27.5	0.0
100	QPSK	270	0	3499.98	23.62	25.01	26.5	1.0
100	16QAM	1	1	3499.98	23.66	25.0	25.0	1.0
100	64QAM	1	1	3499.98	21.81	23.5	23.5	2.5
100	256QAM	1	1	3499.98	19.83	21.5	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3499.98	3333.12	3304.99	3304.99	1.98
90	PI2 BPSK	1	1	3499.98	24.17	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3499.98	3499.98	3510	3510	1.98
80	PI2 BPSK	1	1	3499.98	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3499.98	3480	3819.99	3819.99	1.98
60	PI2 BPSK	1	1	3499.98	24.23	24.31	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3499.98	3475.02	3024	3024	1.98
50	PI2 BPSK	1	1	3499.98	24.20	24.23	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3499.98	3470.01	3529.98	3529.98	1.98
40	PI2 BPSK	1	1	3499.98	24.28	24.24	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3499.98	63000	63096	63096	1.98
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3499.98	3460.02	3540	3540	1.98
20	PI2 BPSK	1	1	3499.98	24.21	24.23	26.0	0.0

Par27Q n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3499.98	24.42	25.99			
100	PI2 BPSK	1	137	3499.98	24.41	26.00	27.5	0.0	
100	PI2 BPSK	1	271	3499.98	24.45	26.03			
100	PI2 BPSK	138	0	3499.98	23.93	25.51	27.0	0.5	
100	PI2 BPSK	138	69	3499.98	24.31	25.96	27.5	0.0	
100	PI2 BPSK	138	138	3499.98	24.15	25.50	27.0	0.5	
100	PI2 BPSK	270	0	3499.98	24.01	25.46			
100	QPSK	1	1	3499.98	24.53	26.11			
100	QPSK	1	137	3499.98	24.28	26.05	27.5	0.0	
100	QPSK	1	271	3499.98	24.32	26.04			
100	QPSK	138	0	3499.98	24.14	25.98			
100	QPSK	138	69	3499.98	24.59	26.08	27.5	0.0	
100	QPSK	138	138	3499.98	24.26	25.84			
100	QPSK	270	0	3499.98	23.62	24.91	26.5	1.0	
100	16QAM	1	1	3499.98	23.66	24.99	26.5	1.0	
100	64QAM	1	1	3499.98	21.81	23.4	26.0	2.5	
100	256QAM	1	1	3499.98	19.83	21.31	23.0	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	3499.98	3333.12	3304.99	3304.99	1.98	
90	PI2 BPSK	1	1	3499.98	25.92	25.96	25.87	27.5	0.0
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	3499.98	3499.98	3510	3510	1.98	
80	PI2 BPSK	1	1	3499.98	26.00	26.04	25.90	27.5	0.0
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	3499.98	3480	3819.99	3819.99	1.98	
60	PI2 BPSK	1	1	3499.98	25.97	26.04	25.86	27.5	0.0
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	3499.98	3475.02	3024	3024	1.98	
50	PI2 BPSK	1	1	3499.98	25.97	26.03	25.89	27.5	0.0
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	3499.98	3470.01	3529.98	3529.98	1.98	
40	PI2 BPSK	1	1	3499.98	26.01	26.02	25.94	27.5	0.0
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	3499.98	63000	63096	63096	1.98	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	3499.98	3460.02	3540	3540	1.98	
20	PI2 BPSK	1	1	3499.98	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84768	86500	88200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	86500	88200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3904.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84768	86500	88200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3909.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	26.08	26.01	26.06	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84768	86500	88200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	86500	88200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3904.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84768	86500	88200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3909.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.42	24.42			
100	PI2 BPSK	1	137	24.41	24.41		26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45			
100	PI2 BPSK	135	0	23.93	23.93		25.5	0.5
100	PI2 BPSK	135	66	24.31	24.31		26.0	0.0
100	PI2 BPSK	135	138	24.15	24.15		25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01			
100	QPSK	1	1	24.53	24.53			
100	QPSK	1	137	24.26	24.26		26.0	0.0
100	QPSK	1	271	24.32	24.32			
100	QPSK	135	0	24.14	24.14			
100	QPSK	135	66	24.39	24.39		26.0	0.0
100	QPSK	135	138	24.26	24.26			
100	QPSK	270	0	23.62	23.62		26.0	1.0
100	64QAM	1	1	23.96	23.96		26.0	1.0
100	64QAM	1	1	21.81	21.81		23.5	2.5
100	256QAM	1	1	19.83	19.83	633666	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.99	25.99			
100	PI2 BPSK	1	137	26.00	26.00		27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03			
100	PI2 BPSK	135	0	25.51	25.51		27.0	0.5
100	PI2 BPSK	135	66	25.96	25.96		27.5	0.0
100	PI2 BPSK	135	138	25.50	25.50		27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46			
100	QPSK	1	1	26.11	26.11			
100	QPSK	1	137	26.06	26.06		27.5	0.0
100	QPSK	1	271	26.04	26.04			
100	QPSK	135	0	25.98	25.98			
100	QPSK	135	66	26.08	26.08		27.5	0.0
100	QPSK	135	138	25.94	25.94			
100	QPSK	270	0	24.91	24.91		26.5	1.0
100	64QAM	1	1	24.96	24.96		26.5	1.0
100	64QAM	1	1	23.64	23.64		25.0	2.5
100	256QAM	1	1	21.31	21.31	633666	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



State 6 Power

n2_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				375000	376000	380000		
Frequency (MHz)				1850	1850	1900		
20	PI2 BPSK	1	1	24.54	24.55	24.92		
20	PI2 BPSK	1	53	24.82	24.92	24.78	26.0	0.0
20	PI2 BPSK	1	104	24.81	24.92	24.74		
20	PI2 BPSK	50	0	24.96	24.99	24.26	25.5	0.5
20	PI2 BPSK	50	25	24.72	24.84	24.75	25.0	0.0
20	PI2 BPSK	50	56	24.22	24.34	24.33	25.5	0.5
20	PI2 BPSK	100	0	24.27	24.36	24.29		
20	QPSK	1	1	24.95	25.01	24.92		
20	QPSK	1	53	24.92	24.93	24.88	26.0	0.0
20	QPSK	1	104	24.92	24.96	24.91		
20	QPSK	50	0	23.76	23.79	23.75	25.0	1.0
20	QPSK	50	25	24.80	24.86	24.78	26.0	0.0
20	QPSK	50	56	23.70	23.81	23.89	25.0	1.0
20	QPSK	100	0	23.72	23.84	23.79		
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1827.5	1850	1907.5	(dBm)	
15	PI2 BPSK	1	1	24.83	24.91	24.83	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1855	1850	1905	(dBm)	
10	PI2 BPSK	1	1	24.54	24.54	24.83	25.0	0.0
Channel				375000	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1862.5	1850	1907.5	(dBm)	
5	PI2 BPSK	1	1	24.91	24.97	24.90	26.0	0.0

n2_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				375000	376000	380000		
Frequency (MHz)				1850	1850	1900		
20	PI2 BPSK	1	1	24.54	24.55	24.92		
20	PI2 BPSK	1	53	24.82	24.92	24.78	26.0	0.0
20	PI2 BPSK	1	104	24.81	24.92	24.74		
20	PI2 BPSK	50	0	24.96	24.99	24.26	25.5	0.5
20	PI2 BPSK	50	25	24.72	24.84	24.75	25.0	0.0
20	PI2 BPSK	50	56	24.22	24.34	24.33	25.5	0.5
20	PI2 BPSK	100	0	24.27	24.36	24.29		
20	QPSK	1	1	24.95	25.01	24.92		
20	QPSK	1	53	24.92	24.93	24.88	26.0	0.0
20	QPSK	1	104	24.92	24.96	24.91		
20	QPSK	50	0	23.76	23.79	23.75	25.0	1.0
20	QPSK	50	25	24.80	24.86	24.78	26.0	0.0
20	QPSK	50	56	23.70	23.81	23.89	25.0	1.0
20	QPSK	100	0	23.72	23.84	23.79		
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1827.5	1850	1907.5	(dBm)	
15	PI2 BPSK	1	1	24.83	24.91	24.83	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1855	1850	1905	(dBm)	
10	PI2 BPSK	1	1	24.54	24.54	24.83	25.0	0.0
Channel				375000	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1862.5	1850	1907.5	(dBm)	
5	PI2 BPSK	1	1	24.91	24.97	24.90	26.0	0.0



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
20	PI2 BPSK	1	1	19.94	20.07	20.00		
20	PI2 BPSK	1	53	19.92	20.03	20.01	21.0	0.0
20	PI2 BPSK	1	104	19.96	20.01	20.00		
20	PI2 BPSK	50	0	19.95	19.98	19.97	21.0	0.0
20	PI2 BPSK	50	25	19.97	19.96	19.91	21.0	0.0
20	PI2 BPSK	50	56	19.88	19.97	19.84	21.0	0.0
20	PI2 BPSK	100	0	19.93	19.96	19.96		
20	QPSK	1	1	20.13	20.18	20.14		
20	QPSK	1	53	20.11	20.12	20.08	21.0	0.0
20	QPSK	1	104	20.01	20.03	19.98		
20	QPSK	50	0	19.90	19.94	19.85	21.0	0.0
20	QPSK	50	25	19.88	19.96	19.88	21.0	0.0
20	QPSK	50	56	19.87	19.89	19.82	21.0	0.0
20	QPSK	100	0	19.81	19.84	19.85		
20	16QAM	1	1	19.77	19.87	19.86	21.0	0.0
20	64QAM	1	1	19.91	19.94	19.85	21.0	0.0
20	256QAM	1	1	17.97	18.07	18.01	19.0	2.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	19.75	19.0	19.075	(dBm)	(dB)
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				1855	1860	1900	(dBm)	(dB)
Channel								
Frequency (MHz)				376500	376000	381500	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				1862.5	1860	1907.5	(dBm)	(dB)
5	PI2 BPSK	1	1	19.83	19.86	19.82	21.0	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	24.49	24.51	24.43		
20	PI2 BPSK	1	53	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.49	24.55	24.46		
20	PI2 BPSK	50	0	23.99	24.02	24.00	26.5	0.5
20	PI2 BPSK	50	25	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92	26.5	0.5
20	PI2 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.63	24.71	24.69		
20	QPSK	1	53	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	25	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.30	23.46	23.33		
20	16QAM	1	1	23.55	23.58	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.75	23.5	2.5
20	256QAM	1	1	18.90	20.03	20.02	21.5	4.5
Channel								
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.55	24.61	24.60	25.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				829	830.5	844	(dBm)	(dB)
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.55	24.61	24.60	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				168800	167300	167500		
Frequency (MHz)				244	839.5	839		
20	PI2 BPSK	1	1	24.49	24.81	24.43		
20	PI2 BPSK	1	53	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.49	24.55	24.46		
20	PI2 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	PI2 BPSK	50	25	24.46	24.53	24.41	25.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	PI2 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.53	24.71	24.60		
20	QPSK	1	53	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.45		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	25	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.30	23.46	23.33		
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.81	21.75	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	839.5	841.5	(dB)	
15	PI2 BPSK	1	1	24.55	24.64	24.60	25.0	0.0
Channel				168800	167300	168800	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	839.5	844	(dB)	
10	PI2 BPSK	1	1	24.55	24.63	24.59	25.0	0.0
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				828.5	839.5	846.5	(dB)	
5	PI2 BPSK	1	1	24.55	24.61	24.60	26.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				500000	507000	510000		
Frequency (MHz)				2410	2335	2350		
20	PI2 BPSK	1	1	24.86	24.86	24.84		
20	PI2 BPSK	1	53	24.81	24.81	24.86	26.0	0.0
20	PI2 BPSK	1	104	24.84	24.93	24.87		
20	PI2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	PI2 BPSK	50	25	24.32	24.39	24.33	25.0	0.0
20	PI2 BPSK	50	56	24.36	24.46	24.36		
20	PI2 BPSK	100	0	24.30	24.43	24.34	25.5	0.5
20	QPSK	1	1	24.96	24.97	24.91		
20	QPSK	1	53	24.82	24.91	24.90	26.0	0.0
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	25.0	1.0
20	QPSK	50	25	24.85	24.91	24.86	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	25.0	1.0
20	QPSK	100	0	23.88	23.95	23.83		
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.67	20.61	21.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2407.5	2335	2367.5	(dB)	
15	PI2 BPSK	1	1	24.81	24.90	24.87	25.0	0.0
Channel				501000	507000	510000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2405	2335	2365	(dB)	
10	PI2 BPSK	1	1	24.74	24.86	24.87	25.0	0.0
Channel				500500	507000	510500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2402.5	2335	2367.5	(dB)	
5	PI2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 500000	Middle Ch. Freq. 507000	High Ch. Freq. 515000		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.38	19.44	19.32	20.5	0.0
20	PI2 BPSK	1	63	19.26	19.33	19.32		
20	PI2 BPSK	1	104	19.21	19.31	19.19		
20	PI2 BPSK	50	0	19.33	19.39	19.41	20.5	0.0
20	PI2 BPSK	50	26	19.27	19.31	19.18	20.5	0.0
20	PI2 BPSK	50	56	19.28	19.36	19.25	20.5	0.0
20	PI2 BPSK	100	0	19.38	19.42	19.31	20.5	0.0
20	QPSK	1	1	19.34	19.54	19.22		
20	QPSK	1	63	19.30	19.36	19.23		
20	QPSK	1	104	19.26	19.28	19.23	20.5	0.0
20	QPSK	50	0	19.34	19.42	19.40	20.5	0.0
20	QPSK	50	26	19.32	19.41	19.34	20.5	0.0
20	QPSK	50	56	19.25	19.33	19.24	20.5	0.0
20	QPSK	100	0	19.30	19.35	19.32	20.5	0.0
20	16QAM	1	1	19.35	19.38	19.33		
20	64QAM	1	1	19.20	19.29	19.17		
20	256QAM	1	1	19.21	19.28	19.26	20.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	507000	507000	512500	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	507000	507000	510000	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	500000	507000	515000	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	2502.5	2535	2567.5	20.5	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141300	Middle Ch. Freq. 141500	High Ch. Freq. 141700		
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.30	24.39	24.30	26.0	0.0
15	PI2 BPSK	1	40	24.25	24.32	24.22		
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	26.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.69	23.78	23.75	26.5	0.5
15	PI2 BPSK	72	0	23.62	23.75	23.74	26.0	0.0
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31		
15	QPSK	1	77	24.30	24.43	24.30	26.0	1.0
15	QPSK	36	0	23.22	23.33	23.31	26.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	72	0	23.21	23.25	23.23	26.0	1.0
15	16QAM	1	1	23.69	23.78	23.07		
15	64QAM	1	1	21.55	21.59	21.61		
15	256QAM	1	1	20.16	20.21	20.14	21.5	4.5
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	142000	141500	142500	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	142000	141500	142700	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	702.5	707.5	713.5	26.0	0.0



n12_Ant2

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	141900	141900		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30		
15	PI2 BPSK	1	40	24.26	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	26.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.69	23.78	23.79	26.5	0.5
15	PI2 BPSK	79	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.35	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	25.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.29	25.0	1.0
15	QPSK	75	0	23.21	23.29	23.23		
15	16QAM	1	1	23.09	23.18	23.07	26.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.16	20.21	20.14	21.5	4.5
Channel				140800	141000	142000	Tune-up limit (dBm)	MPR
Frequency (MHz)				704	707.5	711	(dB)	(dB)
10	PI2 BPSK	1	1	24.22	24.31	24.23	25.0	0.0
Channel				140900	141000	142000	Tune-up limit (dBm)	MPR
Frequency (MHz)				701.5	707.5	713.5	(dB)	(dB)
5	PI2 BPSK	1	1	24.27	24.35	24.20	26.0	0.0

n25_Ant1

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				372000	376000	381000		
Frequency (MHz)				1860	1892.5	1905		
20	PI2 BPSK	1	1	24.87	24.88	24.85		
20	PI2 BPSK	1	53	24.73	24.79	24.70	26.0	0.0
20	PI2 BPSK	1	104	24.75	24.84	24.74		
20	PI2 BPSK	50	0	24.82	24.85	24.81	26.5	0.5
20	PI2 BPSK	50	25	24.72	24.81	24.78	26.0	0.0
20	PI2 BPSK	50	56	24.19	24.31	24.25		
20	PI2 BPSK	100	0	24.90	24.93	24.88	26.5	0.5
20	QPSK	1	1	24.81	24.98	24.83		
20	QPSK	1	53	24.84	24.95	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.95	23.88	25.0	1.0
20	QPSK	50	26	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	25.0	1.0
20	QPSK	100	0	24.05	24.11	24.00		
20	16QAM	1	1	23.84	24.05	24.03	26.0	1.0
20	64QAM	1	1	22.30	22.33	22.26	23.5	2.5
20	256QAM	1	1	20.46	20.49	20.39	21.5	4.5
Channel				371600	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1867.5	1892.5	1907.5	(dB)	(dB)
15	PI2 BPSK	1	1	24.79	24.87	24.82	25.0	0.0
Channel				371900	376000	380000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1865	1892.5	1910	(dB)	(dB)
10	PI2 BPSK	1	1	24.53	24.59	24.52	25.0	0.0
Channel				370500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1862.5	1892.5	1912.5	(dB)	(dB)
5	PI2 BPSK	1	1	24.76	24.86	24.80	26.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	24.87	24.88	24.89		
20	P12 BPSK	1	63	24.73	24.79	24.70	26.0	0.0
20	P12 BPSK	1	104	24.75	24.84	24.74		
20	P12 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	P12 BPSK	50	26	24.72	24.81	24.79	26.0	0.0
20	P12 BPSK	50	56	24.19	24.31	24.25	25.5	0.5
20	P12 BPSK	100	0	24.80	24.83	24.82		
20	QPSK	1	1	24.91	24.95	24.83		
20	QPSK	1	63	24.84	24.95	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.95	23.88	25.0	1.0
20	QPSK	50	26	24.80	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	25.0	1.0
20	QPSK	100	0	24.05	24.11	24.00		
20	16QAM	1	1	23.84	24.05	24.03	25.0	1.0
20	64QAM	1	1	22.30	22.33	22.25	23.5	2.5
20	256QAM	1	1	20.46	20.62	20.56	21.5	4.5
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	P12 BPSK	1	1	24.70	24.87	24.82	25.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	P12 BPSK	1	1	1855	1862.5	1910	23.0	0.0
Channel								
Frequency (MHz)				370500	375500	380500	Tune-up limit (dBm)	MPR (dB)
5	P12 BPSK	1	1	24.76	24.86	24.80	26.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	20.12	20.17	20.10		
20	P12 BPSK	1	63	20.01	20.14	20.11	21.0	0.0
20	P12 BPSK	1	104	20.04	20.14	20.01		
20	P12 BPSK	50	0	20.15	20.17	20.10	21.0	0.0
20	P12 BPSK	50	26	20.11	20.24	20.17	21.0	0.0
20	P12 BPSK	50	56	20.02	20.19	20.05	21.0	0.0
20	P12 BPSK	100	0	19.97	20.04	20.10		
20	QPSK	1	1	20.17	20.27	20.22		
20	QPSK	1	63	20.09	20.23	20.15	21.0	0.0
20	QPSK	1	104	20.07	20.16	20.12		
20	QPSK	50	0	20.02	20.22	20.05	21.0	0.0
20	QPSK	50	26	20.07	20.23	20.11	21.0	0.0
20	QPSK	50	56	19.99	20.21	20.09	21.0	0.0
20	QPSK	100	0	20.05	20.08	20.03		
20	16QAM	1	1	20.01	20.11	20.08	21.0	0.0
20	64QAM	1	1	19.98	20.01	20.00	21.0	0.0
20	256QAM	1	1	18.00	18.06	18.01	19.0	2.0
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	P12 BPSK	1	1	20.13	20.19	20.11	21.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	P12 BPSK	1	1	1855	1862.5	1910	23.0	0.0
Channel								
Frequency (MHz)				370500	375500	380500	Tune-up limit (dBm)	MPR (dB)
5	P12 BPSK	1	1	20.13	20.16	20.16	21.0	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
20	PI2 BPSK	1	1	24.46	24.53	24.50		
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	PI2 BPSK	50	25	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.86	23.87	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.55		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	25	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.06	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.05	21.5	4.5
Channel								
Frequency (MHz)				164900	166300	168300	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.35	24.43	24.40	25.0	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.43	24.39	24.42	25.0	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.37	24.42	24.30	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
20	PI2 BPSK	1	1	24.46	24.53	24.50		
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	PI2 BPSK	50	25	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.86	23.87	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.55		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	25	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.06	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.05	21.5	4.5
Channel								
Frequency (MHz)				164900	166300	168300	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.35	24.43	24.40	25.0	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.43	24.39	24.42	25.0	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.37	24.42	24.30	26.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				462000			2310	
10	PI2 BPSK	1	1	21.29	21.30	21.31	22.5	0.0
10	PI2 BPSK	1	25	21.30	21.31	21.32		
10	PI2 BPSK	1	50	21.31	21.32	21.33		
10	PI2 BPSK	25	0	20.97	20.98	20.99	22.0	0.5
10	PI2 BPSK	25	14	21.27	21.28	21.29	22.0	0.5
10	PI2 BPSK	25	27	20.78	20.79	20.80	22.0	0.5
10	PI2 BPSK	50	0	20.80	20.81	20.82	22.0	0.5
10	QPSK	1	1	21.50	21.51	21.52	21.5	1.0
10	QPSK	1	25	21.34	21.35	21.36	22.5	0.0
10	QPSK	1	50	21.33	21.34	21.35	22.5	0.0
10	QPSK	25	0	20.22	20.23	20.24	21.5	1.0
10	QPSK	25	14	21.36	21.37	21.38	22.5	0.0
10	QPSK	25	27	20.24	20.25	20.26	21.5	1.0
10	QPSK	50	0	20.31	20.32	20.33	21.5	1.0
10	16QAM	1	1	20.23	20.24	20.25	21.5	1.0
10	64QAM	1	1	18.67	18.68	18.69	20.0	2.5
10	256QAM	1	1	16.69	16.70	16.71	18.0	4.5
Channel				461500	462000	462500	Tune-up limit	MRR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				462000			2310	
10	PI2 BPSK	1	1	21.29	21.30	21.31	22.5	0.0
10	PI2 BPSK	1	25	21.30	21.31	21.32		
10	PI2 BPSK	1	50	21.31	21.32	21.33		
10	PI2 BPSK	25	0	20.97	20.98	20.99	22.0	0.5
10	PI2 BPSK	25	14	21.27	21.28	21.29	22.0	0.5
10	PI2 BPSK	25	27	20.78	20.79	20.80	22.0	0.5
10	PI2 BPSK	50	0	20.80	20.81	20.82	22.0	0.5
10	QPSK	1	1	21.50	21.51	21.52	21.5	1.0
10	QPSK	1	25	21.34	21.35	21.36	22.5	0.0
10	QPSK	1	50	21.33	21.34	21.35	22.5	0.0
10	QPSK	25	0	20.22	20.23	20.24	21.5	1.0
10	QPSK	25	14	21.36	21.37	21.38	22.5	0.0
10	QPSK	25	27	20.24	20.25	20.26	21.5	1.0
10	QPSK	50	0	20.31	20.32	20.33	21.5	1.0
10	16QAM	1	1	20.23	20.24	20.25	21.5	1.0
10	64QAM	1	1	18.67	18.68	18.69	20.0	2.5
10	256QAM	1	1	16.69	16.70	16.71	18.0	4.5
Channel				461500	462000	462500	Tune-up limit	MRR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				462000				
Frequency (MHz)								
10	PI2 BPSK	1	1	20.28	20.28			
10	PI2 BPSK	1	25	20.27	20.27		22.0	0.0
10	PI2 BPSK	1	50	20.26	20.26			
10	PI2 BPSK	25	0	20.34	20.34		22.0	0.0
10	PI2 BPSK	25	14	20.30	20.30		22.0	0.0
10	PI2 BPSK	25	27	20.25	20.25		22.0	0.0
10	PI2 BPSK	30	0	20.23	20.23			
10	QPSK	1	1	20.35	20.35			
10	QPSK	1	25	20.32	20.32		22.0	0.0
10	QPSK	1	50	20.29	20.29			
10	QPSK	25	0	20.31	20.31		22.0	0.0
10	QPSK	25	14	20.33	20.33		22.0	0.0
10	QPSK	25	27	20.28	20.28		22.0	0.0
10	QPSK	50	0	20.20	20.20			
10	16QAM	1	1	20.21	20.21		22.0	0.0
10	64QAM	1	1	19.28	21.0	21.0	19.0	1.0
10	256QAM	1	1	17.23	19.0	19.0	17.0	1.0
Channel								
				461500	462000	462500	Tune-up limit	MPR
Frequency (MHz)								
5	PI2 BPSK	1	1	20.27	20.28	20.21	22.0	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				345000	349000	353000		
Frequency (MHz)								
30	PI2 BPSK	1	1	24.69	24.61	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.89		
30	PI2 BPSK	80	0	24.16	24.22	24.13	26.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.5
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	100	0	24.09	24.16	24.13	26.5	0.5
30	QPSK	1	1	24.96	24.97	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.10	23.19	23.15	23.0	1.0
30	QPSK	80	40	24.73	24.86	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	100	0	23.61	23.68	23.65		
30	16QAM	1	1	23.56	23.70	23.84	26.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.35	21.5	4.5
Channel								
				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)								
30	PI2 BPSK	1	1	17.20	17.45	17.70	19.0	0.0
Channel								
				343500	349000	344500	Tune-up limit	MPR
Frequency (MHz)								
15	PI2 BPSK	1	1	171.73	1745	1772.5	23.0	0.0
Channel								
				343000	349000	350000	Tune-up limit	MPR
Frequency (MHz)								
10	PI2 BPSK	1	1	1715	1745	1775	23.0	0.0
Channel								
				342500	349000	350500	Tune-up limit	MPR
Frequency (MHz)								
5	PI2 BPSK	1	1	1712.5	1745	1777.5	26.0	0.0



n66_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				345000	345000	350000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.69		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08	25.5	0.5
30	PI2 BPSK	160	0	24.09	24.16	24.13		
30	QPSK	1	1	24.86	24.97	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	25.0	1.0
30	QPSK	80	40	24.73	24.86	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	25.0	1.0
30	QPSK	160	0	23.61	23.68	23.65		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
30	PI2 BPSK	1	1	24.76	24.76	24.71	25.0	0.0
Channel				343500	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI2 BPSK	1	1	24.83	24.82	24.65	25.0	0.0
Channel				343000	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI2 BPSK	1	1	24.77	24.84	24.70	25.0	0.0
Channel				342500	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				345000	345000	350000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	22.06	22.18	22.11		
30	PI2 BPSK	1	80	22.17	22.20	22.07	23.5	0.0
30	PI2 BPSK	1	158	21.90	22.02	21.99		
30	PI2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	PI2 BPSK	80	40	22.11	22.23	22.18	25.5	0.0
30	PI2 BPSK	80	80	21.68	21.70	21.57	23.0	0.5
30	PI2 BPSK	160	0	21.64	21.67	21.64		
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.06	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.06		
30	QPSK	80	0	21.13	21.25	21.12	22.5	1.0
30	QPSK	80	40	22.18	22.23	22.15	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13	22.5	1.0
30	QPSK	160	0	21.16	21.27	21.18		
30	16QAM	1	1	21.39	21.45	21.30	22.5	1.0
30	64QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.68	17.81	17.66	19.0	4.5
Channel				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
30	PI2 BPSK	1	1	22.10	22.13	21.99	23.5	0.0
Channel				343500	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI2 BPSK	1	1	22.02	22.18	22.02	23.5	0.0
Channel				343000	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
Channel				342500	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_Ant0

Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel									
134600 - 138100 - 137600									
20	PI2 BPSK	1	1	1	24.71	24.74	24.70		
20	PI2 BPSK	1	53	1	24.56	24.67	24.63	28.0	0.0
20	PI2 BPSK	1	104	1	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.40	25.5	0.5	
20	PI2 BPSK	50	78	24.50	24.58	24.69	26.0	0.0	
20	PI2 BPSK	50	56	24.12	24.15	24.30		0.5	
20	PI2 BPSK	100	0	24.97	24.17	24.14		0.5	
20	QPSK	1	1	24.70	24.82	24.73			
20	QPSK	1	53	1	24.53	24.62	24.60	28.0	0.0
20	QPSK	1	104	1	24.54	24.59	24.58		
20	QPSK	50	0	23.87	23.14	23.81	25.0	1.0	
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0	
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0	
20	QPSK	100	0	23.52	23.63	23.57			
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0	
20	16QAM	1	1	22.11	22.14	21.99	23.5	2.5	
20	256QAM	1	1	20.96	20.99	20.95	21.5	4.5	
Channel									
134100 - 138100 - 138100									
15	PI2 BPSK	1	1	1	24.43	24.61	24.51	25.0	0.0
Channel									
133600 - 138100 - 138600									
Frequency (MHz)									
10	PI2 BPSK	1	1	1	24.52	24.53	24.52	26.0	0.0
Channel									
133100 - 138100 - 139100									
Frequency (MHz)									
5	PI2 BPSK	1	1	1	24.45	24.54	24.53	25.0	0.0

n71_Ant2

Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel									
134600 - 138100 - 137600									
20	PI2 BPSK	1	1	1	24.71	24.74	24.70		
20	PI2 BPSK	1	53	1	24.56	24.67	24.63	28.0	0.0
20	PI2 BPSK	1	104	1	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.40	25.5	0.5	
20	PI2 BPSK	50	78	24.50	24.58	24.69	26.0	0.0	
20	PI2 BPSK	50	56	24.12	24.15	24.30		0.5	
20	PI2 BPSK	100	0	24.97	24.17	24.14		0.5	
20	QPSK	1	1	24.70	24.82	24.73			
20	QPSK	1	53	1	24.53	24.62	24.60	28.0	0.0
20	QPSK	1	104	1	24.54	24.59	24.58		
20	QPSK	50	0	23.87	23.14	23.81	25.0	1.0	
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0	
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0	
20	QPSK	100	0	23.52	23.63	23.57			
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0	
20	16QAM	1	1	22.11	22.14	21.99	23.5	2.5	
20	256QAM	1	1	20.96	20.99	20.95	21.5	4.5	
Channel									
134100 - 138100 - 138100									
15	PI2 BPSK	1	1	1	24.43	24.61	24.51	25.0	0.0
Channel									
133600 - 138100 - 138600									
Frequency (MHz)									
10	PI2 BPSK	1	1	1	24.52	24.53	24.52	26.0	0.0
Channel									
133100 - 138100 - 139100									
Frequency (MHz)									
5	PI2 BPSK	1	1	1	24.45	24.54	24.53	25.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	17.68	17.64	17.57		0.0
40	PI2 BPSK	1	53	17.49	17.63	17.39	19.0	0.0
40	PI2 BPSK	1	104	17.59	17.63	17.51		
40	PI2 BPSK	50	0	17.62	17.71	17.70	19.0	0.0
40	PI2 BPSK	50	26	17.63	17.60	17.54	19.0	0.0
40	PI2 BPSK	50	56	17.44	17.62	17.59	19.0	0.0
40	PI2 BPSK	100	0	17.52	17.49	17.54	19.0	0.0
40	QPSK	1	1	17.68	17.79	17.65		
40	QPSK	1	53	17.50	17.59	17.69	19.0	0.0
40	QPSK	1	104	17.50	17.63	17.62		
40	QPSK	50	0	17.76	17.64	17.64	19.0	0.0
40	QPSK	50	26	17.55	17.69	17.56	19.0	0.0
40	QPSK	50	56	17.37	17.60	17.42	19.0	0.0
40	QPSK	100	0	17.55	17.60	17.51	19.0	0.0
40	16QAM	1	1	17.26	17.41	17.30	19.0	0.0
40	16QAM	1	1	17.55	17.70	17.62	19.0	0.0
40	256QAM	1	1	17.56	17.70	17.62	19.0	0.0
Channel				535000	535000	539000	19.8	
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	17.56	17.62	17.55	19.0	0.0
Channel				516500	516500	520000	19.9	
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	17.51	17.57	17.54	19.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		0.0
40	PI2 BPSK	1	53	24.58	24.62	24.51	26.0	0.0
40	PI2 BPSK	1	104	24.61	24.70	24.67		
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.60	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.58	24.52	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80	26.0	0.0
40	QPSK	50	26	24.68	24.71	24.70		
40	QPSK	50	56	24.84	24.71	24.58	26.0	0.0
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	16QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				535000	535000	539000	19.8	
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				516500	516500	520000	19.9	
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				5020.02	3168.98	5300.00		
100	PI2 BPSK	1	1	2546.01	2992.99	2640		
100	PI2 BPSK	1	1	17.62	17.76	17.59	19.0	0.0
100	PI2 BPSK	1	137	17.58	17.68	17.54	19.0	0.0
100	PI2 BPSK	1	271	17.60	17.62	17.58	19.0	0.0
100	PI2 BPSK	133	0	17.34	17.48	17.50	19.0	0.0
100	PI2 BPSK	133	69	17.60	17.65	17.48	19.0	0.0
100	PI2 BPSK	133	133	17.59	17.59	17.60	19.0	0.0
100	PI2 BPSK	270	0	17.51	17.62	17.54	19.0	0.0
100	QPSK	1	1	17.62	17.81	17.56	19.0	0.0
100	QPSK	1	137	17.58	17.72	17.61	19.0	0.0
100	QPSK	1	271	17.66	17.71	17.66	19.0	0.0
100	QPSK	133	0	17.60	17.58	17.63	19.0	0.0
100	QPSK	133	69	17.55	17.68	17.43	19.0	0.0
100	QPSK	133	133	17.35	17.68	17.66	19.0	0.0
100	QPSK	270	0	17.63	17.65	17.62	19.0	0.0
100	16QAM	1	1	17.63	17.64	17.65	19.0	0.0
100	16QAM	1	1	17.71	17.75	17.67	19.0	0.0
100	256QAM	1	1	17.67	17.63	17.74	19.0	0.0
Channel				5020.03	3169.00	5300.06		
Frequency (MHz)				2541	2992.99	2844.98		
90	PI2 BPSK	1	1	17.56	17.77	17.56	19.0	0.0
Channel				5020.04	3169.00	5300.08		
Frequency (MHz)				2536.02	2992.99	2849.99		
80	PI2 BPSK	1	1	17.59	17.71	17.46	19.0	0.0
Channel				5020.02	3169.00	5300.00		
Frequency (MHz)				2531.01	2992.99	2850		
70	PI2 BPSK	1	1	17.67	17.79	17.50	19.0	0.0
Channel				5020.02	3169.00	5300.06		
Frequency (MHz)				2536	2992.99	2859.98		
60	PI2 BPSK	1	1	17.63	17.75	17.59	19.0	0.0
Channel				5021.02	2992.99	2864.99		
Frequency (MHz)				2521.02	2992.99	2864.99		
50	PI2 BPSK	1	1	17.67	17.77	17.51	19.0	0.0
Channel				5020.02	3169.00	5300.00		
Frequency (MHz)				2519.01	2992.99	2870		
40	PI2 BPSK	1	1	17.61	17.75	17.58	19.0	0.0
Channel				5020.00	3169.00	5300.06		
Frequency (MHz)				2511	2992.99	2874.98		
30	PI2 BPSK	1	1	17.56	17.73	17.56	19.0	0.0
Channel				501204	318096	530996		MFR
Frequency (MHz)				2959.02	2992.99	2970.93		
20	PI2 BPSK	1	1	17.57	17.71	17.57	19.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				5020.02	3168.98	5300.00		
100	PI2 BPSK	1	1	2546.01	2992.99	2640		
100	PI2 BPSK	1	1	18.83	18.83	18.79	20.5	0.0
100	PI2 BPSK	1	137	18.73	18.81	18.83	20.5	0.0
100	PI2 BPSK	1	271	18.68	18.75	18.68	20.5	0.0
100	PI2 BPSK	133	0	18.75	18.79	18.80	20.5	0.0
100	PI2 BPSK	133	69	18.83	18.84	18.76	20.5	0.0
100	PI2 BPSK	133	133	18.91	18.86	18.84	20.5	0.0
100	PI2 BPSK	270	0	18.77	18.78	18.78	20.5	0.0
100	QPSK	1	1	18.93	19.00	18.98	20.5	0.0
100	QPSK	1	137	18.91	18.98	18.97	20.5	0.0
100	QPSK	1	271	18.73	18.83	18.79	20.5	0.0
100	QPSK	133	0	18.80	18.78	18.74	20.5	0.0
100	QPSK	133	69	18.93	18.95	18.89	20.5	0.0
100	QPSK	133	133	18.89	18.88	18.84	20.5	0.0
100	QPSK	270	0	18.79	18.86	18.81	20.5	0.0
100	16QAM	1	1	18.97	18.83	18.76	20.5	0.0
100	16QAM	1	1	18.79	18.80	18.77	20.5	0.0
100	256QAM	1	1	18.69	18.78	18.76	20.5	0.0
Channel				5020.03	3169.00	5300.06		
Frequency (MHz)				2541	2992.99	2844.98		
90	PI2 BPSK	1	1	18.69	18.86	18.74	20.5	0.0
Channel				5020.04	3169.00	5300.08		
Frequency (MHz)				2536.02	2992.99	2849.99		
80	PI2 BPSK	1	1	18.74	18.86	18.82	20.5	0.0
Channel				5020.02	3169.00	5300.00		
Frequency (MHz)				2531.01	2992.99	2850		
70	PI2 BPSK	1	1	18.69	18.79	18.85	20.5	0.0
Channel				5020.02	3169.00	5300.06		
Frequency (MHz)				2536	2992.99	2859.98		
60	PI2 BPSK	1	1	18.78	18.85	18.81	20.5	0.0
Channel				5021.02	2992.99	2864.99		
Frequency (MHz)				2521.02	2992.99	2864.99		
50	PI2 BPSK	1	1	18.71	18.75	18.76	20.5	0.0
Channel				5020.02	3169.00	5300.00		
Frequency (MHz)				2519.01	2992.99	2870		
40	PI2 BPSK	1	1	18.82	18.76	18.80	20.5	0.0
Channel				5020.00	3169.00	5300.06		
Frequency (MHz)				2511	2992.99	2874.98		
30	PI2 BPSK	1	1	18.81	18.83	18.76	20.5	0.0
Channel				501204	318096	530996		MFR
Frequency (MHz)				2959.02	2992.99	2970.93		
20	PI2 BPSK	1	1	18.70	18.87	18.76	20.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	23.04	23.12	23.06	25.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502000	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80	22.5	0.0
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80	22.5	0.0
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	20.20	20.34	20.24		
40	PI2 BPSK	1	53	20.18	20.13	20.24	21.5	0.0
40	PI2 BPSK	1	104	20.13	20.24	20.19		
40	PI2 BPSK	50	0	20.22	20.32	20.23	21.5	0.0
40	PI2 BPSK	50	26	20.24	20.25	20.19	21.5	0.0
40	PI2 BPSK	50	56	20.24	20.03	20.15	21.5	0.0
40	PI2 BPSK	100	0	20.15	20.15	20.10		
40	QPSK	1	1	20.32	20.35	20.26		
40	QPSK	1	53	20.26	20.15	20.27	21.5	0.0
40	QPSK	1	104	20.25	20.25	20.22		
40	QPSK	50	0	20.27	20.32	20.25		
40	QPSK	50	26	20.19	20.22	20.18	21.5	0.0
40	QPSK	50	56	20.24	20.15	20.11		
40	QPSK	100	0	20.23	20.28	20.22	21.5	0.0
40	64QAM	1	1	20.23	20.31	20.18	21.5	0.0
40	64QAM	1	1	18.58	18.71	18.62	20.0	1.5
40	256QAM	1	1	18.70	18.60	18.51	18.0	3.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	20.27	20.27	20.17	21.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	20.27	20.31	20.18	21.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	20.30	20.28	20.20	21.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	20.20	20.30	20.17	21.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	133	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	133	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	133	133	23.97	23.97	23.97	25.47	25.37
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.5	25.48
100	QPSK	1	1	24.33	24.30	24.30	26.0	26.05
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.03
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.87
100	QPSK	133	0	24.12	24.23	24.22	25.87	25.88
100	QPSK	133	69	24.20	24.25	24.20	25.94	25.95
100	QPSK	133	133	24.11	24.16	24.09	25.70	25.76
100	QPSK	270	0	23.27	23.28	23.24	24.96	24.97
100	16QAM	1	1	23.27	23.38	23.23	25.0	24.89
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.37
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	25.95
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	25.88

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	26.01
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.02	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	25.90
100	PI2 BPSK	133	0	25.51	25.53	25.47	27.0	25.47
100	PI2 BPSK	133	69	25.98	26.01	25.96	27.0	25.96
100	PI2 BPSK	133	133	25.47	25.49	25.37	27.0	25.37
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.0	25.48
100	QPSK	1	1	25.99	26.12	26.05	27.5	26.05
100	QPSK	1	137	25.95	26.03	25.92	27.5	25.92
100	QPSK	1	271	25.85	25.92	25.87	27.5	25.87
100	QPSK	133	0	25.87	25.88	25.77	27.5	25.77
100	QPSK	133	69	25.94	26.06	25.95	27.5	25.95
100	QPSK	133	133	25.70	25.76	25.68	27.5	25.68
100	QPSK	270	0	24.96	24.97	24.87	26.5	24.87
100	16QAM	1	1	24.92	24.99	24.76	26.5	24.76
100	64QAM	1	1	23.43	23.47	23.37	25.0	23.37
100	256QAM	1	1	21.38	21.46	21.33	23.0	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	25.85
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	25.88



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59		
100	QPSK	133	133	24.26	24.26	24.26		
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3495.98	3504.99		
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	24.20	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	25.92	25.92	25.92	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.05	26.05	26.05	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08		
100	QPSK	133	133	25.94	25.94	25.94	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	26.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3499.98	3504.99		
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3750	3840	3930		
100	PI2 BPSK	1	1	20.33	20.33	20.31		
100	PI2 BPSK	1	137	20.19	20.27	20.12	22.0	0.0
100	PI2 BPSK	1	271	20.16	20.31	20.35		
100	PI2 BPSK	138	0	20.24	20.28	20.23	22.0	0.0
100	PI2 BPSK	138	69	20.15	20.25	20.24	22.0	0.0
100	PI2 BPSK	138	138	20.20	20.31	20.18	22.0	0.0
100	PI2 BPSK	270	0	20.24	20.30	20.26		
100	QPSK	1	1	20.25	20.36	20.23		
100	QPSK	1	137	20.27	20.33	20.33	22.0	0.0
100	QPSK	1	271	20.19	20.30	20.28		
100	QPSK	138	0	20.24	20.31	20.31		
100	QPSK	138	69	20.16	20.29	20.15	22.0	0.0
100	QPSK	138	138	20.26	20.27	20.18		
100	QPSK	270	0	20.23	20.28	20.23	22.0	0.0
100	16QAM	1	1	20.12	20.23	20.18	22.0	0.0
100	16QAM	1	1	20.18	20.27	20.16	22.0	0.0
100	256QAM	1	1	20.16	20.20	20.19	21.5	0.5
Channel								
Frequency (MHz)				824663	825000	825332	Tune-up limit (dBm)	MFR (dB)
90	PI2 BPSK	1	1	3745.02	3840	3834.98	22.0	0.0
Channel								
Frequency (MHz)				824335	825000	825006	Tune-up limit (dBm)	MFR (dB)
90	PI2 BPSK	1	1	3740.01	3840	3839.99	22.0	0.0
Channel								
Frequency (MHz)				824007	825000	825007	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	20.13	20.16	20.07	22.0	0.0
Channel								
Frequency (MHz)				823680	824000	8249.98	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	3730.02	3840	3849.98	22.0	0.0
Channel								
Frequency (MHz)				823352	824000	824002	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	20.12	20.17	20.02	22.0	0.0
Channel								
Frequency (MHz)				823024	824000	824006	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	3725.01	3840	3824.99	22.0	0.0
Channel								
Frequency (MHz)				822700	823000	824000	Tune-up limit (dBm)	MFR (dB)
50	PI2 BPSK	1	1	20.13	20.21	20.10	22.0	0.0
Channel								
Frequency (MHz)				822372	823000	824000	Tune-up limit (dBm)	MFR (dB)
40	PI2 BPSK	1	1	20.12	20.22	20.11	22.0	0.0
Channel								
Frequency (MHz)				822044	823000	824192	Tune-up limit (dBm)	MFR (dB)
30	PI2 BPSK	1	1	20.14	20.14	20.10	22.0	0.0
Channel								
Frequency (MHz)				821716	822000	824588	Tune-up limit (dBm)	MFR (dB)
20	PI2 BPSK	1	1	20.04	20.20	20.07	22.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3750	3840	3930		
100	PI2 BPSK	1	1	21.51	21.53	21.47		
100	PI2 BPSK	1	137	21.53	21.58	21.54	23.5	0.0
100	PI2 BPSK	1	271	21.56	21.57	21.56		
100	PI2 BPSK	138	0	21.53	21.55	21.45	23.5	0.0
100	PI2 BPSK	138	69	21.57	21.63	21.64	23.5	0.0
100	PI2 BPSK	138	138	21.60	21.59	21.58	23.5	0.0
100	PI2 BPSK	270	0	21.60	21.60	21.54		
100	QPSK	1	1	21.67	21.69	21.64		
100	QPSK	1	137	21.46	21.48	21.42	23.5	0.0
100	QPSK	1	271	21.64	21.66	21.61		
100	QPSK	138	0	21.51	21.57	21.51		
100	QPSK	138	69	21.47	21.62	21.46	23.5	0.0
100	QPSK	138	138	21.57	21.56	21.50		
100	QPSK	270	0	21.38	21.54	21.39	23.5	0.0
100	16QAM	1	1	21.51	21.54	21.47	23.5	0.0
100	16QAM	1	1	21.45	21.52	21.48	23.5	0.0
100	256QAM	1	1	21.31	21.31	21.28	23.0	0.5
Channel								
Frequency (MHz)				824663	825000	825332	Tune-up limit (dBm)	MFR (dB)
90	PI2 BPSK	1	1	21.61	21.67	21.68	23.5	0.0
Channel								
Frequency (MHz)				824335	825000	825006	Tune-up limit (dBm)	MFR (dB)
90	PI2 BPSK	1	1	3740.01	3840	3839.99	23.5	0.0
Channel								
Frequency (MHz)				824007	825000	825007	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	21.55	21.67	21.51	23.5	0.0
Channel								
Frequency (MHz)				823680	824000	8249.98	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	21.62	21.64	21.55	23.5	0.0
Channel								
Frequency (MHz)				823352	824000	824006	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	21.62	21.64	21.55	23.5	0.0
Channel								
Frequency (MHz)				823024	824000	824006	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	3725.01	3840	3824.99	23.5	0.0
Channel								
Frequency (MHz)				822700	823000	824000	Tune-up limit (dBm)	MFR (dB)
50	PI2 BPSK	1	1	21.55	21.66	21.59	23.5	0.0
Channel								
Frequency (MHz)				822372	823000	824000	Tune-up limit (dBm)	MFR (dB)
40	PI2 BPSK	1	1	21.63	21.67	21.57	23.5	0.0
Channel								
Frequency (MHz)				822044	823000	824192	Tune-up limit (dBm)	MFR (dB)
30	PI2 BPSK	1	1	21.57	21.56	21.57	23.5	0.0
Channel								
Frequency (MHz)				821716	822000	824588	Tune-up limit (dBm)	MFR (dB)
20	PI2 BPSK	1	1	21.64	21.63	21.58	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	20 47	20 47	20 47	22.0	0.0
100	PI2 BPSK	1	137	20 38	20 38	20 38	22.0	0.0
100	PI2 BPSK	1	271	20 40	20 40	20 40	22.0	0.0
100	PI2 BPSK	138	0	20 36	20 36	20 36	22.0	0.0
100	PI2 BPSK	138	69	20 47	20 47	20 47	22.0	0.0
100	PI2 BPSK	138	138	20 43	20 43	20 43	22.0	0.0
100	PI2 BPSK	270	0	20 34	20 34	20 34	22.0	0.0
100	QPSK	1	1	20 51	20 51	20 51	22.0	0.0
100	QPSK	1	137	20 38	20 38	20 38	22.0	0.0
100	QPSK	1	271	20 42	20 42	20 42	22.0	0.0
100	QPSK	138	0	20 39	20 39	20 39	22.0	0.0
100	QPSK	138	69	20 42	20 42	20 42	22.0	0.0
100	QPSK	138	138	20 27	20 27	20 27	22.0	0.0
100	QPSK	270	0	20 29	20 29	20 29	22.0	0.0
100	16QAM	1	1	20 34	20 34	20 34	22.0	0.0
100	64QAM	1	1	20 27	20 27	20 27	22.0	0.0
100	256QAM	1	1	20 31	20 31	20 31	21.5	0.5
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3495	3495	3504.99	3504.99
90	PI2 BPSK	1	1	20 32	20 32	20 37	22.0	0.0
Channel				83263	83312	83350	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3490.02	3490.02	3510	3510
80	PI2 BPSK	1	1	20 31	20 24	20 27	22.0	0.0
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3490.02	3490.02	3519.99	3519.99
60	PI2 BPSK	1	1	20 28	20 35	20 35	22.0	0.0
Channel				83168	83312	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3475.02	3475.02	3525	3525
50	PI2 BPSK	1	1	20 18	20 31	20 24	22.0	0.0
Channel				83134	83312	83332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3470.01	3470.01	3529.98	3529.98
40	PI2 BPSK	1	1	20 21	20 37	20 33	22.0	0.0
Channel				83100	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3465	3465	3534.99	3534.99
30	PI2 BPSK	1	1	20 21	20 26	20 22	22.0	0.0
Channel				83068	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3460.02	3460.02	3540	3540
20	PI2 BPSK	1	1	20 17	20 34	20 22	22.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	21 63	21 63	21 63	23.5	0.0
100	PI2 BPSK	1	137	21 64	21 64	21 64	23.5	0.0
100	PI2 BPSK	1	271	21 56	21 56	21 56	23.5	0.0
100	PI2 BPSK	138	0	21 59	21 59	21 59	23.5	0.0
100	PI2 BPSK	138	69	21 63	21 63	21 63	23.5	0.0
100	PI2 BPSK	138	138	21 64	21 64	21 64	23.5	0.0
100	PI2 BPSK	270	0	21 62	21 62	21 62	23.5	0.0
100	QPSK	1	1	21 66	21 66	21 66	23.5	0.0
100	QPSK	1	137	21 56	21 56	21 56	23.5	0.0
100	QPSK	1	271	21 65	21 65	21 65	23.5	0.0
100	QPSK	138	0	21 63	21 63	21 63	23.5	0.0
100	QPSK	138	69	21 56	21 56	21 56	23.5	0.0
100	QPSK	138	138	21 58	21 58	21 58	23.5	0.0
100	QPSK	270	0	21 61	21 61	21 61	23.5	0.0
100	16QAM	1	1	21 63	21 63	21 63	23.5	0.0
100	64QAM	1	1	21 60	21 60	21 60	23.5	0.0
100	256QAM	1	1	21 59	21 59	21 59	23.0	0.5
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3495	3495	3504.99	3504.99
90	PI2 BPSK	1	1	21 52	21 56	21 62	23.5	0.0
Channel				83263	83312	83350	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3490.02	3490.02	3510	3510
80	PI2 BPSK	1	1	21 54	21 53	21 60	23.5	0.0
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3490.02	3490.02	3519.99	3519.99
60	PI2 BPSK	1	1	21 61	21 52	21 48	23.5	0.0
Channel				83168	83312	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3475.02	3475.02	3525	3525
50	PI2 BPSK	1	1	21 62	21 56	21 60	23.5	0.0
Channel				83134	83312	83332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3470.01	3470.01	3529.98	3529.98
40	PI2 BPSK	1	1	21 51	21 56	21 63	23.5	0.0
Channel				83100	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3465	3465	3534.99	3534.99
30	PI2 BPSK	1	1	21 58	21 65	21 50	23.5	0.0
Channel				83068	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3460.02	3460.02	3540	3540
20	PI2 BPSK	1	1	21 49	21 57	21 58	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	138	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	25.52
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.0	25.48
100	QPSK	1	1	24.33	24.30	24.30	26.0	26.05
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.03
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.92
100	QPSK	138	0	24.12	24.23	24.22	25.87	25.88
100	QPSK	138	69	24.20	24.25	24.20	25.94	26.06
100	QPSK	138	138	24.11	24.16	24.09	25.70	25.76
100	QPSK	270	0	23.27	23.28	23.24	25.0	24.97
100	16QAM	1	1	23.27	23.38	23.29	25.0	24.92
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.47
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.38
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	25.94
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	25.88

Par270 n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	26.01
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.02	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	26.01
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	25.47
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	25.96
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	25.37
100	PI2 BPSK	270	0	25.46	25.52	25.48	26.0	25.48
100	QPSK	1	1	25.99	26.12	26.05	27.5	26.05
100	QPSK	1	137	25.95	26.03	25.92	26.0	25.92
100	QPSK	1	271	25.85	25.92	25.87	26.0	25.87
100	QPSK	138	0	25.87	25.88	25.77	27.5	25.77
100	QPSK	138	69	25.94	26.06	25.95	27.5	25.95
100	QPSK	138	138	25.70	25.76	25.68	26.0	25.68
100	QPSK	270	0	24.96	24.97	24.87	26.5	24.87
100	16QAM	1	1	24.92	24.99	24.75	26.5	24.75
100	64QAM	1	1	23.43	23.47	23.37	25.0	23.37
100	256QAM	1	1	21.38	21.46	21.33	23.0	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	25.85
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	25.88



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	24.42	24.42	24.42		
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	138	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	138	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	138	138	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	138	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	138	69	24.59	24.59	24.59		
100	QPSK	138	138	24.26	24.26	24.26		
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	24.02	24.02	24.02	26.0	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	24.23	24.23	24.19	26.0	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	24.20	24.23	24.19	26.0	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	24.21	24.21	24.20	26.0	0.0
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	25.99	25.99	25.99		
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	138	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	138	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	138	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	138	69	26.08	26.08	26.08		
100	QPSK	138	138	25.94	25.94	25.94		
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	26.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	25.97	26.02	25.86	27.5	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Frequency (MHz)				83800	83332	83332		
3495	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Frequency (MHz)				83800	83332	83366		
3495	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant10

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	18.62	18.73	18.85	20.5	0.0
100	PI2 BPSK	1	137	18.65	18.78	18.86		
100	PI2 BPSK	1	271	18.66	18.73	18.81		
100	PI2 BPSK	133	0	18.72	18.74	18.89	20.5	0.0
100	PI2 BPSK	135	69	18.73	18.74	18.81	20.5	0.0
100	PI2 BPSK	135	135	18.84	18.75	18.71	20.5	0.0
100	PI2 BPSK	270	0	18.72	18.73	18.70		
100	QPSK	1	1	18.85	18.83	18.92		
100	QPSK	1	137	18.90	18.86	18.95	20.5	0.0
100	QPSK	1	271	18.86	18.88	18.78		
100	QPSK	135	0	18.89	18.79	18.87	20.5	0.0
100	QPSK	135	69	18.77	18.87	18.84		
100	QPSK	135	135	18.69	18.75	18.71		
100	QPSK	270	0	18.86	18.71	18.89	20.5	0.0
100	16QAM	1	1	18.63	18.75	18.81	20.5	0.0
100	16QAM	1	1	18.73	18.79	18.72	20.5	0.0
100	256QAM	1	1	18.65	18.73	18.60	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	18.65	18.75	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	18.65	18.80	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	18.71	18.79	18.77	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	18.67	18.81	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	18.67	18.78	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	18.64	18.76	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	18.65	18.79	18.77	20.5	0.0

Par270 n77 HPUE_Ant10

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	20.36	20.39	20.37		
100	PI2 BPSK	1	137	20.43	20.41	20.46	22.0	0.0
100	PI2 BPSK	1	271	20.48	20.51	20.46		
100	PI2 BPSK	133	0	20.39	20.47	20.43	22.0	0.0
100	PI2 BPSK	135	69	20.33	20.51	20.49	22.0	0.0
100	PI2 BPSK	135	135	20.38	20.41	20.47	22.0	0.0
100	PI2 BPSK	270	0	20.45	20.40	20.44		
100	QPSK	1	1	20.48	20.54	20.51		
100	QPSK	1	137	20.38	20.52	20.38	22.0	0.0
100	QPSK	1	271	20.46	20.43	20.47		
100	QPSK	135	0	20.36	20.49	20.47		
100	QPSK	135	69	20.34	20.43	20.39	22.0	0.0
100	QPSK	135	135	20.39	20.46	20.49		
100	QPSK	270	0	20.45	20.48	20.46	22.0	0.0
100	16QAM	1	1	20.45	20.47	20.38	22.0	0.0
100	16QAM	1	1	20.40	20.45	20.41	22.0	0.0
100	256QAM	1	1	20.45	20.46	20.47	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	20.30	20.36	20.28	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	20.29	20.39	20.36	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	20.30	20.45	20.29	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	20.32	20.42	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	20.22	20.33	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	20.22	20.36	20.33	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	20.35	20.35	20.24	22.0	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	19.10				
100	PI2 BPSK	1	137	19.12			20.5	0.0
100	PI2 BPSK	1	271	19.06				
100	PI2 BPSK	135	0	19.06			20.5	0.0
100	PI2 BPSK	135	66	19.04			20.5	0.0
100	PI2 BPSK	135	138	19.03			20.5	0.0
100	PI2 BPSK	270	0	19.07				
100	QPSK	1	1	19.15				
100	QPSK	1	137	19.07			20.5	0.0
100	QPSK	1	271	19.09				
100	QPSK	135	0	19.11			20.5	0.0
100	QPSK	135	66	19.13			20.5	0.0
100	QPSK	135	138	19.04				
100	QPSK	270	0	19.07			20.5	0.0
100	64QAM	1	1	19.04			20.5	0.0
100	64QAM	1	1	19.09			20.5	0.0
100	256QAM	1	1	19.06			20.5	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	19.06	19.05	18.92	20.5	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	19.00	19.09	18.89	20.5	0.0
Channel				64800	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	19.01	19.03	18.97	20.5	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	18.99	19.14	18.94	20.5	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3523.98		
40	PI2 BPSK	1	1	19.01	19.05	18.89	20.5	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	18.93	19.02	18.98	20.5	0.0
Channel				63066	63332	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	19.02	19.06	18.89	20.5	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	20.61				
100	PI2 BPSK	1	137	20.58			22.0	0.0
100	PI2 BPSK	1	271	20.60				
100	PI2 BPSK	135	0	20.55			22.0	0.0
100	PI2 BPSK	135	66	20.57			22.0	0.0
100	PI2 BPSK	135	138	20.61			22.0	0.0
100	PI2 BPSK	270	0	20.58				
100	QPSK	1	1	20.66				
100	QPSK	1	137	20.61			22.0	0.0
100	QPSK	1	271	20.63				
100	QPSK	135	0	20.58			22.0	0.0
100	QPSK	135	66	20.64			22.0	0.0
100	QPSK	135	138	20.61				
100	QPSK	270	0	20.60			22.0	0.0
100	64QAM	1	1	20.56			22.0	0.0
100	64QAM	1	1	20.64			22.0	0.0
100	256QAM	1	1	20.56			22.0	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	20.60	20.53	20.43	22.0	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	20.54	20.63	20.54	22.0	0.0
Channel				64800	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	20.51	20.56	20.52	22.0	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	20.47	20.51	20.55	22.0	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3523.98		
40	PI2 BPSK	1	1	20.58	20.56	20.56	22.0	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	20.58	20.53	20.46	22.0	0.0
Channel				63066	63332	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	20.61	20.52	20.52	22.0	0.0



State 7 Power

n2_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MFR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1850	1850	1900		
20	PI2 BPSK	1	1	24.54	24.55	24.52		
20	PI2 BPSK	1	63	24.82	24.52	24.75	26.0	0.0
20	PI2 BPSK	1	104	24.81	24.82	24.74		
20	PI2 BPSK	50	0	24.36	24.39	24.28	25.5	0.5
20	PI2 BPSK	50	26	24.72	24.54	24.75	26.0	0.0
20	PI2 BPSK	50	66	24.22	24.34	24.33	25.5	0.5
20	PI2 BPSK	100	0	24.27	24.38	24.29		
20	QPSK	1	1	24.95	25.01	24.92		
20	QPSK	1	63	24.92	24.93	24.89	26.0	0.0
20	QPSK	1	104	24.92	24.96	24.91		
20	QPSK	50	0	23.78	23.79	23.75	25.0	1.0
20	QPSK	50	28	24.80	24.86	24.78	26.0	0.0
20	QPSK	50	66	23.70	23.61	23.69	25.0	1.0
20	QPSK	100	0	23.72	23.84	23.75		
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1870	1870	1920	(dBm)	(dB)
15	PI2 BPSK	1	1	24.53	24.91	24.63	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1855	1855	1905	(dBm)	(dB)
10	PI2 BPSK	1	1	24.94	24.94	24.93	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1860	1907.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.91	24.67	24.83	24.0	0.0

n2_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MFR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1850	1850	1900		
20	PI2 BPSK	1	1	22.45	22.60	22.52		
20	PI2 BPSK	1	63	22.48	22.57	22.53	24.0	0.0
20	PI2 BPSK	1	104	22.50	22.54	22.55		
20	PI2 BPSK	50	0	22.51	22.58	22.55	24.0	0.0
20	PI2 BPSK	50	26	22.50	22.59	22.52	24.0	0.0
20	PI2 BPSK	50	66	22.50	22.56	22.52		
20	PI2 BPSK	100	0	22.51	22.59	22.48	24.0	0.0
20	QPSK	1	1	22.53	22.61	22.58		
20	QPSK	1	63	22.50	22.59	22.51	24.0	0.0
20	QPSK	1	104	22.46	22.52	22.55		
20	QPSK	50	0	22.44	22.57	22.43	24.0	0.0
20	QPSK	50	28	22.50	22.58	22.49	24.0	0.0
20	QPSK	50	66	22.43	22.49	22.46	24.0	0.0
20	QPSK	100	0	22.49	22.55	22.46		
20	16QAM	1	1	22.42	22.53	22.42	24.0	0.0
20	64QAM	1	1	21.91	22.06	21.91	23.5	0.5
20	256QAM	1	1	19.96	20.05	19.90	21.5	2.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1870	1870	1920	(dBm)	(dB)
15	PI2 BPSK	1	1	22.44	22.54	22.49	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1855	1855	1905	(dBm)	(dB)
10	PI2 BPSK	1	1	22.51	22.54	22.53	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1860	1907.5	(dBm)	(dB)
5	PI2 BPSK	1	1	22.52	22.58	22.40	24.0	0.0



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
				1890	1890	1900		
20	PI2 BPSK	1	1	18.92	18.93	18.94		
20	PI2 BPSK	1	63	18.58	18.65	18.55	18.0	0.0
20	PI2 BPSK	1	104	18.65	18.61	18.62		
20	PI2 BPSK	50	0	18.52	18.57	18.57	18.0	0.0
20	PI2 BPSK	50	26	18.68	18.66	18.50	18.0	0.0
20	PI2 BPSK	50	66	18.60	18.58	18.47	18.0	0.0
20	PI2 BPSK	100	0	18.53	18.59	18.62		
20	QPSK	1	1	18.76	18.76	18.78		
20	QPSK	1	63	18.58	18.66	18.64	18.0	0.0
20	QPSK	1	104	18.66	18.69	18.59		
20	QPSK	50	0	18.58	18.65	18.61	18.0	0.0
20	QPSK	50	28	18.61	18.67	18.64	18.0	0.0
20	QPSK	50	66	18.61	18.59	18.38	18.0	0.0
20	QPSK	100	0	18.54	18.66	18.62	18.0	0.0
20	16QAM	1	1	18.56	18.59	18.50	18.0	0.0
20	64QAM	1	1	18.50	18.59	18.51	18.0	0.0
20	256QAM	1	1	18.49	18.59	18.54	18.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1823.0	1823.0	1823.0	18.0	0.0
15	PI2 BPSK	1	1	18.65	18.59	18.53	18.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1815.0	1815.0	1815.0	18.0	0.0
10	PI2 BPSK	1	1	18.56	18.60	18.51	18.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1810.0	1810.0	1810.0	18.0	0.0
5	PI2 BPSK	1	1	18.63	18.57	18.52	18.0	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
				834	834.5	835		
20	PI2 BPSK	1	1	24.40	24.51	24.43		
20	PI2 BPSK	1	63	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.49	24.56	24.46		
20	PI2 BPSK	50	0	23.96	24.02	24.00	25.5	0.5
20	PI2 BPSK	50	26	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	66	23.94	23.99	23.92	25.5	0.5
20	PI2 BPSK	100	0	23.91	23.98	23.98		
20	QPSK	1	1	24.63	24.71	24.60		
20	QPSK	1	63	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	66	23.94	23.48	23.94	26.0	1.0
20	QPSK	100	0	23.39	23.46	23.33	25.0	1.0
20	16QAM	1	1	23.55	23.58	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				831.5	831.5	831.5	18.0	0.0
15	PI2 BPSK	1	1	24.66	24.64	24.60	26.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				833.0	833.5	834.0	18.0	0.0
10	PI2 BPSK	1	1	24.56	24.63	24.50	26.0	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				828.5	831.5	836.5	18.0	0.0
5	PI2 BPSK	1	1	24.56	24.61	24.60	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
				834	838.5	843		
20	PI2 BPSK	1	1	2130	2133	2140		
20	PI2 BPSK	1	63	2127	2141	2119	23.0	0.0
20	PI2 BPSK	1	104	2138	2149	2137		
20	PI2 BPSK	50	0	2145	2140	2141	23.0	0.0
20	PI2 BPSK	50	26	2138	2149	2132	23.0	0.0
20	PI2 BPSK	50	66	2131	2144	2139	23.0	0.0
20	PI2 BPSK	100	0	2131	2142	2134		
20	QPSK	1	1	2160	2155	2152		
20	QPSK	1	63	2152	2160	2144	23.0	0.0
20	QPSK	1	104	2150	2161	2147		
20	QPSK	50	0	2141	2142	2138	23.0	0.0
20	QPSK	50	28	2136	2144	2134	23.0	0.0
20	QPSK	50	66	2130	2138	2124	23.0	0.0
20	QPSK	100	0	2138	2142	2129	23.0	0.0
20	16QAM	1	1	2145	2156	2138	23.0	0.0
20	64QAM	1	1	2140	2151	2144	23.0	0.0
20	256QAM	1	1	1974	1987	1986	21.5	1.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				831.6	831.5	831.2	23.0	0.0
15	PI2 BPSK	1	1	2146	2146	2133	23.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				830	830.5	834	23.0	0.0
10	PI2 BPSK	1	1	2137	2149	2140	23.0	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				826.5	836.5	846.5	23.0	0.0
5	PI2 BPSK	1	1	2136	2141	2127	23.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				500000	507000	512000		
				2510	2515	2560		
20	PI2 BPSK	1	1	2482	2485	2484		
20	PI2 BPSK	1	63	2481	2481	2485	26.0	0.0
20	PI2 BPSK	1	104	2484	2483	2487		
20	PI2 BPSK	50	0	2482	2480	2480	25.5	0.5
20	PI2 BPSK	50	26	2482	2489	2483	26.0	0.0
20	PI2 BPSK	50	66	2486	2445	2486	25.5	0.5
20	PI2 BPSK	100	0	2480	2483	2484		
20	QPSK	1	1	2486	2497	2491		
20	QPSK	1	63	2482	2491	2490	26.0	0.0
20	QPSK	1	104	2483	2483	2492		
20	QPSK	50	0	2392	2404	2393	25.0	1.0
20	QPSK	50	28	2485	2491	2486	26.0	0.0
20	QPSK	50	66	2489	2491	2394	26.0	1.0
20	QPSK	100	0	2388	2386	2383	26.0	1.0
20	16QAM	1	1	2380	2392	2391	26.0	1.0
20	64QAM	1	1	2231	2236	2233	23.5	2.5
20	256QAM	1	1	2053	2057	2051	21.5	4.5
Channel				501800	507000	512500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2527.6	2515	2527.5	26.0	0.0
15	PI2 BPSK	1	1	2481	2480	2487	26.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505	2515	2565	26.0	0.0
10	PI2 BPSK	1	1	2474	2486	2487	26.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2472.5	2515	2607.5	26.0	0.0
5	PI2 BPSK	1	1	2475	2482	2484	26.0	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				500000	507000	512000		
20				2510	2325	2360		
20	PI2 BPSK	1	1	16.53	16.61	16.60		
20	PI2 BPSK	1	63	16.51	16.60	16.60	17.5	0.0
20	PI2 BPSK	1	104	16.60	16.67	16.63		
20	PI2 BPSK	50	0	16.55	16.61	16.48	17.5	0.0
20	PI2 BPSK	50	26	16.48	16.44	16.47	17.5	0.0
20	PI2 BPSK	50	66	16.51	16.55	16.41	17.5	0.0
20	PI2 BPSK	100	0	16.36	16.37	16.41		
20	QPSK	1	1	16.64	16.69	16.57		
20	QPSK	1	63	16.52	16.63	16.59	17.5	0.0
20	QPSK	1	104	16.56	16.62	16.59		
20	QPSK	50	0	16.58	16.64	16.54	17.5	0.0
20	QPSK	50	28	16.56	16.67	16.52	17.5	0.0
20	QPSK	50	66	16.57	16.60	16.48		
20	QPSK	100	0	16.62	16.66	16.60	17.5	0.0
20	16QAM	1	1	16.56	16.63	16.65	17.5	0.0
20	64QAM	1	1	16.50	16.57	16.59	17.5	0.0
20	256QAM	1	1	16.50	16.59	16.52	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				222.0	223.5	222.5	(dBm)	(dB)
15	PI2 BPSK	1	1	16.54	16.65	16.63	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				220.5	223.5	226.5	(dBm)	(dB)
10	PI2 BPSK	1	1	16.55	16.67	16.65	17.5	0.0
Channel				506000	507000	513500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				220.0	223.5	228.0	(dBm)	(dB)
5	PI2 BPSK	1	1	16.54	16.65	16.50	17.5	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1413000	141600	1417000		
15				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.33	24.33		
15	PI2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	22.71	23.82	23.81	26.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.69	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	25.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.26	23.23	26.0	1.0
15	16QAM	1	1	23.69	23.18	23.07	26.0	1.0
15	64QAM	1	1	21.99	21.99	21.61	23.5	2.5
20	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel				140800	141600	142200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				725	707.5	711	(dBm)	(dB)
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel				140300	141600	142700	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.27	24.35	24.25	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				141900	141900	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	2120	2123	2119		
15	PI2 BPSK	1	40	2123	2125	2120	23.0	0.0
15	PI2 BPSK	1	77	2116	2128	2118		
15	PI2 BPSK	36	0	2121	2125	2118	23.0	0.0
15	PI2 BPSK	36	22	2121	2130	2117	23.0	0.0
15	PI2 BPSK	36	43	2115	2127	2117	23.0	0.0
15	PI2 BPSK	75	0	2119	2128	2123		
15	QPSK	1	1	2133	2135	2128		
15	QPSK	1	40	2128	2130	2120	23.0	0.0
15	QPSK	1	77	2124	2133	2124		
15	QPSK	36	0	2121	2124	2115	23.0	0.0
15	QPSK	36	22	2124	2131	2124	23.0	0.0
15	QPSK	36	43	2123	2129	2122		
15	QPSK	75	0	2117	2127	2121	23.0	0.0
15	16QAM	1	1	2116	2125	2123	23.0	0.0
15	64QAM	1	1	2121	2122	2122	23.0	0.0
15	256QAM	1	1	19.05	19.80	19.72	21.5	1.5
Channel				140800	141000	142500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				701	707.5	711		
10	PI2 BPSK	1	1	2117	2122	2115	23.0	0.0
Channel				140900	141000	142700	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	PI2 BPSK	1	1	2120	2130	2122	23.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				372000	376000	381000		
Frequency (MHz)				1860	1892.5	1905		
20	PI2 BPSK	1	1	2417	2418	2415		
20	PI2 BPSK	1	63	2473	2479	2470	26.0	0.0
20	PI2 BPSK	1	104	2475	2484	2474		
20	PI2 BPSK	50	0	2482	2486	2481	25.5	0.5
20	PI2 BPSK	50	26	2472	2481	2475	26.0	0.0
20	PI2 BPSK	50	66	2419	2431	2425		
20	PI2 BPSK	100	0	2430	2433	2426		
20	QPSK	1	1	2491	2506	2483		
20	QPSK	1	63	2484	2495	2481	26.0	0.0
20	QPSK	1	104	2476	2491	2482		
20	QPSK	50	0	2385	2395	2388	25.0	1.0
20	QPSK	50	28	2490	2491	2482	26.0	0.0
20	QPSK	50	66	2495	2491	2488		
20	QPSK	100	0	2405	2411	2400	25.0	1.0
20	16QAM	1	1	2394	2405	2403	26.0	1.0
20	64QAM	1	1	2230	2230	2230	23.5	2.5
20	256QAM	1	1	20.49	20.62	20.59	21.5	4.5
Channel				371500	376000	381500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1857.5	1892.5	1907.5		
15	PI2 BPSK	1	1	2479	2487	2487	26.0	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1855	1892.5	1910		
10	PI2 BPSK	1	1	2413	2419	2415	25.0	0.5
Channel				370500	376000	382500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1852.5	1892.5	1912.5		
5	PI2 BPSK	1	1	2476	2480	2470	23.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MRR (dB)
20	PI2 BPSK	1	1	1860	1862.5	1905	24.0	0.0
20	PI2 BPSK	1	63	22.83	22.85	22.87		
20	PI2 BPSK	1	104	22.72	22.78	22.70	24.0	0.0
20	PI2 BPSK	50	0	22.86	22.86	23.86		
20	PI2 BPSK	50	26	22.72	22.77	22.75	24.0	0.0
20	PI2 BPSK	50	66	22.84	22.82	22.72		
20	PI2 BPSK	100	0	22.81	22.84	22.78	24.0	0.0
20	QPSK	1	1	22.90	23.09	22.80		
20	QPSK	1	63	22.83	22.90	22.79	24.0	0.0
20	QPSK	1	104	22.78	22.88	22.84		
20	QPSK	50	0	22.78	22.86	22.81	24.0	0.0
20	QPSK	50	28	22.85	22.91	22.78		
20	QPSK	50	66	22.89	22.86	22.76	24.0	0.0
20	QPSK	100	0	22.88	22.88	22.74		
20	16QAM	1	1	22.82	22.88	22.87	24.0	0.0
20	16QAM	1	1	22.29	22.30	23.5		
20	256QAM	1	1	20.91	20.91	20.95	21.5	2.5
20	256QAM	1	1	17.18	17.28	17.23		
Channel				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				182.0	182.5	182.5	24.0	0.0
15	PI2 BPSK	1	1	22.85	23.01	22.67	24.0	0.0
Channel				371000	376000	380000		
Frequency (MHz)				182.5	182.5	1910	24.0	0.0
10	PI2 BPSK	1	1	22.79	23.02	22.67	24.0	0.0
Channel				370500	376000	380500		
Frequency (MHz)				182.0	182.5	1912.5	24.0	0.0
5	PI2 BPSK	1	1	22.70	23.04	22.73	24.0	0.0
Channel				370000	376000	380500		
Frequency (MHz)				172.0	172.2	172.0	18.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MRR (dB)
20	PI2 BPSK	1	1	1710	1720	1720	18.0	0.0
20	PI2 BPSK	1	63	16.96	17.14	17.10		
20	PI2 BPSK	1	104	17.06	17.12	16.99	18.0	0.0
20	PI2 BPSK	50	0	17.10	17.22	17.07		
20	PI2 BPSK	50	26	17.12	17.28	17.19	18.0	0.0
20	PI2 BPSK	50	66	17.00	17.24	17.05		
20	PI2 BPSK	100	0	16.98	17.03	17.08	18.0	0.0
20	QPSK	1	1	17.16	17.30	17.19		
20	QPSK	1	63	17.11	17.23	17.17	18.0	0.0
20	QPSK	1	104	17.11	17.19	17.13		
20	QPSK	50	0	17.01	17.22	17.02	18.0	0.0
20	QPSK	50	28	17.06	17.21	17.13		
20	QPSK	50	66	17.04	17.17	17.10	18.0	0.0
20	QPSK	100	0	17.09	17.15	17.02		
20	16QAM	1	1	16.97	17.15	17.13	18.0	0.0
20	16QAM	1	1	16.97	17.03	17.05		
20	256QAM	1	1	17.18	17.28	17.23	18.0	0.0
20	256QAM	1	1	17.18	17.28	17.23		
Channel				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				182.0	182.5	182.5	24.0	0.0
15	PI2 BPSK	1	1	17.05	17.28	17.14	18.0	0.0
Channel				371000	376000	380000		
Frequency (MHz)				182.5	182.5	1910	24.0	0.0
10	PI2 BPSK	1	1	17.08	17.29	17.10	18.0	0.0
Channel				370500	376000	380500		
Frequency (MHz)				182.0	182.5	1912.5	24.0	0.0
5	PI2 BPSK	1	1	17.05	17.23	17.00	18.0	0.0
Channel				370000	376000	380500		
Frequency (MHz)				172.0	172.2	172.0	18.0	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
				824	831.5	839		
20	PI2 BPSK	1	1	24.40	24.43	24.50		
20	PI2 BPSK	1	63	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.46	24.41		
20	PI2 BPSK	50	0	23.81	23.82	23.88	25.5	0.5
20	PI2 BPSK	50	26	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	66	23.86	23.87	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	63	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.44	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	28	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	66	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.05	21.5	4.5
Channel								
Frequency (MHz)				164300	166300	168300	Tune-up limit (dBm)	MFR (dB)
				821.5	831.5	841.5	25.0	0.0
15	PI2 BPSK	1	1	24.38	24.43	24.40		
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MFR (dB)
				819	831.5	844	25.0	0.0
10	PI2 BPSK	1	1	24.43	24.39	24.42		
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MFR (dB)
				816.5	831.5	846.5	25.0	0.0
5	PI2 BPSK	1	1	24.37	24.42	24.39		

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
				824	831.5	839		
20	PI2 BPSK	1	1	21.44	21.61	21.62		
20	PI2 BPSK	1	63	21.44	21.58	21.46	23.0	0.0
20	PI2 BPSK	1	104	21.41	21.59	21.48		
20	PI2 BPSK	50	0	21.46	21.62	21.48	23.0	0.0
20	PI2 BPSK	50	26	21.48	21.62	21.44	23.0	0.0
20	PI2 BPSK	50	66	21.48	21.63	21.50		
20	PI2 BPSK	100	0	21.47	21.64	21.51		
20	QPSK	1	1	21.58	21.67	21.58		
20	QPSK	1	63	21.56	21.58	21.54	23.0	0.0
20	QPSK	1	104	21.49	21.60	21.51		
20	QPSK	50	0	21.46	21.59	21.47	23.0	0.0
20	QPSK	50	28	21.50	21.65	21.52	23.0	0.0
20	QPSK	50	66	21.43	21.61	21.51		
20	QPSK	100	0	21.43	21.58	21.43	23.0	0.0
20	16QAM	1	1	21.42	21.61	21.48	23.0	0.0
20	64QAM	1	1	21.41	21.64	21.46	23.0	0.0
20	256QAM	1	1	19.91	20.12	20.01	21.5	1.5
Channel								
Frequency (MHz)				164300	166300	168300	Tune-up limit (dBm)	MFR (dB)
				821.5	831.5	841.5	25.0	0.0
15	PI2 BPSK	1	1	21.49	21.57	21.50		
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MFR (dB)
				819	831.5	844	25.0	0.0
10	PI2 BPSK	1	1	21.43	21.59	21.47		
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MFR (dB)
				816.5	831.5	846.5	23.0	0.0
5	PI2 BPSK	1	1	21.41	21.64	21.51		



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				462000			2310	
10	PIQ BPSK	1	1	21.29				
10	PIQ BPSK	1	25	21.30			22.5	0.0
10	PIQ BPSK	1	50	21.31				
10	PIQ BPSK	25	0	20.97			22.0	0.5
10	PIQ BPSK	25	14	21.27			22.5	0.0
10	PIQ BPSK	25	27	20.78			22.0	0.5
10	PIQ BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24				
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			19.0	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2207.0	2310	2312.5	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				462000			2310	
10	PIQ BPSK	1	1	21.29				
10	PIQ BPSK	1	25	21.30			22.5	0.0
10	PIQ BPSK	1	50	21.31				
10	PIQ BPSK	25	0	20.97			22.0	0.5
10	PIQ BPSK	25	14	21.27			22.5	0.0
10	PIQ BPSK	25	27	20.78			22.0	0.5
10	PIQ BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24				
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			19.0	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2207.0	2310	2312.5	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				462000	462000	462000		
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	17.23				
10	PI2 BPSK	1	25	17.32			19.0	0.0
10	PI2 BPSK	1	50	17.35				
10	PI2 BPSK	25	0	17.34			19.0	0.0
10	PI2 BPSK	25	14	17.39				
10	PI2 BPSK	25	27	17.40			19.0	0.0
10	PI2 BPSK	50	0	17.40				
10	QPSK	1	1	17.42				
10	QPSK	1	25	17.40			19.0	0.0
10	QPSK	1	50	17.38				
10	QPSK	25	0	17.35			19.0	0.0
10	QPSK	25	14	17.41				
10	QPSK	25	27	17.38			19.0	0.0
10	QPSK	50	0	17.37				
10	16QAM	1	1	17.35			19.0	0.0
10	16QAM	1	1	17.34			19.0	0.0
10	256QAM	1	1	17.35			19.0	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2310	2310	2312.5	19.0	0.0
5	PI2 BPSK	1	1	17.27	17.25	17.23	19.0	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				345000	345000	345000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	24.03	24.81	24.62		
30	PI2 BPSK	1	80	24.65	24.75	24.83	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.88		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	160	0	24.09	24.18	24.13	25.5	0.5
30	QPSK	1	1	24.88	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	25.0	1.0
30	QPSK	80	40	24.73	24.85	24.77	26.0	0.0
30	QPSK	80	80	23.84	23.72	23.81		
30	QPSK	160	0	23.61	23.68	23.68	25.0	1.0
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	16QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.35	21.5	4.5
Channel				344000	345000	346000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1720	1740	1760	26.0	0.0
20	PI2 BPSK	1	1	24.06	24.75	24.71	26.0	0.0
Channel				343000	345000	345000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775	26.0	0.0
15	PI2 BPSK	1	1	24.10	24.82	24.62	26.0	0.0
Channel				343000	345000	345000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775	26.0	0.0
10	PI2 BPSK	1	1	24.17	24.84	24.70	26.0	0.0
Channel				342500	345000	345000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5	26.0	0.0
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				345000	349000	353000		
30	P1/2 BPSK	1	1	1725	1745	1765		
30	P1/2 BPSK	1	80	23.63	23.63	23.64		
30	P1/2 BPSK	1	80	23.87	23.87	23.89	25.0	0.0
30	P1/2 BPSK	1	158	23.85	23.89	23.90		
30	P1/2 BPSK	80	0	23.86	23.86	23.87	25.0	0.0
30	P1/2 BPSK	80	40	23.85	23.89	23.90		
30	P1/2 BPSK	80	80	23.81	23.96	23.85	25.0	0.0
30	P1/2 BPSK	160	0	23.86	23.86	23.89		
30	QPSK	1	1	23.98	24.00	23.98		
30	QPSK	1	80	23.90	23.98	23.90	25.0	0.0
30	QPSK	1	158	23.92	23.96	23.93		
30	QPSK	80	0	23.81	23.89	23.90	25.0	0.0
30	QPSK	80	40	23.90	23.98	23.93	25.0	0.0
30	QPSK	80	80	23.89	23.94	23.91		
30	QPSK	160	0	23.85	23.90	23.87	25.0	0.0
30	16QAM	1	1	23.83	23.90	23.86	25.0	0.0
30	64QAM	1	1	22.37	22.42	23.5	1.5	
30	256QAM	1	1	20.35	20.40	20.38	3.5	
Channel				344000	349000	354000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1720	1740	1760		
20	P1/2 BPSK	1	1	23.63	23.67	23.65	25.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
15	P1/2 BPSK	1	1	23.66	23.66	23.64	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
10	P1/2 BPSK	1	1	23.14	23.11	23.17	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	P1/2 BPSK	1	1	22.89	23.11	23.17	25.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				345000	349000	353000		
30	P1/2 BPSK	1	1	1725	1745	1765		
30	P1/2 BPSK	1	80	19.16	19.16	19.20		
30	P1/2 BPSK	1	80	19.14	19.22	19.21	20.5	0.0
30	P1/2 BPSK	1	158	19.20	19.20	19.17		
30	P1/2 BPSK	80	0	19.16	19.17	19.13	20.5	0.0
30	P1/2 BPSK	80	40	19.19	19.23	19.15		
30	P1/2 BPSK	80	80	19.15	19.19	19.13	20.5	0.0
30	P1/2 BPSK	160	0	19.16	19.18	19.16		
30	QPSK	1	1	19.21	19.25	19.22		
30	QPSK	1	80	19.15	19.22	19.15	20.5	0.0
30	QPSK	1	158	19.19	19.22	19.16		
30	QPSK	80	0	19.12	19.15	19.13	20.5	0.0
30	QPSK	80	40	19.20	19.21	19.18	20.5	0.0
30	QPSK	80	80	19.15	19.15	19.13		
30	QPSK	160	0	19.11	19.15	19.12	20.5	0.0
30	16QAM	1	1	19.17	19.15	19.11	20.5	0.0
30	64QAM	1	1	19.12	19.13	19.11	20.5	0.0
30	256QAM	1	1	17.61	17.61	17.64	19.0	1.5
Channel				344000	349000	354000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1720	1740	1760		
20	P1/2 BPSK	1	1	19.13	19.17	19.13	20.5	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
15	P1/2 BPSK	1	1	19.17	19.19	19.21	20.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
10	P1/2 BPSK	1	1	19.19	19.22	19.13	20.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	P1/2 BPSK	1	1	19.13	19.17	19.14	20.5	0.0



n71_Ant0

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								
Frequency (MHz)				134600	136100	137600		
				673	660.5	666		
20	PI2 BPSK	1	1	24.71	24.74	24.80		
20	PI2 BPSK	1	53	24.95	24.67	24.63	26.0	0.0
20	PI2 BPSK	1	104	24.66	24.71	24.66		
20	PI2 BPSK	60	9	24.13	24.35	24.30	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10		
20	PI2 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.62	24.73		
20	QPSK	1	53	24.53	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.68		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	60	56	23.49	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.52	23.63	23.57		
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	16QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.59	20.59	20.55	21.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR
Frequency (MHz)				610.5	600.5	605.5		
15	PI2 BPSK	1	1	24.41	24.61	24.51	26.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR
Frequency (MHz)				668	660.5	661		
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR
Frequency (MHz)				665.5	660.5	665.5		
5	PI2 BPSK	1	1	24.43	24.54	24.53	25.0	0.0

n71_Ant2

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								
Frequency (MHz)				134600	136100	137600		
				673	660.5	666		
20	PI2 BPSK	1	1	21.53	21.41	21.57		
20	PI2 BPSK	1	53	21.24	21.42	21.42	23.0	0.0
20	PI2 BPSK	1	104	21.28	21.40	21.27		
20	PI2 BPSK	60	9	21.31	21.41	21.30	23.0	0.0
20	PI2 BPSK	50	28	21.24	21.38	21.28	23.0	0.0
20	PI2 BPSK	50	56	21.30	21.41	21.31		
20	PI2 BPSK	100	0	21.24	21.42	21.31		
20	QPSK	1	1	21.39	21.45	21.43		
20	QPSK	1	53	21.37	21.36	21.40	23.0	0.0
20	QPSK	1	104	21.38	21.39	21.34		
20	QPSK	50	0	21.23	21.41	21.32	23.0	0.0
20	QPSK	50	28	21.32	21.44	21.34	23.0	0.0
20	QPSK	60	56	21.28	21.41	21.27		
20	QPSK	100	0	21.30	21.35	21.28	23.0	0.0
20	16QAM	1	1	21.29	21.35	21.28	23.0	0.0
20	16QAM	1	1	21.26	21.42	21.30	23.0	0.0
20	256QAM	1	1	19.79	19.88	19.79	21.5	1.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR
Frequency (MHz)				610.5	600.5	605.5		
15	PI2 BPSK	1	1	21.24	21.38	21.25	23.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR
Frequency (MHz)				668	660.5	661		
10	PI2 BPSK	1	1	21.25	21.35	21.30	23.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR
Frequency (MHz)				665.5	660.5	665.5		
5	PI2 BPSK	1	1	21.25	21.35	21.25	23.0	0.0



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BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	14.75	14.70	14.60		
40	PI2 BPSK	1	53	14.50	14.60	14.41		
40	PI2 BPSK	1	104	14.50	14.63	14.52	16.0	
40	PI2 BPSK	50	0	14.62	14.75	14.74	16.0	0.0
40	PI2 BPSK	50	26	14.66	14.60	14.59	16.0	0.0
40	PI2 BPSK	50	56	14.46	14.71	14.68	16.0	0.0
40	PI2 BPSK	100	0	14.60	14.57	14.61		
40	QPSK	1	1	14.75	14.79	14.67		
40	QPSK	1	53	14.68	14.64	14.69		
40	QPSK	1	104	14.57	14.68	14.61	16.0	0.0
40	QPSK	50	0	14.77	14.63	14.70		
40	QPSK	50	26	14.54	14.75	14.64	16.0	0.0
40	QPSK	50	56	14.65	14.63	14.46		
40	QPSK	100	0	14.61	14.69	14.59	16.0	0.0
40	16QAM	1	1	14.34	14.41	14.31	16.0	0.0
40	16QAM	1	1	14.59	14.78	14.83	16.0	0.0
40	256QAM	1	1	14.63	14.77	14.67	16.0	0.0
Channel				535500	535500	539000	16.0	0.0
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	14.70	14.77	14.63	16.0	0.0
Channel				516500	516500	520000	16.0	0.0
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	14.66	14.74	14.59	16.0	0.0

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BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	0.0
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.60	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73		
40	QPSK	1	104	24.66	24.77	24.76	26.0	0.0
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	16QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				535500	535500	539000	16.0	0.0
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				516500	516500	520000	16.0	0.0
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				5020.02	5168.99	5300.00		
100	PI2 BPSK	1	1	14.65	14.72	14.65		0.0
100	PI2 BPSK	1	137	14.65	14.73	14.65	16.0	0.0
100	PI2 BPSK	1	271	14.66	14.69	14.67		
100	PI2 BPSK	133	0	14.73	14.70	14.65	16.0	0.0
100	PI2 BPSK	133	69	14.65	14.72	14.64	16.0	0.0
100	PI2 BPSK	133	133	14.73	14.68	14.67	16.0	0.0
100	PI2 BPSK	270	0	14.69	14.75	14.66		
100	QPSK	1	1	14.70	14.81	14.77		
100	QPSK	1	137	14.70	14.79	14.75	16.0	0.0
100	QPSK	1	271	14.75	14.80	14.70		
100	QPSK	133	0	14.68	14.70	14.67		
100	QPSK	133	69	14.74	14.75	14.73	16.0	0.0
100	QPSK	133	133	14.70	14.72	14.70		
100	QPSK	270	0	14.67	14.71	14.70	16.0	0.0
100	16QAM	1	1	14.73	14.74	14.70	16.0	0.0
100	16QAM	1	1	14.70	14.75	14.70	16.0	0.0
100	256QAM	1	1	14.72	14.73	14.71	16.0	0.0
Channel				5020.03	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541.01	2692.99	2844.98		
90	PI2 BPSK	1	1	14.66	14.68	14.72	16.0	0.0
Channel				5020.04	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2692.99	2849.99		
80	PI2 BPSK	1	1	14.72	14.73	14.72	16.0	0.0
Channel				5020.02	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2692.99	2850.00		
70	PI2 BPSK	1	1	14.72	14.69	14.67	16.0	0.0
Channel				5020.02	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2692.99	2859.98		
60	PI2 BPSK	1	1	14.70	14.70	14.71	16.0	0.0
Channel				5021.02	2692.99	2864.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2692.99	2864.99		
50	PI2 BPSK	1	1	14.71	14.71	14.67	16.0	0.0
Channel				5020.02	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2692.99	2870.00		
40	PI2 BPSK	1	1	14.68	14.72	14.66	16.0	0.0
Channel				5020.00	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511.01	2692.99	2874.98		
30	PI2 BPSK	1	1	14.70	14.68	14.70	16.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2692.99	2879.99		
20	PI2 BPSK	1	1	14.66	14.68	14.64	16.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				5020.01	5168.99	5300.00		
100	PI2 BPSK	1	1	16.02	16.08	16.05		0.0
100	PI2 BPSK	1	137	16.04	16.10	16.06	17.5	0.0
100	PI2 BPSK	1	271	16.02	16.10	16.01		
100	PI2 BPSK	133	0	16.03	16.12	16.09	17.5	0.0
100	PI2 BPSK	133	69	16.00	16.09	16.04	17.5	0.0
100	PI2 BPSK	133	133	16.02	16.10	16.06	17.5	0.0
100	PI2 BPSK	270	0	16.00	16.13	16.01		
100	QPSK	1	1	16.12	16.16	16.14		
100	QPSK	1	137	16.03	16.15	16.09	17.5	0.0
100	QPSK	1	271	16.11	16.11	16.10		
100	QPSK	133	0	16.01	16.09	16.04		
100	QPSK	133	69	16.08	16.14	16.10	17.5	0.0
100	QPSK	133	133	16.05	16.06	16.06		
100	QPSK	270	0	16.05	16.11	16.02	17.5	0.0
100	16QAM	1	1	16.00	16.10	16.06	17.5	0.0
100	16QAM	1	1	16.06	16.10	16.03	17.5	0.0
100	256QAM	1	1	16.00	16.10	16.04	17.5	0.0
Channel				5020.03	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541.01	2692.99	2844.98		
90	PI2 BPSK	1	1	16.04	16.08	16.03	17.5	0.0
Channel				5020.04	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2692.99	2849.99		
80	PI2 BPSK	1	1	16.04	16.08	16.05	17.5	0.0
Channel				5020.02	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2692.99	2850.00		
70	PI2 BPSK	1	1	16.03	16.07	16.04	17.5	0.0
Channel				5020.02	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2692.99	2859.98		
60	PI2 BPSK	1	1	16.03	16.10	16.03	17.5	0.0
Channel				5021.02	2692.99	2864.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2692.99	2864.99		
50	PI2 BPSK	1	1	16.01	16.05	16.02	17.5	0.0
Channel				5020.02	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2692.99	2870.00		
40	PI2 BPSK	1	1	16.05	16.12	16.05	17.5	0.0
Channel				5020.00	5169.00	5300.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511.01	2692.99	2874.98		
30	PI2 BPSK	1	1	16.01	16.13	16.09	17.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2692.99	2879.99		
20	PI2 BPSK	1	1	16.02	16.09	16.04	17.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502000	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.83		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.83		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65		0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		0.0
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	20.20	20.34	20.24		
40	PI2 BPSK	1	53	20.18	20.13	20.24	21.5	0.0
40	PI2 BPSK	1	104	20.13	20.24	20.19		
40	PI2 BPSK	50	0	20.22	20.32	20.23		0.0
40	PI2 BPSK	50	26	20.24	20.25	20.19	21.5	0.0
40	PI2 BPSK	50	56	20.24	20.03	20.15	21.5	0.0
40	PI2 BPSK	100	0	20.15	20.15	20.10		
40	QPSK	1	1	20.32	20.35	20.26		
40	QPSK	1	53	20.26	20.15	20.27	21.5	0.0
40	QPSK	1	104	20.25	20.25	20.22		
40	QPSK	50	0	20.27	20.32	20.25		0.0
40	QPSK	50	26	20.19	20.22	20.18	21.5	0.0
40	QPSK	50	56	20.24	20.15	20.11		
40	QPSK	100	0	20.23	20.28	20.22	20.5	0.0
40	64QAM	1	1	20.23	20.31	20.18	20.5	0.0
40	64QAM	1	1	18.58	18.71	18.62	19.0	1.5
40	256QAM	1	1	18.70	18.60	18.51	17.0	3.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	20.27	20.27	20.17	21.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	20.27	20.31	20.18	21.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	20.30	20.28	20.20	21.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	20.20	20.30	20.17	21.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	138	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.47	25.37
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.5	25.48
100	QPSK	1	1	24.33	24.30	24.30	26.0	26.05
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.02
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.87
100	QPSK	138	0	24.12	24.23	24.22	25.87	25.77
100	QPSK	138	69	24.20	24.25	24.20	25.94	25.85
100	QPSK	138	138	24.11	24.16	24.09	25.70	25.68
100	QPSK	270	0	23.27	23.28	23.24	24.96	24.87
100	16QAM	1	1	23.27	23.38	23.29	25.0	24.99
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.7
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.02	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	26.01
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.12	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	138	0	25.87	25.88	25.77	27.5	0.0
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68	27.5	0.0
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.46	21.33	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59		
100	QPSK	133	133	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3495.98	3504.99		
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	24.20	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	25.92	25.92	25.92	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.05	26.05	26.05	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08		
100	QPSK	133	133	25.94	25.94	25.94	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	26.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3499.98	3504.99		
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				65000	65500	66000		
100	PI2 BPSK	1	1	16.90	17.01	16.93	19.0	0.0
100	PI2 BPSK	1	137	16.92	16.99	17.00		
100	PI2 BPSK	1	271	16.91	17.03	16.92		
100	PI2 BPSK	133	0	16.93	17.07	16.98	19.0	0.0
100	PI2 BPSK	135	69	16.94	17.04	16.99	19.0	0.0
100	PI2 BPSK	135	135	16.93	17.05	16.99	19.0	0.0
100	PI2 BPSK	270	0	16.95	17.02	16.99	19.0	0.0
100	QPSK	1	1	17.01	17.10	17.06		
100	QPSK	1	137	17.00	17.04	16.99	19.0	0.0
100	QPSK	1	271	17.09	17.01			
100	QPSK	135	0	16.95	17.02	16.95	19.0	0.0
100	QPSK	135	69	16.96	17.08	17.01	19.0	0.0
100	QPSK	135	135	16.87	17.04	16.93		
100	QPSK	270	0	16.91	17.06	16.99	19.0	0.0
100	16QAM	1	1	16.96	17.01	16.97	19.0	0.0
100	64QAM	1	1	16.95	17.07	16.98	19.0	0.0
100	256QAM	1	1	16.88	17.00	17.00	19.0	0.0
Channel								
Frequency (MHz)				65000	65500	66000	Tune-up limit (dBm)	MRR (dB)
90	PI2 BPSK	1	1	16.93	17.07	16.99	19.0	0.0
Channel								
Frequency (MHz)				64535	65000	65500	Tune-up limit (dBm)	MRR (dB)
80	PI2 BPSK	1	1	17.01	17.01	16.93	19.0	0.0
Channel								
Frequency (MHz)				64000	64535	65000	Tune-up limit (dBm)	MRR (dB)
60	PI2 BPSK	1	1	16.92	17.02	16.99	19.0	0.0
Channel								
Frequency (MHz)				63500	64000	64535	Tune-up limit (dBm)	MRR (dB)
50	PI2 BPSK	1	1	16.94	17.07	16.96	19.0	0.0
Channel								
Frequency (MHz)				63000	63500	64000	Tune-up limit (dBm)	MRR (dB)
40	PI2 BPSK	1	1	16.88	17.07	16.96	19.0	0.0
Channel								
Frequency (MHz)				62468	63000	63500	Tune-up limit (dBm)	MRR (dB)
30	PI2 BPSK	1	1	16.95	17.07	16.94	19.0	0.0
Channel								
Frequency (MHz)				61934	62500	63000	Tune-up limit (dBm)	MRR (dB)
20	PI2 BPSK	1	1	16.88	17.04	16.99	19.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				65000	65500	66000		
100	PI2 BPSK	1	1	16.48	16.51	16.40	20.5	0.0
100	PI2 BPSK	1	137	16.49	16.54	16.47		
100	PI2 BPSK	1	271	16.43	16.56	16.40		
100	PI2 BPSK	133	0	16.47	16.58	16.42	20.5	0.0
100	PI2 BPSK	135	69	16.48	16.58	16.45	20.5	0.0
100	PI2 BPSK	135	135	16.47	16.53	16.43	20.5	0.0
100	PI2 BPSK	270	0	16.42	16.54	16.41	20.5	0.0
100	QPSK	1	1	16.57	16.61	16.52		
100	QPSK	1	137	16.56	16.58	16.48	20.5	0.0
100	QPSK	1	271	16.50	16.60	16.51		
100	QPSK	135	0	16.43	16.58	16.42	20.5	0.0
100	QPSK	135	69	16.51	16.60	16.48	20.5	0.0
100	QPSK	135	135	16.49	16.54	16.45	20.5	0.0
100	QPSK	270	0	16.44	16.51	16.39	20.5	0.0
100	16QAM	1	1	16.42	16.54	16.45	20.5	0.0
100	64QAM	1	1	16.48	16.53	16.41	20.5	0.0
100	256QAM	1	1	16.43	16.57	16.42	20.5	0.0
Channel								
Frequency (MHz)				64535	65000	65500	Tune-up limit (dBm)	MRR (dB)
90	PI2 BPSK	1	1	16.47	16.53	16.41	20.5	0.0
Channel								
Frequency (MHz)				64000	64535	65000	Tune-up limit (dBm)	MRR (dB)
80	PI2 BPSK	1	1	16.44	16.53	16.40	20.5	0.0
Channel								
Frequency (MHz)				63500	64000	64535	Tune-up limit (dBm)	MRR (dB)
60	PI2 BPSK	1	1	16.50	16.58	16.44	20.5	0.0
Channel								
Frequency (MHz)				63000	63500	64000	Tune-up limit (dBm)	MRR (dB)
50	PI2 BPSK	1	1	16.50	16.57	16.41	20.5	0.0
Channel								
Frequency (MHz)				62500	63000	63500	Tune-up limit (dBm)	MRR (dB)
40	PI2 BPSK	1	1	16.44	16.52	16.45	20.5	0.0
Channel								
Frequency (MHz)				62000	62500	63000	Tune-up limit (dBm)	MRR (dB)
30	PI2 BPSK	1	1	16.46	16.58	16.43	20.5	0.0
Channel								
Frequency (MHz)				61500	62000	62500	Tune-up limit (dBm)	MRR (dB)
20	PI2 BPSK	1	1	16.49	16.53	16.45	20.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.20				
100	PI2 BPSK	1	137	17.22			19.0	0.0
100	PI2 BPSK	1	271	17.18				
100	PI2 BPSK	133	0	17.15			19.0	0.0
100	PI2 BPSK	133	69	17.16			19.0	0.0
100	PI2 BPSK	133	133	17.18			19.0	0.0
100	PI2 BPSK	270	0	17.23				
100	QPSK	1	1	17.24				
100	QPSK	1	137	17.16			19.0	0.0
100	QPSK	1	271	17.17				
100	QPSK	133	0	17.17			19.0	0.0
100	QPSK	133	69	17.22				
100	QPSK	133	133	17.20			19.0	0.0
100	QPSK	270	0	17.19			19.0	0.0
100	16QAM	1	1	17.20			19.0	0.0
100	16QAM	1	1	17.23				
100	256QAM	1	1	17.15			19.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	17.14	17.20	17.12	19.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	17.20	17.19	17.08	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	17.21	17.22	17.13	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	17.18	17.15	17.14	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	17.13	17.17	17.12	19.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MFR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99	19.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	17.20	17.21	17.12	19.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.82				
100	PI2 BPSK	1	137	18.87			20.5	0.0
100	PI2 BPSK	1	271	18.85				
100	PI2 BPSK	133	0	18.85			20.5	0.0
100	PI2 BPSK	133	69	18.86			20.5	0.0
100	PI2 BPSK	133	133	18.80			20.5	0.0
100	PI2 BPSK	270	0	18.84				
100	QPSK	1	1	18.95				
100	QPSK	1	137	18.91			20.5	0.0
100	QPSK	1	271	18.87				
100	QPSK	133	0	18.82			20.5	0.0
100	QPSK	133	69	18.88				
100	QPSK	133	133	18.84			20.5	0.0
100	QPSK	270	0	18.80			20.5	0.0
100	16QAM	1	1	18.84			20.5	0.0
100	16QAM	1	1	18.86				
100	256QAM	1	1	18.82			20.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.87	18.80	18.76	20.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.79	18.82	18.79	20.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.84	18.84	18.82	20.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.83	18.84	18.81	20.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.81	18.80	18.74	20.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MFR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99	19.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.85	18.80	18.79	20.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	138	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.47	25.37
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.5	25.48
100	QPSK	1	1	24.33	24.30	24.30	26.0	26.05
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.03
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.87
100	QPSK	138	0	24.12	24.23	24.22	25.87	25.88
100	QPSK	138	69	24.20	24.25	24.20	25.94	25.95
100	QPSK	138	138	24.11	24.16	24.09	25.70	25.76
100	QPSK	270	0	23.27	23.28	23.24	24.96	24.97
100	16QAM	1	1	23.27	23.38	23.29	25.0	24.89
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.37
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	25.95
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	25.88

Par270 n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	26.01
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.07	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	26.01
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	25.47
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	25.96
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	25.37
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.0	25.48
100	QPSK	1	1	25.99	26.12	26.05	27.5	26.05
100	QPSK	1	137	25.95	26.03	25.92	27.5	25.92
100	QPSK	1	271	25.85	25.92	25.87	27.5	25.87
100	QPSK	138	0	25.87	25.88	25.77	27.5	25.77
100	QPSK	138	69	25.94	26.06	25.95	27.5	25.95
100	QPSK	138	138	25.70	25.76	25.68	27.5	25.68
100	QPSK	270	0	24.96	24.97	24.87	26.5	24.87
100	16QAM	1	1	24.92	24.99	24.75	26.5	24.75
100	64QAM	1	1	23.43	23.47	23.37	25.0	23.37
100	256QAM	1	1	21.38	21.46	21.33	23.0	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	25.85
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	25.88



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	24.42	24.42	24.42		
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59		
100	QPSK	133	133	24.26	24.26	24.26		
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel				83300	83312	83368		
Frequency (MHz)				3495	3495.98	3504.99		
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel				83563	83312	83503		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel				83800	83312	83656		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel				83168	83312	83000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel				83134	83312	83332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel				83100	83312	83096		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel				83068	83332	83000		
Frequency (MHz)				3450.02	3499.98	3450		
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	25.99	25.99	25.99		
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.05	26.05	26.05	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08		
100	QPSK	133	133	25.94	25.94	25.94		
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel				83800	83312	83368		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel				83563	83312	83503		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel				83800	83312	83656		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel				83168	83312	83000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel				83134	83312	83332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel				83100	83312	83096		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel				83068	83332	83000		
Frequency (MHz)				3450.02	3499.98	3450		
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant10

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	18.62	18.73	18.85	20.5	0.0
100	PI2 BPSK	1	137	18.65	18.78	18.86		
100	PI2 BPSK	1	271	18.66	18.73	18.81		
100	PI2 BPSK	133	0	18.72	18.74	18.89	20.5	0.0
100	PI2 BPSK	133	69	18.73	18.74	18.81	20.5	0.0
100	PI2 BPSK	133	133	18.84	18.75	18.71	20.5	0.0
100	PI2 BPSK	270	0	18.72	18.73	18.70		
100	QPSK	1	1	18.85	18.83	18.92		
100	QPSK	1	137	18.59	18.66	18.55	20.5	0.0
100	QPSK	1	271	18.86	18.88	18.78		
100	QPSK	133	0	18.69	18.79	18.67	20.5	0.0
100	QPSK	133	69	18.77	18.87	18.84		
100	QPSK	133	133	18.69	18.75	18.71		
100	QPSK	270	0	18.66	18.71	18.89	20.5	0.0
100	16QAM	1	1	18.63	18.75	18.61	20.5	0.0
100	16QAM	1	1	18.73	18.79	18.72	20.5	0.0
100	256QAM	1	1	18.65	18.73	18.60	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	18.65	18.75	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	18.65	18.80	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	18.71	18.79	18.77	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	18.67	18.81	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	18.67	18.78	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	18.64	18.76	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	18.65	18.79	18.77	20.5	0.0

Par270 n77 HPUE_Ant10

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	20.36	20.39	20.37		
100	PI2 BPSK	1	137	20.43	20.41	20.45	22.0	0.0
100	PI2 BPSK	1	271	20.48	20.51	20.45		
100	PI2 BPSK	133	0	20.39	20.47	20.43	22.0	0.0
100	PI2 BPSK	133	69	20.33	20.51	20.49	22.0	0.0
100	PI2 BPSK	133	133	20.38	20.41	20.47	22.0	0.0
100	PI2 BPSK	270	0	20.45	20.49	20.44		
100	QPSK	1	1	20.48	20.54	20.51		
100	QPSK	1	137	20.38	20.52	20.38	22.0	0.0
100	QPSK	1	271	20.46	20.43	20.47		
100	QPSK	133	0	20.36	20.49	20.47	22.0	0.0
100	QPSK	133	69	20.34	20.43	20.39		
100	QPSK	133	133	20.39	20.46	20.49	22.0	0.0
100	QPSK	270	0	20.45	20.48	20.46	22.0	0.0
100	16QAM	1	1	20.45	20.47	20.38	22.0	0.0
100	16QAM	1	1	20.40	20.45	20.41	22.0	0.0
100	256QAM	1	1	20.45	20.46	20.47	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	20.30	20.36	20.28	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	20.29	20.39	20.36	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	20.30	20.45	20.29	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	20.32	20.42	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	20.22	20.33	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	20.22	20.36	20.33	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	20.35	20.35	20.24	22.0	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	63332	63332		
100	PI2 BPSK	1	1	19.10	19.10			
100	PI2 BPSK	1	137	19.12	19.12		20.5	0.0
100	PI2 BPSK	1	271	19.06	19.06			
100	PI2 BPSK	135	0	19.06	19.06		20.5	0.0
100	PI2 BPSK	135	66	19.04	19.04		20.5	0.0
100	PI2 BPSK	135	138	19.03	19.03		20.5	0.0
100	PI2 BPSK	270	0	19.07	19.07			
100	QPSK	1	1	19.15	19.15			
100	QPSK	1	137	19.07	19.07		20.5	0.0
100	QPSK	1	271	19.09	19.09			
100	QPSK	135	0	19.11	19.11		20.5	0.0
100	QPSK	135	66	19.13	19.13		20.5	0.0
100	QPSK	135	138	19.04	19.04			
100	QPSK	270	0	19.07	19.07		20.5	0.0
100	64QAM	1	1	19.04	19.04		20.5	0.0
100	64QAM	1	1	19.09	19.09		20.5	0.0
100	256QAM	1	1	19.06	19.06		20.5	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	19.06	19.06	18.92	20.5	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	19.00	19.09	18.89	20.5	0.0
Channel				64800	63332	63660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	19.01	19.03	18.97	20.5	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	18.99	19.14	18.94	20.5	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3520.98		
40	PI2 BPSK	1	1	19.01	19.05	18.89	20.5	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	18.93	19.02	18.98	20.5	0.0
Channel				63066	63332	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	19.02	19.06	18.89	20.5	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	63332	63332		
100	PI2 BPSK	1	1	20.61	20.61			
100	PI2 BPSK	1	137	20.58	20.58		22.0	0.0
100	PI2 BPSK	1	271	20.60	20.60			
100	PI2 BPSK	135	0	20.55	20.55		22.0	0.0
100	PI2 BPSK	135	66	20.57	20.57		22.0	0.0
100	PI2 BPSK	135	138	20.61	20.61		22.0	0.0
100	PI2 BPSK	270	0	20.58	20.58			
100	QPSK	1	1	20.66	20.66			
100	QPSK	1	137	20.61	20.61		22.0	0.0
100	QPSK	1	271	20.63	20.63			
100	QPSK	135	0	20.58	20.58		22.0	0.0
100	QPSK	135	66	20.64	20.64		22.0	0.0
100	QPSK	135	138	20.61	20.61			
100	QPSK	270	0	20.60	20.60		22.0	0.0
100	64QAM	1	1	20.56	20.56		22.0	0.0
100	64QAM	1	1	20.54	20.54		22.0	0.0
100	256QAM	1	1	20.56	20.56		22.0	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	20.60	20.53	20.43	22.0	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	20.54	20.63	20.54	22.0	0.0
Channel				64800	63332	63660	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	20.51	20.56	20.52	22.0	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	20.47	20.51	20.55	22.0	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3520.98		
40	PI2 BPSK	1	1	20.58	20.56	20.56	22.0	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	20.58	20.53	20.46	22.0	0.0
Channel				63066	63332	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	20.61	20.52	20.52	22.0	0.0



State 10 Power

n2_Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1600	1600	1600			
20	P1/2 BPSK	1	1	23.92	23.97	23.84			
20	P1/2 BPSK	1	83	23.91	23.95	23.88	25.0	0.0	
20	P1/2 BPSK	1	104	23.92	23.92	23.92			
20	P1/2 BPSK	50	0	23.89	23.90	23.83	25.0	0.0	
20	P1/2 BPSK	50	28	23.94	23.88	23.91	25.0	0.0	
20	P1/2 BPSK	50	56	23.80	23.89	23.83	25.0	0.0	
20	P1/2 BPSK	100	0	23.86	23.85	23.85	25.0	0.0	
20	QPSK	1	1	23.85	23.99	23.91			
20	QPSK	1	51	23.91	23.98	23.95	25.0	0.0	
20	QPSK	1	104	23.97	23.97	23.92			
20	QPSK	50	0	23.96	23.97	23.94	25.0	0.0	
20	QPSK	50	28	23.95	23.97	23.90	25.0	0.0	
20	QPSK	50	56	23.95	23.88	23.84	25.0	0.0	
20	QPSK	100	0	23.85	23.99	23.91	25.0	0.0	
20	16QAM	1	1	23.82	23.87	23.80	25.0	0.0	
20	64QAM	1	1	23.34	23.37	23.35	23.5	1.5	
20	256QAM	1	1	20.29	20.32	20.22	21.5	3.5	
Channel Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
15	P1/2 BPSK	1	1	23.86	23.94	23.90	25.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1805	1800	1805			
10	P1/2 BPSK	1	1	23.86	23.98	23.93	25.0	0.0	
Channel Frequency (MHz)				370000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
5	P1/2 BPSK	1	1	23.84	23.97	23.93	25.0	0.0	

n2_Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1600	1600	1600			
20	P1/2 BPSK	1	1	24.84	24.95	24.92			
20	P1/2 BPSK	1	83	24.82	24.92	24.79	26.0	0.0	
20	P1/2 BPSK	1	104	24.81	24.82	24.74			
20	P1/2 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	P1/2 BPSK	50	28	24.72	24.84	24.79	26.0	0.0	
20	P1/2 BPSK	50	56	24.22	24.24	24.23	25.5	0.5	
20	P1/2 BPSK	100	0	24.27	24.30	24.25	25.5	0.5	
20	QPSK	1	1	24.95	25.01	24.92			
20	QPSK	1	51	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.96	24.91			
20	QPSK	50	0	23.78	23.79	23.76	26.0	0.0	
20	QPSK	50	28	24.80	24.88	24.78	26.0	0.0	
20	QPSK	50	56	23.70	23.81	23.69	26.0	0.0	
20	QPSK	100	0	23.72	23.84	23.79	26.0	0.0	
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0	
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5	
Channel Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
15	P1/2 BPSK	1	1	24.83	24.91	24.88	26.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1805	1800	1805			
10	P1/2 BPSK	1	1	24.84	24.94	24.89	26.0	0.0	
Channel Frequency (MHz)				370000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
5	P1/2 BPSK	1	1	24.91	24.87	24.86	26.0	0.0	



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				1600	1800	1900		
20	PI2 BPSK	1	1	22.61	22.62	22.52	23.5	0.0
20	PI2 BPSK	1	83	22.56	22.63	22.53		
20	PI2 BPSK	1	104	22.58	22.62	22.52		
20	PI2 BPSK	50	0	22.05	22.18	22.13	23.0	0.5
20	PI2 BPSK	50	28	22.85	22.66	22.54	23.5	0.0
20	PI2 BPSK	50	56	22.05	22.10	22.01	23.0	0.5
20	PI2 BPSK	100	0	22.16	22.17	22.10		
20	QPSK	1	1	22.73	22.76	22.75		
20	QPSK	1	51	22.59	22.70	22.59	23.5	0.0
20	QPSK	1	104	22.59	22.65	22.59	23.5	0.0
20	QPSK	50	0	21.58	21.69	21.59		
20	QPSK	50	28	22.60	22.64	22.63		
20	QPSK	50	56	21.59	21.62	21.61	23.5	0.0
20	QPSK	100	0	21.56	21.63	21.62		
20	QPSK	1	1	21.99	21.78	21.84		
20	16QAM	1	1	20.29	20.34	20.32	23.0	2.5
20	64QAM	1	1	17.95	18.05	18.04	19.0	4.5
Channel Frequency (MHz)				371000	376000	380000		
15	PI2 BPSK	1	1	22.56	22.64	22.54		
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR
Channel Frequency (MHz)				1805	1860	1900		
10	PI2 BPSK	1	1	22.57	22.64	22.58	23.5	0.0
Channel Frequency (MHz)				370000	376000	381000	Tune-up limit (dBm)	MPR
Channel Frequency (MHz)				1802.5	1860	1902.5		
5	PI2 BPSK	1	1	22.54	22.62	22.58	23.5	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq				
Channel Frequency (MHz)				1600	1800	1900				
20	PI2 BPSK	1	1	24.49	24.51	24.43	26.0	0.0		
20	PI2 BPSK	1	83	24.32	24.46	24.32				
20	PI2 BPSK	1	104	24.40	24.25	24.46				
20	PI2 BPSK	50	0	23.99	24.02	24.00	25.5	0.5		
20	PI2 BPSK	50	28	24.46	24.53	24.41	26.0	0.0		
20	PI2 BPSK	50	56	23.94	23.99	23.92	25.5	0.5		
20	PI2 BPSK	100	0	23.91	23.95	23.88				
20	QPSK	1	1	24.63	24.71	24.60				
20	QPSK	1	51	24.58	24.66	24.57	26.0	0.0		
20	QPSK	1	104	24.60	24.68	24.58				
20	QPSK	50	0	23.51	23.54	23.42				
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0		
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0		
20	QPSK	100	0	23.39	23.46	23.33				
20	16QAM	1	1	23.99	23.98	23.48				
20	64QAM	1	1	21.66	21.81	21.75	23.5	2.5		
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5		
Channel Frequency (MHz)				160000	167000	169000			Tune-up limit (dBm)	MPR (dB)
15	PI2 BPSK	1	1	24.56	24.64	24.60			26.0	0.0
Channel Frequency (MHz)				160000	167000	169000	Tune-up limit (dBm)	MPR		
Channel Frequency (MHz)				800	808.5	844				
10	PI2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0		
Channel Frequency (MHz)				160000	167000	169000	Tune-up limit (dBm)	MPR		
Channel Frequency (MHz)				802.5	808.5	846.5				
5	PI2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0		



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				168300	167300	167900		
Frequency (MHz)				834	834.5	835		
20	P1/2 BPSK	1	1	24.49	24.51	24.43		
20	P1/2 BPSK	1	83	24.32	24.45	24.32	26.0	0.0
20	P1/2 BPSK	1	104	24.40	24.25	24.45		
20	P1/2 BPSK	50	0	23.59	24.02	24.00	25.5	0.5
20	P1/2 BPSK	50	28	24.46	24.53	24.41	26.0	0.0
20	P1/2 BPSK	50	56	23.94	23.89	23.92		
20	P1/2 BPSK	100	0	23.91	23.95	23.85	26.5	0.5
20	QPSK	1	1	24.63	24.71	24.60		
20	QPSK	1	51	24.56	24.68	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	26.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34		
20	QPSK	100	0	23.39	23.46	23.33	26.0	1.0
20	16QAM	1	1	23.99	23.96	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.75	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				168300	167300	167300		
Frequency (MHz)				831.5	830.5	831.5		
15	P1/2 BPSK	1	1	24.56	24.64	24.60	26.0	0.0
Channel				168300	167300	168300		
Frequency (MHz)				830	829.5	834		
10	P1/2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0
Channel				168300	167300	168300		
Frequency (MHz)				829.5	828.5	832.5		
5	P1/2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				502000	507000	513000		
Frequency (MHz)				2410	2435	2460		
20	P1/2 BPSK	1	1	21.77	21.75	21.69		
20	P1/2 BPSK	1	83	21.82	21.84	21.83	22.5	0.0
20	P1/2 BPSK	1	104	21.76	21.81	21.71		
20	P1/2 BPSK	50	0	21.78	21.73	21.72	22.5	0.0
20	P1/2 BPSK	50	28	21.76	21.71	21.77	22.5	0.0
20	P1/2 BPSK	50	56	21.75	21.70	21.74		
20	P1/2 BPSK	100	0	21.67	21.72	21.70	22.5	0.0
20	QPSK	1	1	21.80	21.85	21.78		
20	QPSK	1	51	21.82	21.82	21.72	22.5	0.0
20	QPSK	1	104	21.74	21.85	21.78		
20	QPSK	50	0	21.71	21.67	21.74	22.5	0.0
20	QPSK	50	28	21.63	21.69	21.54	22.5	0.0
20	QPSK	50	56	21.67	21.65	21.55		
20	QPSK	100	0	21.64	21.70	21.58	22.5	0.0
20	16QAM	1	1	21.76	21.81	21.68	22.5	0.0
20	64QAM	1	1	21.44	21.47	21.51	22.5	0.0
20	256QAM	1	1	20.63	20.69	20.70	21.5	1.0
Channel				507000	507000	512000		
Frequency (MHz)				2421.5	2425	2422.5		
15	P1/2 BPSK	1	1	21.76	21.71	21.67	22.5	0.0
Channel				507000	507000	513000		
Frequency (MHz)				2425	2425	2425		
10	P1/2 BPSK	1	1	21.68	21.68	21.77	22.5	0.0
Channel				507000	507000	513000		
Frequency (MHz)				2425.5	2425	2422.5		
5	P1/2 BPSK	1	1	21.74	21.74	21.68	22.5	0.0

2600

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0.005

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n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				24.0	24.6	24.6		
20	P1/2 BPSK	1	1	24.85	24.95	24.94		
20	P1/2 BPSK	1	83	24.81	24.91	24.86	26.0	0.0
20	P1/2 BPSK	1	104	24.84	24.93	24.87		
20	P1/2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	P1/2 BPSK	50	28	24.32	24.39	24.33	26.0	0.0
20	P1/2 BPSK	50	56	24.36	24.45	24.38		
20	P1/2 BPSK	100	0	24.30	24.43	24.34	26.5	0.5
20	QPSK	1	1	24.96	24.97	24.91		
20	QPSK	1	83	24.82	24.91	24.90	26.0	0.0
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	26.0	0.0
20	QPSK	50	28	24.86	24.91	24.86	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.90		
20	QPSK	100	0	23.88	23.95	23.83	26.0	0.0
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	23.31	23.35	23.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel Frequency (MHz)				501900	501900	512500	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				2507.5	2505	2502.5		
15	P1/2 BPSK	1	1	24.81	24.90	24.87	26.0	0.0
Channel Frequency (MHz)				501000	501000	513000	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				2505	2505	2505		
10	P1/2 BPSK	1	1	24.74	24.86	24.87	26.0	0.0
Channel Frequency (MHz)				500900	501000	513000	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				2502.5	2505	2507.5		
5	P1/2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0

2500 0 0.005 Fgloba

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				141900	141900	141700		
15	P1/2 BPSK	1	1	24.30	24.39	24.30		
15	P1/2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	P1/2 BPSK	1	77	24.33	24.37	24.33		
15	P1/2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	P1/2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	P1/2 BPSK	36	43	23.60	23.78	23.75	26.5	0.5
15	P1/2 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	26.0	1.0
15	QPSK	36	22	24.16	24.28	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.25	23.23		
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	64QAM	1	1	21.00	21.09	21.01	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel Frequency (MHz)				140800	141600	142200	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				704	707.5	711		
10	P1/2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel Frequency (MHz)				140900	141600	142700	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				701.5	707.5	713.5		
5	P1/2 BPSK	1	1	24.27	24.35	24.28	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				141300	141500	141700		
701.5				701.5	701.5	701.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30		
15	PI2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.60	23.78	23.75		
15	PI2 BPSK	75	0	23.62	23.75	23.72	26.5	0.5
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.20	24.38	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	26.0	1.0
15	QPSK	36	22	24.16	24.40	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20		
15	QPSK	75	0	23.21	23.25	23.23	26.0	1.0
15	16QAM	1	1	23.09	23.18	23.07	26.0	1.0
15	64QAM	1	1	21.50	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel Frequency (MHz)				140500	141000	142200		
704				704	707.5	711		
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel Frequency (MHz)				140300	141000	142700		
701.5				701.5	707.5	713.5		
5	PI2 BPSK	1	1	24.27	24.35	24.26	26.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				372000	376000	381000		
1800				1800	1800	1800		
20	PI2 BPSK	1	1	23.97	23.89	23.99		
20	PI2 BPSK	1	83	24.06	24.13	24.02	25.0	0.0
20	PI2 BPSK	1	104	24.00	23.94	23.96		
20	PI2 BPSK	50	0	24.11	24.13	24.10	25.0	0.0
20	PI2 BPSK	50	26	24.07	24.11	24.08	25.0	0.0
20	PI2 BPSK	50	56	23.96	23.96	24.01		
20	PI2 BPSK	100	0	23.79	23.84	23.85	25.0	0.0
20	QPSK	1	1	23.99	24.24	24.04		
20	QPSK	1	51	23.97	23.84	23.96	25.0	0.0
20	QPSK	1	104	23.98	23.84	23.99		
20	QPSK	50	0	23.97	24.09	23.88	25.0	0.0
20	QPSK	50	26	23.83	24.13	23.92	25.0	0.0
20	QPSK	50	56	23.87	24.05	23.97		
20	QPSK	100	0	23.85	24.11	23.95	25.0	0.0
20	16QAM	1	1	23.85	23.82	23.80	25.0	0.0
20	64QAM	1	1	22.33	22.43	22.35	23.5	1.5
20	256QAM	1	1	20.69	20.70	20.75	21.5	3.5
Channel Frequency (MHz)				371500	376000	381500		
1807.5				1807.5	1807.5	1807.5		
15	PI2 BPSK	1	1	24.00	24.13	24.01	25.0	0.0
Channel Frequency (MHz)				371000	376000	382000		
1805				1805	1807.5	1810		
10	PI2 BPSK	1	1	23.94	24.10	24.06	25.0	0.0
Channel Frequency (MHz)				370500	376000	382500		
1802.5				1802.5	1812.5	1812.5		
5	PI2 BPSK	1	1	23.95	24.19	24.06	25.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Mid-H Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MRR (dB)
1600				1862.5	1907.5	1952.5		
20	P1/2 BPSK	1	1	24.87	24.88	24.85		
20	P1/2 BPSK	1	83	24.73	24.79	24.70	26.0	0.0
20	P1/2 BPSK	1	104	24.76	24.84	24.74		
20	P1/2 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	P1/2 BPSK	50	28	24.72	24.81	24.79	26.0	0.0
20	P1/2 BPSK	50	56	24.76	24.81	24.75		
20	P1/2 BPSK	100	0	24.30	24.33	24.25	26.5	0.5
20	QPSK	1	1	24.91	25.05	24.83		
20	QPSK	1	51	24.84	24.88	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.89	26.0	1.0
20	QPSK	50	28	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88		
20	QPSK	100	0	24.05	24.11	24.00	26.0	1.0
20	16QAM	1	1	23.94	24.05	24.04	26.0	1.0
20	64QAM	1	1	22.30	22.33	22.25	23.5	2.5
20	256QAM	1	1	20.49	20.62	20.59	21.5	4.5
Channel Frequency (MHz)				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1507.5				1892.5	1937.5	1982.5		
15	P1/2 BPSK	1	1	24.79	24.87	24.87	26.0	0.0
Channel Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MRR (dB)
1805				1895	1940	1985		
10	P1/2 BPSK	1	1	24.83	24.88	24.86	26.0	0.0
Channel Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1802.5				1892.5	1937.5	1982.5		
5	P1/2 BPSK	1	1	24.76	24.86	24.86	26.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Mid-H Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MRR (dB)
1600				1862.5	1907.5	1952.5		
20	P1/2 BPSK	1	1	22.47	22.51	22.45		
20	P1/2 BPSK	1	83	22.44	22.49	22.47	23.5	0.0
20	P1/2 BPSK	1	104	22.40	22.52	22.45		
20	P1/2 BPSK	50	0	22.00	22.09	21.97	23.0	0.5
20	P1/2 BPSK	50	28	22.43	22.46	22.43	23.5	0.0
20	P1/2 BPSK	50	56	22.00	22.06	21.93		
20	P1/2 BPSK	100	0	22.11	22.13	22.12	23.0	0.5
20	QPSK	1	1	22.52	22.62	22.52		
20	QPSK	1	51	22.42	22.51	22.46	23.5	0.0
20	QPSK	1	104	22.42	22.53	22.43		
20	QPSK	50	0	21.57	21.66	21.57	22.5	1.0
20	QPSK	50	28	22.44	22.56	22.49	23.5	0.0
20	QPSK	50	56	21.47	21.56	21.44		
20	QPSK	100	0	21.66	21.68	21.59	22.5	1.0
20	16QAM	1	1	21.98	21.99	21.94	22.5	1.0
20	64QAM	1	1	20.16	20.24	20.19	21.0	2.5
20	256QAM	1	1	18.03	18.16	18.07	18.0	4.5
Channel Frequency (MHz)				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1507.5				1892.5	1937.5	1982.5		
15	P1/2 BPSK	1	1	22.39	22.48	22.43	23.5	0.0
Channel Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MRR (dB)
1805				1895	1940	1985		
10	P1/2 BPSK	1	1	22.35	22.50	22.40	23.5	0.0
Channel Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1802.5				1892.5	1937.5	1982.5		
5	P1/2 BPSK	1	1	22.36	22.44	22.44	23.5	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				164800	166300	167800		
				194	811.5	1338		
20	PI2 BPSK	1	1	24.46	24.33	24.50		
20	PI2 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.32	23.85	25.5	0.5
20	PI2 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.86	23.87	23.77		
20	PI2 BPSK	100	0	23.72	23.78	23.87	26.5	0.5
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	51	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.26	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30		
20	QPSK	100	0	23.26	23.32	23.24	26.0	1.0
20	16QAM	1	1	24.16	23.81	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.65	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel Frequency (MHz)				164300	166300	168300		
Channel Frequency (MHz)				161300	163300	165300		
15	PI2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel Frequency (MHz)				163600	165600	167600		
Channel Frequency (MHz)				161600	163600	165600		
10	PI2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel Frequency (MHz)				163300	165300	167300		
Channel Frequency (MHz)				161300	163300	165300		
5	PI2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				164800	166300	167800		
				194	811.5	1338		
20	PI2 BPSK	1	1	24.46	24.33	24.50		
20	PI2 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.32	23.85	25.5	0.5
20	PI2 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.86	23.87	23.77		
20	PI2 BPSK	100	0	23.72	23.78	23.87	26.5	0.5
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	51	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.26	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30		
20	QPSK	100	0	23.26	23.32	23.24	26.0	1.0
20	16QAM	1	1	24.16	23.81	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.65	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel Frequency (MHz)				164300	166300	168300		
Channel Frequency (MHz)				161300	163300	165300		
15	PI2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel Frequency (MHz)				163600	165600	167600		
Channel Frequency (MHz)				161600	163600	165600		
10	PI2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel Frequency (MHz)				163300	165300	167300		
Channel Frequency (MHz)				161300	163300	165300		
5	PI2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
10	P1/2 BPSK	1	1		21.29		22.5	0.0
10	P1/2 BPSK	1	26		21.30			
10	P1/2 BPSK	1	50		21.31		22.0	0.5
10	P1/2 BPSK	25	0		20.07			
10	P1/2 BPSK	25	14		21.27		22.5	0.0
10	P1/2 BPSK	25	27		20.78			
10	P1/2 BPSK	50	0		20.50		22.0	0.5
10	P1/2 BPSK	50	0		20.50			
10	QPSK	1	1		21.40		22.5	0.0
10	QPSK	1	26		21.34			
10	QPSK	1	50		21.33		21.5	1.0
10	QPSK	25	0		20.22			
10	QPSK	25	14		21.36		22.5	0.0
10	QPSK	25	27		20.24			
10	QPSK	50	0		20.31		21.5	1.0
10	QPSK	50	0		20.31			
10	16QAM	1	1		20.43		21.5	1.0
10	16QAM	1	1		18.67			
10	256QAM	1	1		18.68		18.0	4.5
10	256QAM	1	1		18.68			
Channel Frequency (MHz)				481500	482000	482500	Tune-up limit (dBm)	MRR (dB)
5	P1/2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
10	P1/2 BPSK	1	1		21.29		22.5	0.0
10	P1/2 BPSK	1	26		21.30			
10	P1/2 BPSK	1	50		21.31		22.0	0.5
10	P1/2 BPSK	25	0		20.07			
10	P1/2 BPSK	25	14		21.27		22.5	0.0
10	P1/2 BPSK	25	27		20.78			
10	P1/2 BPSK	50	0		20.50		22.0	0.5
10	P1/2 BPSK	50	0		20.50			
10	QPSK	1	1		21.40		22.5	0.0
10	QPSK	1	26		21.34			
10	QPSK	1	50		21.33		21.5	1.0
10	QPSK	25	0		20.22			
10	QPSK	25	14		21.36		22.5	0.0
10	QPSK	25	27		20.24			
10	QPSK	50	0		20.31		21.5	1.0
10	QPSK	50	0		20.31			
10	16QAM	1	1		20.43		21.5	1.0
10	16QAM	1	1		18.67			
10	256QAM	1	1		18.68		18.0	4.5
10	256QAM	1	1		18.68			
Channel Frequency (MHz)				481500	482000	482500	Tune-up limit (dBm)	MRR (dB)
5	P1/2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
10	PI2 BPSK	1	1	21.84			23.5	0.0
10	PI2 BPSK	1	26	21.96				
10	PI2 BPSK	1	50	21.84				
10	PI2 BPSK	25	0	21.36			23.0	0.5
10	PI2 BPSK	25	14	21.84			23.5	0.0
10	PI2 BPSK	25	27	21.36			23.0	0.5
10	PI2 BPSK	50	0	21.36				
10	QPSK	1	1	21.59			23.5	0.0
10	QPSK	1	26	21.50				
10	QPSK	1	50	21.55				
10	QPSK	25	0	20.52			22.5	1.0
10	QPSK	25	14	21.86			23.5	0.0
10	QPSK	25	27	20.54			22.5	1.0
10	QPSK	50	0	20.56				
10	16QAM	1	1	21.07			22.5	1.0
10	64QAM	1	1	19.33			21.0	2.5
10	256QAM	1	1	17.33			19.0	4.5
Channel Frequency (MHz)				481500	482000	482500	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	21.92	21.94	21.91	23.5	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.76	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	160	0	24.09	24.16	24.13	25.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.78	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	26.0	1.0
30	QPSK	80	40	24.75	24.86	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	160	0	23.61	23.69	23.68		
30	16QAM	1	1	23.96	23.70	23.84	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MRR (dB)
20	PI2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel Frequency (MHz)				342000	349000	355000	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	P1/2 BPSK	1	1	24.69	24.81	24.69		
30	P1/2 BPSK	1	80	24.69	24.75	24.63	26.0	0.0
30	P1/2 BPSK	1	158	24.76	24.79	24.628		
30	P1/2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	P1/2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	P1/2 BPSK	80	80	24.06	24.18	24.028		
30	P1/2 BPSK	160	0	24.09	24.16	24.13	26.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.88	24.78	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	26.0	1.0
30	QPSK	80	40	24.78	24.88	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61		
30	QPSK	160	0	23.61	23.69	23.68	26.0	1.0
30	16QAM	1	1	23.96	23.70	23.84	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1750	1765	1770		
20	P1/2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel				342000	345000	348000		
Frequency (MHz)				1711.5	1725	1722.5		
15	P1/2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	P1/2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel				342000	349000	355000		
Frequency (MHz)				1712.5	1745	1772.5		
5	P1/2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	P1/2 BPSK	1	1	22.06	22.18	22.11		
30	P1/2 BPSK	1	80	22.17	22.20	22.07	23.5	0.0
30	P1/2 BPSK	1	158	22.90	22.02	21.98		
30	P1/2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	P1/2 BPSK	80	40	22.11	22.23	22.18	23.5	0.0
30	P1/2 BPSK	80	80	21.66	21.70	21.62		
30	P1/2 BPSK	160	0	21.64	21.67	21.64	23.0	0.5
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.06	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.08		
30	QPSK	80	0	21.13	21.26	21.12	22.5	1.0
30	QPSK	80	40	22.16	22.23	22.16	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13		
30	QPSK	160	0	21.16	21.27	21.18	22.5	1.0
30	16QAM	1	1	21.99	21.45	21.30	22.5	1.0
30	64QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.68	17.61	17.66	18.0	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1750	1765	1770		
20	P1/2 BPSK	1	1	22.10	22.13	21.99	23.5	0.0
Channel				342000	349000	354000		
Frequency (MHz)				1711.5	1745	1772.5		
15	P1/2 BPSK	1	1	22.02	22.16	22.02	23.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	P1/2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
Channel				342000	349000	355000		
Frequency (MHz)				1712.5	1745	1772.5		
5	P1/2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)								
				191.5	191.5	191.5		
20	PI2 BPSK	1	1	24.71	24.74	24.70	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	25.5	0.5
20	QPSK	1	1	24.70	24.82	24.73	26.0	0.0
20	QPSK	1	53	24.53	24.62	24.60		
20	QPSK	1	104	24.54	24.58	24.58		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.32	23.63	23.57	25.0	1.0
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel Frequency (MHz)								
				134.100	134.100	134.100		
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel Frequency (MHz)								
				136.600	136.100	136.600		
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel Frequency (MHz)								
				133.100	136.100	139.100		
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)								
				191.5	191.5	191.5		
20	PI2 BPSK	1	1	24.71	24.74	24.70	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	25.5	0.5
20	QPSK	1	1	24.70	24.82	24.73	26.0	0.0
20	QPSK	1	53	24.53	24.62	24.60		
20	QPSK	1	104	24.54	24.58	24.58		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.32	23.63	23.57	25.0	1.0
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel Frequency (MHz)								
				134.100	134.100	134.100		
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel Frequency (MHz)								
				136.600	136.100	136.600		
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel Frequency (MHz)								
				133.100	136.100	139.100		
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2585	2600		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2585	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2585	2600		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2585	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505200	516596	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2436	2592.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				502200	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2592.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2679.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505200	516596	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2436	2592.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505200	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502200	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2592.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2679.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502000	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	18.50	18.67	18.57		
40	PI2 BPSK	1	53	18.41	18.53	18.31	20.0	0.0
40	PI2 BPSK	1	104	18.23	18.66	18.48		
40	PI2 BPSK	50	0	18.47	18.61	18.39	20.0	0.0
40	PI2 BPSK	50	26	18.35	18.59	18.40	20.0	0.0
40	PI2 BPSK	50	56	18.46	18.62	18.47	20.0	0.0
40	PI2 BPSK	100	0	18.36	18.58	18.39		
40	QPSK	1	1	18.48	18.70	18.60		
40	QPSK	1	53	18.46	18.66	18.52	20.0	0.0
40	QPSK	1	104	18.45	18.64	18.54		
40	QPSK	50	0	18.48	18.67	18.50		
40	QPSK	50	26	18.55	18.58	18.54	20.0	0.0
40	QPSK	50	56	18.44	18.66	18.43		
40	QPSK	100	0	18.41	18.66	18.41	20.0	0.0
40	64QAM	1	1	18.41	18.62	18.39	20.0	0.0
40	64QAM	1	1	18.36	18.56	18.31	20.0	0.0
40	256QAM	1	1	18.44	18.59	18.45	18.0	2.0
Channel				637058	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	18.50	18.60	18.54	20.0	0.0
Channel				638234	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	18.43	18.59	18.45	20.0	0.0
Channel				638168	641666	645165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	18.51	18.57	18.49	20.0	0.0
Channel				638000	641666	645332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	18.46	18.55	18.48	20.0	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.5	0.0
40	PI2 BPSK	50	26	20.18	21.28	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.5	0.0
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	22.5	0.0
40	64QAM	1	1	18.97	20.03	18.99	22.5	0.0
40	64QAM	1	1	18.48	18.50	18.47	22.5	0.0
40	256QAM	1	1	18.36	18.50	18.55	20.5	2.0
Channel				637058	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				638234	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				638168	641666	645165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				638000	641666	645332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	138	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	26.0	0.0
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	26.0	0.0
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	26.0	0.0
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	26.0	0.0
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	26.0	0.0
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98	26.0	0.0
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99	26.0	0.0
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	138	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	25.0	1.0
100	16QAM	1	1	24.92	24.99	24.76	25.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	27.5	0.0
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	27.5	0.0
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	27.5	0.0
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	27.5	0.0
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	27.5	0.0
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98	27.5	0.0
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99	27.5	0.0
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45	26.0	0.0
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	25.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01	25.0	0.0
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32	26.0	0.0
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59	26.0	0.0
100	QPSK	133	133	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.17	24.17	24.17	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.99	25.99	25.99	27.5	0.0
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.0	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03	27.0	0.0
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46	26.5	1.0
100	QPSK	1	1	26.11	26.11	26.11	27.5	0.0
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04	27.5	0.0
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08	27.5	0.0
100	QPSK	133	133	25.84	25.84	25.84	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42	25.99	26.0	0.0
100	PI2 BPSK	1	137	3499.98	24.41	26.00		
100	PI2 BPSK	1	271	3499.98	24.45	26.03		
100	PI2 BPSK	138	0	3499.98	23.93	25.51	27.0	0.5
100	PI2 BPSK	138	69	3499.98	24.31	25.96	27.0	0.0
100	PI2 BPSK	138	138	3499.98	24.15	25.50	27.0	0.5
100	PI2 BPSK	270	0	3499.98	24.01	25.46		
100	QPSK	1	1	3499.98	24.53	26.11	26.0	0.0
100	QPSK	1	137	3499.98	24.28	26.05		
100	QPSK	1	271	3499.98	24.32	26.04	27.5	0.0
100	QPSK	138	0	3499.98	24.14	25.98		
100	QPSK	138	69	3499.98	24.59	26.08	27.5	0.0
100	QPSK	138	138	3499.98	24.26	25.84		
100	QPSK	270	0	3499.98	23.62	25.0	26.5	1.0
100	16QAM	1	1	3499.98	23.66	24.5	26.5	1.0
100	64QAM	1	1	3499.98	21.81	23.5	26.0	2.5
100	256QAM	1	1	3499.98	19.83	21.5	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3499.98	3333.12	3304.99	18.8	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3499.98	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3499.98	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3499.98	24.20	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3499.98	24.28	24.24	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3499.98	24.21	24.23	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3499.98	24.02	24.00	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3499.98	24.21	24.27	26.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42	25.99	27.5	0.0
100	PI2 BPSK	1	137	3499.98	24.41	26.00		
100	PI2 BPSK	1	271	3499.98	24.45	26.03		
100	PI2 BPSK	138	0	3499.98	23.93	25.51	27.0	0.5
100	PI2 BPSK	138	69	3499.98	24.31	25.96	27.0	0.0
100	PI2 BPSK	138	138	3499.98	24.15	25.50	27.0	0.5
100	PI2 BPSK	270	0	3499.98	24.01	25.46		
100	QPSK	1	1	3499.98	24.53	26.11	27.5	0.0
100	QPSK	1	137	3499.98	24.28	26.05		
100	QPSK	1	271	3499.98	24.32	26.04	27.5	0.0
100	QPSK	138	0	3499.98	24.14	25.98		
100	QPSK	138	69	3499.98	24.59	26.08	27.5	0.0
100	QPSK	138	138	3499.98	24.26	25.84		
100	QPSK	270	0	3499.98	23.62	24.91	26.5	1.0
100	16QAM	1	1	3499.98	23.66	24.49	26.5	1.0
100	64QAM	1	1	3499.98	21.81	23.4	26.0	2.5
100	256QAM	1	1	3499.98	19.83	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3499.98	3333.12	3304.99	18.8	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3499.98	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3499.98	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3499.98	24.20	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3499.98	24.28	24.24	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3499.98	24.21	24.23	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3499.98	24.02	24.00	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3499.98	24.21	24.27	26.0	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	17.51	17.68	17.84	19.5	0.0
100	PI2 BPSK	1	137	17.59	17.72	17.83		
100	PI2 BPSK	1	271	17.62	17.71	17.88		
100	PI2 BPSK	133	0	17.57	17.65	17.87	19.5	0.0
100	PI2 BPSK	135	69	17.64	17.66	17.81	19.5	0.0
100	PI2 BPSK	135	135	17.62	17.73	17.87	19.5	0.0
100	PI2 BPSK	270	0	17.69	17.69	17.87		
100	QPSK	1	1	17.76	17.82	17.83		
100	QPSK	1	137	17.51	17.64	17.80	19.5	0.0
100	QPSK	1	271	17.82	17.86	17.77		
100	QPSK	135	0	17.68	17.78	17.66		
100	QPSK	135	69	17.83	17.79	17.77	19.5	0.0
100	QPSK	135	135	17.68	17.70	17.69		
100	QPSK	270	0	17.64	17.72	17.69	19.5	0.0
100	16QAM	1	1	17.46	17.71	17.85	19.5	0.0
100	64QAM	1	1	17.65	17.68	17.88	19.5	0.0
100	256QAM	1	1	17.50	17.62	17.59	19.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	17.76	17.78	17.74	19.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	17.70	17.81	17.80	19.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	17.67	17.84	17.74	19.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	17.76	17.84	17.79	19.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	17.73	17.84	17.73	19.5	0.0
Channel				84768	86000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	17.71	17.87	17.75	19.5	0.0
Channel				84733	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	17.68	17.78	17.79	19.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	19.33	19.34	19.24		
100	PI2 BPSK	1	137	19.40	19.33	19.33	21.0	0.0
100	PI2 BPSK	1	271	19.39	19.41	19.41		
100	PI2 BPSK	133	0	19.28	19.37	19.39	21.0	0.0
100	PI2 BPSK	135	69	19.31	19.32	19.39	21.0	0.0
100	PI2 BPSK	135	135	19.31	19.32	19.39	21.0	0.0
100	PI2 BPSK	270	0	19.40	19.32			
100	QPSK	1	1	19.33	19.47	19.43		
100	QPSK	1	137	19.33	19.40	19.24	21.0	0.0
100	QPSK	1	271	19.37	19.33	19.40		
100	QPSK	135	0	19.26	19.34	19.37		
100	QPSK	135	69	19.26	19.45	19.39	21.0	0.0
100	QPSK	135	135	19.28	19.40	19.43		
100	QPSK	270	0	19.32	19.40	19.39	21.0	0.0
100	16QAM	1	1	19.36	19.37	19.36	21.0	0.0
100	64QAM	1	1	19.40	19.40	19.30	21.0	0.0
100	256QAM	1	1	19.42	19.31	19.45	21.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	19.31	19.26	19.38	21.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	19.25	19.34	19.34	21.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	19.30	19.39	19.39	21.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	19.19	19.25	19.25	21.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	19.25	19.31	19.27	21.0	0.0
Channel				84768	86000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	19.27	19.31	19.39	21.0	0.0
Channel				84733	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	19.29	19.29	19.25	21.0	0.0



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.02	18.02			
100	PI2 BPSK	1	137	18.07	18.07		19.5	0.0
100	PI2 BPSK	1	271	18.05	18.05			
100	PI2 BPSK	133	0	17.94	17.94		19.5	0.0
100	PI2 BPSK	133	69	18.00	18.00		19.5	0.0
100	PI2 BPSK	133	133	17.92	17.92		19.5	0.0
100	PI2 BPSK	270	0	18.00	18.00			
100	QPSK	1	1	18.11	18.11			
100	QPSK	1	137	18.02	18.02		19.5	0.0
100	QPSK	1	271	17.98	17.98			
100	QPSK	133	0	18.03	18.03		19.5	0.0
100	QPSK	133	69	18.09	18.09		19.5	0.0
100	QPSK	133	133	17.92	17.92		19.5	0.0
100	QPSK	270	0	18.07	18.07		19.5	0.0
100	16QAM	1	1	17.97	17.97		19.5	0.0
100	16QAM	1	1	17.97	17.97		19.5	0.0
100	256QAM	1	1	17.94	17.94		19.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	17.82	17.81	17.76	19.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	17.78	17.85	17.75	19.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	17.87	17.80	17.79	19.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	17.84	17.75	17.75	19.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	17.88	17.78	17.76	19.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	17.89	17.84	17.82	19.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	17.93	17.81	17.74	19.5	0.0

Par27Q n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.00	18.00			
100	PI2 BPSK	1	137	18.03	18.03		21.0	0.0
100	PI2 BPSK	1	271	18.06	18.06			
100	PI2 BPSK	133	0	18.05	18.05		21.0	0.0
100	PI2 BPSK	133	69	18.01	18.01		21.0	0.0
100	PI2 BPSK	133	133	18.09	18.09		21.0	0.0
100	PI2 BPSK	270	0	18.03	18.03			
100	QPSK	1	1	18.05	18.05			
100	QPSK	1	137	18.01	18.01		21.0	0.0
100	QPSK	1	271	18.49	18.49			
100	QPSK	133	0	18.07	18.07		21.0	0.0
100	QPSK	133	69	18.00	18.00		21.0	0.0
100	QPSK	133	133	18.06	18.06		21.0	0.0
100	QPSK	270	0	18.01	18.01		21.0	0.0
100	16QAM	1	1	18.08	18.08		21.0	0.0
100	16QAM	1	1	18.42	18.42		21.0	0.0
100	256QAM	1	1	18.41	18.41		21.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.47	18.31	18.18	21.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.49	18.36	18.29	21.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.37	18.34	18.23	21.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.35	18.30	18.28	21.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.42	18.40	18.23	21.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.48	18.30	18.30	21.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.45	18.34	18.23	21.0	0.0



Par270 n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
				3790	3840	3900		
100	PI2 BPSK	1	1	23.30	23.38	23.35		
100	PI2 BPSK	1	137	23.26	23.31	23.29		
100	PI2 BPSK	1	271	23.26	23.35	23.38		
100	PI2 BPSK	138	0	23.38	23.37	23.35	25.0	0.0
100	PI2 BPSK	138	69	23.37	23.40	23.32	25.0	0.0
100	PI2 BPSK	138	138	23.23	23.27	23.25	25.0	0.0
100	PI2 BPSK	270	0	23.27	23.36	23.28		
100	QPSK	1	1	23.32	23.42	23.40		
100	QPSK	1	137	23.30	23.40	23.39	25.0	0.0
100	QPSK	1	271	23.37	23.39	23.34		
100	QPSK	138	0	23.32	23.34	23.27		
100	QPSK	138	69	23.12	23.20	23.17	25.0	0.0
100	QPSK	138	138	23.16	23.17	23.10		
100	QPSK	270	0	23.12	23.18	23.15	25.0	0.0
100	16QAM	1	1	23.26	23.29	23.22	25.0	0.0
100	64QAM	1	1	21.80	21.87	21.88	23.5	1.5
100	256QAM	1	1	19.92	20.03	19.91	21.5	3.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	23.18	23.28	23.14	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	23.31	23.26	23.13	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	23.20	23.25	23.20	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	23.29	23.19	23.27	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	23.29	23.27	23.26	25.0	0.0
Channel				84768	86000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.12	3840	3945.88		
30	PI2 BPSK	1	1	23.32	23.24	23.21	25.0	0.0
Channel				84733	85000	85000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	23.19	23.25	23.19	25.0	0.0

Par270 n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
				3790	3840	3900		
100	PI2 BPSK	1	1	25.10	25.16	25.07		
100	PI2 BPSK	1	137	25.05	24.97	25.09		
100	PI2 BPSK	1	271	25.04	25.13	25.05		
100	PI2 BPSK	138	0	25.10	25.06	25.14	26.5	0.0
100	PI2 BPSK	138	69	25.09	25.16	25.08	26.5	0.0
100	PI2 BPSK	138	138	24.99	24.92	24.92	26.5	0.0
100	PI2 BPSK	270	0	25.04	25.11	25.04		
100	QPSK	1	1	25.03	25.17	25.07		
100	QPSK	1	137	25.05	25.07	25.14	26.5	0.0
100	QPSK	1	271	25.05	25.05	25.10		
100	QPSK	138	0	25.02	25.05	24.97		
100	QPSK	138	69	24.86	24.89	24.87	26.5	0.0
100	QPSK	138	138	24.85	24.81	24.87		
100	QPSK	270	0	24.90	24.91	24.89	26.5	0.0
100	16QAM	1	1	24.96	24.97	24.97	26.5	0.0
100	64QAM	1	1	23.35	23.37	23.34	25.0	1.5
100	256QAM	1	1	21.33	21.38	21.30	23.0	3.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	24.86	24.90	24.85	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	24.83	24.83	24.86	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	24.75	24.94	24.84	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	24.79	24.89	24.82	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	24.78	24.85	24.89	26.5	0.0
Channel				84768	86000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.12	3840	3945.88		
30	PI2 BPSK	1	1	24.73	24.86	24.90	26.5	0.0
Channel				84733	85000	85000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	24.74	24.79	24.85	26.5	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.30	23.30	23.30	25.0	0.0
100	PI2 BPSK	1	137	23.32	23.32	23.32	25.0	0.0
100	PI2 BPSK	1	271	23.36	23.36	23.36	25.0	0.0
100	PI2 BPSK	135	0	23.33	23.33	23.33	25.0	0.0
100	PI2 BPSK	135	86	23.39	23.39	23.39	25.0	0.0
100	PI2 BPSK	135	138	23.22	23.22	23.22	25.0	0.0
100	PI2 BPSK	270	0	23.25	23.25	23.25	25.0	0.0
100	QPSK	1	1	23.39	23.39	23.39	25.0	0.0
100	QPSK	1	137	23.27	23.27	23.27	25.0	0.0
100	QPSK	1	271	23.31	23.31	23.31	25.0	0.0
100	QPSK	135	0	23.23	23.23	23.23	25.0	0.0
100	QPSK	135	86	23.28	23.28	23.28	25.0	0.0
100	QPSK	135	138	23.15	23.15	23.15	25.0	0.0
100	QPSK	270	0	23.20	23.20	23.20	25.0	0.0
100	64QAM	1	1	23.19	23.19	23.19	23.5	1.5
100	64QAM	1	1	21.79	19.96	21.5	23.5	3.5
100	256QAM	1	1	63300	63332	63366	Turn-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.07	23.18	23.02	25.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.16	23.14	23.11	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.12	23.21	23.13	25.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.14	23.25	23.13	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.09	23.25	23.14	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.16	23.25	23.02	25.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.17	23.25	23.07	25.0	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.10	25.10	25.10	26.5	0.0
100	PI2 BPSK	1	137	25.10	25.10	25.10	26.5	0.0
100	PI2 BPSK	1	271	25.10	25.10	25.10	26.5	0.0
100	PI2 BPSK	135	0	25.00	25.00	25.00	26.5	0.0
100	PI2 BPSK	135	86	25.08	25.08	25.08	26.5	0.0
100	PI2 BPSK	135	138	24.96	24.96	24.96	26.5	0.0
100	PI2 BPSK	270	0	25.06	25.06	25.06	26.5	0.0
100	QPSK	1	1	25.12	25.12	25.12	26.5	0.0
100	QPSK	1	137	25.00	25.00	25.00	26.5	0.0
100	QPSK	1	271	24.97	24.97	24.97	26.5	0.0
100	QPSK	135	0	25.03	25.03	25.03	26.5	0.0
100	QPSK	135	86	24.95	24.95	24.95	26.5	0.0
100	QPSK	135	138	24.82	24.82	24.82	26.5	0.0
100	QPSK	270	0	24.84	24.84	24.84	26.5	0.0
100	64QAM	1	1	24.91	24.91	24.91	26.5	0.0
100	64QAM	1	1	23.32	21.27	23.0	26.5	1.5
100	256QAM	1	1	63300	63332	63366	Turn-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.74	24.72	24.74	26.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.74	24.80	24.82	26.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.75	24.75	24.82	26.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.78	24.69	24.83	26.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.83	24.74	24.74	26.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.80	24.68	24.85	26.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.76	24.82	24.77	26.5	0.0



State 9 Power

n2_Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1860	1860	1860			
20	PI2 BPSK	1	1	23.92	23.97	23.84			
20	PI2 BPSK	1	53	23.91	23.95	23.88	25.0	0.0	
20	PI2 BPSK	1	104	23.92	23.92	23.86			
20	PI2 BPSK	50	0	23.89	23.90	23.83	25.0	0.0	
20	PI2 BPSK	50	28	23.94	23.88	23.91	25.0	0.0	
20	PI2 BPSK	50	56	23.90	23.89	23.83			
20	PI2 BPSK	100	0	23.85	23.85	23.85	25.0	0.0	
20	QPSK	1	1	23.85	23.99	23.91			
20	QPSK	1	53	23.91	23.88	23.85	25.0	0.0	
20	QPSK	1	104	23.97	23.97	23.92			
20	QPSK	50	0	23.96	23.97	23.94	25.0	0.0	
20	QPSK	50	28	23.95	23.97	23.90	25.0	0.0	
20	QPSK	50	56	23.95	23.88	23.84	25.0	0.0	
20	QPSK	100	0	23.85	23.99	23.91			
20	16QAM	1	1	23.82	23.87	23.89	25.0	0.0	
20	16QAM	1	1	22.34	22.37	22.35	23.5	1.5	
20	256QAM	1	1	20.29	20.32	20.22	21.5	3.5	
Channel Frequency (MHz)				372000	376000	380000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1860	1860	1860			
15	PI2 BPSK	1	1	23.86	23.94	23.90	25.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1865	1860	1900			
10	PI2 BPSK	1	1	23.86	23.98	23.93	25.0	0.0	
Channel Frequency (MHz)				370000	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1862.5	1860	1907.5			
5	PI2 BPSK	1	1	23.84	23.97	23.93	25.0	0.0	

n2_Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1860	1860	1860			
20	PI2 BPSK	1	1	24.94	24.95	24.92			
20	PI2 BPSK	1	53	24.82	24.92	24.79	26.0	0.0	
20	PI2 BPSK	1	104	24.81	24.82	24.74			
20	PI2 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	PI2 BPSK	50	28	24.72	24.84	24.79	26.0	0.0	
20	PI2 BPSK	50	56	24.22	24.34	24.33			
20	PI2 BPSK	100	0	24.27	24.30	24.20	25.5	0.5	
20	QPSK	1	1	24.95	25.01	24.92			
20	QPSK	1	53	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.90	24.91			
20	QPSK	50	0	23.78	23.79	23.76	26.0	0.0	
20	QPSK	50	28	24.80	24.86	24.78	26.0	0.0	
20	QPSK	50	56	23.70	23.81	23.69	26.0	0.0	
20	QPSK	100	0	23.72	23.84	23.79			
20	16QAM	1	1	22.37	22.40	22.34	23.0	1.0	
20	16QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5	
Channel Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1867.5	1860	1902.5			
15	PI2 BPSK	1	1	24.83	24.91	24.88	26.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1865	1860	1900			
10	PI2 BPSK	1	1	24.84	24.94	24.89	26.0	0.0	
Channel Frequency (MHz)				370500	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1862.5	1860	1907.5			
5	PI2 BPSK	1	1	24.91	24.87	24.86	26.0	0.0	



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)		
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq				
Channel				372000	376000	380000	1900	MRR (dB)		
Frequency (MHz)				1860	1880	1900				
20	PI2 BPSK	1	1	22.61	22.62	22.52	23.5	0.0		
20	PI2 BPSK	1	53	22.56	22.63	22.53				
20	PI2 BPSK	1	104	22.54	22.62	22.52				
20	PI2 BPSK	50	0	22.05	22.18	22.13	23.0	0.5		
20	PI2 BPSK	50	28	22.65	22.66	22.54				
20	PI2 BPSK	50	56	22.05	22.19	22.13				
20	PI2 BPSK	100	0	22.16	22.17	22.10	23.0	0.5		
20	QPSK	1	1	22.73	22.76	22.75				
20	QPSK	1	53	22.59	22.70	22.58				
20	QPSK	1	104	22.59	22.65	22.55	23.5	0.0		
20	QPSK	50	0	21.58	21.69	21.56				
20	QPSK	50	28	22.80	22.64	22.63				
20	QPSK	50	56	21.59	21.62	21.61	23.5	0.0		
20	QPSK	100	0	21.56	21.63	21.62				
20	16QAM	1	1	21.09	21.78	21.64				
20	64QAM	1	1	20.29	20.34	20.32	21.0	2.5		
20	256QAM	1	1	17.95	18.05	18.04				
Channel				371000	376000	380000			1900	MRR (dB)
Frequency (MHz)				1855	1880	1902.5				
15	PI2 BPSK	1	1	22.56	22.64	22.54	23.5	0.0		
Channel				371000	376000	381000			1900	MRR (dB)
Frequency (MHz)				1855	1880	1902.5				
10	PI2 BPSK	1	1	22.57	22.64	22.58	23.5	0.0		
Channel				370000	376000	381000			1900	MRR (dB)
Frequency (MHz)				1842.5	1880	1907.5				
5	PI2 BPSK	1	1	22.54	22.62	22.58	23.5	0.0		

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)		
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq				
Channel				160000	167000	167000	894.5	893		
Frequency (MHz)				800	835.5	833				
20	PI2 BPSK	1	1	24.49	24.51	24.43	26.0	0.0		
20	PI2 BPSK	1	53	24.32	24.45	24.32				
20	PI2 BPSK	1	104	24.40	24.45	24.40				
20	PI2 BPSK	50	0	23.99	24.02	24.00	26.5	0.5		
20	PI2 BPSK	50	28	24.46	24.43	24.41				
20	PI2 BPSK	50	56	23.94	23.99	23.92				
20	PI2 BPSK	100	0	23.91	23.95	23.88	26.5	0.5		
20	QPSK	1	1	24.63	24.71	24.60				
20	QPSK	1	53	24.56	24.66	24.57				
20	QPSK	1	104	24.60	24.68	24.58	26.0	0.0		
20	QPSK	50	0	23.51	23.54	23.42				
20	QPSK	50	28	24.43	24.52	24.41				
20	QPSK	50	56	23.34	23.43	23.34	26.0	1.0		
20	QPSK	100	0	23.39	23.46	23.33				
20	16QAM	1	1	23.56	23.58	23.48				
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5		
20	256QAM	1	1	19.80	20.03	20.02				
Channel				160000	167000	168000			1900	MRR (dB)
Frequency (MHz)				800	835.5	841.5				
15	PI2 BPSK	1	1	24.56	24.64	24.60	26.0	0.0		
Channel				160000	167000	168000			1900	MRR (dB)
Frequency (MHz)				800	835.5	844				
10	PI2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0		
Channel				160000	167000	169000			1900	MRR (dB)
Frequency (MHz)				800	835.5	846.5				
5	PI2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0		



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			168300	167300	167900		
				831.5	838.5	833		
20	PI2 BPSK	1	1	24.49	24.51	24.43		0.0
20	PI2 BPSK	1	53	24.32	24.45	24.32	26.0	
20	PI2 BPSK	1	104	24.40	24.45	24.40		
20	PI2 BPSK	50	0	23.99	24.02	24.00	26.5	0.5
20	PI2 BPSK	50	26	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92	26.5	0.5
20	PI2 BPSK	100	0	23.91	23.95	23.85		
20	QPSK	1	1	24.63	24.71	24.60		0.0
20	QPSK	1	53	24.56	24.66	24.57	26.0	
20	QPSK	1	104	24.60	24.65	24.55		
20	QPSK	50	0	23.51	23.54	23.42	26.0	1.0
20	QPSK	50	26	24.43	24.52	24.44	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	26.0	1.0
20	QPSK	100	0	23.39	23.46	23.33		
20	16QAM	1	1	23.56	23.58	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
	Channel Frequency (MHz)			168300	167300	168300	Tune-up limit (dBm)	MRR (dB)
				831.5	838.5	841.5		
15	PI2 BPSK	1	1	24.56	24.64	24.60	26.0	0.0
	Channel Frequency (MHz)			168300	167300	168300	Tune-up limit (dBm)	MRR (dB)
				831.5	838.5	844		
10	PI2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0
	Channel Frequency (MHz)			168300	167300	169300	Tune-up limit (dBm)	MRR (dB)
				831.5	838.5	846.5		
5	PI2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			505000	507000	512000		
				2910	2935	2950		
20	PI2 BPSK	1	1	21.77	21.75	21.69		
20	PI2 BPSK	1	53	21.82	21.84	21.83	22.5	0.0
20	PI2 BPSK	1	104	21.76	21.81	21.71		
20	PI2 BPSK	50	0	21.78	21.73	21.72	22.5	0.0
20	PI2 BPSK	50	26	21.76	21.71	21.77	22.5	0.0
20	PI2 BPSK	50	56	21.73	21.70	21.74	22.5	0.0
20	PI2 BPSK	100	0	21.67	21.72	21.70		
20	QPSK	1	1	21.80	21.88	21.79		
20	QPSK	1	53	21.82	21.82	21.72	22.5	0.0
20	QPSK	1	104	21.74	21.80	21.75		
20	QPSK	50	0	21.71	21.67	21.74	22.5	0.0
20	QPSK	50	26	21.83	21.69	21.54	22.5	0.0
20	QPSK	50	56	21.67	21.65	21.59	22.5	0.0
20	QPSK	100	0	21.64	21.70	21.58		
20	16QAM	1	1	21.76	21.81	21.68	22.5	0.0
20	64QAM	1	1	21.44	21.47	21.51	22.5	0.0
20	256QAM	1	1	20.63	20.69	20.70	21.5	1.0
	Channel Frequency (MHz)			505000	507000	512000	Tune-up limit (dBm)	MRR (dB)
				2910	2935	2950		
15	PI2 BPSK	1	1	21.76	21.71	21.67	22.5	0.0
	Channel Frequency (MHz)			505000	507000	513000	Tune-up limit (dBm)	MRR (dB)
				2910	2935	2950		
10	PI2 BPSK	1	1	21.68	21.68	21.77	22.5	0.0
	Channel Frequency (MHz)			505000	507000	513000	Tune-up limit (dBm)	MRR (dB)
				2910	2935	2975		
5	PI2 BPSK	1	1	21.74	21.74	21.68	22.5	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid-High Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				507000	507000	512000		
20	PI2 BPSK	1	1	24.86	24.95	24.94		0.0
20	PI2 BPSK	1	53	24.81	24.91	24.86	26.0	
20	PI2 BPSK	1	104	24.84	24.93	24.87		
20	PI2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	PI2 BPSK	50	28	24.32	24.39	24.33	26.0	0.0
20	PI2 BPSK	50	56	24.36	24.45	24.38		
20	PI2 BPSK	100	0	24.30	24.43	24.34	25.5	0.5
20	QPSK	1	1	24.96	24.97	24.91		
20	QPSK	1	53	24.82	24.91	24.85	26.0	0.0
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	26.0	0.0
20	QPSK	50	28	24.86	24.91	24.86	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	26.0	0.0
20	QPSK	100	0	23.88	23.95	23.83	26.0	0.0
20	16QAM	1	1	23.80	23.92	23.91	26.0	1.0
20	16QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel Frequency (MHz)				507000	507000	512000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2507.5	2507.5	2507.5		
15	PI2 BPSK	1	1	24.81	24.90	24.87	26.0	0.0
Channel Frequency (MHz)				507000	507000	513000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2505	2505	2505		
10	PI2 BPSK	1	1	24.74	24.86	24.87	26.0	0.0
Channel Frequency (MHz)				500000	507000	513000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2502.5	2505	2507.5		
5	PI2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid-High Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				141300	141600	141700		
Channel Frequency (MHz)				701.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30		
15	PI2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.60	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.46	24.38		
15	QPSK	1	40	24.30	24.38	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	25.0	1.0
15	QPSK	36	22	24.16	24.28	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	25.0	1.0
15	QPSK	75	0	23.21	23.26	23.23	26.0	0.0
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	16QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel Frequency (MHz)				140000	141600	142200	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				704	707.5	711		
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel Frequency (MHz)				140000	141600	142700	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				701.5	707.5	713.5		
5	PI2 BPSK	1	1	24.27	24.36	24.26	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel				141300	141500	141700	26.0	0.0
Frequency (MHz)				707.5	707.5	707.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30	26.0	0.0
15	PI2 BPSK	1	40	24.25	24.32	24.22		
15	PI2 BPSK	1	77	24.33	24.37	24.33	26.5	0.5
15	PI2 BPSK	36	0	23.71	23.82	23.81		
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.66	23.78	23.75		
15	PI2 BPSK	75	0	23.62	23.75	23.74	26.5	0.5
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.30	24.38	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	26.0	1.0
15	QPSK	36	22	24.16	24.28	24.23		
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.25	23.23		
15	16QAM	1	1	23.06	23.18	23.07	26.0	1.0
15	16QAM	1	1	21.55	21.59	21.61		
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.8
Channel				141500	141500	142200		
Frequency (MHz)				704	707.5	711	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.27	24.35	24.26	26.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel				372000	376000	381000	26.0	0.0
Frequency (MHz)				1860	1882.5	1925		
20	PI2 BPSK	1	1	23.97	23.89	23.99	25.0	0.0
20	PI2 BPSK	1	53	24.06	24.13	24.02		
20	PI2 BPSK	1	104	24.00	24.04	23.96	26.0	0.0
20	PI2 BPSK	50	0	24.11	24.13	24.10		
20	PI2 BPSK	50	26	24.07	24.11	24.08	26.0	0.0
20	PI2 BPSK	50	56	23.96	23.95	24.01		
20	PI2 BPSK	100	0	23.79	23.54	23.85	26.0	0.0
20	QPSK	1	1	23.99	24.24	24.04		
20	QPSK	1	53	23.97	23.84	23.95	26.0	0.0
20	QPSK	1	104	23.98	23.54	23.95		
20	QPSK	50	0	23.97	24.09	23.88	26.0	0.0
20	QPSK	50	26	23.83	24.13	23.92		
20	QPSK	50	56	23.87	24.05	23.97	26.0	0.0
20	QPSK	100	0	23.85	24.11	23.85		
20	16QAM	1	1	23.85	23.82	23.89	26.0	0.0
20	16QAM	1	1	22.33	22.43	22.35		
20	256QAM	1	1	20.69	20.70	20.75	21.5	3.8
Channel				371500	376000	381000		
Frequency (MHz)				1857.5	1882.5	1907.5	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.00	24.13	24.01	26.0	0.0
Channel				371000	376000	382000		
Frequency (MHz)				1855	1882.5	1910	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	23.94	24.10	24.05	26.0	0.0
Channel				370500	376000	382000		
Frequency (MHz)				1852.5	1882.5	1912.5	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	23.95	24.19	24.06	26.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925			
20	PI2 BPSK	1	1	24.87	24.88	24.85		
20	PI2 BPSK	1	53	24.73	24.79	24.70	26.0	0.0
20	PI2 BPSK	1	104	24.76	24.84	24.74		
20	PI2 BPSK	50	0	24.82	24.85	24.81	26.5	0.5
20	PI2 BPSK	50	26	24.72	24.81	24.79	26.0	0.0
20	PI2 BPSK	50	56	24.16	24.21	24.23	26.5	0.5
20	PI2 BPSK	100	0	24.30	24.33	24.28		
20	QPSK	1	1	24.91	25.06	24.83		
20	QPSK	1	53	24.84	24.86	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.88	26.0	1.0
20	QPSK	50	26	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.98	26.0	1.0
20	QPSK	100	0	24.05	24.11	24.00		
20	16QAM	1	1	23.94	24.05	24.03	26.0	1.0
20	64QAM	1	1	22.30	22.33	22.28	23.5	2.5
20	256QAM	1	1	20.49	20.62	20.59	21.5	4.5
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925	1907.5		
15	PI2 BPSK	1	1	24.79	24.87	24.87	26.0	0.0
Channel Frequency (MHz)				371000	376000	382000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925	1910		
10	PI2 BPSK	1	1	24.83	24.88	24.86	26.0	0.0
Channel Frequency (MHz)				370000	376000	382000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925	1912.5		
5	PI2 BPSK	1	1	24.76	24.86	24.86	26.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925			
20	PI2 BPSK	1	1	22.47	22.51	22.45		
20	PI2 BPSK	1	53	22.44	22.49	22.47	23.5	0.0
20	PI2 BPSK	1	104	22.40	22.52	22.45		
20	PI2 BPSK	50	0	22.00	22.09	21.97	23.0	0.5
20	PI2 BPSK	50	26	22.43	22.56	22.43	23.5	0.0
20	PI2 BPSK	50	56	22.00	22.06	21.93	23.0	0.5
20	PI2 BPSK	100	0	22.11	22.13	22.12		
20	QPSK	1	1	22.52	22.62	22.52		
20	QPSK	1	53	22.42	22.51	22.46	23.5	0.0
20	QPSK	1	104	22.42	22.53	22.43		
20	QPSK	50	0	21.57	21.65	21.57	22.5	1.0
20	QPSK	50	26	22.44	22.56	22.48	23.5	0.0
20	QPSK	50	56	21.47	21.56	21.44	22.5	1.0
20	QPSK	100	0	21.66	21.68	21.59		
20	16QAM	1	1	21.58	21.69	21.54	23.5	1.0
20	64QAM	1	1	20.16	20.24	20.15	21.0	2.5
20	256QAM	1	1	18.03	18.16	18.07	19.0	4.5
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925	1907.5		
15	PI2 BPSK	1	1	22.39	22.48	22.43	23.5	0.0
Channel Frequency (MHz)				371000	376000	382000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925	1910		
10	PI2 BPSK	1	1	22.35	22.50	22.40	23.5	0.0
Channel Frequency (MHz)				370000	376000	382000	Tune-up limit (dBm)	MRR (dB)
1500				1892.5	1925	1912.5		
5	PI2 BPSK	1	1	22.36	22.44	22.44	23.5	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				16300	16300	16300		
20	PI2 BPSK	1	1	24.46	24.53	24.50		0.0
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	
20	PI2 BPSK	1	104	24.42	24.45	24.41		0.0
20	PI2 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	PI2 BPSK	50	26	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.96	23.97	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67	25.5	0.5
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	26	24.26	24.32	24.23	25.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24	25.0	1.0
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				16150	16150	16150	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				810	810	810	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				810.5	810.5	810.5	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				16300	16300	16300		
20	PI2 BPSK	1	1	24.46	24.53	24.50		0.0
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		0.0
20	PI2 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	PI2 BPSK	50	26	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.96	23.97	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67	25.5	0.5
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	26	24.26	24.32	24.23	25.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24	25.0	1.0
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				16150	16150	16150	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				810	810	810	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				810.5	810.5	810.5	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				492000	2310			
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	26	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31			22.0	0.5
10	PI2 BPSK	25	0	20.07			22.5	0.0
10	PI2 BPSK	25	14	21.27			22.0	0.5
10	PI2 BPSK	25	27	20.78			22.5	0.0
10	PI2 BPSK	50	0	20.50			22.5	0.0
10	QPSK	1	1	21.40			22.5	0.0
10	QPSK	1	26	21.24				
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.38			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	16QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	18.68			18.0	4.5
Channel Frequency (MHz)				491500	492000	492500	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2307.5	2310	2312.5		
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				492000	2310			
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	26	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31			22.0	0.5
10	PI2 BPSK	25	0	20.07			22.5	0.0
10	PI2 BPSK	25	14	21.27			22.0	0.5
10	PI2 BPSK	25	27	20.78			22.5	0.0
10	PI2 BPSK	50	0	20.50			22.5	0.0
10	QPSK	1	1	21.40			22.5	0.0
10	QPSK	1	26	21.24				
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.38			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	16QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	18.68			18.0	4.5
Channel Frequency (MHz)				491500	492000	492500	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2307.5	2310	2312.5		
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel				462000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	21.84				
10	PI2 BPSK	1	26	21.96			23.5	0.0
10	PI2 BPSK	1	50	21.84				
10	PI2 BPSK	25	0	21.36			23.0	0.5
10	PI2 BPSK	25	14	21.84			23.5	0.0
10	PI2 BPSK	25	27	21.30				
10	PI2 BPSK	50	0	21.36			23.0	0.5
10	QPSK	1	1	21.09				
10	QPSK	1	26	21.90			23.5	0.0
10	QPSK	1	50	21.50				
10	QPSK	25	0	20.82			22.5	1.0
10	QPSK	25	14	21.88			23.5	0.0
10	QPSK	25	27	20.84			22.5	1.0
10	QPSK	50	0	20.86				
10	16QAM	1	1	21.07			23.5	1.0
10	16QAM	1	1	19.33			21.0	2.5
10	256QAM	1	1	17.33			19.0	4.5
Channel				481500	462000	462000	Tune-up limit	MRR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	PI2 BPSK	1	1	21.92	21.94	21.91	23.5	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel				345000				
Frequency (MHz)				1725				
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.76	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	160	0	24.09	24.16	24.13	25.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.86	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.64	24.72		
30	QPSK	80	0	23.70	23.79	23.76	25.0	1.0
30	QPSK	80	40	24.73	24.88	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	25.0	1.0
30	QPSK	160	0	23.61	23.69	23.68		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel				345000	345000	345000	Tune-up limit	MRR
Frequency (MHz)				1720	1725	1725	(dBm)	(dB)
20	PI2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel				345000	349000	349000	Tune-up limit	MRR
Frequency (MHz)				1711.5	1725	1722.5	(dBm)	(dB)
15	PI2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel				345000	349000	350000	Tune-up limit	MRR
Frequency (MHz)				1715	1725	1722.5	(dBm)	(dB)
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel				342000	349000	350000	Tune-up limit	MRR
Frequency (MHz)				1712.5	1725	1722.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			345000	349000	353000		
				172.5	172.5	172.5		
30	PI2 BPSK	1	1	24.69	24.81	24.69		0.0
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	
30	PI2 BPSK	1	158	24.76	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	26.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	160	0	24.09	24.16	24.13	26.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.86	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	26.0	1.0
30	QPSK	80	40	24.73	24.88	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	160	0	23.61	23.69	23.68	26.0	1.0
30	16QAM	1	1	23.56	23.70	23.64	26.0	1.0
30	16QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
	Channel Frequency (MHz)			348000	348000	348000	Tune-up limit (dBm)	MPR (dB)
				1790	1725	1770		
20	PI2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
	Channel Frequency (MHz)			345000	349000	349000	Tune-up limit (dBm)	MPR (dB)
				1721.5	1725	1722.5		
15	PI2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
	Channel Frequency (MHz)			343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1715	1725	1725		
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
	Channel Frequency (MHz)			342000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1712.5	1725	1722.5		
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			345000	349000	353000		
				172.5	172.5	172.5		
30	PI2 BPSK	1	1	22.06	22.18	22.11		
30	PI2 BPSK	1	80	22.17	22.26	22.07	23.5	0.0
30	PI2 BPSK	1	158	21.90	22.02	21.96		
30	PI2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	PI2 BPSK	80	40	22.11	22.23	22.18	23.5	0.0
30	PI2 BPSK	80	80	21.68	21.70	21.62		
30	PI2 BPSK	160	0	21.64	21.67	21.64	23.0	0.5
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.08	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.05		
30	QPSK	80	0	21.13	21.25	21.12	22.5	1.0
30	QPSK	80	40	22.16	22.23	22.16	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13	22.5	1.0
30	QPSK	160	0	21.16	21.27	21.18	23.5	1.0
30	16QAM	1	1	21.39	21.46	21.39	23.5	1.0
30	16QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.88	17.81	17.66	19.0	4.5
	Channel Frequency (MHz)			348000	348000	348000	Tune-up limit (dBm)	MPR (dB)
				1790	1725	1770		
20	PI2 BPSK	1	1	22.10	22.13	21.99	23.5	0.0
	Channel Frequency (MHz)			343000	349000	349000	Tune-up limit (dBm)	MPR (dB)
				1721.5	1725	1722.5		
15	PI2 BPSK	1	1	22.02	22.16	22.02	23.5	0.0
	Channel Frequency (MHz)			343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1715	1725	1725		
10	PI2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
	Channel Frequency (MHz)			342000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1712.5	1725	1722.5		
5	PI2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				134600	136100	137600		
20	PI2 BPSK	1	1	24.71	24.74	24.70	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.52	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.50		
20	QPSK	50	0	23.67	23.74	23.61	26.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	26.0	1.0
20	QPSK	100	0	23.52	23.63	23.57		
20	16QAM	1	1	24.10	24.12	24.12	26.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel Frequency (MHz)				138100	139100	140100	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel Frequency (MHz)				138800	139100	138600	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel Frequency (MHz)				133100	136100	139100	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				134600	136100	137600		
20	PI2 BPSK	1	1	24.71	24.74	24.74	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.52	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.50		
20	QPSK	50	0	23.67	23.74	23.61	26.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	26.0	1.0
20	QPSK	100	0	23.52	23.63	23.57		
20	16QAM	1	1	24.10	24.12	24.12	26.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel Frequency (MHz)				138100	139100	140100	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel Frequency (MHz)				138800	139100	138600	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel Frequency (MHz)				133100	136100	139100	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	64QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505200	516596	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2526	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.93		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	64QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505200	516596	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2526	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.93		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	64QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	64QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502000	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836000	841666	845332		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.83		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836000	841666	845332		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3560.01	3624.99	3680		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836000	841666	845332		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.83		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836000	841666	845332		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3560.01	3624.99	3680		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	846668	846732		
Frequency (MHz)				3570	3524.99	3679.98		
40	PI2 BPSK	1	1	16.12	16.14	16.06		
40	PI2 BPSK	1	53	16.11	16.16	16.05	17.5	0.0
40	PI2 BPSK	1	104	16.15	16.16	16.08		
40	PI2 BPSK	50	0	16.13	16.17	16.11	17.5	0.0
40	PI2 BPSK	50	26	16.08	16.22	16.08	17.5	0.0
40	PI2 BPSK	50	56	16.09	16.20	16.07	17.5	0.0
40	PI2 BPSK	100	0	16.10	16.20	16.11		
40	QPSK	1	1	16.24	16.25	16.19		
40	QPSK	1	53	16.16	16.20	16.17	17.5	0.0
40	QPSK	1	104	16.18	16.22	16.15		
40	QPSK	50	0	16.07	16.18	16.12		
40	QPSK	50	26	16.16	16.23	16.13	17.5	0.0
40	QPSK	50	56	16.13	16.15	16.10		
40	QPSK	100	0	16.14	16.19	16.08	17.5	0.0
40	64QAM	1	1	16.08	16.22	16.12	17.5	0.0
40	64QAM	1	1	16.15	16.21	16.05	17.5	0.0
40	256QAM	1	1	16.13	16.20	16.06	17.5	0.0
Channel				8370.28	846600	856160	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	16.15	16.15	16.07	17.5	0.0
Channel				8323.24	846668	856000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	16.11	16.15	16.09	17.5	0.0
Channel				8311.88	846668	842160	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	16.13	16.20	16.12	17.5	0.0
Channel				8310.00	846668	842332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	16.09	16.15	16.10	17.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	846668	846732		
Frequency (MHz)				3570	3524.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	20.18	21.28	21.18	22.0	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.36	18.50	18.55	18.0	4.5
Channel				8370.28	846600	856160	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				8323.24	846668	856000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				8311.88	846668	842160	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				8310.00	846668	842332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	138	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	138	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				3333.2			3499.98	
100	PI2 BPSK	1	1	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45	26.0	0.0
100	PI2 BPSK	138	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	138	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	138	138	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01	25.5	0.5
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32	26.0	0.0
100	QPSK	138	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	138	69	24.59	24.59	24.59	26.0	0.0
100	QPSK	138	138	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel				633000	3333.2	633668	1348	0.0
Frequency (MHz)				3495	3499.98	3504.99	3499.98	3504.99
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel				632668	3333.2	633000	1348	0.0
Frequency (MHz)				3490.02	3499.98	3510	3499.98	3510
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel				632000	3333.2	633668	1348	0.0
Frequency (MHz)				3480	3499.98	3519.99	3499.98	3519.99
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel				631168	3333.2	633000	1348	0.0
Frequency (MHz)				3475.02	3499.98	3524	3475.02	3499.98
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel				630300	3333.2	633332	1348	0.0
Frequency (MHz)				3470.01	3499.98	3529.98	3470.01	3499.98
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel				631000	3333.2	633668	1348	0.0
Frequency (MHz)				3465	3499.98	3534.99	3465	3499.98
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel				630668	3333.2	630000	1348	0.0
Frequency (MHz)				3460.02	3499.98	3540	3460.02	3499.98
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				3333.2			3499.98	
100	PI2 BPSK	1	1	25.99	25.99	25.99	27.5	0.0
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03	27.5	0.0
100	PI2 BPSK	138	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	138	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46	26.5	1.0
100	QPSK	1	1	26.11	26.11	26.11	27.5	0.0
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04	27.5	0.0
100	QPSK	138	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	138	69	26.08	26.08	26.08	27.5	0.0
100	QPSK	138	138	25.84	25.84	25.84	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel				633000	3333.2	633668	1348	0.0
Frequency (MHz)				3495	3499.98	3504.99	3499.98	3504.99
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel				632668	3333.2	633000	1348	0.0
Frequency (MHz)				3490.02	3499.98	3510	3499.98	3510
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel				632000	3333.2	633668	1348	0.0
Frequency (MHz)				3480	3499.98	3519.99	3499.98	3519.99
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel				631168	3333.2	633000	1348	0.0
Frequency (MHz)				3475.02	3499.98	3524	3475.02	3499.98
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel				630300	3333.2	633332	1348	0.0
Frequency (MHz)				3470.01	3499.98	3529.98	3470.01	3499.98
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel				631000	3333.2	633668	1348	0.0
Frequency (MHz)				3465	3499.98	3534.99	3465	3499.98
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel				630668	3333.2	630000	1348	0.0
Frequency (MHz)				3460.02	3499.98	3540	3460.02	3499.98
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	138	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	26.0	0.0
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	26.0	0.0
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	26.0	0.0
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	26.0	0.0
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	26.0	0.0
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88	26.0	0.0
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99	26.0	0.0
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	138	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	25.0	4.5
100	16QAM	1	1	24.92	24.99	24.76	25.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	27.5	0.0
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	27.5	0.0
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	27.5	0.0
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	27.5	0.0
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	27.5	0.0
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88	27.5	0.0
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99	27.5	0.0
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42			
100	PI2 BPSK	1	137		24.41		26.0	0.0
100	PI2 BPSK	1	271		24.45			
100	PI2 BPSK	133	0		23.93		25.5	0.5
100	PI2 BPSK	133	69		24.31		26.0	0.0
100	PI2 BPSK	133	133		24.15		25.5	0.5
100	PI2 BPSK	270	0		24.01			
100	QPSK	1	1		24.53			
100	QPSK	1	137		24.28		26.0	0.0
100	QPSK	1	271		24.32			
100	QPSK	133	0		24.14			
100	QPSK	133	69		24.59		26.0	0.0
100	QPSK	133	133		24.26			
100	QPSK	270	0		23.62		25.0	1.0
100	16QAM	1	1		23.66		24.5	1.0
100	64QAM	1	1		21.81		23.5	2.5
100	256QAM	1	1		19.83		21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	333312	633696	1368	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3495	3499.98	3504.99	3610	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	633000	333312	633696	1368	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631168	333312	633000	1368	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631334	333312	633392	1368	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3470.01	3499.98	3529.98	3540	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42			
100	PI2 BPSK	1	137		24.41		27.5	0.0
100	PI2 BPSK	1	271		24.45			
100	PI2 BPSK	133	0		23.93		27.0	0.5
100	PI2 BPSK	133	69		24.31		27.5	0.0
100	PI2 BPSK	133	133		24.15		27.0	0.5
100	PI2 BPSK	270	0		24.01			
100	QPSK	1	1		24.53			
100	QPSK	1	137		24.28		27.5	0.0
100	QPSK	1	271		24.32			
100	QPSK	133	0		24.14			
100	QPSK	133	69		24.59		27.5	0.0
100	QPSK	133	133		24.26			
100	QPSK	270	0		24.91		26.5	1.0
100	16QAM	1	1		23.66		26.5	1.0
100	64QAM	1	1		21.81		25.0	2.5
100	256QAM	1	1		19.83		23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	333312	633696	1368	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3495	3499.98	3504.99	3610	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	633000	333312	633696	1368	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631168	333312	633000	1368	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631334	333312	633392	1368	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3470.01	3499.98	3529.98	3540	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	16.27	16.40	16.24	18.0	0.0
100	PI2 BPSK	1	137	16.27	16.40	16.24	18.0	0.0
100	PI2 BPSK	1	271	16.31	16.32	16.31	18.0	0.0
100	PI2 BPSK	133	0	16.33	16.32	16.27	18.0	0.0
100	PI2 BPSK	133	69	16.34	16.36	16.26	18.0	0.0
100	PI2 BPSK	133	133	16.33	16.40	16.26	18.0	0.0
100	PI2 BPSK	270	0	16.33	16.38	16.24	18.0	0.0
100	QPSK	1	1	16.43	16.48	16.40	18.0	0.0
100	QPSK	1	137	16.35	16.45	16.38	18.0	0.0
100	QPSK	1	271	16.42	16.44	16.33	18.0	0.0
100	QPSK	133	0	16.28	16.36	16.24	18.0	0.0
100	QPSK	133	69	16.36	16.41	16.32	18.0	0.0
100	QPSK	133	133	16.31	16.32	16.26	18.0	0.0
100	QPSK	270	0	16.31	16.37	16.26	18.0	0.0
100	16QAM	1	1	16.26	16.28	16.27	18.0	0.0
100	16QAM	1	1	16.33	16.40	16.28	18.0	0.0
100	256QAM	1	1	16.35	16.32	16.27	18.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	18.0	0.0
90	PI2 BPSK	1	1	16.35	16.38	16.30	18.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	18.0	0.0
80	PI2 BPSK	1	1	16.32	16.39	16.24	18.0	0.0
Channel				84868	85000	84832	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	18.0	0.0
60	PI2 BPSK	1	1	16.33	16.38	16.31	18.0	0.0
Channel				84534	85000	84500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	18.0	0.0
50	PI2 BPSK	1	1	16.34	16.36	16.29	18.0	0.0
Channel				84200	85000	84200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	18.0	0.0
40	PI2 BPSK	1	1	16.29	16.38	16.25	18.0	0.0
Channel				84168	85000	84132	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3854.98	18.0	0.0
30	PI2 BPSK	1	1	16.33	16.37	16.31	18.0	0.0
Channel				84133	85000	84096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99	18.0	0.0
20	PI2 BPSK	1	1	16.33	16.34	16.26	18.0	0.0

Par270 n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	18.02	18.05	17.99	19.5	0.0
100	PI2 BPSK	1	137	18.06	18.13	17.99	19.5	0.0
100	PI2 BPSK	1	271	18.03	18.09	18.04	19.5	0.0
100	PI2 BPSK	133	0	18.02	18.10	18.03	19.5	0.0
100	PI2 BPSK	133	69	18.01	18.08	18.06	19.5	0.0
100	PI2 BPSK	133	133	18.07	18.05	18.01	19.5	0.0
100	PI2 BPSK	270	0	18.01	18.08	18.04	19.5	0.0
100	QPSK	1	1	18.14	18.19	18.11	19.5	0.0
100	QPSK	1	137	18.11	18.10	18.03	19.5	0.0
100	QPSK	1	271	18.10	18.15	18.03	19.5	0.0
100	QPSK	133	0	18.07	18.13	18.04	19.5	0.0
100	QPSK	133	69	18.08	18.14	18.07	19.5	0.0
100	QPSK	133	133	18.03	18.09	17.99	19.5	0.0
100	QPSK	270	0	18.02	18.09	18.05	19.5	0.0
100	16QAM	1	1	18.00	18.11	18.04	19.5	0.0
100	16QAM	1	1	17.99	18.11	18.05	19.5	0.0
100	256QAM	1	1	18.03	18.09	18.05	19.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	18.0	0.0
90	PI2 BPSK	1	1	17.99	18.05	18.06	19.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	18.0	0.0
80	PI2 BPSK	1	1	18.00	18.10	18.00	19.5	0.0
Channel				84868	85000	84832	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	18.0	0.0
60	PI2 BPSK	1	1	18.06	18.13	18.00	19.5	0.0
Channel				84534	85000	84500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	18.0	0.0
50	PI2 BPSK	1	1	18.05	18.08	18.00	19.5	0.0
Channel				84200	85000	84200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	18.0	0.0
40	PI2 BPSK	1	1	18.04	18.08	18.02	19.5	0.0
Channel				84168	85000	84132	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3854.98	18.0	0.0
30	PI2 BPSK	1	1	18.03	18.06	18.04	19.5	0.0
Channel				84133	85000	84096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99	18.0	0.0
20	PI2 BPSK	1	1	18.05	18.09	18.01	19.5	0.0



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				33332			3499.98	
100	PI2 BPSK	1	1	16.57	16.57	16.57	18.0	0.0
100	PI2 BPSK	1	137	16.54	16.54	16.54	18.0	0.0
100	PI2 BPSK	1	271	16.59	16.59	16.59	18.0	0.0
100	PI2 BPSK	133	0	16.55	16.55	16.55	18.0	0.0
100	PI2 BPSK	133	69	16.57	16.57	16.57	18.0	0.0
100	PI2 BPSK	133	133	16.59	16.59	16.59	18.0	0.0
100	PI2 BPSK	270	0	16.55	16.55	16.55	18.0	0.0
100	QPSK	1	1	16.62	16.62	16.62	18.0	0.0
100	QPSK	1	137	16.53	16.53	16.53	18.0	0.0
100	QPSK	1	271	16.60	16.60	16.60	18.0	0.0
100	QPSK	133	0	16.55	16.55	16.55	18.0	0.0
100	QPSK	133	69	16.59	16.59	16.59	18.0	0.0
100	QPSK	133	133	16.56	16.56	16.56	18.0	0.0
100	QPSK	270	0	16.57	16.57	16.57	18.0	0.0
100	16QAM	1	1	16.53	16.53	16.53	18.0	0.0
100	64QAM	1	1	16.56	16.56	16.56	18.0	0.0
100	256QAM	1	1	16.59	16.59	16.59	18.0	0.0
Channel				63300			63368	
Frequency (MHz)				3495			3504.99	
90	PI2 BPSK	1	1	16.50	16.52	16.45	18.0	0.0
Channel				63368			63400	
Frequency (MHz)				3490.02			3499.98	
80	PI2 BPSK	1	1	16.54	16.56	16.46	18.0	0.0
Channel				63500			63532	
Frequency (MHz)				3480			3499.98	
60	PI2 BPSK	1	1	16.56	16.53	16.42	18.0	0.0
Channel				63532			63566	
Frequency (MHz)				3475.02			3499.98	
50	PI2 BPSK	1	1	16.48	16.53	16.42	18.0	0.0
Channel				63666			63700	
Frequency (MHz)				3470.01			3499.98	
40	PI2 BPSK	1	1	16.49	16.55	16.46	18.0	0.0
Channel				63700			63734	
Frequency (MHz)				3465			3499.98	
30	PI2 BPSK	1	1	16.53	16.51	16.48	18.0	0.0
Channel				63800			63834	
Frequency (MHz)				3460.02			3499.98	
20	PI2 BPSK	1	1	16.50	16.58	16.48	18.0	0.0

Par27Q n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				33332			3499.98	
100	PI2 BPSK	1	1	18.10	18.10	18.10	19.5	0.0
100	PI2 BPSK	1	137	18.11	18.11	18.11	19.5	0.0
100	PI2 BPSK	1	271	18.06	18.06	18.06	19.5	0.0
100	PI2 BPSK	133	0	18.04	18.04	18.04	19.5	0.0
100	PI2 BPSK	133	69	18.10	18.10	18.10	19.5	0.0
100	PI2 BPSK	133	133	18.10	18.10	18.10	19.5	0.0
100	PI2 BPSK	270	0	18.10	18.10	18.10	19.5	0.0
100	QPSK	1	1	18.18	18.18	18.18	19.5	0.0
100	QPSK	1	137	18.17	18.17	18.17	19.5	0.0
100	QPSK	1	271	18.15	18.15	18.15	19.5	0.0
100	QPSK	133	0	18.10	18.10	18.10	19.5	0.0
100	QPSK	133	69	18.13	18.13	18.13	19.5	0.0
100	QPSK	133	133	18.12	18.12	18.12	19.5	0.0
100	QPSK	270	0	18.07	18.07	18.07	19.5	0.0
100	16QAM	1	1	18.06	18.06	18.06	19.5	0.0
100	64QAM	1	1	18.09	18.09	18.09	19.5	0.0
100	256QAM	1	1	18.08	18.08	18.08	19.5	0.0
Channel				63300			63368	
Frequency (MHz)				3495			3504.99	
90	PI2 BPSK	1	1	18.07	18.06	18.02	19.5	0.0
Channel				63368			63400	
Frequency (MHz)				3490.02			3499.98	
80	PI2 BPSK	1	1	18.05	18.10	18.09	19.5	0.0
Channel				63500			63532	
Frequency (MHz)				3480			3499.98	
60	PI2 BPSK	1	1	18.09	18.03	18.00	19.5	0.0
Channel				63532			63566	
Frequency (MHz)				3475.02			3499.98	
50	PI2 BPSK	1	1	18.08	18.10	18.08	19.5	0.0
Channel				63666			63700	
Frequency (MHz)				3470.01			3499.98	
40	PI2 BPSK	1	1	18.12	18.07	18.10	19.5	0.0
Channel				63700			63734	
Frequency (MHz)				3465			3499.98	
30	PI2 BPSK	1	1	18.08	18.11	18.00	19.5	0.0
Channel				63800			63834	
Frequency (MHz)				3460.02			3499.98	
20	PI2 BPSK	1	1	18.07	18.09	18.06	19.5	0.0



Par270 n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	3790	3840	3900		
100	PI2 BPSK	1	1	21.29	21.40	21.34		
100	PI2 BPSK	1	137	21.31	21.43	21.28	23.0	0.0
100	PI2 BPSK	1	271	21.31	21.37	21.31		
100	PI2 BPSK	138	0	21.33	21.36	21.30	23.0	0.0
100	PI2 BPSK	138	69	21.25	21.35	21.34	23.0	0.0
100	PI2 BPSK	138	138	21.30	21.41	21.32	23.0	0.0
100	PI2 BPSK	270	0	21.31	21.35	21.30		
100	QPSK	1	1	21.43	21.45	21.40		
100	QPSK	1	137	21.37	21.41	21.38	23.0	0.0
100	QPSK	1	271	21.38	21.44	21.37		
100	QPSK	138	0	21.27	21.35	21.34		
100	QPSK	138	69	21.34	21.44	21.37	23.0	0.0
100	QPSK	138	138	21.30	21.39	21.29		
100	QPSK	270	0	21.32	21.43	21.28	23.0	0.0
100	16QAM	1	1	21.26	21.43	21.29	23.0	0.0
100	64QAM	1	1	21.33	21.35	21.29	23.0	0.0
100	256QAM	1	1	19.75	19.86	19.86	21.5	1.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	21.29	21.41	21.32	23.0	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	21.33	21.35	21.34	23.0	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	21.32	21.35	21.30	23.0	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	21.32	21.43	21.35	23.0	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	21.27	21.37	21.30	23.0	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3854.98		
30	PI2 BPSK	1	1	21.31	21.40	21.32	23.0	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	21.32	21.37	21.30	23.0	0.0

Par270 n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	22.93	23.07	22.95		
100	PI2 BPSK	1	137	22.99	23.05	22.94	24.5	0.0
100	PI2 BPSK	1	271	23.00	23.05	22.98		
100	PI2 BPSK	138	0	22.93	23.04	22.93	24.5	0.0
100	PI2 BPSK	138	69	22.99	23.02	22.93	24.5	0.0
100	PI2 BPSK	138	138	22.94	23.01	22.94	24.5	0.0
100	PI2 BPSK	270	0	23.00	23.01	22.98		
100	QPSK	1	1	23.04	23.10	23.05		
100	QPSK	1	137	23.01	23.10	23.01	24.5	0.0
100	QPSK	1	271	22.96	23.08	23.01		
100	QPSK	138	0	22.95	23.04	23.01		
100	QPSK	138	69	23.02	23.08	23.02	24.5	0.0
100	QPSK	138	138	22.97	23.08	22.94		
100	QPSK	270	0	23.01	23.08	22.94	24.5	0.0
100	16QAM	1	1	22.96	23.05	22.93	24.5	0.0
100	64QAM	1	1	22.99	23.00	23.00	24.5	0.0
100	256QAM	1	1	21.44	21.43	21.43	23.0	1.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	22.98	23.02	22.94	24.5	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	22.94	23.07	22.88	24.5	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	23.00	23.03	22.97	24.5	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	22.99	23.04	22.95	24.5	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	22.96	23.01	22.94	24.5	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3854.98		
30	PI2 BPSK	1	1	22.96	23.03	22.97	24.5	0.0
Channel				84000	85500	87000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	23.00	23.03	22.93	24.5	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.29	21.29	21.29	23.0	0.0
100	PI2 BPSK	1	137	21.29	21.29	21.29	23.0	0.0
100	PI2 BPSK	1	271	21.28	21.28	21.28	23.0	0.0
100	PI2 BPSK	135	0	21.33	21.33	21.33	23.0	0.0
100	PI2 BPSK	135	86	21.28	21.28	21.28	23.0	0.0
100	PI2 BPSK	135	138	21.31	21.31	21.31	23.0	0.0
100	PI2 BPSK	270	0	21.32	21.32	21.32	23.0	0.0
100	QPSK	1	1	21.41	21.41	21.41	23.0	0.0
100	QPSK	1	137	21.33	21.33	21.33	23.0	0.0
100	QPSK	1	271	21.39	21.39	21.39	23.0	0.0
100	QPSK	135	0	21.31	21.31	21.31	23.0	0.0
100	QPSK	135	86	21.34	21.34	21.34	23.0	0.0
100	QPSK	135	138	21.26	21.26	21.26	23.0	0.0
100	QPSK	270	0	21.31	21.31	21.31	23.0	0.0
100	64QAM	1	1	21.26	21.26	21.26	23.0	0.0
100	64QAM	1	1	21.25	21.25	21.25	23.0	0.0
100	256QAM	1	1	19.80	19.80	19.80	21.5	1.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.20	21.26	21.27	23.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.24	21.33	21.24	23.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.19	21.30	21.29	23.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.21	21.31	21.28	23.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.19	21.31	21.29	23.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.22	21.28	21.26	23.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.23	21.27	21.28	23.0	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.92	22.92	22.92	24.5	0.0
100	PI2 BPSK	1	137	22.93	22.93	22.93	24.5	0.0
100	PI2 BPSK	1	271	22.88	22.88	22.88	24.5	0.0
100	PI2 BPSK	135	0	22.93	22.93	22.93	24.5	0.0
100	PI2 BPSK	135	86	22.89	22.89	22.89	24.5	0.0
100	PI2 BPSK	135	138	22.92	22.92	22.92	24.5	0.0
100	PI2 BPSK	270	0	22.86	22.86	22.86	24.5	0.0
100	QPSK	1	1	23.03	23.03	23.03	24.5	0.0
100	QPSK	1	137	22.97	22.97	22.97	24.5	0.0
100	QPSK	1	271	22.95	22.95	22.95	24.5	0.0
100	QPSK	135	0	22.89	22.89	22.89	24.5	0.0
100	QPSK	135	86	22.95	22.95	22.95	24.5	0.0
100	QPSK	135	138	22.89	22.89	22.89	24.5	0.0
100	QPSK	270	0	22.94	22.94	22.94	24.5	0.0
100	64QAM	1	1	22.92	22.92	22.92	24.5	0.0
100	64QAM	1	1	22.89	22.89	22.89	24.5	0.0
100	256QAM	1	1	21.37	21.37	21.37	23.0	1.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.89	22.83	22.83	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.89	22.84	22.85	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.87	22.88	22.90	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.88	22.83	22.84	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.87	22.87	22.84	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.86	22.86	22.85	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.93	22.91	22.89	24.5	0.0



State 8 Power

n2_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	P12 BPSK	1	1	21.89	21.91	21.83	23.0	0.0
20	P12 BPSK	1	53	21.84	21.89	21.83		
20	P12 BPSK	1	104	21.83	21.86	21.82		
20	P12 BPSK	50	0	21.81	21.88	21.87	23.0	0.0
20	P12 BPSK	50	26	21.84	21.85	21.83	23.0	0.0
20	P12 BPSK	50	56	21.86	21.80	21.85		
20	P12 BPSK	100	0	21.87	21.85	21.79	23.0	0.0
20	QPSK	1	1	21.97	22.02	21.94		
20	QPSK	1	53	21.96	21.99	21.88	23.0	0.0
20	QPSK	1	104	21.94	22.00	21.89		
20	QPSK	50	0	21.88	21.95	21.82	23.0	0.0
20	QPSK	50	26	21.96	21.97	21.95	23.0	0.0
20	QPSK	50	56	21.89	21.92	21.87		
20	QPSK	100	0	21.90	21.92	21.88	23.0	0.0
20	16QAM	1	1	21.88	21.84	21.80	23.0	0.0
20	16QAM	1	1	21.86	21.85	21.82	23.0	0.0
20	256QAM	1	1	20.53	20.30	20.30	21.5	1.5
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1875.0	1880	1902.5		
15	P12 BPSK	1	1	21.88	21.87	21.84	23.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1865	1860	1905		
10	P12 BPSK	1	1	21.82	21.84	21.85	23.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	P12 BPSK	1	1	21.85	21.84	21.81	23.0	0.0

n2_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	P12 BPSK	1	1	22.45	22.40	22.52		
20	P12 BPSK	1	53	22.46	22.57	22.53		
20	P12 BPSK	1	104	22.50	22.54	22.55		
20	P12 BPSK	50	0	22.51	22.58	22.55	24.0	0.0
20	P12 BPSK	50	26	22.50	22.59	22.53	24.0	0.0
20	P12 BPSK	50	56	22.50	22.56	22.52		
20	P12 BPSK	100	0	22.51	22.60	22.48	24.0	0.0
20	QPSK	1	1	22.53	22.61	22.56		
20	QPSK	1	53	22.50	22.59	22.51	24.0	0.0
20	QPSK	1	104	22.46	22.52	22.55		
20	QPSK	50	0	22.44	22.57	22.43	24.0	0.0
20	QPSK	50	26	22.50	22.58	22.48	24.0	0.0
20	QPSK	50	56	22.41	22.49	22.46		
20	QPSK	100	0	22.49	22.58	22.49	24.0	0.0
20	16QAM	1	1	22.42	22.53	22.42	24.0	0.0
20	16QAM	1	1	21.91	22.05	21.91	23.5	0.5
20	256QAM	1	1	19.98	20.05	19.90	21.5	1.5
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1875.0	1880	1902.5		
15	P12 BPSK	1	1	22.44	22.54	22.49	24.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1865	1860	1905		
10	P12 BPSK	1	1	22.51	22.54	22.53	24.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	P12 BPSK	1	1	22.52	22.58	22.49	24.0	0.0



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1890	1890	1900		
20	P12 BPSK	1	1	16.66	16.65	16.58	18.0	0.0
20	P12 BPSK	1	53	16.56	16.65	16.55		
20	P12 BPSK	1	104	16.05	16.61	16.62		
20	P12 BPSK	50	0	16.52	16.67	16.67	18.0	0.5
20	P12 BPSK	50	26	16.56	16.69	16.59	18.0	0.0
20	P12 BPSK	50	56	16.60	16.58	16.47	18.0	0.0
20	P12 BPSK	100	0	16.63	16.69	16.62		
20	QPSK	1	1	16.76	16.78	16.78		
20	QPSK	1	53	16.58	16.66	16.64	18.0	0.0
20	QPSK	1	104	16.66	16.69	16.59		
20	QPSK	50	0	16.69	16.65	16.61	18.0	0.0
20	QPSK	50	26	16.61	16.67	16.64	18.0	0.0
20	QPSK	50	56	16.61	16.59	16.58	18.0	0.0
20	QPSK	100	0	16.64	16.66	16.62		
20	16QAM	1	1	16.56	16.59	16.50	18.0	0.0
20	64QAM	1	1	16.50	16.59	16.51	18.0	0.0
20	256QAM	1	1	16.49	16.52	16.54	18.0	0.0
Channel								
Frequency (MHz)				1897.5	1890	1902.5	Tuning limit (dBm)	MFR (dB)
15	P12 BPSK	1	1	16.65	16.59	16.50	18.0	0.0
Channel								
Frequency (MHz)				1895	1890	1905	Tuning limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	16.56	16.60	16.51	18.0	0.0
Channel								
Frequency (MHz)				1892.5	1890	1907.5	Tuning limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	16.65	16.57	16.52	18.0	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				834	836.5	839		
20	P12 BPSK	1	1	24.49	24.51	24.43		
20	P12 BPSK	1	53	24.32	24.46	24.32	26.0	0.0
20	P12 BPSK	1	104	24.49	24.50	24.46		
20	P12 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	P12 BPSK	50	26	24.46	24.53	24.41	26.0	0.0
20	P12 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	P12 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.63	24.71	24.69		
20	QPSK	1	53	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.91	23.95	23.94	26.0	1.0
20	QPSK	50	26	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.94	23.93	23.94	25.0	1.0
20	QPSK	100	0	23.99	23.96	23.93		
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.61	21.76	23.5	2.6
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel								
Frequency (MHz)				831.5	836.5	841.5	Tuning limit (dBm)	MFR (dB)
15	P12 BPSK	1	1	24.56	24.04	24.60	26.0	0.0
Channel								
Frequency (MHz)				839	836.5	844	Tuning limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	24.56	24.03	24.59	26.0	0.0
Channel								
Frequency (MHz)				826.5	836.5	846.5	Tuning limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	24.56	24.01	24.65	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1660.0	1670.0	1680.0		
20	P12 BPSK	1	1	21.36	21.38	21.40	23.0	0.0
20	P12 BPSK	1	53	21.37	21.41	21.39		
20	P12 BPSK	1	104	21.38	21.40	21.37		
20	P12 BPSK	50	0	21.45	21.40	21.41	23.0	0.0
20	P12 BPSK	50	28	21.38	21.40	21.33	23.0	0.0
20	P12 BPSK	50	56	21.31	21.44	21.35	23.0	0.0
20	P12 BPSK	100	0	21.31	21.42	21.34	23.0	0.0
20	QPSK	1	1	21.50	21.52	21.52		
20	QPSK	1	53	21.52	21.50	21.44	23.0	0.0
20	QPSK	1	104	21.50	21.51	21.47		
20	QPSK	50	0	21.41	21.42	21.38	23.0	0.0
20	QPSK	50	28	21.36	21.44	21.54	23.0	0.0
20	QPSK	50	56	21.30	21.38	21.24	23.0	0.0
20	QPSK	100	0	21.28	21.42	21.40	23.0	0.0
20	16QAM	1	1	21.45	21.56	21.38	23.0	0.0
20	64QAM	1	1	21.40	21.51	21.44	23.0	0.0
20	256QAM	1	1	19.74	19.87	19.80	21.5	1.5
Channel				1660.0	1670.0	1680.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				831.5	830.5	841.5		
15	P12 BPSK	1	1	21.46	21.46	21.33	23.0	0.0
Channel				1660.0	1670.0	1680.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				839	830.5	844		
10	P12 BPSK	1	1	21.37	21.40	21.40	23.0	0.0
Channel				1660.0	1670.0	1680.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				826.5	830.5	840.5		
5	P12 BPSK	1	1	21.36	21.41	21.27	23.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				2410	2535	2560		
20	P12 BPSK	1	1	20.77	20.78	20.89		
20	P12 BPSK	1	53	20.82	20.84	20.83	22.0	0.0
20	P12 BPSK	1	104	20.79	20.81	20.71		
20	P12 BPSK	50	0	20.78	20.73	20.72	22.0	0.0
20	P12 BPSK	50	28	20.76	20.71	20.77	22.0	0.0
20	P12 BPSK	50	56	20.73	20.70	20.74	22.0	0.0
20	P12 BPSK	100	0	20.67	20.72	20.70	22.0	0.0
20	QPSK	1	1	21.08	21.10	20.78		
20	QPSK	1	53	20.82	20.82	20.72	22.0	0.0
20	QPSK	1	104	20.74	20.85	20.78		
20	QPSK	50	0	20.71	20.66	20.74	22.0	0.0
20	QPSK	50	28	20.81	20.86	20.83	22.0	0.0
20	QPSK	50	56	20.67	20.66	20.59	22.0	0.0
20	QPSK	100	0	20.64	20.70	20.68	22.0	0.0
20	16QAM	1	1	20.76	20.81	20.68	22.0	0.0
20	64QAM	1	1	20.62	20.53	20.51	22.0	0.0
20	256QAM	1	1	19.03	19.00	19.70	21.5	1.5
Channel				2410.0	2535.0	2560.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	P12 BPSK	1	1	20.76	20.71	20.67	22.0	0.0
Channel				2410.0	2535.0	2560.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505	2535	2565		
10	P12 BPSK	1	1	20.68	20.68	20.77	22.0	0.0
Channel				2500.0	2535.0	2560.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	P12 BPSK	1	1	20.74	20.74	20.68	22.0	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				2510	2535	2560		
20	P12 BPSK	1	1	16.53	16.61	16.66	17.5	0.0
20	P12 BPSK	1	57	16.51	16.60	16.65		
20	P12 BPSK	1	104	16.60	16.67	16.63		
20	P12 BPSK	50	0	16.55	16.61	16.49	17.5	0.5
20	P12 BPSK	50	28	16.46	16.44	16.47	17.5	0.0
20	P12 BPSK	50	56	16.51	16.55	16.41	17.5	0.0
20	P12 BPSK	100	0	16.35	16.57	16.41		
20	QPSK	1	1	16.54	16.59	16.57		
20	QPSK	1	63	16.52	16.63	16.59	17.5	0.0
20	QPSK	1	104	16.58	16.62	16.59		
20	QPSK	50	0	16.58	16.64	16.54	17.5	0.0
20	QPSK	50	28	16.56	16.57	16.52	17.5	0.0
20	QPSK	50	56	16.57	16.60	16.49	17.5	0.0
20	QPSK	100	0	16.62	16.65	16.60		
20	16QAM	1	1	16.56	16.63	16.65	17.5	0.0
20	64QAM	1	1	16.50	16.57	16.59	17.5	0.0
20	256QAM	1	1	16.59	16.59	16.52	17.5	0.0
Channel								
Frequency (MHz)				2597.5	2535	2562.5	Tune-up limit (dBm)	MFR (dB)
15	P12 BPSK	1	1	16.54	16.65	16.65	17.5	0.0
Channel								
Frequency (MHz)				2605	2535	2565	Tune-up limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	16.55	16.67	16.65	17.5	0.0
Channel								
Frequency (MHz)				2592.5	2535	2567.5	Tune-up limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	16.54	16.65	16.59	17.5	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				14300	14100	14170		
15	P12 BPSK	1	1	24.30	24.39	24.30		
15	P12 BPSK	1	40	24.25	24.22	24.22	26.0	0.0
15	P12 BPSK	1	77	24.33	24.37	24.33		
15	P12 BPSK	36	0	23.71	23.62	23.81	25.5	0.5
15	P12 BPSK	36	22	24.16	24.23	24.24	26.0	0.0
15	P12 BPSK	36	43	23.69	23.78	23.75	25.5	0.5
15	P12 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.35	23.31	26.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	25.0	1.0
15	QPSK	75	0	23.21	23.29	23.23		
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel								
Frequency (MHz)				704	707.5	711	Tune-up limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel								
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	24.27	24.35	24.26	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				144300	144600	144900		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	21.20	21.23	21.19	23.0	0.0
15	PI2 BPSK	1	40	21.25	21.28	21.22		
15	PI2 BPSK	1	77	21.16	21.28	21.18		
15	PI2 BPSK	36	0	21.21	21.25	21.18	23.0	0.0
15	PI2 BPSK	36	22	21.21	21.20	21.17	23.0	0.0
15	PI2 BPSK	36	43	21.15	21.27	21.17		
15	PI2 BPSK	75	0	21.19	21.26	21.23	23.0	0.0
15	QPSK	1	1	21.33	21.38	21.28		
15	QPSK	1	40	21.28	21.30	21.20	23.0	0.0
15	QPSK	1	77	21.24	21.33	21.24		
15	QPSK	36	0	21.21	21.24	21.16	23.0	0.0
15	QPSK	36	22	21.24	21.31	21.24	23.0	0.0
15	QPSK	36	43	21.23	21.23	21.22	23.0	0.0
15	QPSK	75	0	21.17	21.27	21.21		
15	16QAM	1	1	21.16	21.25	21.23	23.0	0.0
15	64QAM	1	1	21.21	21.22	21.22	23.0	0.0
15	256QAM	1	1	19.08	19.30	19.72	21.5	1.5
Channel				145000	144300	144900		
Frequency (MHz)				704	707.5	711		
10	PI2 BPSK	1	1	21.17	21.22	21.18	23.0	0.0
Channel				145700	144300	144900		
Frequency (MHz)				701.5	707.5	713.5		
5	PI2 BPSK	1	1	21.20	21.30	21.22	23.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	21.87	21.97	21.96		
20	PI2 BPSK	1	53	21.86	22.04	21.86	23.0	0.0
20	PI2 BPSK	1	104	21.95	22.01	21.92		
20	PI2 BPSK	50	0	21.90	22.01	21.91	23.0	0.0
20	PI2 BPSK	50	26	21.95	21.89	21.86	23.0	0.0
20	PI2 BPSK	50	56	21.90	21.98	21.92	23.0	0.0
20	PI2 BPSK	100	0	21.93	21.96	21.94		
20	QPSK	1	1	22.00	22.08	22.02		
20	QPSK	1	53	21.92	22.05	21.93	23.0	0.0
20	QPSK	1	104	21.95	22.06	21.95		
20	QPSK	50	0	21.94	21.96	21.89	23.0	0.0
20	QPSK	50	26	21.96	22.05	21.97	23.0	0.0
20	QPSK	50	56	21.88	21.96	21.95	23.0	0.0
20	QPSK	100	0	21.89	22.02	21.96		
20	16QAM	1	1	21.91	22.00	21.93	23.0	0.0
20	64QAM	1	1	21.93	22.02	21.90	23.0	0.0
20	256QAM	1	1	20.37	20.54	20.40	21.5	1.5
Channel				373700	376000	380200		
Frequency (MHz)				1827.5	1882.5	1907.5		
15	PI2 BPSK	1	1	21.90	21.97	21.95	23.0	0.0
Channel				374700	376000	380200		
Frequency (MHz)				1865	1882.5	1910		
10	PI2 BPSK	1	1	21.94	22.01	21.91	23.0	0.0
Channel				375600	376000	380200		
Frequency (MHz)				1892.5	1882.5	1912.5		
5	PI2 BPSK	1	1	21.95	22.01	21.88	23.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	22.89	22.85	22.82	24.0	0.0
20	PI2 BPSK	1	53	22.72	22.78	22.75		
20	PI2 BPSK	1	104	22.79	22.84	22.72		
20	PI2 BPSK	50	0	22.86	22.85	22.85	24.0	0.0
20	PI2 BPSK	50	26	22.72	22.77	22.78	24.0	0.0
20	PI2 BPSK	50	56	22.64	22.52	22.72		
20	PI2 BPSK	100	0	22.81	22.84	22.78	24.0	0.0
20	QPSK	1	1	22.90	22.99	22.95		
20	QPSK	1	53	22.83	22.90	22.78	24.0	0.0
20	QPSK	1	104	22.79	22.86	22.84		
20	QPSK	50	0	22.79	22.86	22.81	24.0	0.0
20	QPSK	50	26	22.85	22.91	22.78	24.0	0.0
20	QPSK	50	56	22.85	22.86	22.76	24.0	0.0
20	QPSK	100	0	22.88	22.89	22.74		
20	16QAM	1	1	22.82	22.88	22.87	24.0	0.0
20	64QAM	1	1	22.25	22.30	22.21	23.5	0.0
20	256QAM	1	1	20.51	20.61	20.55	21.5	2.5
Channel				1875.00	1897.50	1919.00	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1897.5	1882.5	1907.5		
15	PI2 BPSK	1	1	22.85	23.01	22.87	24.0	0.0
Channel				1875.00	1897.50	1919.00	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1895	1882.5	1910		
10	PI2 BPSK	1	1	22.79	23.02	22.87	24.0	0.0
Channel				1875.00	1897.50	1919.00	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1882.5	1882.5	1912.5		
5	PI2 BPSK	1	1	22.79	23.04	22.73	24.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	17.10	17.20	17.09		
20	PI2 BPSK	1	53	16.96	17.14	17.05		
20	PI2 BPSK	1	104	17.06	17.12	16.90		
20	PI2 BPSK	50	0	17.10	17.22	17.07	18.0	0.0
20	PI2 BPSK	50	26	17.12	17.28	17.08	18.0	0.0
20	PI2 BPSK	50	56	17.00	17.24	17.05		
20	PI2 BPSK	100	0	16.98	17.03	17.08	18.0	0.0
20	QPSK	1	1	17.16	17.30	17.19		
20	QPSK	1	53	17.11	17.23	17.17	18.0	0.0
20	QPSK	1	104	17.11	17.19	17.13		
20	QPSK	50	0	17.01	17.22	17.04	18.0	0.0
20	QPSK	50	26	17.06	17.21	17.13	18.0	0.0
20	QPSK	50	56	17.04	17.17	17.10		
20	QPSK	100	0	17.09	17.18	17.02		
20	16QAM	1	1	16.97	17.15	17.13	18.0	0.0
20	64QAM	1	1	16.97	17.03	17.05	18.0	0.0
20	256QAM	1	1	17.13	17.23	17.23	18.0	0.0
Channel				1875.00	1897.50	1919.00	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1897.5	1882.5	1907.5		
15	PI2 BPSK	1	1	17.05	17.28	17.14	18.0	0.0
Channel				1875.00	1897.50	1919.00	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1895	1882.5	1910		
10	PI2 BPSK	1	1	17.08	17.28	17.10	18.0	0.0
Channel				1875.00	1897.50	1919.00	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1882.5	1882.5	1912.5		
5	PI2 BPSK	1	1	17.05	17.23	17.08	18.0	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				16490	16500	16500		
20	P12 BPSK	1	1	24.46	24.53	24.50	26.0	0.0
20	P12 BPSK	1	53	24.30	24.38	24.27		
20	P12 BPSK	1	104	24.42	24.45	24.41		
20	P12 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	P12 BPSK	50	26	24.36	24.30	24.25	25.0	0.0
20	P12 BPSK	50	56	23.96	23.97	23.77	25.5	0.5
20	P12 BPSK	100	0	23.72	23.78	23.67	25.5	0.5
20	QPSK	1	1	24.46	24.37	24.58		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	26	24.25	24.32	24.23	25.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24	25.0	1.0
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				16510	16520	16520		
Frequency (MHz)				821.5	831.5	841.5		
15	P12 BPSK	1	1	24.38	24.43	24.40	25.0	0.0
Channel				16530	16540	16540		
Frequency (MHz)				819	831.5	844		
10	P12 BPSK	1	1	24.43	24.30	24.42	25.0	0.0
Channel				16550	16560	16560		
Frequency (MHz)				816.5	831.5	846.5		
5	P12 BPSK	1	1	24.37	24.42	24.36	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				16490	16500	16500		
20	P12 BPSK	1	1	21.44	21.61	21.45	23.0	0.0
20	P12 BPSK	1	53	21.44	21.58	21.46		
20	P12 BPSK	1	104	21.41	21.59	21.45		
20	P12 BPSK	50	0	21.49	21.62	21.48	23.0	0.0
20	P12 BPSK	50	26	21.45	21.62	21.44	23.0	0.0
20	P12 BPSK	50	56	21.48	21.53	21.50	23.0	0.0
20	P12 BPSK	100	0	21.47	21.64	21.51	23.0	0.0
20	QPSK	1	1	21.58	21.67	21.58		
20	QPSK	1	53	21.56	21.58	21.54	23.0	0.0
20	QPSK	1	104	21.49	21.65	21.51		
20	QPSK	50	0	21.46	21.58	21.47	23.0	0.0
20	QPSK	50	26	21.50	21.65	21.52	23.0	0.0
20	QPSK	50	56	21.43	21.61	21.51	23.0	0.0
20	QPSK	100	0	21.43	21.59	21.43	23.0	0.0
20	16QAM	1	1	21.42	21.61	21.48	23.0	0.0
20	64QAM	1	1	21.41	21.64	21.46	23.0	0.0
20	256QAM	1	1	19.31	20.12	20.01	21.5	1.5
Channel				16510	16520	16520		
Frequency (MHz)				821.5	831.5	841.5		
15	P12 BPSK	1	1	21.49	21.57	21.50	23.0	0.0
Channel				16530	16540	16540		
Frequency (MHz)				819	831.5	844		
10	P12 BPSK	1	1	21.43	21.50	21.47	23.0	0.0
Channel				16550	16560	16560		
Frequency (MHz)				816.5	831.5	846.5		
5	P12 BPSK	1	1	21.41	21.64	21.51	23.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.29	21.29			
10	PI2 BPSK	1	26	21.30	21.30			
10	PI2 BPSK	1	50	21.31	21.31			
10	PI2 BPSK	25	0	20.67	20.67		22.5	0.0
10	PI2 BPSK	25	14	21.27	21.27		22.5	0.0
10	PI2 BPSK	25	27	20.78	20.78		22.0	0.5
10	PI2 BPSK	50	0	20.80	20.80		22.0	0.5
10	QPSK	1	1	21.33	21.33			
10	QPSK	1	25	21.34	21.34		22.5	0.0
10	QPSK	1	50	21.33	21.33			
10	QPSK	25	0	20.22	20.22		21.5	1.0
10	QPSK	25	14	21.38	21.38		22.5	0.0
10	QPSK	25	27	20.24	20.24		21.5	1.0
10	QPSK	50	0	20.21	20.21		21.5	1.0
10	16QAM	1	1	20.23	20.23		21.5	1.0
10	64QAM	1	1	18.67	18.67		20.0	2.5
10	256QAM	1	1	16.08	16.08		18.0	4.5
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.29	21.29			
10	PI2 BPSK	1	26	21.30	21.30			
10	PI2 BPSK	1	50	21.31	21.31			
10	PI2 BPSK	25	0	20.67	20.67		22.0	0.5
10	PI2 BPSK	25	14	21.27	21.27		22.5	0.0
10	PI2 BPSK	25	27	20.78	20.78		22.0	0.5
10	PI2 BPSK	50	0	20.80	20.80		22.0	0.5
10	QPSK	1	1	21.33	21.33			
10	QPSK	1	25	21.34	21.34		22.5	0.0
10	QPSK	1	50	21.33	21.33			
10	QPSK	25	0	20.22	20.22		21.5	1.0
10	QPSK	25	14	21.38	21.38		22.5	0.0
10	QPSK	25	27	20.24	20.24		21.5	1.0
10	QPSK	50	0	20.21	20.21		21.5	1.0
10	16QAM	1	1	20.23	20.23		21.5	1.0
10	64QAM	1	1	18.67	18.67		20.0	2.5
10	256QAM	1	1	16.08	16.08		18.0	4.5
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1		3310			
10	PI2 BPSK	1	26		17.33		19.0	0.0
10	PI2 BPSK	1	50		17.32			
10	PI2 BPSK	1	50		17.35			
10	PI2 BPSK	25	0		17.34		19.0	0.0
10	PI2 BPSK	25	14		17.39		19.0	0.0
10	PI2 BPSK	25	27		17.40		19.0	0.0
10	PI2 BPSK	50	0		17.40		19.0	0.0
10	QPSK	1	1		17.42			
10	QPSK	1	25		17.40		19.0	0.0
10	QPSK	1	50		17.35			
10	QPSK	25	0		17.35		19.0	0.0
10	QPSK	25	14		17.41		19.0	0.0
10	QPSK	25	27		17.38		19.0	0.0
10	QPSK	50	0		17.37		19.0	0.0
10	QPSK	1	1		17.35		19.0	0.0
10	16QAM	1	1		17.34		19.0	0.0
10	256QAM	1	1		17.25		19.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	46100	2310	46200	Tune-up limit (dBm)	MFR (dB)
				2307.5	2312.5	2312.5	19.0	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1		1725	1745	1765	
30	PI2 BPSK	1	80		24.69	24.81	24.89	
30	PI2 BPSK	1	158		24.65	24.75	24.85	
30	PI2 BPSK	1	158		24.75	24.79	24.85	
30	PI2 BPSK	80	0		24.16	24.22	24.13	25.5
30	PI2 BPSK	80	40		24.61	24.74	24.73	25.0
30	PI2 BPSK	80	80		24.05	24.18	24.05	25.5
30	PI2 BPSK	160	0		24.09	24.16	24.13	25.5
30	QPSK	1	1		24.86	24.87	24.83	
30	QPSK	1	80		24.82	24.85	24.75	26.0
30	QPSK	1	158		24.71	24.84	24.72	
30	QPSK	80	0		23.70	23.79	23.76	26.0
30	QPSK	80	40		24.73	24.85	24.77	26.0
30	QPSK	80	80		23.64	23.72	23.61	25.0
30	QPSK	160	0		23.61	23.69	23.68	25.0
30	QPSK	1	1		23.56	23.70	23.64	23.0
30	16QAM	1	1		22.10	22.22	22.22	23.5
30	256QAM	1	1		20.44	20.40	20.30	21.5
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	1720	1745	1770	Tune-up limit (dBm)	MFR (dB)
				1717.5	1745	1772.5	26.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.80	24.82	24.60	Tune-up limit (dBm)	MFR (dB)
				1715	1745	1775	26.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.77	24.84	24.70	Tune-up limit (dBm)	MFR (dB)
				1712.5	1745	1777.5	26.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	24.74	24.80	24.74	Tune-up limit (dBm)	MFR (dB)
				1712.5	1745	1777.5	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1725	1745	1765		
30	P12 BPSK	1	1	23.83	23.93	23.84	25.0	0.0
30	P12 BPSK	1	80	23.87	23.93	23.85		
30	P12 BPSK	1	158	23.85	23.93	23.90		
30	P12 BPSK	80	0	23.88	23.92	23.87	25.0	0.0
30	P12 BPSK	80	40	23.85	23.89	23.90	25.0	0.0
30	P12 BPSK	80	80	23.81	23.95	23.85		
30	P12 BPSK	160	0	23.86	23.95	23.89	25.0	0.0
30	QPSK	1	1	23.98	24.00	23.98		
30	QPSK	1	80	23.90	23.98	23.90	25.0	0.0
30	QPSK	1	158	23.92	23.96	23.93		
30	QPSK	80	0	23.91	23.99	23.94	25.0	0.0
30	QPSK	80	40	23.90	23.98	23.93	25.0	0.0
30	QPSK	80	80	23.85	23.94	23.91	25.0	0.0
30	QPSK	160	0	23.85	23.94	23.87	25.0	0.0
30	16QAM	1	1	23.83	23.90	23.85	25.0	0.0
30	64QAM	1	1	22.37	22.43	22.42	23.5	1.5
30	256QAM	1	1	20.33	20.40	20.38	21.5	3.5
Channel								
Frequency (MHz)				1720	1745	1770		
20	P12 BPSK	1	1	23.83	23.97	23.86	25.0	0.0
Channel				1715.0	1740.0	1765.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	P12 BPSK	1	1	23.86	23.96	23.86	25.0	0.0
Channel				1710.0	1735.0	1760.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
10	P12 BPSK	1	1	23.84	23.91	23.87	25.0	0.0
Channel				1705.0	1730.0	1755.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	P12 BPSK	1	1	23.89	23.91	23.87	25.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1725	1745	1765		
30	P12 BPSK	1	1	19.16	19.16	19.20		
30	P12 BPSK	1	80	19.14	19.22	19.21		
30	P12 BPSK	1	158	19.20	19.20	19.17		
30	P12 BPSK	80	0	19.16	19.17	19.13	20.5	0.0
30	P12 BPSK	80	40	19.16	19.23	19.15	20.5	0.0
30	P12 BPSK	80	80	19.15	19.19	19.13		
30	P12 BPSK	160	0	19.16	19.18	19.16	20.5	0.0
30	QPSK	1	1	19.21	19.25	19.22		
30	QPSK	1	80	19.15	19.22	19.15	20.5	0.0
30	QPSK	1	158	19.19	19.22	19.16		
30	QPSK	80	0	19.12	19.15	19.13	20.5	0.0
30	QPSK	80	40	19.20	19.21	19.18	20.5	0.0
30	QPSK	80	80	19.15	19.16	19.13	20.5	0.0
30	QPSK	160	0	19.11	19.15	19.12	20.5	0.0
30	16QAM	1	1	19.17	19.15	19.11	20.5	0.0
30	64QAM	1	1	19.12	19.13	19.11	20.5	0.0
30	256QAM	1	1	17.03	17.01	17.64	19.0	1.5
Channel								
Frequency (MHz)				1720	1745	1770		
20	P12 BPSK	1	1	19.13	19.17	19.13	20.5	0.0
Channel				1715.0	1740.0	1765.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	P12 BPSK	1	1	19.17	19.19	19.21	20.5	0.0
Channel				1710.0	1735.0	1760.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
10	P12 BPSK	1	1	19.19	19.22	19.13	20.5	0.0
Channel				1705.0	1730.0	1755.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	P12 BPSK	1	1	19.13	19.17	19.14	20.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.71	24.74	24.70	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.65	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	26	24.55	24.55	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	24.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	24.5	0.5
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.53	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.58		
20	QPSK	50	0	23.97	24.74	23.61	25.0	1.0
20	QPSK	50	26	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.92	24.64	23.67	25.0	1.0
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.86	20.99	20.85	21.5	4.5
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.30	21.41	21.27		
20	PI2 BPSK	1	53	21.24	21.42	21.32	23.0	0.0
20	PI2 BPSK	1	104	21.25	21.40	21.27		
20	PI2 BPSK	50	0	21.31	21.41	21.30	23.0	0.0
20	PI2 BPSK	50	26	21.24	21.36	21.28	23.0	0.0
20	PI2 BPSK	50	56	21.30	21.41	21.31	23.0	0.0
20	PI2 BPSK	100	0	21.24	21.42	21.31		
20	QPSK	1	1	21.28	21.45	21.43		
20	QPSK	1	53	21.37	21.36	21.40	23.0	0.0
20	QPSK	1	104	21.38	21.39	21.34		
20	QPSK	50	0	21.24	21.41	21.32	23.0	0.0
20	QPSK	50	26	21.32	21.44	21.34	23.0	0.0
20	QPSK	50	56	21.25	21.41	21.27	23.0	0.0
20	QPSK	100	0	21.30	21.35	21.28	23.0	0.0
20	16QAM	1	1	21.29	21.35	21.28	23.0	0.0
20	64QAM	1	1	21.26	21.42	21.30	23.0	0.0
20	256QAM	1	1	19.79	19.88	19.73	21.5	1.5
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	21.24	21.38	21.25	23.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.26	21.36	21.30	23.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	21.29	21.35	21.28	23.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	14.75	14.70	14.60		
40	PI2 BPSK	1	53	14.50	14.60	14.41		
40	PI2 BPSK	1	104	14.50	14.63	14.52	16.0	
40	PI2 BPSK	50	0	14.62	14.75	14.74	16.0	0.0
40	PI2 BPSK	50	26	14.66	14.60	14.59	16.0	0.0
40	PI2 BPSK	50	56	14.46	14.71	14.68	16.0	0.0
40	PI2 BPSK	100	0	14.60	14.57	14.61		
40	QPSK	1	1	14.75	14.79	14.67		
40	QPSK	1	53	14.68	14.64	14.69	16.0	0.0
40	QPSK	1	104	14.57	14.68	14.61		
40	QPSK	50	0	14.77	14.63	14.70		
40	QPSK	50	26	14.54	14.75	14.64	16.0	0.0
40	QPSK	50	56	14.65	14.63	14.46		
40	QPSK	100	0	14.61	14.69	14.59	16.0	0.0
40	16QAM	1	1	14.34	14.41	14.31	16.0	0.0
40	16QAM	1	1	14.59	14.78	14.83	16.0	0.0
40	256QAM	1	1	14.63	14.77	14.67	16.0	0.0
Channel				535500	535500	539000	16.0	0.0
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	14.70	14.77	14.63	16.0	0.0
Channel				516500	516500	520000	16.0	0.0
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	14.66	14.74	14.59	16.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	0.0
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.60	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.76	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	16QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				535500	535500	539000	16.0	0.0
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				516500	516500	520000	16.0	0.0
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50200	51698	53000		
100	PI2 BPSK	1	1	14.65	14.72	14.65		0.0
100	PI2 BPSK	1	137	14.65	14.73	14.68	16.0	
100	PI2 BPSK	1	271	14.66	14.69	14.67		
100	PI2 BPSK	133	0	14.73	14.70	14.65	16.0	0.0
100	PI2 BPSK	133	69	14.65	14.72	14.64	16.0	0.0
100	PI2 BPSK	133	133	14.73	14.68	14.67		0.0
100	PI2 BPSK	270	0	14.69	14.75	14.66		
100	QPSK	1	1	14.70	14.81	14.77		
100	QPSK	1	137	14.70	14.79	14.75	16.0	0.0
100	QPSK	1	271	14.75	14.80	14.70		
100	QPSK	133	0	14.68	14.70	14.67		
100	QPSK	133	69	14.74	14.76	14.73	16.0	0.0
100	QPSK	133	133	14.70	14.72	14.70		
100	QPSK	270	0	14.67	14.71	14.70	16.0	0.0
100	16QAM	1	1	14.73	14.74	14.70	16.0	0.0
100	16QAM	1	1	14.70	14.75	14.70	16.0	0.0
100	256QAM	1	1	14.72	14.73	14.71	16.0	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	14.66	14.68	14.72	16.0	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	14.72	14.73	14.72	16.0	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2605		
70	PI2 BPSK	1	1	14.72	14.69	14.67	16.0	0.0
Channel				50200	51698	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	14.70	14.70	14.71	16.0	0.0
Channel				50200	51698	2694.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2694.99		
50	PI2 BPSK	1	1	14.71	14.71	14.67	16.0	0.0
Channel				50200	51896	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2570		
40	PI2 BPSK	1	1	14.68	14.72	14.66	16.0	0.0
Channel				50200	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2574.98		
30	PI2 BPSK	1	1	14.70	14.68	14.70	16.0	0.0
Channel				50204	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2592.99	2573.95		
20	PI2 BPSK	1	1	14.66	14.68	14.64	16.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50200	51698	53000		
100	PI2 BPSK	1	1	16.02	16.08	16.05		
100	PI2 BPSK	1	137	16.04	16.10	16.06	17.5	0.0
100	PI2 BPSK	1	271	16.02	16.10	16.01		
100	PI2 BPSK	133	0	16.03	16.12	16.09	17.5	0.0
100	PI2 BPSK	133	69	16.00	16.09	16.04	17.5	0.0
100	PI2 BPSK	133	133	16.02	16.10	16.06		0.0
100	PI2 BPSK	270	0	16.00	16.13	16.01		
100	QPSK	1	1	16.12	16.16	16.14		
100	QPSK	1	137	16.03	16.15	16.09	17.5	0.0
100	QPSK	1	271	16.11	16.11	16.10		
100	QPSK	133	0	16.01	16.09	16.04		
100	QPSK	133	69	16.08	16.14	16.10	17.5	0.0
100	QPSK	133	133	16.05	16.06	16.06		
100	QPSK	270	0	16.05	16.11	16.02	17.5	0.0
100	16QAM	1	1	16.00	16.10	16.06	17.5	0.0
100	16QAM	1	1	16.06	16.10	16.03	17.5	0.0
100	256QAM	1	1	16.00	16.10	16.04	17.5	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	16.04	16.08	16.03	17.5	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	16.04	16.08	16.05	17.5	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2605		
70	PI2 BPSK	1	1	16.03	16.07	16.04	17.5	0.0
Channel				50200	51698	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	16.03	16.10	16.03	17.5	0.0
Channel				50200	51698	2694.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2694.99		
50	PI2 BPSK	1	1	16.01	16.05	16.02	17.5	0.0
Channel				50200	51896	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2570		
40	PI2 BPSK	1	1	16.05	16.12	16.05	17.5	0.0
Channel				50200	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2574.98		
30	PI2 BPSK	1	1	16.01	16.13	16.09	17.5	0.0
Channel				50204	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2592.99	2573.95		
20	PI2 BPSK	1	1	16.02	16.09	16.04	17.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502000	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	841668	845332		
				3570	3524.99	3579.98		
40	PI2 BPSK	1	1	16.12	16.14	16.06		
40	PI2 BPSK	1	53	16.11	16.16	16.05	17.5	0.0
40	PI2 BPSK	1	104	16.15	16.16	16.08		
40	PI2 BPSK	50	0	16.13	16.17	16.11	17.5	0.0
40	PI2 BPSK	50	26	16.08	16.22	16.08	17.5	0.0
40	PI2 BPSK	50	56	16.09	16.20	16.07	17.5	0.0
40	PI2 BPSK	100	0	16.10	16.20	16.11		
40	QPSK	1	1	16.24	16.25	16.19		
40	QPSK	1	53	16.16	16.20	16.17	17.5	0.0
40	QPSK	1	104	16.18	16.22	16.15		
40	QPSK	50	0	16.07	16.18	16.12		
40	QPSK	50	26	16.16	16.23	16.13	17.5	0.0
40	QPSK	50	56	16.13	16.15	16.10		
40	QPSK	100	0	16.14	16.19	16.08	17.5	0.0
40	64QAM	1	1	16.08	16.22	16.12	17.5	0.0
40	64QAM	1	1	16.15	16.21	16.05	17.5	0.0
40	256QAM	1	1	16.13	16.20	16.06	17.5	0.0
Channel				8370.28	841668	845668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3824.99	3884.99		
30	PI2 BPSK	1	1	16.15	16.15	16.07	17.5	0.0
Channel				8383.34	841668	845668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3824.99	3890		
20	PI2 BPSK	1	1	16.11	16.15	16.09	17.5	0.0
Channel				8311.68	841668	842168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3824.99	3892.49		
15	PI2 BPSK	1	1	16.13	16.20	16.12	17.5	0.0
Channel				8310.00	841668	842332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3824.99	3894.98		
10	PI2 BPSK	1	1	16.09	16.15	16.10	17.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	841668	845332		
				3570	3524.99	3579.98		
40	PI2 BPSK	1	1	20.20	20.34	20.24		
40	PI2 BPSK	1	53	20.18	20.13	20.24	21.5	0.0
40	PI2 BPSK	1	104	20.13	20.24	20.19		
40	PI2 BPSK	50	0	20.22	20.32	20.23	21.5	0.0
40	PI2 BPSK	50	26	20.29	20.25	20.19	21.5	0.0
40	PI2 BPSK	50	56	20.24	20.03	20.15	21.5	0.0
40	PI2 BPSK	100	0	20.15	20.15	20.10		
40	QPSK	1	1	20.32	20.35	20.26		
40	QPSK	1	53	20.26	20.15	20.27	21.5	0.0
40	QPSK	1	104	20.25	20.25	20.22		
40	QPSK	50	0	20.27	20.32	20.25		
40	QPSK	50	26	20.19	20.22	20.18	21.5	0.0
40	QPSK	50	56	20.24	20.15	20.11		
40	QPSK	100	0	20.23	20.28	20.22	20.5	0.0
40	64QAM	1	1	20.23	20.31	20.18	20.5	0.0
40	64QAM	1	1	18.58	18.71	18.62	19.0	1.5
40	256QAM	1	1	18.70	18.60	18.51	17.0	3.5
Channel				8370.28	841668	845668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3824.99	3884.99		
30	PI2 BPSK	1	1	20.27	20.27	20.17	21.5	0.0
Channel				8383.34	841668	845668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3824.99	3890		
20	PI2 BPSK	1	1	20.27	20.31	20.18	21.5	0.0
Channel				8311.68	841668	842168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3824.99	3892.49		
15	PI2 BPSK	1	1	20.30	20.28	20.20	21.5	0.0
Channel				8310.00	841668	842332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3824.99	3894.98		
10	PI2 BPSK	1	1	20.20	20.30	20.17	21.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	133	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	133	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	133	133	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	133	0	24.12	24.23	24.22		
100	QPSK	133	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	133	133	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	133	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	133	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	133	0	25.87	25.89	25.77		
100	QPSK	133	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	133	133	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45	26.0	0.0
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	25.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01	25.0	0.0
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32	26.0	0.0
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59	26.0	0.0
100	QPSK	133	133	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.17	24.17	24.17	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.99	25.99	25.99	27.5	0.0
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03	27.5	0.0
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46	26.5	1.0
100	QPSK	1	1	26.11	26.11	26.11	27.5	0.0
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04	27.5	0.0
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08	27.5	0.0
100	QPSK	133	133	25.84	25.84	25.84	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3790	3840	3900		
100	PI2 BPSK	1	1	16.90	17.01	16.93	19.0	0.0
100	PI2 BPSK	1	137	16.92	16.99	17.00		
100	PI2 BPSK	1	271	16.91	17.03	16.92		
100	PI2 BPSK	133	0	16.93	17.07	16.98	19.0	0.0
100	PI2 BPSK	135	69	16.94	17.04	16.99	19.0	0.0
100	PI2 BPSK	135	135	16.93	17.05	16.99	19.0	0.0
100	PI2 BPSK	270	0	16.95	17.02	16.99		
100	QPSK	1	1	17.01	17.10	17.06		
100	QPSK	1	137	17.00	17.04	16.99	19.0	0.0
100	QPSK	1	271	16.94	17.09	17.01		
100	QPSK	135	0	16.95	17.02	16.95		
100	QPSK	135	69	16.96	17.08	17.01	19.0	0.0
100	QPSK	135	135	16.87	17.04	16.93		
100	QPSK	270	0	16.91	17.06	16.99	19.0	0.0
100	16QAM	1	1	16.96	17.01	16.97	19.0	0.0
100	64QAM	1	1	16.95	17.07	16.98	19.0	0.0
100	256QAM	1	1	16.88	17.00	17.00	19.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	16.93	17.07	16.99	19.0	0.0
Channel				84834	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	16.90	17.01	16.93	19.0	0.0
Channel				84866	85000	85332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	16.92	17.02	16.99	19.0	0.0
Channel				84534	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	16.94	17.07	16.96	19.0	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3790	3840	3990		
40	PI2 BPSK	1	1	16.88	17.07	16.96	19.0	0.0
Channel				84168	85000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	16.95	17.07	16.94	19.0	0.0
Channel				84133	85000	86006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	16.88	17.04	16.99	19.0	0.0

Par270 n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3790	3840	3900		
100	PI2 BPSK	1	1	16.48	16.51	16.40	20.5	0.0
100	PI2 BPSK	1	137	16.49	16.54	16.47		
100	PI2 BPSK	1	271	16.43	16.56	16.40		
100	PI2 BPSK	133	0	16.47	16.58	16.42	20.5	0.0
100	PI2 BPSK	135	69	16.48	16.56	16.45	20.5	0.0
100	PI2 BPSK	135	135	16.47	16.53	16.43	20.5	0.0
100	PI2 BPSK	270	0	16.42	16.54	16.41		
100	QPSK	1	1	16.57	16.61	16.52		
100	QPSK	1	137	16.56	16.58	16.48	20.5	0.0
100	QPSK	1	271	16.50	16.60	16.51		
100	QPSK	135	0	16.43	16.56	16.42		
100	QPSK	135	69	16.51	16.60	16.48	20.5	0.0
100	QPSK	135	135	16.49	16.54	16.45		
100	QPSK	270	0	16.44	16.51	16.39	20.5	0.0
100	16QAM	1	1	16.42	16.54	16.45	20.5	0.0
100	64QAM	1	1	16.48	16.53	16.41	20.5	0.0
100	256QAM	1	1	16.43	16.57	16.42	20.5	0.0
Channel				84834	85000	85332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	16.47	16.53	16.41	20.5	0.0
Channel				84834	85000	85332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	16.44	16.53	16.40	20.5	0.0
Channel				84866	85000	85332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	16.50	16.58	16.44	20.5	0.0
Channel				84534	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	16.50	16.57	16.41	20.5	0.0
Channel				84000	85000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3790	3840	3990		
40	PI2 BPSK	1	1	16.44	16.52	16.45	20.5	0.0
Channel				84168	85000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	16.46	16.58	16.43	20.5	0.0
Channel				84133	85000	86006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	16.49	16.53	16.45	20.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				833392	833392	833392		
100	PI2 BPSK	1	1	17.20	17.20	17.20	19.0	0.0
100	PI2 BPSK	1	137	17.22	17.22	17.22	19.0	0.0
100	PI2 BPSK	1	271	17.18	17.18	17.18	19.0	0.0
100	PI2 BPSK	133	0	17.15	17.15	17.15	19.0	0.0
100	PI2 BPSK	133	69	17.16	17.16	17.16	19.0	0.0
100	PI2 BPSK	133	133	17.18	17.18	17.18	19.0	0.0
100	PI2 BPSK	270	0	17.23	17.23	17.23	19.0	0.0
100	QPSK	1	1	17.24	17.24	17.24	19.0	0.0
100	QPSK	1	137	17.16	17.16	17.16	19.0	0.0
100	QPSK	1	271	17.17	17.17	17.17	19.0	0.0
100	QPSK	133	0	17.17	17.17	17.17	19.0	0.0
100	QPSK	133	69	17.22	17.22	17.22	19.0	0.0
100	QPSK	133	133	17.20	17.20	17.20	19.0	0.0
100	QPSK	270	0	17.19	17.19	17.19	19.0	0.0
100	16QAM	1	1	17.20	17.20	17.20	19.0	0.0
100	16QAM	1	1	17.23	17.23	17.23	19.0	0.0
100	256QAM	1	1	17.15	17.15	17.15	19.0	0.0
Channel								
Frequency (MHz)				833000	833312	833696		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	17.14	17.12	17.12	19.0	0.0
Channel								
Frequency (MHz)				832664	833312	834000		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	17.20	17.19	17.08	19.0	0.0
Channel								
Frequency (MHz)				832600	833312	834000		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	17.21	17.22	17.13	19.0	0.0
Channel								
Frequency (MHz)				831664	833312	835000		
Frequency (MHz)				3475.02	3499.98	3524		
50	PI2 BPSK	1	1	17.18	17.15	17.14	19.0	0.0
Channel								
Frequency (MHz)				831314	833312	833392		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	17.13	17.17	17.12	19.0	0.0
Channel								
Frequency (MHz)				831000	833312	835000		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	17.21	17.17	17.14	19.0	0.0
Channel								
Frequency (MHz)				830668	833312	835000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	17.20	17.21	17.12	19.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				833392	833392	833392		
100	PI2 BPSK	1	1	18.82	18.82	18.82	20.5	0.0
100	PI2 BPSK	1	137	18.87	18.87	18.87	20.5	0.0
100	PI2 BPSK	1	271	18.85	18.85	18.85	20.5	0.0
100	PI2 BPSK	133	0	18.85	18.85	18.85	20.5	0.0
100	PI2 BPSK	133	69	18.86	18.86	18.86	20.5	0.0
100	PI2 BPSK	133	133	18.80	18.80	18.80	20.5	0.0
100	PI2 BPSK	270	0	18.84	18.84	18.84	20.5	0.0
100	QPSK	1	1	18.95	18.95	18.95	20.5	0.0
100	QPSK	1	137	18.91	18.91	18.91	20.5	0.0
100	QPSK	1	271	18.87	18.87	18.87	20.5	0.0
100	QPSK	133	0	18.82	18.82	18.82	20.5	0.0
100	QPSK	133	69	18.88	18.88	18.88	20.5	0.0
100	QPSK	133	133	18.84	18.84	18.84	20.5	0.0
100	QPSK	270	0	18.80	18.80	18.80	20.5	0.0
100	16QAM	1	1	18.84	18.84	18.84	20.5	0.0
100	16QAM	1	1	18.86	18.86	18.86	20.5	0.0
100	256QAM	1	1	18.82	18.82	18.82	20.5	0.0
Channel								
Frequency (MHz)				833000	833312	833696		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	18.87	18.80	18.76	20.5	0.0
Channel								
Frequency (MHz)				832664	833312	834000		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	18.79	18.82	18.79	20.5	0.0
Channel								
Frequency (MHz)				832600	833312	834000		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	18.84	18.84	18.82	20.5	0.0
Channel								
Frequency (MHz)				831664	833312	835000		
Frequency (MHz)				3475.02	3499.98	3524		
50	PI2 BPSK	1	1	18.83	18.84	18.81	20.5	0.0
Channel								
Frequency (MHz)				831314	833312	833392		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	18.81	18.80	18.74	20.5	0.0
Channel								
Frequency (MHz)				831000	833312	835000		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	18.86	18.79	18.81	20.5	0.0
Channel								
Frequency (MHz)				830668	833312	835000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	18.86	18.80	18.79	20.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	15.55	15.68	15.60		
100	PI2 BPSK	1	137	15.57	15.63	15.59		
100	PI2 BPSK	1	271	15.57	15.65	15.59		
100	PI2 BPSK	133	0	15.63	15.71	15.62	17.5	0.0
100	PI2 BPSK	133	69	15.58	15.67	15.62	17.5	0.0
100	PI2 BPSK	133	133	15.60	15.71	15.67	17.5	0.0
100	PI2 BPSK	270	0	15.56	15.70	15.61		
100	QPSK	1	1	15.67	15.76	15.72		
100	QPSK	1	137	15.61	15.72	15.68		
100	QPSK	1	271	15.59	15.73	15.71	17.5	0.0
100	QPSK	133	0	15.55	15.66	15.65		
100	QPSK	133	69	15.54	15.72	15.68	17.5	0.0
100	QPSK	133	133	15.56	15.67	15.63		
100	QPSK	270	0	15.57	15.70	15.66	17.5	0.0
100	16QAM	1	1	15.56	15.68	15.60	17.5	0.0
100	64QAM	1	1	15.61	15.71	15.65	17.5	0.0
100	256QAM	1	1	15.62	15.63	15.61	17.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	15.61	15.63	15.60	17.5	0.0
Channel				84833.4	85000	84806	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	15.63	15.65	15.64	17.5	0.0
Channel				84866	85000	84833.2	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	15.59	15.70	15.66	17.5	0.0
Channel				84834	85000	84806	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	15.60	15.63	15.63	17.5	0.0
Channel				84800	85000	84770	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	15.60	15.65	15.64	17.5	0.0
Channel				84768	85000	84732	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3854.98		
30	PI2 BPSK	1	1	15.63	15.67	15.59	17.5	0.0
Channel				84733	85000	84696	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	15.55	15.69	15.60	17.5	0.0

Par270 n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	17.39	17.42	17.35		
100	PI2 BPSK	1	137	17.37	17.43	17.34		
100	PI2 BPSK	1	271	17.36	17.43	17.37		
100	PI2 BPSK	133	0	17.38	17.43	17.30	19.0	0.0
100	PI2 BPSK	133	69	17.33	17.45	17.37	19.0	0.0
100	PI2 BPSK	133	133	17.36	17.45	17.35	19.0	0.0
100	PI2 BPSK	270	0	17.37	17.41	17.32		
100	QPSK	1	1	17.46	17.55	17.46		
100	QPSK	1	137	17.37	17.54	17.39		
100	QPSK	1	271	17.39	17.53	17.45	19.0	0.0
100	QPSK	133	0	17.39	17.46	17.32		
100	QPSK	133	69	17.42	17.47	17.38	19.0	0.0
100	QPSK	133	133	17.35	17.41	17.37		
100	QPSK	270	0	17.34	17.42	17.33	19.0	0.0
100	16QAM	1	1	17.37	17.39	17.33	19.0	0.0
100	64QAM	1	1	17.35	17.39	17.36	19.0	0.0
100	256QAM	1	1	17.36	17.41	17.33	19.0	0.0
Channel				84833.4	85000	84806	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	17.41	17.38	17.36	19.0	0.0
Channel				84833.4	85000	84806	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	17.36	17.45	17.30	19.0	0.0
Channel				84866	85000	84833.2	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	17.40	17.40	17.34	19.0	0.0
Channel				84834	85000	84806	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	17.34	17.41	17.29	19.0	0.0
Channel				84800	85000	84770	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	17.34	17.41	17.37	19.0	0.0
Channel				84768	85000	84732	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3854.98		
30	PI2 BPSK	1	1	17.39	17.44	17.33	19.0	0.0
Channel				84733	85000	84696	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	17.35	17.43	17.32	19.0	0.0



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				833302	833302	833302		
100	PI2 BPSK	1	1	16.03	16.03	16.03	17.5	0.0
100	PI2 BPSK	1	137	16.02	16.02	16.02	17.5	0.0
100	PI2 BPSK	1	271	16.04	16.04	16.04	17.5	0.0
100	PI2 BPSK	133	0	16.04	16.04	16.04	17.5	0.0
100	PI2 BPSK	133	69	16.02	16.02	16.02	17.5	0.0
100	PI2 BPSK	133	133	16.02	16.02	16.02	17.5	0.0
100	PI2 BPSK	270	0	16.03	16.03	16.03	17.5	0.0
100	QPSK	1	1	16.02	16.02	16.02	17.5	0.0
100	QPSK	1	137	16.04	16.04	16.04	17.5	0.0
100	QPSK	1	271	16.07	16.07	16.07	17.5	0.0
100	QPSK	133	0	16.04	16.04	16.04	17.5	0.0
100	QPSK	133	69	16.08	16.08	16.08	17.5	0.0
100	QPSK	133	133	16.02	16.02	16.02	17.5	0.0
100	QPSK	270	0	16.04	16.04	16.04	17.5	0.0
100	16QAM	1	1	16.05	16.05	16.05	17.5	0.0
100	64QAM	1	1	16.05	16.05	16.05	17.5	0.0
100	256QAM	1	1	16.07	16.07	16.07	17.5	0.0
Channel				833000	833312	833608	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99	17.5	0.0
90	PI2 BPSK	1	1	15.99	15.98	15.98	17.5	0.0
Channel				832663	833312	833900	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510	17.5	0.0
80	PI2 BPSK	1	1	16.05	15.97	15.98	17.5	0.0
Channel				832600	833312	833908	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3499.98	3519.99	17.5	0.0
60	PI2 BPSK	1	1	16.01	16.02	15.96	17.5	0.0
Channel				831668	833312	835000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3525	17.5	0.0
50	PI2 BPSK	1	1	16.05	16.02	15.92	17.5	0.0
Channel				831334	833312	835392	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98	17.5	0.0
40	PI2 BPSK	1	1	15.99	16.00	15.95	17.5	0.0
Channel				831000	833312	835996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3534.99	17.5	0.0
30	PI2 BPSK	1	1	15.99	16.03	15.90	17.5	0.0
Channel				830668	833312	836000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3540	17.5	0.0
20	PI2 BPSK	1	1	16.07	16.02	15.84	17.5	0.0

Par27Q n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				833302	833302	833302		
100	PI2 BPSK	1	1	17.46	17.46	17.46	19.0	0.0
100	PI2 BPSK	1	137	17.42	17.42	17.42	19.0	0.0
100	PI2 BPSK	1	271	17.47	17.47	17.47	19.0	0.0
100	PI2 BPSK	133	0	17.45	17.45	17.45	19.0	0.0
100	PI2 BPSK	133	69	17.42	17.42	17.42	19.0	0.0
100	PI2 BPSK	133	133	17.42	17.42	17.42	19.0	0.0
100	PI2 BPSK	270	0	17.48	17.48	17.48	19.0	0.0
100	QPSK	1	1	17.54	17.54	17.54	19.0	0.0
100	QPSK	1	137	17.51	17.51	17.51	19.0	0.0
100	QPSK	1	271	17.53	17.53	17.53	19.0	0.0
100	QPSK	133	0	17.47	17.47	17.47	19.0	0.0
100	QPSK	133	69	17.49	17.49	17.49	19.0	0.0
100	QPSK	133	133	17.44	17.44	17.44	19.0	0.0
100	QPSK	270	0	17.46	17.46	17.46	19.0	0.0
100	16QAM	1	1	17.45	17.45	17.45	19.0	0.0
100	64QAM	1	1	17.45	17.45	17.45	19.0	0.0
100	256QAM	1	1	17.41	17.41	17.41	19.0	0.0
Channel				833000	833312	833608	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99	17.5	0.0
90	PI2 BPSK	1	1	17.42	17.48	17.41	19.0	0.0
Channel				832663	833312	833900	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510	17.5	0.0
80	PI2 BPSK	1	1	17.37	17.42	17.40	19.0	0.0
Channel				832600	833312	833908	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3499.98	3519.99	17.5	0.0
60	PI2 BPSK	1	1	17.39	17.41	17.39	19.0	0.0
Channel				831668	833312	835000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3525	17.5	0.0
50	PI2 BPSK	1	1	17.36	17.47	17.38	19.0	0.0
Channel				831334	833312	835392	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98	17.5	0.0
40	PI2 BPSK	1	1	17.38	17.40	17.34	19.0	0.0
Channel				831000	833312	835996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3534.99	17.5	0.0
30	PI2 BPSK	1	1	17.40	17.46	17.42	19.0	0.0
Channel				830668	833312	836000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3540	17.5	0.0
20	PI2 BPSK	1	1	17.39	17.48	17.38	19.0	0.0



Par270 n77_Ant10

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel	85000	85500	86000					
Frequency (MHz)	3790	3840	3900					
100	PK2 BPSK	1	1	18.62	18.73	18.85	20.5	0.0
100	PK2 BPSK	1	137	18.65	18.78	18.86	20.5	0.0
100	PK2 BPSK	1	271	18.66	18.73	18.81	20.5	0.0
100	PK2 BPSK	133	0	18.72	18.74	18.89	20.5	0.0
100	PK2 BPSK	135	69	18.73	18.74	18.81	20.5	0.0
100	PK2 BPSK	135	135	18.84	18.75	18.71	20.5	0.0
100	PK2 BPSK	270	0	18.72	18.73	18.70	20.5	0.0
100	QPSK	1	1	18.85	18.83	18.92	20.5	0.0
100	QPSK	1	137	18.90	18.86	18.95	20.5	0.0
100	QPSK	1	271	18.86	18.88	18.78	20.5	0.0
100	QPSK	135	0	18.89	18.79	18.87	20.5	0.0
100	QPSK	135	69	18.77	18.87	18.84	20.5	0.0
100	QPSK	135	135	18.89	18.75	18.71	20.5	0.0
100	QPSK	270	0	18.86	18.71	18.89	20.5	0.0
100	16QAM	1	1	18.61	18.75	18.61	20.5	0.0
100	16QAM	1	1	18.73	18.75	18.72	20.5	0.0
100	256QAM	1	1	18.65	18.73	18.60	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3745.02	3840	3834.98					
90	PK2 BPSK	1	1	18.65	18.75	18.73	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3740.01	3840	3839.99					
80	PK2 BPSK	1	1	18.65	18.80	18.75	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3730.02	3840	3849.98					
60	PK2 BPSK	1	1	18.71	18.79	18.77	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3725.01	3840	3854.99					
50	PK2 BPSK	1	1	18.67	18.81	18.79	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3720	3840	3900					
40	PK2 BPSK	1	1	18.67	18.78	18.79	20.5	0.0
Channel	84768	85000	85232	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3715.02	3840.00	3854.88					
30	PK2 BPSK	1	1	18.64	18.76	18.75	20.5	0.0
Channel	84733	85000	85006	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3710.01	3840	3869.99					
20	PK2 BPSK	1	1	18.65	18.79	18.77	20.5	0.0

Par270 n77 HPUE_Ant10

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel	85000	85500	86000					
Frequency (MHz)	3790	3840	3900					
100	PK2 BPSK	1	1	20.36	20.39	20.37	22.0	0.0
100	PK2 BPSK	1	137	20.43	20.41	20.46	22.0	0.0
100	PK2 BPSK	1	271	20.48	20.51	20.46	22.0	0.0
100	PK2 BPSK	133	0	20.39	20.47	20.43	22.0	0.0
100	PK2 BPSK	135	69	20.33	20.51	20.49	22.0	0.0
100	PK2 BPSK	135	135	20.38	20.41	20.47	22.0	0.0
100	PK2 BPSK	270	0	20.45	20.40	20.44	22.0	0.0
100	QPSK	1	1	20.48	20.54	20.51	22.0	0.0
100	QPSK	1	137	20.38	20.52	20.38	22.0	0.0
100	QPSK	1	271	20.46	20.43	20.47	22.0	0.0
100	QPSK	135	0	20.36	20.49	20.47	22.0	0.0
100	QPSK	135	69	20.34	20.43	20.39	22.0	0.0
100	QPSK	135	135	20.39	20.46	20.49	22.0	0.0
100	QPSK	270	0	20.45	20.48	20.46	22.0	0.0
100	16QAM	1	1	20.45	20.47	20.38	22.0	0.0
100	16QAM	1	1	20.40	20.45	20.41	22.0	0.0
100	256QAM	1	1	20.45	20.46	20.47	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3745.02	3840	3834.98					
90	PK2 BPSK	1	1	20.30	20.36	20.28	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3740.01	3840	3839.99					
80	PK2 BPSK	1	1	20.29	20.39	20.36	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3730.02	3840	3849.98					
60	PK2 BPSK	1	1	20.30	20.45	20.29	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3725.01	3840	3854.99					
50	PK2 BPSK	1	1	20.32	20.42	20.24	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3720	3840	3900					
40	PK2 BPSK	1	1	20.22	20.33	20.24	22.0	0.0
Channel	84768	85000	85232	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3715.02	3840.00	3854.88					
30	PK2 BPSK	1	1	20.22	20.36	20.33	22.0	0.0
Channel	84733	85000	85006	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3710.01	3840	3869.99					
20	PK2 BPSK	1	1	20.35	20.35	20.24	22.0	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	19.10				
100	PI2 BPSK	1	137	19.12			20.5	0.0
100	PI2 BPSK	1	271	19.08				
100	PI2 BPSK	135	0	19.06			20.5	0.0
100	PI2 BPSK	135	66	19.04			20.5	0.0
100	PI2 BPSK	135	138	19.03			20.5	0.0
100	PI2 BPSK	270	0	19.07				
100	QPSK	1	1	19.15				
100	QPSK	1	137	19.07			20.5	0.0
100	QPSK	1	271	19.09				
100	QPSK	135	0	19.11			20.5	0.0
100	QPSK	135	66	19.13				
100	QPSK	135	138	19.04			20.5	0.0
100	QPSK	270	0	19.07				
100	64QAM	1	1	19.04			20.5	0.0
100	64QAM	1	1	19.09				
100	256QAM	1	1	19.06			20.5	0.0
Channel				63300	3499.98	63366	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99	20.5	0.0
90	PI2 BPSK	1	1	19.08	19.05	18.92	20.5	0.0
Channel				63358	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510	20.5	0.0
80	PI2 BPSK	1	1	19.00	19.09	18.89	20.5	0.0
Channel				63000	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490	3499.98	3519.99	20.5	0.0
60	PI2 BPSK	1	1	19.01	19.03	18.97	20.5	0.0
Channel				63168	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3505	20.5	0.0
50	PI2 BPSK	1	1	18.99	19.14	18.94	20.5	0.0
Channel				63134	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3509.98	20.5	0.0
40	PI2 BPSK	1	1	19.01	19.05	18.89	20.5	0.0
Channel				63100	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3504.99	20.5	0.0
30	PI2 BPSK	1	1	18.93	19.02	18.98	20.5	0.0
Channel				63066	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3500	20.5	0.0
20	PI2 BPSK	1	1	19.02	19.08	18.89	20.5	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	20.61				
100	PI2 BPSK	1	137	20.58			22.0	0.0
100	PI2 BPSK	1	271	20.60				
100	PI2 BPSK	135	0	20.55			22.0	0.0
100	PI2 BPSK	135	66	20.57			22.0	0.0
100	PI2 BPSK	135	138	20.61			22.0	0.0
100	PI2 BPSK	270	0	20.58				
100	QPSK	1	1	20.66				
100	QPSK	1	137	20.61			22.0	0.0
100	QPSK	1	271	20.63				
100	QPSK	135	0	20.58			22.0	0.0
100	QPSK	135	66	20.64				
100	QPSK	135	138	20.61			22.0	0.0
100	QPSK	270	0	20.60				
100	64QAM	1	1	20.56			22.0	0.0
100	64QAM	1	1	20.64				
100	256QAM	1	1	20.56			22.0	0.0
Channel				63300	3499.98	63366	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99	20.5	0.0
90	PI2 BPSK	1	1	20.60	20.53	20.43	22.0	0.0
Channel				63358	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510	20.5	0.0
80	PI2 BPSK	1	1	20.64	20.63	20.54	22.0	0.0
Channel				63000	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490	3499.98	3519.99	20.5	0.0
60	PI2 BPSK	1	1	20.61	20.56	20.52	22.0	0.0
Channel				63168	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3505	20.5	0.0
50	PI2 BPSK	1	1	20.47	20.51	20.55	22.0	0.0
Channel				63134	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3509.98	20.5	0.0
40	PI2 BPSK	1	1	20.58	20.56	20.56	22.0	0.0
Channel				63100	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3504.99	20.5	0.0
30	PI2 BPSK	1	1	20.58	20.53	20.46	22.0	0.0
Channel				63066	3499.98	3504.99	Turn-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3500	20.5	0.0
20	PI2 BPSK	1	1	20.61	20.52	20.52	22.0	0.0



UL MIMO Mode_Full Power

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
100	PI2 BPSK	1	1	21.36	21.45	21.38			
100	PI2 BPSK	1	137	21.41	21.46	21.41	23.0	0.0	
100	PI2 BPSK	1	271	21.36	21.45	21.43			
100	PI2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5	
100	PI2 BPSK	135	66	21.37	21.42	21.34	23.0	0.0	
100	PI2 BPSK	135	138	20.83	20.91	20.89	22.5	0.5	
100	PI2 BPSK	270	0	20.78	20.88	20.81			
100	QPSK	1	1	21.44	21.51	21.38	23.0	0.0	
100	QPSK	1	137	21.38	21.50	21.37			
100	QPSK	1	271	21.43	21.45	21.36			
100	QPSK	135	0	21.22	21.34	21.33	23.0	0.0	
100	QPSK	135	66	21.44	21.46	21.33			
100	QPSK	135	138	21.40	21.43	21.30			
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0	
100	NOQAM	1	1	20.13	20.34	20.14	22.0	1.0	
100	64QAM	1	1	18.82	18.86	18.72	20.5	2.5	
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	21.37	21.36	21.31	23.0	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	21.39	21.44	21.27	23.0	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	21.36	21.37	21.31	23.0	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
100	PI2 BPSK	1	1	22.98	23.05	22.93			
100	PI2 BPSK	1	137	22.89	23.02	22.84	24.5	0.0	
100	PI2 BPSK	1	271	22.86	22.98	22.89			
100	PI2 BPSK	135	0	22.26	22.39	22.29	24.0	0.5	
100	PI2 BPSK	135	66	22.87	22.99	22.86	24.5	0.0	
100	PI2 BPSK	135	138	22.44	22.47	22.41	24.0	0.5	
100	PI2 BPSK	270	0	22.48	22.51	22.41			
100	QPSK	1	1	22.96	23.06	22.98	24.5	0.0	
100	QPSK	1	137	22.92	23.06	22.97			
100	QPSK	1	271	23.03	23.04	22.98			
100	QPSK	135	0	22.86	22.91	22.81	24.5	0.0	
100	QPSK	135	66	22.92	22.95	22.88			
100	QPSK	135	138	22.89	22.99	22.84			
100	QPSK	270	0	21.90	21.96	21.86	23.5	1.0	
100	NOQAM	1	1	22.04	22.06	21.96	23.5	1.0	
100	64QAM	1	1	20.43	20.49	20.37	22.0	2.5	
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	22.88	22.99	22.92	24.5	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	22.90	23.05	22.91	24.5	0.0	



n41_FCC_Ant8

BW (MHz)	Modulation	RB 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	P12 BPSK	1	1	21.36	21.45	21.38		
100	P12 BPSK	1	137	21.41	21.46	21.41	23.0	0.0
100	P12 BPSK	1	271	21.36	21.45	21.43		
100	P12 BPSK	135	0	20.84	20.85	20.77	22.5	0.5
100	P12 BPSK	135	69	21.37	21.42	21.34	23.0	0.0
100	P12 BPSK	135	138	20.83	20.87	20.80		
100	P12 BPSK	270	0	20.79	20.88	20.81	22.5	0.5
100	QPSK	1	1	21.44	21.51	21.38		
100	QPSK	1	137	21.38	21.50	21.37	23.0	0.0
100	QPSK	1	271	21.43	21.45	21.36		
100	QPSK	135	0	21.22	21.34	21.33		
100	QPSK	135	69	21.44	21.46	21.33	23.0	0.0
100	QPSK	135	138	21.40	21.43	21.30		
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.5
100	16QAM	1	1	18.82	18.85	18.72	20.5	2.5
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	21.35	21.42	21.37	23.0	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	21.40	21.42	21.35	23.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	21.42	21.44	21.32	23.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	21.42	21.44	21.30	23.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	21.37	21.36	21.31	23.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	21.39	21.44	21.27	23.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	21.37	21.37	21.31	23.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	21.36	21.37	21.31	23.0	0.0

n41_FCC_HPUE_Ant8

BW (MHz)	Modulation	RB 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	P12 BPSK	1	1	22.98	23.05	22.93		
100	P12 BPSK	1	137	22.98	23.02	22.94	24.5	0.0
100	P12 BPSK	1	271	22.98	23.08	22.93		
100	P12 BPSK	135	0	22.26	22.39	22.25	24.0	0.5
100	P12 BPSK	135	69	22.87	22.99	22.86	24.5	0.0
100	P12 BPSK	135	138	22.44	22.47	22.41		
100	P12 BPSK	270	0	22.48	22.51	22.41	24.0	0.5
100	QPSK	1	1	22.96	23.08	22.98		
100	QPSK	1	137	22.95	23.05	22.97	24.5	0.0
100	QPSK	1	271	23.03	23.04	22.98		
100	QPSK	135	0	22.86	22.91	22.81		
100	QPSK	135	69	22.87	22.95	22.93	24.5	0.0
100	QPSK	135	138	22.89	22.95	22.84		
100	QPSK	270	0	21.90	21.96	21.86	23.5	1.0
100	16QAM	1	1	21.04	21.08	21.05	23.5	1.5
100	16QAM	1	1	20.43	20.45	20.37	22.0	2.5
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	22.93	22.88	22.88	24.5	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	22.93	23.02	22.91	24.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	22.88	22.89	22.92	24.5	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	22.92	23.04	22.90	24.5	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	22.94	22.99	22.90	24.5	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	22.90	23.05	22.91	24.5	0.0



n41_FCC_Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	21.46	21.47	21.44			
100	P12 BPSK	1	137	21.44	21.51	21.49	23.0	0.0	
100	P12 BPSK	1	271	21.49	21.55	21.49			
100	P12 BPSK	135	0	20.89	20.92	20.82	22.5	0.5	
100	P12 BPSK	135	69	21.44	21.46	21.42	23.0	0.0	
100	P12 BPSK	135	138	20.50	21.07	20.88			
100	P12 BPSK	270	0	20.88	20.93	20.88	22.5	0.5	
100	QPSK	1	1	21.47	21.65	21.55	23.0	0.0	
100	QPSK	1	137	21.43	21.54	21.50			
100	QPSK	1	271	21.49	21.51	21.42			
100	QPSK	135	0	21.33	21.46	21.44			
100	QPSK	135	69	21.51	21.63	21.48	23.0	0.0	
100	QPSK	135	138	21.42	21.50	21.41			
100	QPSK	270	0	20.37	20.39	20.37	22.0	1.0	
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.5	
100	16QAM	1	1	18.50	18.94	18.50	20.5	2.5	
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5	
Channel									
Frequency (MHz)									
90	P12 BPSK	1	1	21.46	21.47	21.37	23.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	21.43	21.44	21.39	23.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	21.42	21.43	21.37	23.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	21.41	21.43	21.37	23.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	21.40	21.43	21.41	23.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	21.48	21.43	21.36	23.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	21.43	21.42	21.39	23.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	21.43	21.43	21.40	23.0	0.0	

n41_FCC_HPUE_Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	22.91	23.02	23.00			
100	P12 BPSK	1	137	22.98	23.08	23.01	24.5	0.0	
100	P12 BPSK	1	271	22.94	23.06	22.99			
100	P12 BPSK	135	0	22.46	22.49	22.38	24.0	0.5	
100	P12 BPSK	135	69	23.04	23.09	23.08	24.5	0.0	
100	P12 BPSK	135	138	22.52	22.62	22.61			
100	P12 BPSK	270	0	22.46	22.58	22.52	24.0	0.5	
100	QPSK	1	1	23.03	23.12	22.99			
100	QPSK	1	137	22.98	23.11	23.06	24.5	0.0	
100	QPSK	1	271	23.05	23.08	23.06			
100	QPSK	135	0	22.54	22.96	22.84			
100	QPSK	135	69	23.06	23.07	22.96	24.5	0.0	
100	QPSK	135	138	22.91	23.02	22.99			
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0	
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.5	
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5	
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5	
Channel									
Frequency (MHz)									
90	P12 BPSK	1	1	22.96	23.00	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	22.96	23.02	23.01	24.5	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	23.02	23.04	22.98	24.5	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	22.96	23.07	22.98	24.5	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	22.96	23.04	22.98	24.5	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	23.00	22.99	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	23.00	23.00	23.04	24.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	22.98	22.99	23.04	24.5	0.0	



n41_FCC_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	21.46	21.47	21.44		
100	P12 BPSK	1	137	21.44	21.51	21.49	23.0	0.0
100	P12 BPSK	1	271	21.49	21.55	21.49		
100	P12 BPSK	135	0	20.89	20.92	20.82	22.5	0.5
100	P12 BPSK	135	69	21.44	21.46	21.42	23.0	0.0
100	P12 BPSK	135	138	20.50	21.07	20.88		
100	P12 BPSK	270	0	20.88	20.93	20.88	22.5	0.5
100	QPSK	1	1	21.47	21.65	21.55		
100	QPSK	1	137	21.43	21.54	21.50	23.0	0.0
100	QPSK	1	271	21.49	21.51	21.42		
100	QPSK	135	0	21.33	21.46	21.44		
100	QPSK	135	69	21.51	21.63	21.48	23.0	0.0
100	QPSK	135	138	21.42	21.50	21.41		
100	QPSK	270	0	20.37	20.39	20.37	22.0	1.0
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.5
100	16QAM	1	1	18.50	18.94	18.50	20.5	2.5
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	21.46	21.47	21.37	23.0	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	21.43	21.44	21.39	23.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	21.42	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	21.41	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	21.40	21.43	21.41	23.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	21.48	21.43	21.36	23.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	21.43	21.42	21.39	23.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	21.43	21.43	21.40	23.0	0.0

n41_FCC_HPUE_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.91	23.02	23.00		
100	P12 BPSK	1	137	22.98	23.08	23.01	24.5	0.0
100	P12 BPSK	1	271	22.94	23.06	22.99		
100	P12 BPSK	135	0	22.46	22.49	22.38	24.0	0.5
100	P12 BPSK	135	69	23.04	23.09	23.08	24.5	0.0
100	P12 BPSK	135	138	22.52	22.62	22.61		
100	P12 BPSK	270	0	22.46	22.58	22.52	24.0	0.5
100	QPSK	1	1	23.03	23.12	22.99		
100	QPSK	1	137	22.98	23.11	23.06	24.5	0.0
100	QPSK	1	271	23.05	23.08	23.06		
100	QPSK	135	0	22.54	22.96	22.84		
100	QPSK	135	69	23.06	23.07	22.96	24.5	0.0
100	QPSK	135	138	22.91	23.02	22.99		
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.5
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	22.96	23.00	23.05	24.5	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	22.96	23.02	23.01	24.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	23.02	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	22.96	23.07	22.98	24.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	22.96	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	23.00	22.99	23.05	24.5	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	23.00	23.00	23.04	24.5	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	22.98	22.99	23.04	24.5	0.0



UL MIMO Mode_State 6

n41_FCC_Ant7									
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)									
100	PI2 BPSK	1	1	16.22	16.30	16.25			
100	PI2 BPSK	1	137	16.25	16.31	16.28	17.5	0.0	
100	PI2 BPSK	1	271	16.19	16.30	16.26			
100	PI2 BPSK	135	0	16.24	16.37	16.26	17.5	0.0	
100	PI2 BPSK	135	69	16.20	16.32	16.26	17.5	0.0	
100	PI2 BPSK	135	138	16.19	16.34	16.24	17.5	0.0	
100	PI2 BPSK	270	0	16.18	16.32	16.23			
100	QPSK	1	1	16.34	16.41	16.39			
100	QPSK	1	137	16.28	16.32	16.34	17.5	0.0	
100	QPSK	1	271	16.29	16.30	16.29			
100	QPSK	135	0	16.22	16.31	16.26			
100	QPSK	135	69	16.27	16.40	16.31	17.5	0.0	
100	QPSK	135	138	16.26	16.37	16.23			
100	QPSK	270	0	16.25	16.39	16.25	17.5	0.0	
100	16QAM	1	1	16.26	16.39	16.26	17.5	0.0	
100	64QAM	1	1	16.18	16.30	16.25	17.5	0.0	
100	256QAM	1	1	16.25	16.38	16.23	17.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	16.25	16.32	16.30	17.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	16.20	16.31	16.30	17.5	0.0	
Channel									
Frequency (MHz)									
75	PI2 BPSK	1	1	16.20	16.37	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	16.23	16.37	16.24	17.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	16.20	16.34	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	16.18	16.33	16.22	17.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	16.24	16.39	16.22	17.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	16.22	16.34	16.26	17.5	0.0	

n41_FCC_HPUE_Ant7									
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)									
100	PI2 BPSK	1	1	17.47	17.61	17.54			
100	PI2 BPSK	1	137	17.53	17.56	17.53	19.0	0.0	
100	PI2 BPSK	1	271	17.50	17.54	17.52			
100	PI2 BPSK	135	0	17.47	17.55	17.53	19.0	0.0	
100	PI2 BPSK	135	69	17.46	17.54	17.50	19.0	0.0	
100	PI2 BPSK	135	138	17.54	17.55	17.48	19.0	0.0	
100	PI2 BPSK	270	0	17.54	17.56	17.48			
100	QPSK	1	1	17.61	17.66	17.63			
100	QPSK	1	137	17.56	17.62	17.56	19.0	0.0	
100	QPSK	1	271	17.53	17.63	17.58			
100	QPSK	135	0	17.53	17.57	17.50			
100	QPSK	135	69	17.55	17.63	17.56	19.0	0.0	
100	QPSK	135	138	17.49	17.56	17.50			
100	QPSK	270	0	17.48	17.56	17.54	19.0	0.0	
100	16QAM	1	1	17.52	17.56	17.54	19.0	0.0	
100	64QAM	1	1	17.46	17.56	17.52	19.0	0.0	
100	256QAM	1	1	17.47	17.58	17.51	19.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	17.52	17.61	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	17.47	17.57	17.54	19.0	0.0	
Channel									
Frequency (MHz)									
75	PI2 BPSK	1	1	17.49	17.56	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	17.49	17.58	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	17.53	17.59	17.49	19.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.53	17.54	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	17.50	17.60	17.49	19.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	17.54	17.54	17.47	19.0	0.0	



n41_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
	Frequency (MHz)			509202	518598	528000		
100	Pi2 BPSK	1	1	21.56	21.45	21.38	23.0	0.0
100	Pi2 BPSK	1	137	21.41	21.46	21.41		
100	Pi2 BPSK	1	271	21.36	21.45	21.43		
100	Pi2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5
100	Pi2 BPSK	135	69	21.37	21.42	21.34	23.0	0.0
100	Pi2 BPSK	135	138	20.83	20.91	20.89	22.5	0.5
100	Pi2 BPSK	270	0	20.79	20.83	20.81		
100	QPSK	1	1	21.44	21.51	21.38	23.0	0.0
100	QPSK	1	137	21.38	21.50	21.37		
100	QPSK	1	271	21.43	21.45	21.36		
100	QPSK	135	0	21.22	21.34	21.33		
100	QPSK	135	69	21.44	21.46	21.33	23.0	0.0
100	QPSK	135	138	21.40	21.43	21.30		
100	QPSK	270	0	20.30	20.30	20.24	22.0	1.0
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0
100	16QAM	1	1	18.82	18.86	18.72	20.5	2.5
100	16QAM	1	1	16.77	16.81	16.78	18.5	4.5
Channel								
	Frequency (MHz)			508200	518598	528996	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0
Channel								
	Frequency (MHz)			507204	518598	528996	Tune-up limit (dBm)	MPR
80	Pi2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0
Channel								
	Frequency (MHz)			506202	518598	531000	Tune-up limit (dBm)	MPR
70	Pi2 BPSK	1	1	21.44	21.44	21.32	23.0	0.0
Channel								
	Frequency (MHz)			505200	518598	531996	Tune-up limit (dBm)	MPR
60	Pi2 BPSK	1	1	21.42	21.44	21.35	23.0	0.0
Channel								
	Frequency (MHz)			504204	518598	532998	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	21.37	21.35	21.31	23.0	0.0
Channel								
	Frequency (MHz)			503202	518598	534000	Tune-up limit (dBm)	MPR
40	Pi2 BPSK	1	1	21.59	21.44	21.27	23.0	0.0
Channel								
	Frequency (MHz)			502200	518598	534996	Tune-up limit (dBm)	MPR
30	Pi2 BPSK	1	1	21.57	21.37	21.31	23.0	0.0
Channel								
	Frequency (MHz)			501204	518598	535998	Tune-up limit (dBm)	MPR
20	Pi2 BPSK	1	1	21.56	21.37	21.31	23.0	0.0

n41_FCC_HPUE_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
	Frequency (MHz)			509202	518598	528000		
100	Pi2 BPSK	1	1	22.98	23.05	22.93	24.5	0.0
100	Pi2 BPSK	1	137	22.89	23.02	22.94		
100	Pi2 BPSK	1	271	22.86	22.86	22.89		
100	Pi2 BPSK	135	0	22.26	22.29	22.25	24.0	0.5
100	Pi2 BPSK	135	69	22.87	22.99	22.86	24.5	0.0
100	Pi2 BPSK	135	138	22.44	22.47	22.41	24.0	0.5
100	Pi2 BPSK	270	0	22.48	22.51	22.41		
100	QPSK	1	1	22.96	23.08	22.98	24.5	0.0
100	QPSK	1	137	22.95	23.05	22.97		
100	QPSK	1	271	23.03	23.04	22.96		
100	QPSK	135	0	22.86	22.91	22.81		
100	QPSK	135	69	22.82	22.85	22.88	24.5	0.0
100	QPSK	135	138	22.89	22.99	22.94		
100	QPSK	270	0	21.90	21.95	21.88	23.5	1.0
100	16QAM	1	1	22.04	22.08	22.05	23.5	1.0
100	16QAM	1	1	20.43	20.48	20.37	22.0	2.5
100	16QAM	1	1	18.18	18.32	18.29	20.0	4.5
Channel								
	Frequency (MHz)			508200	518598	528996	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0
Channel								
	Frequency (MHz)			507204	518598	528996	Tune-up limit (dBm)	MPR
80	Pi2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0
Channel								
	Frequency (MHz)			506202	518598	531000	Tune-up limit (dBm)	MPR
70	Pi2 BPSK	1	1	22.93	22.99	22.92	24.5	0.0
Channel								
	Frequency (MHz)			505200	518598	531996	Tune-up limit (dBm)	MPR
60	Pi2 BPSK	1	1	22.97	23.02	22.95	24.5	0.0
Channel								
	Frequency (MHz)			504204	518598	532998	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0
Channel								
	Frequency (MHz)			503202	518598	534000	Tune-up limit (dBm)	MPR
40	Pi2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
	Frequency (MHz)			502200	518598	534996	Tune-up limit (dBm)	MPR
30	Pi2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0
Channel								
	Frequency (MHz)			501204	518598	535998	Tune-up limit (dBm)	MPR
20	Pi2 BPSK	1	1	22.90	23.05	22.91	24.5	0.0



n41_FCC_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				509202	518598	528000		
100	P12 BPSK	1	1	21.46	21.47	21.44	23.0	0.0
100	P12 BPSK	1	137	21.44	21.51	21.49		
100	P12 BPSK	1	271	21.49	21.55	21.49		
100	P12 BPSK	135	0	20.59	20.92	20.92	22.5	0.5
100	P12 BPSK	135	69	21.44	21.46	21.42	23.0	0.0
100	P12 BPSK	135	138	20.50	21.01	20.88	22.5	0.5
100	P12 BPSK	270	0	20.58	20.93	20.88		
100	QPSK	1	1	21.47	21.85	21.55	23.0	0.0
100	QPSK	1	137	21.43	21.54	21.50		
100	QPSK	1	271	21.49	21.51	21.42		
100	QPSK	135	0	21.33	21.46	21.44		
100	QPSK	135	69	21.51	21.63	21.49	23.0	0.0
100	QPSK	135	138	21.42	21.50	21.41		
100	QPSK	270	0	20.37	20.33	20.37	22.0	1.0
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0
100	16QAM	1	1	18.80	18.94	18.90	20.5	2.5
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
50	P12 BPSK	1	1	21.46	21.47	21.37	23.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	P12 BPSK	1	1	21.43	21.44	21.39	23.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	P12 BPSK	1	1	21.42	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	P12 BPSK	1	1	21.41	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	P12 BPSK	1	1	21.40	21.43	21.41	23.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	P12 BPSK	1	1	21.48	21.43	21.35	23.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	P12 BPSK	1	1	20.11	20.92	20.74	23.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	23.42	21.42	21.40	23.0	0.0

n41_FCC_HPUE_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				509202	518598	528000		
100	P12 BPSK	1	1	22.91	23.02	23.00	24.5	0.0
100	P12 BPSK	1	137	22.98	23.03	23.01		
100	P12 BPSK	1	271	22.94	23.06	22.99		
100	P12 BPSK	135	0	22.46	22.49	22.38	24.0	0.5
100	P12 BPSK	135	69	23.04	23.09	23.08	24.5	0.0
100	P12 BPSK	135	138	22.52	22.62	22.61	24.0	0.5
100	P12 BPSK	270	0	22.46	22.58	22.52		
100	QPSK	1	1	23.03	23.12	22.99	24.5	0.0
100	QPSK	1	137	22.98	23.11	23.06		
100	QPSK	1	271	23.05	23.08	23.06		
100	QPSK	135	0	22.94	23.06	22.84		
100	QPSK	135	69	23.06	23.07	22.95	24.5	0.0
100	QPSK	135	138	22.91	23.02	22.90		
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.0
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
50	P12 BPSK	1	1	22.96	23.00	23.05	24.5	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	P12 BPSK	1	1	22.96	23.02	23.01	24.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	P12 BPSK	1	1	23.02	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	P12 BPSK	1	1	22.96	23.07	22.98	24.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	P12 BPSK	1	1	22.99	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	P12 BPSK	1	1	23.00	22.92	23.05	24.5	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	P12 BPSK	1	1	23.00	23.00	23.04	24.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	22.08	22.99	22.94	24.5	0.0



n41_FCC_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				2541.0	2592.99	2644.98		
100	P12 BPSK	1	1	16.53	16.53	16.50		
100	P12 BPSK	1	137	16.43	16.51	16.47	18.0	0.0
100	P12 BPSK	1	271	16.45	16.47	16.45		
100	P12 BPSK	135	0	16.43	16.48	16.50	18.0	0.0
100	P12 BPSK	135	69	16.46	16.50	16.48	18.0	0.0
100	P12 BPSK	135	138	16.46	16.50	16.42	18.0	0.0
100	P12 BPSK	270	0	16.48	16.49	16.42		
100	QPSK	1	1	16.05	16.83	16.56		
100	QPSK	1	137	16.50	16.59	16.51	18.0	0.0
100	QPSK	1	271	16.52	16.58	16.47		
100	QPSK	135	0	16.45	16.48	16.50		
100	QPSK	135	69	16.51	16.54	16.51	18.0	0.0
100	QPSK	135	138	16.48	16.47	16.47		
100	QPSK	270	0	16.49	16.51	16.49	18.0	0.0
100	16QAM	1	1	16.50	16.48	16.44	18.0	0.0
100	16QAM	1	1	16.45	16.48	16.46	18.0	0.0
100	256QAM	1	1	16.50	16.53	16.58	18.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.99	2744.98		
50	P12 BPSK	1	1	16.52	16.52	16.50	18.0	0.0
Channel				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2638102	2692.99	2744.98		
80	P12 BPSK	1	1	16.54	16.57	16.49	18.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631101	2692.99	2745		
70	P12 BPSK	1	1	16.54	16.51	16.53	18.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2624	2692.99	2744.98		
60	P12 BPSK	1	1	16.44	16.57	16.47	18.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611102	2692.99	2744.97		
50	P12 BPSK	1	1	16.43	16.54	16.49	18.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610101	2692.99	2745		
40	P12 BPSK	1	1	16.47	16.51	16.44	18.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2744.98		
30	P12 BPSK	1	1	16.52	16.62	16.47	18.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506102	2692.99	2773.99		
20	P12 BPSK	1	1	16.42	16.57	16.52	18.0	0.0

n41_FCC_HPUE_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				2641.0	2692.99	2744.98		
100	P12 BPSK	1	1	18.50	18.13	18.07		
100	P12 BPSK	1	137	18.09	18.13	18.04	19.5	0.0
100	P12 BPSK	1	271	18.06	18.12	18.05		
100	P12 BPSK	135	0	18.10	18.11	18.02	19.5	0.0
100	P12 BPSK	135	69	18.04	18.09	18.00	19.5	0.0
100	P12 BPSK	135	138	18.03	18.11	18.08	19.5	0.0
100	P12 BPSK	270	0	18.07	18.11	18.01		
100	QPSK	1	1	18.14	18.22	18.15		
100	QPSK	1	137	18.10	18.21	18.14	19.5	0.0
100	QPSK	1	271	18.08	18.10	18.13		
100	QPSK	135	0	18.06	18.11	18.03		
100	QPSK	135	69	18.12	18.15	18.09	19.5	0.0
100	QPSK	135	138	18.11	18.12	18.02		
100	QPSK	270	0	18.03	18.10	18.08	19.5	0.0
100	16QAM	1	1	18.05	18.14	18.05	19.5	0.0
100	16QAM	1	1	18.07	18.14	18.00	19.5	0.0
100	256QAM	1	1	18.10	18.08	18.05	19.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.99	2744.98		
50	P12 BPSK	1	1	18.05	18.13	18.05	19.5	0.0
Channel				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2638102	2692.99	2744.98		
80	P12 BPSK	1	1	18.04	18.09	18.02	19.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631101	2692.99	2745		
70	P12 BPSK	1	1	18.05	18.09	18.03	19.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2624	2692.99	2744.98		
60	P12 BPSK	1	1	18.11	18.14	18.02	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611102	2692.99	2744.97		
50	P12 BPSK	1	1	18.08	18.09	18.07	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610101	2692.99	2745		
40	P12 BPSK	1	1	18.03	18.14	18.05	19.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2744.98		
30	P12 BPSK	1	1	18.10	18.11	18.03	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506102	2692.99	2773.99		
20	P12 BPSK	1	1	18.08	18.09	18.05	19.5	0.0



UL MIMO Mode_State 7

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.15	14.30	14.14	15.5	0.0	
100	PI2 BPSK	1	137	14.18	14.22	14.25	15.5	0.0	
100	PI2 BPSK	1	271	14.13	14.33	14.23	15.5	0.0	
100	PI2 BPSK	135	0	14.20	14.26	14.24	15.5	0.0	
100	PI2 BPSK	135	69	14.15	14.24	14.24	15.5	0.0	
100	PI2 BPSK	135	135	14.15	14.32	14.14	15.5	0.0	
100	PI2 BPSK	270	0	14.09	14.21	14.21	15.5	0.0	
100	QPSK	1	1	14.33	14.42	14.32	15.5	0.0	
100	QPSK	1	137	14.18	14.25	14.27	15.5	0.0	
100	QPSK	1	271	14.25	14.35	14.30	15.5	0.0	
100	QPSK	135	0	14.16	14.27	14.19	15.5	0.0	
100	QPSK	135	69	14.22	14.39	14.27	15.5	0.0	
100	QPSK	135	135	14.25	14.35	14.17	15.5	0.0	
100	QPSK	270	0	14.13	14.28	14.14	15.5	0.0	
100	16QAM	1	1	14.24	14.33	14.17	15.5	0.0	
100	16QAM	1	1	14.10	14.26	14.22	15.5	0.0	
100	256QAM	1	1	14.17	14.29	14.11	15.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	14.27	14.33	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	14.24	14.31	14.29	15.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	14.24	14.37	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	14.20	14.36	14.24	15.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.25	14.41	14.21	15.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.30	14.30	14.30	15.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.23	14.25	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.25	14.35	14.20	15.5	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.40	15.54	15.52	17.0	0.0	
100	PI2 BPSK	1	137	15.41	15.51	15.52	17.0	0.0	
100	PI2 BPSK	1	271	15.38	15.53	15.48	17.0	0.0	
100	PI2 BPSK	135	0	15.37	15.45	15.43	17.0	0.0	
100	PI2 BPSK	135	69	15.40	15.45	15.47	17.0	0.0	
100	PI2 BPSK	135	135	15.47	15.53	15.47	17.0	0.0	
100	PI2 BPSK	270	0	15.45	15.56	15.50	17.0	0.0	
100	QPSK	1	1	15.57	15.62	15.53	17.0	0.0	
100	QPSK	1	137	15.47	15.61	15.48	17.0	0.0	
100	QPSK	1	271	15.49	15.55	15.56	17.0	0.0	
100	QPSK	135	0	15.42	15.55	15.41	17.0	0.0	
100	QPSK	135	69	15.30	15.37	15.45	17.0	0.0	
100	QPSK	135	135	15.41	15.45	15.47	17.0	0.0	
100	QPSK	270	0	15.41	15.52	15.43	17.0	0.0	
100	16QAM	1	1	15.47	15.55	15.47	17.0	0.0	
100	16QAM	1	1	15.39	15.57	15.51	17.0	0.0	
100	256QAM	1	1	15.44	15.54	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.46	15.53	15.41	17.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	15.49	15.55	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	15.51	15.62	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	15.47	15.60	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	15.49	15.60	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.51	15.53	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	15.52	15.56	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	15.45	15.51	15.47	17.0	0.0	



n41_FCC_Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				509202	518598	528000				
Frequency (MHz)				2546.04	2592.89	2640				
100	PV2 BPSK	1	1	21.36	21.45	21.38				
100	PV2 BPSK	1	137	21.41	21.46	21.41				
100	PV2 BPSK	1	271	21.38	21.49	21.43	23.0	0.0		
100	PV2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5		
100	PV2 BPSK	135	69	21.37	21.42	21.34	23.0	0.0		
100	PV2 BPSK	135	198	20.83	20.91	20.89	22.5	0.5		
100	PV2 BPSK	270	0	20.79	20.88	20.81				
100	QPSK	1	1	21.44	21.51	21.38				
100	QPSK	1	137	21.38	21.50	21.37	23.0	0.0		
100	QPSK	1	271	21.53	21.45	21.36				
100	QPSK	135	0	21.22	21.34	21.33				
100	QPSK	135	69	21.44	21.46	21.33	23.0	0.0		
100	QPSK	135	198	21.40	21.43	21.30				
100	QPSK	270	0	20.36	20.36	20.24	22.0	1.0		
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0		
100	16QAM	1	1	18.82	18.86	18.72	20.5	2.5		
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2641	2692.86	2644.08				
50	PV2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0		
Channel				507204	518598	528998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2656.02	2692.89	2648.99				
50	PV2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2671.01	2692.89	2645				
70	PV2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2686	2692.89	2648.98				
60	PV2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2691.02	2692.89	2648.99				
50	PV2 BPSK	1	1	21.37	21.38	21.31	23.0	0.0		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2716.01	2702.89	2710				
40	PV2 BPSK	1	1	21.59	21.44	21.27	23.0	0.0		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2731	2702.89	2714.98				
30	PV2 BPSK	1	1	21.57	21.37	21.31	23.0	0.0		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2746.02	2702.89	2718.97				
20	PV2 BPSK	1	1	21.56	21.37	21.31	23.0	0.0		

n41_FCC_HPUE_Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				509202	518598	528000				
Frequency (MHz)				2546.04	2592.89	2640				
100	PV2 BPSK	1	1	22.98	23.05	22.93				
100	PV2 BPSK	1	137	22.89	23.02	22.94	24.5	0.0		
100	PV2 BPSK	1	271	22.86	22.98	22.89				
100	PV2 BPSK	135	0	22.26	22.35	22.25	24.0	0.5		
100	PV2 BPSK	135	69	22.87	22.99	22.86	24.5	0.0		
100	PV2 BPSK	135	198	22.44	22.47	22.41	24.0	0.5		
100	PV2 BPSK	270	0	22.48	22.51	22.41				
100	QPSK	1	1	22.96	23.08	22.98				
100	QPSK	1	137	22.85	23.06	22.97	24.5	0.0		
100	QPSK	1	271	23.03	23.04	22.98				
100	QPSK	135	0	22.86	22.91	22.81				
100	QPSK	135	69	22.82	22.95	22.88	24.5	0.0		
100	QPSK	135	198	22.89	22.99	22.94				
100	QPSK	270	0	21.80	21.96	21.86	23.5	1.0		
100	16QAM	1	1	22.04	22.08	22.05	23.5	1.0		
100	16QAM	1	1	20.43	20.49	20.37	22.0	2.5		
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2641	2692.86	2644.08				
50	PV2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0		
Channel				507204	518598	528998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2656.02	2692.89	2648.99				
50	PV2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0		
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2671.01	2692.89	2645				
70	PV2 BPSK	1	1	22.98	22.99	22.92	24.5	0.0		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2686	2692.89	2648.98				
60	PV2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2691.02	2692.89	2648.99				
50	PV2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2716.01	2702.89	2710				
40	PV2 BPSK	1	1	22.97	23.02	22.95	24.5	0.0		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2731	2702.89	2714.98				
30	PV2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2746.02	2702.89	2718.97				
20	PV2 BPSK	1	1	22.90	23.02	22.91	24.5	0.0		



n41_FCC_AnT1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.04	2592.89	2640		
100	PV2 BPSK	1	1	21.46	21.47	21.44		
100	PV2 BPSK	1	137	21.44	21.51	21.49		0.0
100	PV2 BPSK	1	271	21.49	21.58	21.49		
100	PV2 BPSK	135	0	20.89	20.92	20.92	22.5	0.5
100	PV2 BPSK	135	69	21.44	21.46	21.42	23.0	0.0
100	PV2 BPSK	135	198	20.90	21.01	20.88	22.5	0.5
100	PV2 BPSK	270	0	20.88	20.93	20.88		
100	QPSK	1	1	21.47	21.65	21.55		
100	QPSK	1	137	21.43	21.54	21.50	23.0	0.0
100	QPSK	1	271	21.59	21.51	21.42		
100	QPSK	135	0	21.33	21.46	21.44		
100	QPSK	135	69	21.31	21.63	21.49	23.0	0.0
100	QPSK	135	198	21.62	21.50	21.41		
100	QPSK	270	0	20.37	20.38	20.37	22.0	1.0
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0
100	16QAM	1	1	18.60	18.94	18.90	20.5	2.5
100	256QAM	1	1	18.72	18.87	18.76	18.5	4.5
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.86	2644.08		
50	PV2 BPSK	1	1	21.46	21.47	21.37	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2692.02	2692.89	2693.99		
50	PV2 BPSK	1	1	21.43	21.44	21.39	23.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2742.04	2692.89	2645		
70	PV2 BPSK	1	1	21.42	21.43	21.37	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2792	2692.89	2648.08		
60	PV2 BPSK	1	1	21.41	21.43	21.37	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2842.02	2692.89	2644.99		
50	PV2 BPSK	1	1	21.40	21.43	21.41	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2891.01	2692.89	2670		
40	PV2 BPSK	1	1	21.48	21.43	21.36	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2941	2692.89	2644.98		
30	PV2 BPSK	1	1	21.43	21.42	21.35	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2991.02	2692.89	2671.97		
20	PV2 BPSK	1	1	21.43	21.43	21.40	23.0	0.0

n41_FCC_HPUE_AnT1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.04	2592.89	2640		
100	PV2 BPSK	1	1	22.91	23.02	23.00		
100	PV2 BPSK	1	137	22.98	23.03	23.01	24.5	0.0
100	PV2 BPSK	1	271	22.94	23.08	22.99		
100	PV2 BPSK	135	0	22.46	22.49	22.38	24.0	0.5
100	PV2 BPSK	135	69	23.04	23.09	23.08	24.5	0.0
100	PV2 BPSK	135	198	22.92	22.82	22.81	24.0	0.5
100	PV2 BPSK	270	0	22.46	22.58	22.52		
100	QPSK	1	1	23.03	23.12	22.99		
100	QPSK	1	137	22.98	23.11	23.06	24.5	0.0
100	QPSK	1	271	23.05	23.08	23.06		
100	QPSK	135	0	22.94	22.96	22.84		
100	QPSK	135	69	23.06	23.07	22.95	24.5	0.0
100	QPSK	135	198	22.91	23.02	22.99		
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.0
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.86	2644.08		
50	PV2 BPSK	1	1	22.96	23.00	23.05	24.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2692.02	2692.89	2693.99		
50	PV2 BPSK	1	1	22.96	23.02	23.01	24.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2742.04	2692.89	2645		
70	PV2 BPSK	1	1	23.02	23.04	22.98	24.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2792	2692.89	2648.08		
60	PV2 BPSK	1	1	22.96	23.07	22.98	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2842.02	2692.89	2644.99		
50	PV2 BPSK	1	1	22.96	23.04	22.98	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2891.01	2692.89	2670		
40	PV2 BPSK	1	1	23.00	22.99	23.05	24.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2941	2692.89	2644.98		
30	PV2 BPSK	1	1	23.00	23.00	23.04	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2991.02	2692.89	2671.97		
20	PV2 BPSK	1	1	22.98	22.99	23.04	24.5	0.0



n41_FCC_Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				503202	518598	526500				
2564.04				2592.89	2640					
100	PV2 BPSK	1	1	14.42	14.48	14.41				
100	PV2 BPSK	1	137	14.37	14.45	14.45	16.0	0.0		
100	PV2 BPSK	1	211	14.38	14.38	14.42				
100	PV2 BPSK	135	0	14.40	14.35	14.40	16.0	0.0		
100	PV2 BPSK	135	69	14.44	14.39	14.37	16.0	0.0		
100	PV2 BPSK	135	158	14.41	14.46	14.39	16.0	0.0		
100	PV2 BPSK	270	0	14.41	14.41	14.36				
100	QPSK	1	1	14.48	14.60	14.49				
100	QPSK	1	137	14.43	14.52	14.48	16.0	0.0		
100	QPSK	1	211	14.58	14.65	14.40				
100	QPSK	135	0	14.36	14.48	14.42				
100	QPSK	135	69	14.46	14.45	14.48	16.0	0.0		
100	QPSK	135	158	14.38	14.39	14.45				
100	QPSK	270	0	14.44	14.46	14.45	16.0	0.0		
100	16QAM	1	1	14.42	14.35	14.36	16.0	0.0		
100	16QAM	1	1	14.33	14.43	14.41	16.0	0.0		
100	256QAM	1	1	14.40	14.52	14.53	16.0	0.0		
Channel										
Frequency (MHz)				508200	518598	523996	Tune-up limit (dBm)	MPR (dB)		
2564				2592.89	2645.08					
50	PV2 BPSK	1	1	14.45	14.55	14.48	16.0	0.0		
Channel										
Frequency (MHz)				507204	518598	523998	Tune-up limit (dBm)	MPR (dB)		
2606.02				2602.89	2649.99					
50	PV2 BPSK	1	1	14.46	14.51	14.39	16.0	0.0		
Channel										
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)		
2638.01				2602.89	2649.99					
70	PV2 BPSK	1	1	14.37	14.49	14.47	16.0	0.0		
Channel										
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)		
2670				2602.89	2649.99					
60	PV2 BPSK	1	1	14.36	14.53	14.45	16.0	0.0		
Channel										
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
2702.02				2602.89	2649.99					
50	PV2 BPSK	1	1	14.40	14.53	14.40	16.0	0.0		
Channel										
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)		
2734.03				2602.89	2649.99					
40	PV2 BPSK	1	1	14.47	14.54	14.42	16.0	0.0		
Channel										
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)		
2766.02				2602.89	2649.99					
30	PV2 BPSK	1	1	14.58	14.59	14.47	16.0	0.0		
Channel										
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)		
2798.02				2602.89	2649.99					
20	PV2 BPSK	1	1	14.45	14.49	14.40	16.0	0.0		

n41_FCC_HPUE_Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				509202	518598	526500				
2564.04				2592.89	2640					
100	PV2 BPSK	1	1	16.06	16.03	15.97				
100	PV2 BPSK	1	137	16.08	16.03	15.93	17.5	0.0		
100	PV2 BPSK	1	211	16.01	16.08	16.05				
100	PV2 BPSK	135	0	16.06	16.05	16.01	17.5	0.0		
100	PV2 BPSK	135	69	15.94	15.98	15.88	17.5	0.0		
100	PV2 BPSK	135	158	16.05	16.04	15.96	17.5	0.0		
100	PV2 BPSK	270	0	16.05	16.03	15.98				
100	QPSK	1	1	16.06	16.19	16.11				
100	QPSK	1	137	16.08	16.15	16.08	17.5	0.0		
100	QPSK	1	211	16.04	16.07	16.07				
100	QPSK	135	0	15.99	16.01	15.97				
100	QPSK	135	69	16.03	16.08	15.97	17.5	0.0		
100	QPSK	135	158	16.05	16.01	15.96				
100	QPSK	270	0	15.94	16.08	16.07	17.5	0.0		
100	16QAM	1	1	15.97	16.08	16.01	17.5	0.0		
100	16QAM	1	1	16.02	16.06	15.92	17.5	0.0		
100	256QAM	1	1	16.07	16.01	16.03	17.5	0.0		
Channel										
Frequency (MHz)				508200	518598	523996	Tune-up limit (dBm)	MPR (dB)		
2564				2592.89	2645.08					
50	PV2 BPSK	1	1	15.94	16.14	16.02	17.5	0.0		
Channel										
Frequency (MHz)				507204	518598	523998	Tune-up limit (dBm)	MPR (dB)		
2606.02				2602.89	2649.99					
50	PV2 BPSK	1	1	16.01	16.15	16.02	17.5	0.0		
Channel										
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)		
2638.01				2602.89	2649.99					
70	PV2 BPSK	1	1	16.02	16.13	16.02	17.5	0.0		
Channel										
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)		
2670				2602.89	2649.99					
60	PV2 BPSK	1	1	15.96	16.07	16.04	17.5	0.0		
Channel										
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
2702.02				2602.89	2649.99					
50	PV2 BPSK	1	1	16.03	16.13	16.10	17.5	0.0		
Channel										
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)		
2734.03				2602.89	2649.99					
40	PV2 BPSK	1	1	15.94	16.17	16.05	17.5	0.0		
Channel										
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)		
2766.02				2602.89	2649.99					
30	PV2 BPSK	1	1	15.95	16.14	15.99	17.5	0.0		
Channel										
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)		
2798.02				2602.89	2649.99					
20	PV2 BPSK	1	1	16.04	16.08	16.05	17.5	0.0		



UL MIMO Mode_State 10&9

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
100	PI2 BPSK	1	1	21.36	21.45	21.38			
100	PI2 BPSK	1	137	21.41	21.46	21.41	23.0	0.0	
100	PI2 BPSK	1	271	21.36	21.45	21.43			
100	PI2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5	
100	PI2 BPSK	135	66	21.37	21.42	21.34	23.0	0.0	
100	PI2 BPSK	135	138	20.83	20.91	20.89	22.5	0.5	
100	PI2 BPSK	270	0	20.79	20.88	20.81			
100	QPSK	1	1	21.44	21.51	21.38	23.0	0.0	
100	QPSK	1	137	21.38	21.50	21.37			
100	QPSK	1	271	21.43	21.45	21.30			
100	QPSK	135	0	21.22	21.34	21.33			
100	QPSK	135	66	21.44	21.46	21.33	23.0	0.0	
100	QPSK	135	138	21.40	21.43	21.30			
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0	
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0	
100	64QAM	1	1	18.82	18.86	18.72	20.5	2.5	
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	21.36	21.42	21.27	23.0	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	21.40	21.42	21.30	23.0	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	21.37	21.36	21.31	23.0	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	21.39	21.44	21.27	23.0	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	21.38	21.37	21.31	23.0	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
100	PI2 BPSK	1	1	22.98	23.05	22.93			
100	PI2 BPSK	1	137	22.89	23.02	22.94	24.5	0.0	
100	PI2 BPSK	1	271	22.96	22.96	22.89			
100	PI2 BPSK	135	0	22.26	22.39	22.29	24.0	0.5	
100	PI2 BPSK	135	66	22.87	22.99	22.86	24.5	0.0	
100	PI2 BPSK	135	138	22.44	22.47	22.41	24.0	0.5	
100	PI2 BPSK	270	0	22.48	22.51	22.41			
100	QPSK	1	1	22.96	23.08	22.88	24.5	0.0	
100	QPSK	1	137	22.95	23.06	22.87			
100	QPSK	1	271	23.03	23.04	22.90			
100	QPSK	135	0	22.88	22.91	22.81			
100	QPSK	135	66	22.82	22.95	22.88	24.5	0.0	
100	QPSK	135	138	22.89	22.99	22.84			
100	QPSK	270	0	21.80	21.96	21.86	23.5	1.0	
100	16QAM	1	1	22.04	22.08	22.08	23.5	1.0	
100	64QAM	1	1	20.43	20.48	20.37	22.0	2.5	
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	22.88	22.99	22.92	24.5	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	22.90	23.05	22.91	24.5	0.0	



n41_FCC_Ant8

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)								
100	Pi2 BPSK	1	1	21.36	21.45	21.38	23.0	0.0
100	Pi2 BPSK	1	137	21.41	21.46	21.41		
100	Pi2 BPSK	1	271	21.35	21.43	21.43		
100	Pi2 BPSK	135	0	20.84	20.85	20.77		
100	Pi2 BPSK	135	69	21.37	21.42	21.34	23.0	0.0
100	Pi2 BPSK	135	138	20.83	20.83	20.82	22.5	0.5
100	Pi2 BPSK	270	0	20.79	20.85	20.81		
100	QPSK	1	11	21.44	21.51	21.38	23.0	0.0
100	QPSK	1	137	21.38	21.50	21.37		
100	QPSK	1	271	21.43	21.45	21.36	23.0	0.0
100	QPSK	135	0	21.22	21.34	21.33		
100	QPSK	135	69	21.44	21.46	21.33		
100	QPSK	135	138	21.40	21.43	21.30		
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0
100	16QAM	1	1	18.82	18.85	18.72		
100	256QAM	1	1	18.77	18.81	18.78	20.5	2.5
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	21.37	21.36	21.31	23.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	21.39	21.44	21.27	23.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	21.36	21.37	21.31	23.0	0.0
Channel								
Frequency (MHz)								

n41_FCC_HPUE_Ant8

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)								
100	Pi2 BPSK	1	1	22.88	23.05	22.93	24.5	0.0
100	Pi2 BPSK	1	137	22.88	23.02	22.94		
100	Pi2 BPSK	1	271	22.86	22.98	22.85		
100	Pi2 BPSK	135	0	22.26	22.35	22.29		
100	Pi2 BPSK	135	69	22.87	22.99	22.86	24.0	0.5
100	Pi2 BPSK	135	138	22.44	22.47	22.41		
100	Pi2 BPSK	270	0	22.48	22.51	22.41	24.0	0.5
100	QPSK	1	11	22.96	23.08	22.98		
100	QPSK	1	137	22.96	23.06	22.97	24.5	0.0
100	QPSK	1	271	23.03	23.04	22.98		
100	QPSK	135	0	22.86	22.91	22.81	24.5	0.0
100	QPSK	135	69	22.82	22.95	22.88		
100	QPSK	135	138	22.89	22.99	22.94		
100	QPSK	270	0	21.90	21.96	21.86		
100	16QAM	1	1	22.84	23.08	22.85	23.5	1.0
100	16QAM	1	1	20.43	20.45	20.37		
100	256QAM	1	1	18.18	18.32	18.29	22.0	2.5
100	256QAM	1	1	16.18	16.32	16.29	20.0	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	22.88	22.99	22.92	24.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	22.90	23.05	22.91	24.5	0.0
Channel								
Frequency (MHz)								



n41_FCC_Ant1

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)										
100	Pi2 BPSK	1	1	21.46	21.47	21.44	23.0	0.0		
100	Pi2 BPSK	1	137	21.44	21.51	21.49				
100	Pi2 BPSK	1	271	21.49	21.50	21.48				
100	Pi2 BPSK	135	0	20.89	20.92	20.82				
100	Pi2 BPSK	135	69	21.44	21.46	21.42	23.0	0.0		
100	Pi2 BPSK	135	138	20.90	21.01	20.88	22.5	0.5		
100	Pi2 BPSK	270	0	20.88	20.93	20.88				
100	QPSK	1	11	21.60	21.65	21.55	23.0	0.0		
100	QPSK	1	137	21.43	21.54	21.50				
100	QPSK	1	271	21.49	21.51	21.42	23.0	0.0		
100	QPSK	135	0	21.53	21.46	21.44				
100	QPSK	135	69	21.51	21.63	21.49				
100	QPSK	135	138	21.42	21.50	21.41				
100	QPSK	270	0	20.37	20.39	20.37	22.0	1.0		
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0		
100	16QAM	1	1	18.80	18.94	18.90				
100	256QAM	1	1	18.72	18.87	18.76	18.5	4.5		
Channel										
Frequency (MHz)										
90	Pi2 BPSK	1	1	21.46	21.47	21.44	23.0	0.0		
Channel										
Frequency (MHz)										
80	Pi2 BPSK	1	1	21.43	21.44	21.39				
Channel										
Frequency (MHz)										
70	Pi2 BPSK	1	1	21.42	21.43	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
60	Pi2 BPSK	1	1	21.41	21.43	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
50	Pi2 BPSK	1	1	21.40	21.43	21.41	23.0	0.0		
Channel										
Frequency (MHz)										
40	Pi2 BPSK	1	1	21.48	21.43	21.36	23.0	0.0		
Channel										
Frequency (MHz)										
30	Pi2 BPSK	1	1	21.43	21.42	21.39	23.0	0.0		
Channel										
Frequency (MHz)										
20	Pi2 BPSK	1	1	21.43	21.43	21.40	23.0	0.0		
Channel										
Frequency (MHz)										

n41_FCC_HPUE_Ant1

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)										
100	Pi2 BPSK	1	1	22.81	23.02	23.00	24.5	0.0		
100	Pi2 BPSK	1	137	22.88	23.03	23.01				
100	Pi2 BPSK	1	271	22.94	23.06	22.96				
100	Pi2 BPSK	135	0	22.46	22.49	22.38				
100	Pi2 BPSK	135	69	23.04	23.09	23.08	24.5	0.0		
100	Pi2 BPSK	135	138	22.52	22.62	22.41	24.0	0.5		
100	Pi2 BPSK	270	0	22.46	22.38	22.52				
100	QPSK	1	11	23.03	23.12	22.99	24.5	0.0		
100	QPSK	1	137	22.88	23.11	23.05				
100	QPSK	1	271	23.05	23.08	23.06	24.5	0.0		
100	QPSK	135	0	22.84	22.86	22.84				
100	QPSK	135	69	23.06	23.07	22.95				
100	QPSK	135	138	22.81	23.02	22.99				
100	QPSK	270	0	22.60	22.11	22.02	23.5	1.0		
100	16QAM	1	1	22.24	22.28	22.12	23.5	1.0		
100	16QAM	1	1	20.32	20.41	20.32				
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5		
Channel										
Frequency (MHz)										
90	Pi2 BPSK	1	1	22.96	23.00	23.05	24.5	0.0		
Channel										
Frequency (MHz)										
80	Pi2 BPSK	1	1	22.96	23.02	23.01				
Channel										
Frequency (MHz)										
70	Pi2 BPSK	1	1	23.02	23.02	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
60	Pi2 BPSK	1	1	22.96	23.07	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
50	Pi2 BPSK	1	1	22.96	23.04	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
40	Pi2 BPSK	1	1	23.00	22.99	23.05	24.5	0.0		
Channel										
Frequency (MHz)										
30	Pi2 BPSK	1	1	23.00	23.00	23.04	24.5	0.0		
Channel										
Frequency (MHz)										
20	Pi2 BPSK	1	1	22.98	22.99	23.04	24.5	0.0		
Channel										
Frequency (MHz)										



n41_FCC_Ant2

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)										
100	Pi2 BPSK	1	1	21.46	21.47	21.44	23.0	0.0		
100	Pi2 BPSK	1	137	21.44	21.51	21.49				
100	Pi2 BPSK	1	271	21.49	21.50	21.48				
100	Pi2 BPSK	135	0	20.89	20.92	20.82				
100	Pi2 BPSK	135	69	21.44	21.46	21.42	23.0	0.0		
100	Pi2 BPSK	135	138	20.90	21.01	20.88				
100	Pi2 BPSK	270	0	20.88	20.93	20.88	22.5	0.5		
100	QPSK	1	11	21.47	21.65	21.55				
100	QPSK	1	137	21.43	21.54	21.50	23.0	0.0		
100	QPSK	1	271	21.49	21.51	21.42				
100	QPSK	135	0	21.53	21.46	21.44	23.0	0.0		
100	QPSK	135	69	21.51	21.63	21.49				
100	QPSK	135	138	21.42	21.50	21.41				
100	QPSK	270	0	20.37	20.39	20.37				
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0		
100	16QAM	1	1	18.80	18.94	18.90				
100	256QAM	1	1	18.72	18.87	18.76	18.5	4.5		
Channel				50820	51898	52996				
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)		
90	Pi2 BPSK	1	1	21.46	21.47	21.37	23.0	0.0		
Channel				507204	51896	52998				
Frequency (MHz)				2536.92	2592.99	2648.99			Tune-up limit (dBm)	MPR (dB)
80	Pi2 BPSK	1	1	21.43	21.44	21.39			23.0	0.0
Channel				505202	51896	531000				
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)		
70	Pi2 BPSK	1	1	21.42	21.43	21.37	23.0	0.0		
Channel				505200	51896	531996				
Frequency (MHz)				2525	2592.99	2653.98			Tune-up limit (dBm)	MPR (dB)
60	Pi2 BPSK	1	1	21.41	21.43	21.37			23.0	0.0
Channel				504204	51896	532998				
Frequency (MHz)				2519.10	2592.99	2645.98	Tune-up limit (dBm)	MPR (dB)		
50	Pi2 BPSK	1	1	21.40	21.43	21.41	23.0	0.0		
Channel				503202	51896	534000				
Frequency (MHz)				2516.01	2592.99	2643			Tune-up limit (dBm)	MPR (dB)
40	Pi2 BPSK	1	1	21.48	21.43	21.36			23.0	0.0
Channel				502200	51896	534996				
Frequency (MHz)				2511	2592.99	2641.98	Tune-up limit (dBm)	MPR (dB)		
30	Pi2 BPSK	1	1	21.43	21.42	21.39	23.0	0.0		
Channel				501204	51896	535998				
Frequency (MHz)				2508.02	2592.99	2639.99			Tune-up limit (dBm)	MPR (dB)
20	Pi2 BPSK	1	1	21.43	21.43	21.40			23.0	0.0
Channel				500202	51896	536996				
Frequency (MHz)				2504.02	2592.99	2637.99	Tune-up limit (dBm)	MPR (dB)		

n41_FCC_HPUE_Ant2

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)										
100	Pi2 BPSK	1	1	22.81	23.02	23.00	24.5	0.0		
100	Pi2 BPSK	1	137	22.88	23.03	23.01				
100	Pi2 BPSK	1	271	22.94	23.06	22.96				
100	Pi2 BPSK	135	0	22.46	22.49	22.38				
100	Pi2 BPSK	135	69	23.04	23.09	23.08	24.5	0.0		
100	Pi2 BPSK	135	138	22.52	22.62	22.41				
100	Pi2 BPSK	270	0	22.46	22.38	22.32	24.0	0.5		
100	QPSK	1	11	23.03	23.12	22.99				
100	QPSK	1	137	22.98	23.11	23.05	24.5	0.0		
100	QPSK	1	271	23.05	23.08	23.06				
100	QPSK	135	0	22.84	22.86	22.84	24.5	0.0		
100	QPSK	135	69	23.06	23.07	22.95				
100	QPSK	135	138	22.81	23.02	22.99				
100	QPSK	270	0	22.00	22.11	22.02				
100	16QAM	1	1	22.24	22.28	22.12	23.5	1.0		
100	16QAM	1	1	20.32	20.41	20.32				
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5		
Channel				508200	51898	52996				
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)		
90	Pi2 BPSK	1	1	22.96	23.00	23.05	24.5	0.0		
Channel				507204	51896	52998				
Frequency (MHz)				2536.92	2592.99	2648.99			Tune-up limit (dBm)	MPR (dB)
80	Pi2 BPSK	1	1	22.96	23.02	23.01			24.5	0.0
Channel				505202	51896	531000				
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)		
70	Pi2 BPSK	1	1	23.02	23.04	22.98	24.5	0.0		
Channel				505200	51896	531996				
Frequency (MHz)				2525	2592.99	2653.98			Tune-up limit (dBm)	MPR (dB)
60	Pi2 BPSK	1	1	22.96	23.07	22.98			24.5	0.0
Channel				504204	51896	532998				
Frequency (MHz)				2519.10	2592.99	2645.98	Tune-up limit (dBm)	MPR (dB)		
50	Pi2 BPSK	1	1	22.96	23.04	22.98	24.5	0.0		
Channel				503202	51896	534000				
Frequency (MHz)				2516.01	2592.99	2643			Tune-up limit (dBm)	MPR (dB)
40	Pi2 BPSK	1	1	23.00	22.99	23.05			24.5	0.0
Channel				502200	51896	534996				
Frequency (MHz)				2511	2592.99	2641.98	Tune-up limit (dBm)	MPR (dB)		
30	Pi2 BPSK	1	1	23.00	23.00	23.04	24.5	0.0		
Channel				501204	51896	535998				
Frequency (MHz)				2508.02	2592.99	2639.99			Tune-up limit (dBm)	MPR (dB)
20	Pi2 BPSK	1	1	22.98	22.99	23.04			24.5	0.0
Channel				500202	51896	536996				
Frequency (MHz)				2504.02	2592.99	2637.99	Tune-up limit (dBm)	MPR (dB)		



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n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPP (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.15	14.30	14.14			
100	PI2 BPSK	1	137	14.18	14.32	14.25			
100	PI2 BPSK	1	271	14.13	14.33	14.23	15.5	0.0	
100	PI2 BPSK	135	0	14.20	14.26	14.24	15.5	0.0	
100	PI2 BPSK	135	65	14.15	14.24	14.24	15.5	0.0	
100	PI2 BPSK	135	138	14.15	14.32	14.14	15.5	0.0	
100	PI2 BPSK	270	0	14.09	14.21	14.21	15.5	0.0	
100	QPSK	1	1	14.33	14.42	14.32			
100	QPSK	1	137	14.18	14.25	14.27	15.5	0.0	
100	QPSK	1	271	14.26	14.36	14.30			
100	QPSK	135	0	14.16	14.27	14.19			
100	QPSK	135	65	14.22	14.38	14.27	15.5	0.0	
100	QPSK	135	138	14.25	14.36	14.37			
100	QPSK	270	0	14.13	14.28	14.14	15.5	0.0	
100	64QAM	1	1	14.24	14.33	14.17	15.5	0.0	
100	64QAM	1	1	14.10	14.26	14.22	15.5	0.0	
100	256QAM	1	1	14.17	14.29	14.11	15.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	14.27	14.33	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	14.24	14.31	14.29	15.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	14.24	14.37	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	14.29	14.36	14.24	15.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.25	14.41	14.21	15.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.30	14.30	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.29	14.39	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.25	14.38	14.20	15.5	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPP (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.40	15.54	15.52			
100	PI2 BPSK	1	137	15.41	15.51	15.52			
100	PI2 BPSK	1	271	15.38	15.53	15.45	17.0	0.0	
100	PI2 BPSK	135	0	15.37	15.45	15.43	17.0	0.0	
100	PI2 BPSK	135	65	15.40	15.45	15.47	17.0	0.0	
100	PI2 BPSK	135	138	15.47	15.53	15.47	17.0	0.0	
100	PI2 BPSK	270	0	15.46	15.56	15.40	17.0	0.0	
100	QPSK	1	1	15.57	15.62	15.53			
100	QPSK	1	137	15.47	15.61	15.48	17.0	0.0	
100	QPSK	1	271	15.49	15.55	15.46			
100	QPSK	135	0	15.42	15.59	15.41			
100	QPSK	135	65	15.50	15.57	15.45	17.0	0.0	
100	QPSK	135	138	15.41	15.45	15.47			
100	QPSK	270	0	15.41	15.52	15.43	17.0	0.0	
100	64QAM	1	1	15.47	15.55	15.47	17.0	0.0	
100	64QAM	1	1	15.39	15.57	15.51	17.0	0.0	
100	256QAM	1	1	15.44	15.54	15.43	17.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.46	15.53	15.41	17.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	15.49	15.55	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	15.51	15.52	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	15.47	15.60	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	15.49	15.60	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.51	15.53	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	15.55	15.56	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	15.45	15.51	15.47	17.0	0.0	



n41_FCC_Ant8												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up Int (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
100	PVZ BPSK	1	1	21.36	21.45	21.38	23.0	0.0				
100	PVZ BPSK	1	137	21.41	21.48	21.41						
100	PVZ BPSK	1	271	21.36	21.45	21.43						
100	PVZ BPSK	135	0	20.84	20.85	20.77	22.5	0.5				
100	PVZ BPSK	135	69	21.37	21.42	21.34						
100	PVZ BPSK	135	138	20.83	20.91	20.89						
100	PVZ BPSK	270	0	20.79	20.89	20.81	22.5	0.5				
100	QPSK	1	1	21.44	21.51	21.36						
100	QPSK	1	137	21.38	21.50	21.37						
100	QPSK	1	271	21.43	21.45	21.36	23.0	0.0				
100	QPSK	135	0	21.42	21.34	21.43						
100	QPSK	135	69	21.44	21.46	21.33						
100	QPSK	135	138	21.40	21.43	21.30	22.0	1.0				
100	QPSK	270	0	20.36	20.24	20.14						
100	16QAM	1	1	20.13	20.24	20.14						
100	16QAM	1	1	18.82	18.86	18.72	20.5	2.5				
100	256QAM	1	1	16.77	16.81	16.76						
100	256QAM	1	1	16.77	16.81	16.76						
Channel												
Frequency (MHz)												
90	PVZ BPSK	1	1	25.41	25.92	25.44	23.0	0.0				
Channel												
Frequency (MHz)												
80	PVZ BPSK	1	1	21.40	21.42	21.35	23.0	0.0				
Channel												
Frequency (MHz)												
70	PVZ BPSK	1	1	25.31	25.92	25.55	23.0	0.0				
Channel												
Frequency (MHz)												
60	PVZ BPSK	1	1	21.42	21.44	21.32	23.0	0.0				
Channel												
Frequency (MHz)												
50	PVZ BPSK	1	1	21.37	21.36	21.31	23.0	0.0				
Channel												
Frequency (MHz)												
40	PVZ BPSK	1	1	21.39	21.44	21.27	23.0	0.0				
Channel												
Frequency (MHz)												
30	PVZ BPSK	1	1	21.37	21.37	21.31	23.0	0.0				
Channel												
Frequency (MHz)												
20	PVZ BPSK	1	1	21.36	21.37	21.31	23.0	0.0				
Channel												
Frequency (MHz)												

n41_FCC_HPUE_Ant8												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up Int (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
100	PVZ BPSK	1	1	22.98	23.05	22.93	24.5	0.0				
100	PVZ BPSK	1	137	22.89	23.02	22.94						
100	PVZ BPSK	1	271	22.98	22.98	22.89						
100	PVZ BPSK	135	0	22.26	22.39	22.29	24.0	0.5				
100	PVZ BPSK	135	69	22.87	22.99	22.86						
100	PVZ BPSK	135	138	22.44	22.47	22.41						
100	PVZ BPSK	270	0	22.48	22.51	22.41	24.0	0.5				
100	QPSK	1	1	22.98	23.05	22.98						
100	QPSK	1	137	22.95	23.05	22.97						
100	QPSK	1	271	23.03	23.04	22.98	24.5	0.0				
100	QPSK	135	0	22.86	22.91	22.81						
100	QPSK	135	69	22.82	22.95	22.88						
100	QPSK	135	138	22.89	22.99	22.94	23.5	1.0				
100	QPSK	270	0	21.80	21.86	21.86						
100	16QAM	1	1	22.04	22.09	22.05						
100	16QAM	1	1	20.43	20.49	20.37	22.0	2.5				
100	256QAM	1	1	18.18	18.32	18.29						
100	256QAM	1	1	18.18	18.32	18.29						
Channel												
Frequency (MHz)												
90	PVZ BPSK	1	1	25.41	25.92	25.44	23.0	0.0				
Channel												
Frequency (MHz)												
80	PVZ BPSK	1	1	21.40	21.42	21.35	23.0	0.0				
Channel												
Frequency (MHz)												
70	PVZ BPSK	1	1	25.31	25.92	25.55	23.0	0.0				
Channel												
Frequency (MHz)												
60	PVZ BPSK	1	1	21.42	21.44	21.32	23.0	0.0				
Channel												
Frequency (MHz)												
50	PVZ BPSK	1	1	21.37	21.36	21.31	23.0	0.0				
Channel												
Frequency (MHz)												
40	PVZ BPSK	1	1	21.39	21.44	21.27	23.0	0.0				
Channel												
Frequency (MHz)												
30	PVZ BPSK	1	1	21.37	21.37	21.31	23.0	0.0				
Channel												
Frequency (MHz)												
20	PVZ BPSK	1	1	21.36	21.37	21.31	23.0	0.0				
Channel												
Frequency (MHz)												



n41_FCC_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2592.02	2592.99	2600.00				
100	PVZ BPSK	1	1	19.07	19.09	19.06	20.5	0.0		
100	PVZ BPSK	1	137	19.02	19.06	19.00				
100	PVZ BPSK	1	271	19.08	19.07	19.08				
100	PVZ BPSK	135	0	19.10	19.12	19.08	20.5	0.0		
100	PVZ BPSK	135	69	19.04	19.10	19.00				
100	PVZ BPSK	135	138	19.06	19.04	19.04				
100	PVZ BPSK	270	0	19.10	19.11	19.00	20.5	0.0		
100	QPSK	1	1	19.18	19.21	19.12				
100	QPSK	1	137	19.13	19.15	19.08				
100	QPSK	1	271	19.17	19.13	19.11	20.5	0.0		
100	QPSK	135	0	19.03	19.10	19.09				
100	QPSK	135	69	19.11	19.13	19.07				
100	QPSK	135	138	19.09	19.05	19.02	20.5	0.0		
100	QPSK	270	0	19.08	19.11	19.00				
100	16QAM	1	1	19.04	19.06	19.00				
100	16QAM	1	1	19.03	19.05	19.01	20.5	0.0		
100	256QAM	1	1	17.04	17.07	17.04				
100	256QAM	1	1	20.200	20.200	20.200				
Channel										
Frequency (MHz)				2541	2592.99	2644.98	19.0			
90	PVZ BPSK	1	1	19.06	19.11	19.08	20.5	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2536.02	2592.99	2643.99			19.0	
80	PVZ BPSK	1	1	19.07	19.11	19.08	20.5	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2531.01	2592.99	2655			19.0	
70	PVZ BPSK	1	1	19.02	19.06	19.01	20.5	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2526	2592.99	2659.98			19.0	
60	PVZ BPSK	1	1	19.02	19.08	19.02	20.5	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2521.02	2592.99	2654.99			19.0	
50	PVZ BPSK	1	1	19.02	19.12	19.01	20.5	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2516.01	2592.99	2670			19.0	
40	PVZ BPSK	1	1	19.06	19.05	19.04	20.5	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2511	2592.99	2674.98			19.0	
30	PVZ BPSK	1	1	19.09	19.12	19.00	20.5	0.0		
Channel				2601.04	2592.99	2600.00			19.0	
Frequency (MHz)				2598.02	2592.99	2673.99			19.0	
20	PVZ BPSK	1	1	19.03	19.11	19.05	20.5	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2589	2592.99	2654			19.0	

n41_FCC_HPUE_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2092.02	2092.99	2100.00				
100	PVZ BPSK	1	1	20.61	20.57	20.50	22.0	0.0		
100	PVZ BPSK	1	137	20.54	20.58	20.52				
100	PVZ BPSK	1	271	20.56	20.55	20.50				
100	PVZ BPSK	135	0	20.59	20.59	20.52	22.0	0.0		
100	PVZ BPSK	135	69	20.54	20.57	20.49				
100	PVZ BPSK	135	138	20.57	20.57	20.51				
100	PVZ BPSK	270	0	20.53	20.63	20.57	22.0	0.0		
100	QPSK	1	1	20.68	20.71	20.66				
100	QPSK	1	137	20.62	20.68	20.58				
100	QPSK	1	271	20.65	20.62	20.59	22.0	0.0		
100	QPSK	135	0	20.54	20.59	20.57				
100	QPSK	135	69	20.62	20.65	20.58				
100	QPSK	135	138	20.57	20.61	20.49	22.0	0.0		
100	QPSK	270	0	20.57	20.57	20.54				
100	16QAM	1	1	20.61	20.59	20.57				
100	16QAM	1	1	20.56	20.60	20.56	22.0	0.0		
100	256QAM	1	1	18.60	18.67	18.53				
100	256QAM	1	1	20.200	20.200	20.200				
Channel										
Frequency (MHz)				2541	2592.99	2644.98	19.0			
90	PVZ BPSK	1	1	20.54	20.56	20.50	22.0	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2536.02	2592.99	2643.99			19.0	
80	PVZ BPSK	1	1	20.58	20.62	20.49	22.0	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2531.01	2592.99	2655			19.0	
70	PVZ BPSK	1	1	20.56	20.57	20.56	22.0	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2526	2592.99	2659.98			19.0	
60	PVZ BPSK	1	1	20.58	20.59	20.56	22.0	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2521.02	2592.99	2654.99			19.0	
50	PVZ BPSK	1	1	20.54	20.57	20.54	22.0	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2516.01	2592.99	2670			19.0	
40	PVZ BPSK	1	1	20.60	20.60	20.55	22.0	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2511	2592.99	2674.98			19.0	
30	PVZ BPSK	1	1	20.54	20.61	20.51	22.0	0.0		
Channel				2601.04	2592.99	2600.00			19.0	
Frequency (MHz)				2598.02	2592.99	2673.99			19.0	
20	PVZ BPSK	1	1	20.56	20.62	20.54	22.0	0.0		
Channel				2592.02	2592.99	2600.00			19.0	
Frequency (MHz)				2589	2592.99	2654			19.0	



n41_FCC_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
100	PV2 BPSK	1	1	14.42	14.48	14.41	16.0	0.0
100	PV2 BPSK	1	137	14.27	14.46	14.40		
100	PV2 BPSK	1	271	14.35	14.35	14.42		
100	PV2 BPSK	135	0	14.40	14.36	14.40	16.0	0.0
100	PV2 BPSK	135	69	14.44	14.38	14.37	16.0	0.0
100	PV2 BPSK	135	138	14.41	14.46	14.39	16.0	0.0
100	PV2 BPSK	270	0	14.41	14.41	14.36	16.0	0.0
100	QPSK	1	1	14.48	14.69	14.49	16.0	0.0
100	QPSK	1	137	14.43	14.52	14.48		
100	QPSK	1	271	14.48	14.46	14.40		
100	QPSK	135	0	14.36	14.48	14.42	16.0	0.0
100	QPSK	135	69	14.46	14.45	14.48		
100	QPSK	135	138	14.38	14.39	14.46		
100	QPSK	270	0	14.44	14.46	14.45	16.0	0.0
100	8QAM	1	1	14.42	14.36	14.36	16.0	0.0
100	8QAM	1	1	14.33	14.43	14.41	16.0	0.0
100	25QAM	1	1	14.40	14.42	14.53	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
90	PV2 BPSK	1	1	25.41	14.95	14.48	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
80	PV2 BPSK	1	1	14.46	14.51	14.39	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
70	PV2 BPSK	1	1	14.37	14.49	14.47	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
60	PV2 BPSK	1	1	14.36	14.53	14.45	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
50	PV2 BPSK	1	1	14.40	14.53	14.40	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
40	PV2 BPSK	1	1	14.47	14.54	14.42	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
30	PV2 BPSK	1	1	14.38	14.59	14.47	16.0	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
20	PV2 BPSK	1	1	14.45	14.45	14.45	16.0	0.0

n41_FCC_HPUE_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
100	PV2 BPSK	1	1	16.06	16.03	16.07	17.5	0.0
100	PV2 BPSK	1	137	16.08	16.03	16.03		
100	PV2 BPSK	1	271	16.01	16.05	15.95		
100	PV2 BPSK	135	0	16.06	16.06	16.01	17.5	0.0
100	PV2 BPSK	135	69	16.04	16.08	16.08	17.5	0.0
100	PV2 BPSK	135	138	16.05	16.09	15.96	17.5	0.0
100	PV2 BPSK	270	0	16.05	16.03	15.98	17.5	0.0
100	QPSK	1	1	16.08	16.19	16.11	17.5	0.0
100	QPSK	1	137	15.98	16.15	16.08		
100	QPSK	1	271	16.04	16.07	16.07		
100	QPSK	135	0	16.09	16.01	15.97	17.5	0.0
100	QPSK	135	69	16.03	16.08	15.97		
100	QPSK	135	138	16.05	16.01	15.96		
100	QPSK	270	0	16.04	16.09	16.07	17.5	0.0
100	8QAM	1	1	16.07	16.08	16.01	17.5	0.0
100	8QAM	1	1	16.02	16.06	16.02	17.5	0.0
100	25QAM	1	1	16.07	16.01	16.03	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
90	PV2 BPSK	1	1	25.41	16.14	16.02	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
80	PV2 BPSK	1	1	16.01	16.15	16.02	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
70	PV2 BPSK	1	1	16.02	16.13	16.02	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
60	PV2 BPSK	1	1	15.96	16.07	16.04	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
50	PV2 BPSK	1	1	16.03	16.13	16.10	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
40	PV2 BPSK	1	1	15.94	16.17	16.05	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
30	PV2 BPSK	1	1	15.95	16.14	15.99	17.5	0.0
Channel								
Frequency (MHz)				2929.02	2950.99	2980.00		
20	PV2 BPSK	1	1	16.04	16.08	16.06	17.5	0.0



<WLAN 2.4GHz FCC> - Full Power

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Duty Cycle %.

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Duty Cycle %.

<WLAN 5GHz FCC> - Full Power

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Duty Cycle %.

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Duty Cycle %.

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Duty Cycle %.

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Average power (dBm), Time-Up Limit, Duty Cycle %.



Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 3/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5900	Full	18.90	20.50	19.41	20.50	22.18	23.50	99.18
	116	5980	Full	19.48	20.50	19.86	20.50	22.69	23.50	
	132	5960	Full	19.28	20.50	19.74	20.50	22.33	23.50	
	140	5700	Full	19.23	20.50	19.69	20.50	22.48	23.50	
802.11n-HT20 MCS0	100	5900	Full	19.25	20.50	19.72	20.50	22.59	23.50	100.00
	116	5980	Full	19.25	20.50	19.72	20.50	22.59	23.50	
	132	5960	Full	19.14	20.50	19.62	20.50	22.40	23.50	
	140	5700	Full	19.13	20.50	19.57	20.50	22.37	23.50	
802.11n-HT40 MCS0	100	5900	Full	18.53	20.50	18.75	20.50	21.65	23.50	100.00
	116	5980	Full	18.65	20.50	18.96	20.50	22.82	23.50	
	132	5960	Full	19.42	20.50	19.45	20.50	22.76	23.50	
	140	5700	Full	19.21	20.50	19.25	20.50	22.24	23.50	
802.11ac-VHT20 MCS0	116	5980	Full	19.20	20.50	19.62	20.50	22.43	23.50	100.00
	132	5960	Full	19.17	20.50	19.63	20.50	22.33	23.50	
	140	5700	Full	19.08	20.50	19.63	20.50	22.32	23.50	
	102	5910	Full	18.52	20.50	18.71	20.50	21.63	23.50	
802.11ac-VHT40 MCS0	116	5980	Full	19.60	20.50	19.63	20.50	22.78	23.50	100.00
	132	5960	Full	19.60	20.50	19.63	20.50	22.78	23.50	
	140	5700	Full	19.60	20.50	19.63	20.50	22.78	23.50	
	134	5970	Full	19.69	20.50	19.96	20.50	22.79	23.50	
802.11ac-EHT80 MCS0	106	5930	Full	18.65	20.50	18.71	20.50	21.69	23.50	100.00
	100	5900	Full	19.43	20.50	20.08	20.50	22.78	23.50	
	280	9.87	11.90	10.66	12.00	13.24	15.00			
	106/53	12.42	14.50	12.87	14.50	15.96	17.50			

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 3/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	140	5745	Full	19.27	21.00	19.66	21.00	22.48	24.00	99.18
	157	5785	Full	19.26	21.00	19.58	21.00	22.44	24.00	
	165	5825	Full	19.17	21.00	19.61	21.00	22.41	24.00	
	140	5745	Full	19.36	21.00	19.66	21.00	22.56	24.00	
802.11n-HT20 MCS0	140	5745	Full	19.15	21.00	19.60	21.00	22.36	24.00	100.00
	157	5785	Full	19.17	21.00	19.65	21.00	22.43	24.00	
	165	5825	Full	19.17	21.00	19.65	21.00	22.43	24.00	
	151	5795	Full	19.84	21.00	20.21	21.00	23.08	24.00	
802.11n-HT40 MCS0	140	5745	Full	18.78	21.00	19.00	21.00	20.01	24.00	100.00
	157	5785	Full	19.30	21.00	19.61	21.00	22.47	24.00	
	165	5825	Full	19.11	21.00	19.60	21.00	22.32	24.00	
	151	5795	Full	19.14	21.00	20.17	21.00	23.00	24.00	
802.11ac-VHT20 MCS0	140	5745	Full	19.30	21.00	19.61	21.00	22.47	24.00	100.00
	157	5785	Full	19.11	21.00	19.60	21.00	22.32	24.00	
	165	5825	Full	19.14	21.00	19.63	21.00	22.40	24.00	
	151	5795	Full	19.81	21.00	20.17	21.00	23.00	24.00	
802.11ac-VHT40 MCS0	140	5745	Full	19.74	21.00	20.15	21.00	22.98	24.00	100.00
	157	5785	Full	19.63	21.00	19.89	21.00	22.77	24.00	
	165	5825	Full	19.45	21.00	19.79	21.00	22.63	24.00	
	151	5795	Full	19.81	21.00	20.17	21.00	23.00	24.00	
802.11ac-EHT80 MCS0	140	5745	Full	19.67	21.00	19.67	21.00	22.78	24.00	100.00
	280	9.87	12.00	10.01	12.00	13.20	15.00			
	106/53	12.80	14.50	12.76	14.50	15.72	17.50			
	140	5745	Full	19.67	21.00	19.67	21.00	22.78	24.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 3/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5900	Full	18.88	20.50	18.83	20.50	21.87	23.50	99.18
	116	5980	Full	18.93	20.50	18.67	20.50	21.82	23.50	
	132	5960	Full	19.41	20.50	19.84	20.50	22.18	23.50	
	140	5700	Full	19.43	20.50	18.63	20.50	22.18	23.50	
802.11n-HT20 MCS0	100	5900	Full	19.46	20.50	19.99	20.50	22.46	23.50	100.00
	116	5980	Full	19.46	20.50	19.99	20.50	22.46	23.50	
	132	5960	Full	19.33	20.50	18.79	20.50	22.08	23.50	
	140	5700	Full	19.40	20.50	18.56	20.50	22.18	23.50	
802.11n-HT40 MCS0	100	5900	Full	18.01	20.50	18.87	20.50	21.95	23.50	100.00
	116	5980	Full	18.01	20.50	18.87	20.50	21.95	23.50	
	132	5960	Full	20.14	20.50	19.85	20.50	23.01	23.50	
	140	5700	Full	20.03	20.50	19.45	20.50	22.76	23.50	
802.11ac-VHT20 MCS0	100	5900	Full	19.52	20.50	19.30	20.50	22.42	23.50	100.00
	116	5980	Full	19.43	20.50	19.07	20.50	22.26	23.50	
	132	5960	Full	19.41	20.50	18.99	20.50	22.31	23.50	
	140	5700	Full	19.37	20.50	18.84	20.50	22.12	23.50	
802.11ac-VHT40 MCS0	100	5910	Full	18.99	20.50	18.85	20.50	21.93	23.50	100.00
	116	5980	Full	20.10	20.50	19.82	20.50	22.98	23.50	
	132	5960	Full	19.96	20.50	19.42	20.50	22.71	23.50	
	134	5970	Full	19.96	20.50	19.42	20.50	22.71	23.50	
802.11ac-EHT80 MCS0	106	5930	Full	18.82	20.50	18.52	20.50	21.68	23.50	100.00
	100	5900	Full	19.64	20.50	19.33	20.50	22.50	23.50	
	280	9.85	11.90	9.77	11.90	12.82	14.80			
	106/53	12.71	14.50	12.11	14.00	15.38	17.00			

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 3/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	140	5745	Full	19.87	21.00	18.73	20.50	22.35	23.50	99.18
	157	5785	Full	19.76	21.00	18.00	20.50	22.23	23.50	
	165	5825	Full	19.47	21.00	18.58	20.50	22.08	23.50	
	140	5745	Full	19.71	21.00	18.75	20.50	22.27	23.50	
802.11n-HT20 MCS0	140	5745	Full	19.93	21.00	18.95	20.50	22.98	23.50	100.00
	157	5785	Full	19.50	21.00	18.65	20.50	22.11	23.50	
	165	5825	Full	19.50	21.00	18.65	20.50	22.11	23.50	
	151	5795	Full	20.25	21.00	19.28	20.50	22.86	24.00	
802.11n-HT40 MCS0	140	5745	Full	19.67	21.00	19.98	20.50	22.64	23.50	100.00
	157	5785	Full	19.50	21.00	19.45	20.50	22.48	23.50	
	165	5825	Full	19.42	21.00	19.60	20.50	22.52	23.50	
	151	5795	Full	20.26	21.00	19.28	20.50	22.86	24.00	
802.11ac-VHT20 MCS0	140	5745	Full	19.67	21.00	19.98	20.50	22.64	23.50	100.00
	157	5785	Full	19.50	21.00	19.45	20.50	22.48	23.50	
	165	5825	Full	19.42	21.00	19.60	20.50	22.52	23.50	
	151	5795	Full	20.26	21.00	19.28	20.50	22.86	24.00	
802.11ac-VHT40 MCS0	140	5745	Full	20.21	21.00	19.06	20.50	22.68	24.00	100.00
	157	5785	Full	20.28	21.00	18.97	20.50	22.68	24.00	
	165	5825	Full	19.60	21.00	18.87	20.50	22.43	23.50	
	151	5795	Full	19.81	21.00	19.45	20.50	22.48	23.50	
802.11ac-EHT80 MCS0	140	5745	Full	19.98	21.00	18.96	20.50	22.91	23.50	100.00
	280	9.84	12.00	9.11	11.00	12.72	14.80			
	106/53	12.80	14.50	12.76	14.50	15.72	17.50			
	140	5745	Full	19.98	21.00	18.96	20.50	22.91	23.50	



<WLAN 2.4GHz FCC> - Receiver On Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b Mbps	1	2412	FuL	19.80	21.50	16.90	18.50	19.90	21.50	100.00
	6	2437	FuL	19.80	21.50	17.00	18.50	20.00	21.50	
802.11g @Mbps	11	2462	FuL	19.80	21.50	16.80	18.50	19.80	21.50	99.32
	6	2437	FuL	20.20	22.00	18.50	20.00	18.50	21.50	
802.11a-HT20 MCS0	1	2412	FuL	18.80	20.50	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.20	22.00	18.50	20.00	18.50	21.50	
802.11a-HT40 MCS0	3	2422	FuL	18.10	20.00	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.10	22.00	18.50	20.00	18.50	21.50	
802.11ac-VHT20 MCS0	1	2412	FuL	18.70	20.50	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.10	22.00	18.50	20.00	18.50	21.50	
802.11ac-VHT40 MCS0	3	2422	FuL	18.00	20.00	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.00	22.00	18.50	20.00	18.50	21.50	
802.11ax-HE20 MCS0	1	2412	FuL	18.90	20.50	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.40	22.00	18.50	20.00	18.50	21.50	
802.11ax-HE40 MCS0	3	2422	FuL	18.30	20.00	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.20	22.00	18.50	20.00	18.50	21.50	
802.11be-EHT20 MCS0	1	2412	FuL	18.90	20.50	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.50	22.00	18.50	20.00	18.50	21.50	
802.11be-EHT40 MCS0	3	2422	FuL	18.30	20.00	18.50	20.00	18.50	21.50	100.00
	6	2437	FuL	20.30	22.00	18.50	20.00	18.50	21.50	

<WLAN 5GHz FCC> - Receiver On Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a @Mbps	36	5180	FuL	18.74	20.50	18.00	20.00	18.00	21.00	99.18
	40	5200	FuL	18.81	20.50	18.00	20.00	18.00	21.00	
802.11a-HT20 MCS0	44	5220	FuL	18.66	20.50	18.00	20.00	18.00	21.00	100.00
	48	5240	FuL	18.67	20.50	18.00	20.00	18.00	21.00	
802.11a-HT40 MCS0	36	5180	FuL	18.40	20.50	18.00	20.00	18.00	21.00	100.00
	40	5200	FuL	18.94	20.50	18.00	20.00	18.00	21.00	
802.11ac-VHT20 MCS0	44	5220	FuL	18.88	20.50	18.00	20.00	18.00	21.00	100.00
	48	5240	FuL	18.81	20.50	18.00	20.00	18.00	21.00	
802.11ac-VHT40 MCS0	36	5180	FuL	18.30	20.50	18.00	20.00	18.00	21.00	100.00
	40	5200	FuL	18.71	20.50	18.00	20.00	18.00	21.00	
802.11ac-VHT80 MCS0	44	5220	FuL	18.75	20.50	18.00	20.00	18.00	21.00	100.00
	48	5240	FuL	18.78	20.50	18.00	20.00	18.00	21.00	
802.11ax-HE20 MCS0	36	5180	FuL	18.22	20.00	18.00	20.00	18.00	21.00	100.00
	40	5200	FuL	18.94	20.50	18.00	20.00	18.00	21.00	
802.11ax-HE40 MCS0	36	5180	FuL	18.22	20.00	18.00	20.00	18.00	21.00	100.00
	40	5200	FuL	18.94	20.50	18.00	20.00	18.00	21.00	
802.11be-EHT20 MCS0	36	5180	FuL	18.22	20.00	18.00	20.00	18.00	21.00	100.00
	40	5200	FuL	18.94	20.50	18.00	20.00	18.00	21.00	
802.11be-EHT40 MCS0	36	5180	FuL	18.24	20.00	18.00	20.00	18.00	21.00	100.00
	40	5200	FuL	18.10	20.00	18.00	20.00	18.00	21.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a @Mbps	52	5260	FuL	18.62	20.50	18.00	20.00	18.00	21.00	99.18
	56	5280	FuL	18.62	20.50	18.00	20.00	18.00	21.00	
802.11a-HT20 MCS0	60	5300	FuL	18.60	20.50	18.00	20.00	18.00	21.00	100.00
	64	5320	FuL	18.18	20.50	18.00	20.00	18.00	21.00	
802.11a-HT40 MCS0	52	5260	FuL	18.69	20.50	18.00	20.00	18.00	21.00	100.00
	56	5280	FuL	18.59	20.50	18.00	20.00	18.00	21.00	
802.11ac-VHT20 MCS0	60	5300	FuL	18.62	20.50	18.00	20.00	18.00	21.00	100.00
	64	5320	FuL	18.56	20.50	18.00	20.00	18.00	21.00	
802.11ac-VHT40 MCS0	52	5260	FuL	18.69	20.50	18.00	20.00	18.00	21.00	100.00
	56	5280	FuL	18.55	20.50	18.00	20.00	18.00	21.00	
802.11ac-VHT80 MCS0	60	5300	FuL	18.60	20.50	18.00	20.00	18.00	21.00	100.00
	64	5320	FuL	18.52	20.50	18.00	20.00	18.00	21.00	
802.11ax-HE20 MCS0	52	5260	FuL	18.56	20.50	18.3	18	19.40	21.00	100
	56	5280	FuL	18.56	20.50	18.00	20.00	18.00	21.00	
802.11ax-HE40 MCS0	52	5260	FuL	18.84	20.50	18.00	20.00	18.00	21.00	100.00
	56	5280	FuL	18.74	20.50	18.00	20.00	18.00	21.00	
802.11ax-HE80 MCS0	52	5260	FuL	18.79	19.50	18.00	20.00	18.00	21.00	100.00
	56	5280	FuL	18.92	20.50	18.00	20.00	18.00	21.00	
802.11be-EHT20 MCS0	52	5260	FuL	18.85	20.50	18.00	20.00	18.00	21.00	100.00
	56	5280	FuL	18.85	20.50	18.00	20.00	18.00	21.00	
802.11be-EHT40 MCS0	52	5260	FuL	18.74	20.50	18.00	20.00	18.00	21.00	100.00
	56	5280	FuL	18.47	20.50	18.00	20.00	18.00	21.00	
802.11be-EHT80 MCS0	52	5260	FuL	18.62	20.50	18.00	20.00	18.00	21.00	100
	56	5280	FuL	18.6	20.50	18.00	20.00	18.00	21.00	



Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 6+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a @Mbps	100	5500	Full	18.90	20.50		14.00	17.00	99.18	
	116	5580	Full	19.48	20.50		14.00	17.00		
	132	5660	Full	19.28	20.50		14.00	17.00		
802.11a-HT20 MCS0	140	5700	Full	19.23	20.50		14.00	17.00	100.00	
	100	5500	Full	19.25	20.50		14.00	17.00		
	116	5580	Full	19.23	20.50		14.00	17.00		
802.11a-HT40 MCS0	132	5660	Full	19.14	20.50		14.00	17.00	100.00	
	140	5700	Full	19.33	20.50		14.00	17.00		
	102	5510	Full	18.53	20.50	Not Required	Not Required	Not Required		
802.11ac-VHT20 MCS0	110	5550	Full	19.65	20.50		14.00	17.00	100.00	
	134	5670	Full	19.62	20.50		14.00	17.00		
	100	5500	Full	19.21	20.50		14.00	17.00		
802.11ac-VHT40 MCS0	116	5580	Full	19.20	20.50		14.00	17.00	100.00	
	132	5660	Full	19.17	20.50		14.00	17.00		
	140	5700	Full	19.08	20.50		14.00	17.00		
802.11ac-VHT80 MCS0	102	5510	Full	18.50	20.50		14.00	17.00	100.00	
	110	5550	Full	18.65	20.50		14.00	17.00		
	134	5670	Full	19.59	20.50		14.00	17.00		
802.11ac-EHT20 MCS0	106	5530	Full	18.65	20.50	12.08	14.00	15.45	100.00	
			Full	18.43	20.50		14.00	17.00		
			Full	19.43	20.50		14.00	17.00		
802.11ac-EHT40 MCS0	100	5500		2840	9.87	11.90	12.00	15.00	100.00	
				5207	12.45	14.00	14.00	17.00		
				10653	15.24	17.00	14.00	17.00		
802.11ac-EHT80 MCS0	116	5580	Full	19.46	20.50		14.00	17.00	100.00	
	132	5660	Full	19.33	20.50		14.00	17.00		
	140	5700	Full	19.27	20.50		14.00	17.00		
802.11ax-HE40 MCS0	268	5938	Full	19.08	12.00		12.00	15.00	100.00	
	5240	12.46	14.00	14.00	17.00					
	10654	15.57	17.00	14.00	17.00					
802.11ax-HE80 MCS0	102	5510	Full	18.54	20.50		14.00	17.00	100.00	
	110	5550	Full	18.72	20.50		14.00	17.00		
	134	5670	Full	18.63	20.50		14.00	17.00		
802.11be-EHT20 MCS0	100	5500	Full	19.50	20.50	Not Required	Not Required	Not Required	100.00	
			Full	2680	9.98	11.90	12.00	15.00		
			Full	5207	12.53	14.50	14.00	17.00		
802.11be-EHT40 MCS0	116	5580	Full	19.52	20.50		14.00	17.00	100.00	
	132	5660	Full	19.48	20.50		14.00	17.00		
	140	5700	Full	19.33	20.50		14.00	17.00		
802.11be-EHT80 MCS0	106	5530	Full	18.67	20.50		14.00	17.00	100.00	
			Full	19.50	20.50		14.00	17.00		
			Full	2680	9.98	11.90	12.00	15.00		

Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 6+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a @Mbps	140	5745	Full	20.00			15.00	18.00	99.18	
	157	5785	Full	20.00			15.00	18.00		
	165	5825	Full	20.00			15.00	18.00		
802.11a-HT20 MCS0	149	5745	Full	20.00			15.00	18.00	100.00	
	157	5785	Full	20.00			15.00	18.00		
	165	5825	Full	20.00			15.00	18.00		
802.11a-HT40 MCS0	151	5765	Full	20.00	Not Required	Not Required	15.00	18.00	100.00	
	159	5795	Full	20.00			15.00	18.00		
	149	5745	Full	20.00			15.00	18.00		
802.11ac-VHT20 MCS0	137	5795	Full	20.00			15.00	18.00	100.00	
	165	5825	Full	20.00			15.00	18.00		
	151	5765	Full	20.00			15.00	18.00		
802.11ac-VHT40 MCS0	159	5795	Full	20.00			15.00	18.00	100.00	
	155	5775	Full	20.00			15.00	18.00		
	155	5775	Full	18.55	20.00	13.38	15.00	16.38		
802.11ac-VHT80 MCS0	149	5745	Full	20.00			15.00	18.00	100.00	
			Full	2650	12.00		11.50	15.00		
			Full	5207	14.50		14.50	17.50		
802.11ax-HE20 MCS0	157	5785	Full	20.00			15.00	18.00	100.00	
			Full	2658	12.00		11.00	14.50		
			Full	5240	14.00		14.00	17.00		
802.11ax-HE40 MCS0	151	5765	Full	20.00			15.00	18.00	100.00	
	159	5795	Full	20.00			15.00	18.00		
	155	5775	Full	20.00			15.00	18.00		
802.11ax-HE80 MCS0	155	5775	Full	20.00	Not Required	Not Required	15.00	18.00	100.00	
			Full	2650	12.00		11.50	15.00		
			Full	5207	14.50		14.50	17.50		
802.11be-EHT20 MCS0	149	5745	Full	20.00			15.00	18.00	100.00	
	107	5785	Full	20.00			15.00	18.00		
	165	5825	Full	20.00			15.00	18.00		
802.11be-EHT40 MCS0	151	5765	Full	20.00			15.00	18.00	100.00	
	159	5795	Full	20.00			15.00	18.00		
	155	5775	Full	20.00			15.00	18.00		
802.11be-EHT80 MCS0	151	5755	Full	20.00			15.00	18.00	100.00	
	159	5795	Full	20.00			15.00	18.00		
	155	5775	Full	20.00			15.00	18.00		



<WLAN 2.4GHz FCC> - Receiver On Simultaneous Power

Mode	Channel	Frequency (MHz)	Ru Config	Ave 3		Ave 4		Ave 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	1	2412	FuL	18.00	21.00	13.70	15.00	16.68	18.00	100.00
	6	2437	FuL	19.80	21.50	13.90	15.00	16.78	18.00	
	11	2462	FuL	19.60	21.50	13.60	15.00	16.50	18.00	
802.11g 6Mbps	1	2412	FuL	18.00	21.00		15.00		18.00	99.32
	6	2437	FuL	20.20	22.00		15.00		18.00	
	11	2462	FuL	17.70	19.00		15.00		18.00	
802.11n-HT20 MCS0	1	2412	FuL	18.80	20.50		15.00		18.00	100.00
	6	2437	FuL	20.20	22.00		15.00		18.00	
	11	2462	FuL	18.30	19.00		15.00		18.00	
802.11n-HT40 MCS0	1	2412	FuL	18.10	20.00		15.00		18.00	100.00
	6	2437	FuL	20.10	22.00		15.00		18.00	
	11	2462	FuL	18.60	19.00		15.00		18.00	
802.11ac-VHT20 MCS0	1	2412	FuL	18.70	20.50		15.00		18.00	100.00
	6	2437	FuL	20.10	22.00		15.00		18.00	
	11	2462	FuL	18.20	19.00		15.00		18.00	
802.11ac-VHT40 MCS0	1	2412	FuL	18.00	20.00		15.00		18.00	100.00
	6	2437	FuL	20.00	22.00		15.00		18.00	
	11	2462	FuL	18.50	19.00		15.00		18.00	
802.11ax-HE20 MCS0	1	2412	FuL	18.90	20.50		15.00		18.00	100.00
	6	2437	FuL	20.40	22.00		15.00		18.00	
	11	2462	FuL	18.40	19.00		15.00		18.00	
802.11ax-HE40 MCS0	1	2412	FuL	19.20	20.00		15.00		18.00	100.00
	6	2437	FuL	20.20	22.00		15.00		18.00	
	11	2462	FuL	18.70	19.00		15.00		18.00	
802.11be-EHT20 MCS0	1	2412	FuL	19.30	20.00		15.00		18.00	100.00
	6	2437	FuL	20.50	22.00		15.00		18.00	
	11	2462	FuL	18.80	19.00		15.00		18.00	
802.11be-EHT40 MCS0	1	2412	FuL	19.30	20.00		15.00		18.00	100.00
	6	2437	FuL	20.30	22.00		15.00		18.00	
	11	2462	FuL	18.80	19.00		15.00		18.00	

<WLAN 5GHz FCC> - Receiver On Simultaneous Power

Mode	Channel	Frequency (MHz)	Ru Config	Ave 3		Ave 4		Ave 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	36	5180	FuL	18.00	18.00		15.00		18.00	99.18
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11n-HT20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11n-HT40 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT40 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT80 MCS0	36	5180	FuL	17.39	18.00	14.04	15.00	17.07	18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE40 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE80 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT40 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT80 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ave 3		Ave 4		Ave 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	52	5260	FuL	18.00	18.00		15.00		18.00	99.18
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11n-HT20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11n-HT40 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT40 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT80 MCS0	52	5260	FuL	17.45	18.00	54.2	15.00	17.34	18.00	100
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE40 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE80 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT40 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT80 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	



Mode	Channel	Frequency (MHz)	Ru Config	Act 3		Act 4		Act 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	99.18
	116	5580	FuL							
	132	5660	FuL							
802.11a-HT20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	116	5580	FuL							
	132	5660	FuL							
802.11a-HT40 MCS0	102	5510	FuL	Not Required	17.00	Not Required	11.50	Not Required	14.50	100.00
	110	5550	FuL							
	134	5670	FuL							
802.11ac-VHT20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	116	5580	FuL							
	132	5660	FuL							
802.11ac-VHT40 MCS0	102	5510	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	110	5550	FuL							
	134	5670	FuL							
802.11ac-VHT80 MCS0	106	5530	FuL	15.64	17.00	10.65	11.50	13.35	14.50	100.00
			FuL							
			FuL							
802.11ax-HE20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
			2650							
			5237							
			10603							
			10603							
			10603							
802.11ax-HE40 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
			2650							
			5240							
			10604							
			10604							
			10604							
802.11ax-HE80 MCS0	106	5530	FuL	Not Required	17.00	Not Required	11.50	Not Required	14.50	100.00
			FuL							
			FuL							
802.11be-EHT20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
			2650							
			5237							
			10603							
			10603							
			10603							
802.11be-EHT40 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
			2650							
			5240							
			10604							
			10604							
			10604							
802.11be-EHT80 MCS0	106	5530	FuL	Not Required	17.00	Not Required	11.50	Not Required	14.50	100.00
			FuL							
			FuL							

Mode	Channel	Frequency (MHz)	Ru Config	Act 3		Act 4		Act 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	99.18
	157	5785	FuL							
	165	5825	FuL							
802.11a-HT20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	157	5785	FuL							
	165	5825	FuL							
802.11a-HT40 MCS0	151	5755	FuL	Not Required	16.00	Not Required	12.00	Not Required	15.00	100.00
	159	5795	FuL							
	167	5835	FuL							
802.11ac-VHT20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	157	5785	FuL							
	165	5825	FuL							
802.11ac-VHT40 MCS0	151	5755	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	159	5795	FuL							
	167	5835	FuL							
802.11ac-VHT80 MCS0	155	5775	FuL	14.66	16.00	10.74	12.00	13.88	15.00	100.00
			FuL							
			FuL							
802.11ax-HE20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
			2650							
			5237							
			10603							
			10603							
			10603							
802.11ax-HE40 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
			2650							
			5240							
			10604							
			10604							
			10604							
802.11ax-HE80 MCS0	155	5775	FuL	Not Required	16.00	Not Required	12.00	Not Required	15.00	100.00
			FuL							
			FuL							
802.11be-EHT20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
			2650							
			5237							
			10603							
			10603							
			10603							
802.11be-EHT40 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
			2650							
			5240							
			10604							
			10604							
			10604							
802.11be-EHT80 MCS0	155	5775	FuL	Not Required	16.00	Not Required	12.00	Not Required	15.00	100.00
			FuL							
			FuL							



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Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 4		Act 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b-1Mbps	1	2412	Full	17.80	19.50	19.70	21.50	20.82	22.50	100.00
	6	2437	Full	17.90	19.50	19.80	21.50	20.90	22.50	
802.11g-6Mbps	11	2462	Full	17.70	19.50	19.50	20.70	20.72	22.50	99.32
	1	2412	Full	19.50	19.50	21.50	21.50	22.50	22.50	
802.11n-HT20 MCS0	6	2437	Full	19.50	20.20	22.00	22.00	22.50	22.50	100.00
	11	2462	Full	19.50	18.00	18.00	21.00	21.00	21.00	
802.11n-HT40 MCS0	3	2422	Full	19.50	18.80	20.00	22.00	22.50	22.50	100.00
	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	
802.11ac-VHT20 MCS0	11	2462	Full	18.00	18.80	18.00	21.00	21.00	21.00	100.00
	1	2412	Full	19.50	19.20	20.50	22.50	22.50	22.50	
802.11ac-VHT40 MCS0	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	100.00
	3	2422	Full	19.50	18.70	20.00	22.00	22.50	22.50	
802.11ax-HE20 MCS0	1	2412	Full	19.50	18.40	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	18.00	16.70	18.00	21.00	21.00	21.00	
802.11ax-HE40 MCS0	1	2412	Full	20.00	19.50	20.00	22.00	22.00	22.00	100.00
	6	2437	Full	13.00	12.90	14.50	17.00	17.00	17.00	
802.11ax-HE80 MCS0	1	2412	Full	18.50	18.50	17.50	20.00	20.00	20.00	100.00
	6	2437	Full	18.50	16.70	18.00	21.00	21.00	21.00	
802.11ax-HE160 MCS0	11	2462	Full	14.00	13.00	15.00	17.50	17.50	17.50	100.00
	6	2437	Full	19.50	19.90	20.00	22.00	22.00	22.00	
802.11ax-HE320 MCS0	6	2437	Full	18.00	18.00	18.00	21.00	21.00	21.00	100.00
	9	2452	Full	19.50	19.00	20.50	22.50	22.50	22.50	
802.11be-EHT20 MCS0	1	2412	Full	18.50	18.50	17.50	20.00	20.00	20.00	100.00
	6	2437	Full	13.50	13.00	14.50	17.00	17.00	17.00	
802.11be-EHT40 MCS0	11	2462	Full	14.00	13.00	15.00	17.50	17.50	17.50	100.00
	6	2437	Full	19.50	19.00	20.50	22.50	22.50	22.50	
802.11be-EHT80 MCS0	3	2422	Full	19.50	19.00	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	18.00	17.00	18.00	21.00	21.00	21.00	
802.11be-EHT160 MCS0	1	2412	Full	18.00	17.00	18.00	21.00	21.00	21.00	100.00
	6	2437	Full	18.00	16.00	16.00	19.00	19.00	19.00	

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Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 4		Act 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a-6Mbps	36	5180	Full	16.50	18.00	20.50	19.50	19.50	19.50	99.18
	40	5200	Full	16.50	20.02	20.50	19.50	19.50	19.50	
802.11n-HT20 MCS0	44	5200	Full	16.50	18.81	20.50	19.50	19.50	19.50	100.00
	48	5240	Full	16.50	18.77	20.50	19.50	19.50	19.50	
802.11n-HT40 MCS0	40	5200	Full	16.50	19.88	20.50	19.50	19.50	19.50	100.00
	44	5220	Full	16.50	20.05	20.50	19.50	19.50	19.50	
802.11ac-VHT20 MCS0	36	5180	Full	16.50	19.94	20.50	19.50	19.50	19.50	100.00
	40	5200	Full	16.50	18.83	20.50	19.50	19.50	19.50	
802.11ac-VHT40 MCS0	36	5180	Full	16.50	19.90	20.50	19.50	19.50	19.50	100.00
	44	5220	Full	16.50	20.04	20.50	19.50	19.50	19.50	
802.11ac-VHT80 MCS0	36	5180	Full	16.50	19.87	20.50	19.50	19.50	19.50	100.00
	40	5200	Full	16.50	18.50	20.50	19.50	19.50	19.50	
802.11ax-HE20 MCS0	42	5210	Full	15.75	16.50	18.00	20.50	18.89	19.50	100.00
	36	5180	Full	16.50	18.90	20.50	19.50	19.50	19.50	
802.11ax-HE40 MCS0	40	5200	Full	16.50	18.90	20.50	19.50	19.50	19.50	100.00
	48	5240	Full	16.50	18.90	20.50	19.50	19.50	19.50	
802.11ax-HE80 MCS0	36	5180	Full	16.50	18.90	20.50	19.50	19.50	19.50	100.00
	42	5210	Full	16.50	18.90	20.50	19.50	19.50	19.50	
802.11be-EHT20 MCS0	40	5200	Full	16.50	19.92	21.00	19.50	19.50	19.50	100.00
	44	5220	Full	16.50	20.11	20.50	19.50	19.50	19.50	
802.11be-EHT40 MCS0	48	5240	Full	16.50	19.91	21.00	19.50	19.50	19.50	100.00
	36	5180	Full	16.50	18.09	20.50	19.50	19.50	19.50	
802.11be-EHT80 MCS0	40	5200	Full	16.50	19.91	21.00	19.50	19.50	19.50	100.00
	42	5210	Full	16.50	18.69	20.50	19.50	19.50	19.50	

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Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 4		Act 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a-6Mbps	149	5745	Full	15.00	19.66	21.00	18.00	18.00	18.00	99.18
	157	5785	Full	15.00	19.28	21.00	18.00	18.00	18.00	
802.11n-HT20 MCS0	149	5745	Full	15.00	19.61	21.00	18.00	18.00	18.00	100.00
	157	5785	Full	15.00	19.66	21.00	18.00	18.00	18.00	
802.11n-HT40 MCS0	151	5765	Full	15.00	20.21	21.50	18.00	18.00	18.00	100.00
	159	5795	Full	15.00	20.20	21.50	18.00	18.00	18.00	
802.11ac-VHT20 MCS0	149	5745	Full	15.00	19.61	21.00	18.00	18.00	18.00	100.00
	157	5785	Full	15.00	19.50	21.00	18.00	18.00	18.00	
802.11ac-VHT40 MCS0	155	5825	Full	15.00	19.63	21.00	18.00	18.00	18.00	100.00
	151	5765	Full	15.00	20.17	21.50	18.00	18.00	18.00	
802.11ac-VHT80 MCS0	159	5795	Full	15.00	20.15	21.50	18.00	18.00	18.00	100.00
	155	5775	Full	13.88	15.00	19.89	21.50	16.94	18.00	
802.11ax-HE20 MCS0	149	5745	Full	15.00	19.79	21.00	18.00	18.00	18.00	100.00
	157	5785	Full	15.00	19.78	21.00	18.00	18.00	18.00	
802.11ax-HE40 MCS0	165	5825	Full	15.00	19.84	21.00	18.00	18.00	18.00	100.00
	155	5775	Full	15.00	19.78	21.00	18.00	18.00	18.00	
802.11ax-HE80 MCS0	151	5765	Full	15.00	19.67	21.00	18.00	18.00	18.00	100.00
	159	5795	Full	15.00	20.23	21.50	18.00	18.00	18.00	
802.11ax-HE160 MCS0	149	5745	Full	15.00	19.61	21.00	18.00	18.00	18.00	100.00
	157	5785	Full	15.00	19.62	21.00	18.00	18.00	18.00	
802.11be-EHT20 MCS0	165	5825	Full	15.00	19.96	21.00	18.00	18.00	18.00	100.00
	155	5775	Full	15.00	19.92	21.00	18.00	18.00	18.00	
802.11be-EHT40 MCS0	151	5765	Full	15.00	19.92	21.00	18.00	18.00	18.00	100.00
	159	5795	Full	15.00	20.34	21.50	18.00	18.00	18.00	
802.11be-EHT80 MCS0	151	5765	Full	15.00	19.96	21.00	18.00	18.00	18.00	100.00
	155	5775	Full	15.00	20.23	21.50	18.00	18.00	18.00	

Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 6		Act 5/6		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b-1Mbps	1	2412	Full	17.80	19.50	18.50	20.00	20.42	22.00	100.00
	6	2437	Full	17.90	19.50	18.80	20.00	20.49	22.00	
802.11g-6Mbps	11	2462	Full	17.70	19.50	19.40	20.00	20.20	22.00	99.32
	1	2412	Full	19.50	18.50	20.00	22.00	22.00	22.00	
802.11n-HT20 MCS0	6	2437	Full	19.50	20.20	22.00	22.00	22.50	22.50	100.00
	11	2462	Full	19.50	18.00	18.00	21.00	21.00	21.00	
802.11n-HT40 MCS0	3	2422	Full	19.50	18.80	20.00	22.00	22.50	22.50	100.00
	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	
802.11ac-VHT20 MCS0	11	2462	Full	18.00	18.80	18.00	21.00	21.00	21.00	100.00
	1	2412	Full	19.50	19.20	20.50	22.50	22.50	22.50	
802.11ac-VHT40 MCS0	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	100.00
	3	2422	Full	19.50	18.70	20.00	22.00	22.50	22.50	
802.11ax-HE20 MCS0	1	2412	Full	19.50	18.40	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	18.00	16.70	18.00	21.00	21.00	21.00	
802.11ax-HE40 MCS0	1	2412	Full	20.00	19.50	20.00	22.00	22.00	22.00	100.00
	6	2437	Full	13.00	12.90	14.50	17.00	17.00	17.00	
802.11ax-HE80 MCS0	1	2412	Full	18.50	18.50	17.50	20.00	20.00	20.00	100.00
	6	2437	Full							



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Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b Mbps	1	2412	FuL	19.80	21.50	19.70	21.50	22.78	24.50	100.00
	6	2437	FuL	19.80	21.50	19.80	21.50	22.81	24.50	
	11	2462	FuL	19.60	21.50	19.60	21.50	22.61	24.50	
802.11g Mbps	1	2412	FuL	19.80	21.50	19.50	21.50	22.66	24.50	99.32
	6	2437	FuL	20.20	22.00	20.20	22.00	23.16	25.00	
	11	2462	FuL	17.70	19.00	18.00	19.00	20.88	22.00	
802.11n-HT20 MCS0	1	2412	FuL	18.80	20.50	19.30	20.50	22.07	23.50	100.00
	6	2437	FuL	20.20	22.00	20.20	22.00	23.21	25.00	
	11	2462	FuL	18.30	18.00	18.00	18.00	19.46	21.00	
802.11n-HT40 MCS0	3	2422	FuL	18.10	20.00	18.40	20.00	21.28	23.00	100.00
	9	2452	FuL	18.50	20.00	18.50	20.00	21.11	23.00	
	6	2437	FuL	16.80	18.00	18.00	19.71	21.00	21.00	
802.11ac-VHT20 MCS0	3	2422	FuL	20.10	22.00	20.10	22.00	23.11	25.00	100.00
	9	2452	FuL	18.20	18.00	18.50	18.00	19.38	21.00	
	6	2437	FuL	16.80	18.00	18.00	19.38	21.00	21.00	
802.11ac-VHT40 MCS0	3	2422	FuL	20.00	22.00	20.00	22.00	23.01	25.00	100.00
	9	2452	FuL	16.50	18.00	16.70	18.00	19.61	21.00	
	6	2437	FuL	18.50	20.50	19.40	20.50	22.17	23.50	
802.11ax-HE20 MCS0	1	2412	FuL	6.80	8.50	8.80	10.50	10.80	12.50	100.00
		5237	11.40	13.00	12.90	14.50	15.22	17.00		
	6	2437	FuL	4.50	5.50	5.70	7.50	8.33	10.00	
		10654	8.50	10.50	9.30	11.00	11.93	13.50		
	11	2462	FuL	16.40	18.00	16.70	18.00	19.56	21.00	
		10654	12.40	14.00	13.00	15.00	15.72	18.00		
802.11ax-HE40 MCS0	3	2422	FuL	18.20	20.00	18.50	20.00	21.38	23.00	100.00
	6	2437	FuL	20.20	22.00	20.20	22.00	23.21	25.00	
	9	2452	FuL	16.70	18.00	18.00	19.81	21.00	21.00	
802.11be-EHT20 MCS0	1	2412	FuL	26.00	8.00	8.50	8.70	10.50	10.90	100.00
		5237	11.50	13.00	13.00	15.00	15.32	17.00		
	6	2437	FuL	10.654	14.70	15.50	17.50	18.24	20.00	
802.11be-EHT40 MCS0	3	2422	FuL	20.50	22.00	20.40	22.00	23.46	25.00	100.00
	6	2437	FuL	18.50	18.00	18.80	18.00	19.66	21.00	
	11	2462	FuL	26.00	5.00	5.80	7.50	8.43	10.00	
802.11be-EHT160 MCS0	3	2422	FuL	18.30	20.00	18.60	20.00	21.46	23.00	100.00
		6	2437	FuL	20.30	22.00	20.30	22.00	23.31	
	9	2452	FuL	16.80	18.00	17.00	18.00	19.21	21.00	

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Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a Mbps	36	5180	FuL	19.00	18.80	20.50	22.00	22.00	22.00	99.18
	40	5200	FuL	19.00	20.02	20.50	22.00	22.00	22.00	
	44	5220	FuL	19.00	18.81	20.50	22.00	22.00	22.00	
802.11n-HT20 MCS0	48	5240	FuL	19.00	18.77	20.50	22.00	22.00	22.00	100.00
	36	5180	FuL	19.00	19.55	20.50	22.00	22.00	22.00	
	40	5200	FuL	19.00	19.88	20.50	22.00	22.00	22.00	
802.11n-HT40 MCS0	48	5240	FuL	19.00	20.05	20.50	22.00	22.00	22.00	100.00
	36	5180	FuL	19.00	19.55	20.50	22.00	22.00	22.00	
	40	5200	FuL	19.00	20.00	20.50	22.00	22.00	22.00	
802.11ac-VHT20 MCS0	44	5220	FuL	19.00	20.00	20.50	22.00	22.00	22.00	100.00
	48	5240	FuL	19.00	18.87	20.50	22.00	22.00	22.00	
	36	5180	FuL	19.00	18.50	20.00	22.00	22.00	22.00	
802.11ac-VHT40 MCS0	36	5180	FuL	19.00	18.50	20.00	22.00	22.00	22.00	100.00
	48	5240	FuL	19.00	18.50	20.00	22.00	22.00	22.00	
	40	5200	FuL	19.00	18.50	20.00	22.00	22.00	22.00	
802.11ax-VHT80 MCS0	42	5210	FuL	17.39	19.00	18.65	20.50	20.34	22.00	100.00
	36	5180	FuL	19.00	19.60	20.50	22.00	22.00	22.00	
		260	11.50	10.18	12.00	14.50	17.50	17.50		
802.11ax-HE20 MCS0	40	5200	FuL	17.50	12.61	14.50	17.50	17.50	17.50	100.00
		5237	11.50	12.71	15.50	20.50	20.50	20.50		
	44	5220	FuL	19.00	20.04	20.50	22.00	22.00	22.00	
		10654	12.40	13.06	15.00	17.00	17.00	17.00		
	48	5240	FuL	11.50	10.49	12.00	15.00	15.00	15.00	
		10654	14.50	13.06	15.00	17.00	17.00	17.00		
802.11ax-HE40 MCS0	36	5180	FuL	19.00	18.54	20.00	22.00	22.00	22.00	100.00
	48	5240	FuL	19.00	18.56	20.50	22.00	22.00	22.00	
	40	5200	FuL	19.00	18.67	20.50	22.00	22.00	22.00	
802.11ax-HE80 MCS0	42	5210	FuL	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	100.00
		36	5180	FuL	19.00	19.65	20.50	22.00	22.00	
	260	11.50	10.29	12.00	14.50	17.50	17.50			
802.11be-EHT20 MCS0	40	5200	FuL	19.00	20.11	20.50	22.00	22.00	22.00	100.00
		5237	14.50	12.71	14.50	17.50	17.50	17.50		
	44	5220	FuL	19.00	20.11	20.50	22.00	22.00	22.00	
		10653	17.50	15.62	17.50	20.50	20.50	20.50		
	48	5240	FuL	19.00	20.11	20.50	22.00	22.00	22.00	
		10653	18.00	20.11	20.50	22.00	22.00	22.00		
802.11be-EHT40 MCS0	36	5180	FuL	19.00	19.59	20.00	22.00	22.00	22.00	100.00
	48	5240	FuL	19.00	19.81	20.50	22.00	22.00	22.00	
	10654	18.00	16.41	18.00	21.00	21.00	21.00			
802.11be-EHT160 MCS0	36	5180	FuL	19.00	18.59	20.00	22.00	22.00	22.00	100.00
	48	5240	FuL	19.00	19.81	20.50	22.00	22.00	22.00	
	42	5210	FuL	19.00	18.69	20.00	22.00	22.00	22.00	

<WLAN 5GHz FCC> - Receiver Off Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a Mbps	36	5180	FuL	19.50	19.81	20.50	22.50	22.50	22.50	99.18
	40	5200	FuL	19.50	19.81	20.50	22.50	22.50	22.50	
	44	5220	FuL	19.50	19.81	20.50	22.50	22.50	22.50	
802.11n-HT20 MCS0	48	5240	FuL	19.50	19.77	20.50	22.50	22.50	22.50	100.00
	36	5180	FuL	19.50	19.55	20.50	22.50	22.50	22.50	
	40	5200	FuL	19.50	19.88	20.50	22.50	22.50	22.50	
802.11n-HT40 MCS0	48	5240	FuL	19.50	20.05	20.50	22.50	22.50	22.50	100.00
	36	5180	FuL	19.50	19.55	20.50	22.50	22.50	22.50	
	40	5200	FuL	19.50	20.00	20.50	22.50	22.50	22.50	
802.11ac-VHT20 MCS0	44	5220	FuL	19.50	20.00	20.50	22.50	22.50	22.50	100.00
	48	5240	FuL	19.50	18.87	20.50	22.50	22.50	22.50	
	36	5180	FuL	19.50	18.50	20.00	22.50	22.50	22.50	
802.11ac-VHT40 MCS0	36	5180	FuL	19.50	18.50	20.00	22.50	22.50	22.50	100.00
	48	5240	FuL	19.50	18.50	20.00	22.50	22.50	22.50	
	40	5200	FuL	19.50	18.50	20.00	22.50	22.50	22.50	
802.11ax-VHT160 MCS0	50	5250	FuL	18.1	19.50	18.52	20.5	21.02	22.50	100.00
	32	5260	FuL	19.50	20.03	20.50	22.50	22.50	22.50	
		260	11.50	10.96	12.00	14.50	17.50	17.50		
802.11ax-HE20 MCS0	56	5280	FuL	14.50	12.37	14.50	17.50	17.50	17.50	100.00
		5237	11.50	12.49	14.50	17.50	17.50	17.50		
	60	5300	FuL	19.50	19.52	20.50	22.50	22.50	22.50	
		10653	18.00	15.63	17.50	20.50	20.50	20.50		
	64	5320	FuL	19.50	19.52	20.50	22.50	22.50	22.50	
		10653	18.00	16.14	18.00	21.00	21.00	21.00		
802.11ax-HE40 MCS0	54	5270	FuL	19.50	20.03	20.50	22.50	22.50	22.50	100.00
	62	5310	FuL	19.50	17.64	19.50	22.50	22.50	22.50	
	36	5180	FuL	19.50	17.88	19.50	22.50	22.50	22.50	
802.11ax-HE160 MCS0	50	5250	FuL	19.50	18.53	20.5	22.50	22.50	22.50	100.00
	32	5260	FuL	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	
		260	11.50	10.18	12.00	14.50				



Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a (Mbps)	100	5500	Full	18.00	19.41	20.50	21.00	18.00	19.99	20.50	99.18	
	116	5560	Full	18.00	19.99	20.50	21.00	18.00	18.67	20.50	21.50	
	132	5660	Full	18.00	19.74	20.50	21.00	18.00	18.84	20.50	21.50	
	140	5700	Full	18.00	19.68	20.50	21.00	18.00	18.83	20.50	21.50	
802.11a-VHT20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.72	20.50	21.00	18.00	19.95	20.50	21.50	
	132	5660	Full	18.00	19.62	20.50	21.00	18.00	18.79	20.50	21.50	
	140	5700	Full	18.00	19.57	20.50	21.00	18.00	18.68	20.50	21.50	
802.11a-VHT40 MCS0	102	5510	Full	Not Required	18.00	18.75	20.50	21.00	18.00	18.87	20.50	100.00
	110	5550	Full	Not Required	18.00	19.99	20.50	21.00	18.00	19.85	20.50	21.50
	134	5670	Full	Not Required	18.00	20.00	20.50	21.00	18.00	19.45	20.50	21.50
	100	5500	Full	Not Required	18.00	19.25	20.50	21.00	18.00	19.30	20.50	21.50
802.11a-VHT20 MCS0	116	5560	Full	18.00	19.62	20.50	21.00	18.00	19.07	20.50	100.00	
	132	5660	Full	18.00	19.43	20.50	21.00	18.00	18.99	20.50	21.50	
	140	5700	Full	18.00	19.53	20.50	21.00	18.00	18.84	20.50	21.50	
	102	5510	Full	18.00	18.71	20.50	21.00	18.00	18.85	20.50	21.50	
802.11a-VHT40 MCS0	110	5550	Full	18.00	19.93	20.50	21.00	18.00	19.82	20.50	100.00	
	134	5670	Full	18.00	19.96	20.50	21.00	18.00	19.42	20.50	21.50	
	106	5530	Full	16.20	18.00	18.71	20.50	19.45	18.00	18.52	20.50	19.75
	100	5500	Full	18.00	20.08	20.50	21.00	18.00	19.33	20.50	21.50	
802.11a-HE20 MCS0	100	5500	Full	11.50	10.96	12.00	15.00	11.50	9.77	11.50	14.50	
			2600	14.00	12.87	14.50	17.50	14.50	12.11	14.00	17.00	
			5237	17.00	16.26	18.00	20.50	17.50	15.50	17.50	20.50	
			10653	18.00	19.92	20.50	21.00	18.00	19.14	20.50	21.50	
	116	5560	Full	18.00	19.79	20.50	21.00	18.00	18.99	20.50	21.50	
	132	5660	Full	18.00	19.77	20.50	21.00	18.00	18.93	20.50	21.50	
	140	5700	Full	12.00	10.04	12.00	15.00	11.50	9.24	11.50	14.50	
			2608	14.00	12.95	14.50	17.50	14.50	12.31	14.00	17.50	
			5240	17.00	16.18	18.00	20.50	17.50	15.77	17.50	20.50	
			10654	18.00	18.78	20.50	21.00	18.00	18.89	20.50	21.50	
	110	5550	Full	18.00	19.99	20.50	21.00	18.00	19.87	20.50	21.50	
	134	5670	Full	18.00	20.04	20.50	21.00	18.00	19.47	20.50	21.50	
802.11a-HE40 MCS0	106	5530	Full	Not Required	18.00	18.73	20.50	21.00	18.00	18.54	20.50	100.00
			2600	18.00	20.11	20.50	21.00	18.00	19.38	20.50	21.50	
			5200	11.50	10.67	12.50	15.00	11.50	9.93	11.50	14.50	
			10653	14.00	12.98	14.50	17.50	14.00	12.23	14.00	17.00	
802.11a-EHT20 MCS0	116	5560	Full	18.00	20.03	20.50	21.00	18.00	19.16	20.50	100.00	
	132	5660	Full	18.00	19.97	20.50	21.00	18.00	19.13	20.50	21.50	
			2600	18.00	19.86	20.50	21.00	18.00	18.99	20.50	21.50	
			5237	17.00	16.18	18.00	20.50	17.50	15.50	17.50	20.50	
802.11a-EHT40 MCS0	102	5510	Full	18.00	18.82	20.50	21.00	18.00	18.81	20.50	100.00	
	110	5550	Full	18.00	20.05	20.50	21.00	18.00	19.89	20.50	21.50	
	134	5670	Full	18.00	20.06	20.50	21.00	18.00	19.56	20.50	21.50	
	106	5530	Full	18.00	19.76	20.50	21.00	18.00	18.86	20.50	21.50	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a (Mbps)	149	5745	Full	18.00	19.66	21.00	21.50	18.00	19.50	21.50	99.18	
	157	5785	Full	18.00	19.58	21.00	21.50	18.00	19.50	21.50	21.50	
	165	5825	Full	18.00	19.61	21.00	21.50	18.00	19.50	21.50	21.50	
	149	5745	Full	18.00	19.66	21.00	21.50	18.00	19.50	21.50	100.00	
802.11a-VHT20 MCS0	149	5745	Full	18.00	19.58	21.00	21.50	18.00	19.50	21.50	100.00	
	157	5785	Full	18.00	19.58	21.00	21.50	18.00	19.50	21.50	21.50	
	165	5825	Full	18.00	19.66	21.00	21.50	18.00	19.50	21.50	21.50	
	149	5745	Full	18.00	20.20	21.00	21.50	18.00	19.50	21.50	100.00	
802.11a-VHT40 MCS0	151	5765	Full	Not Required	18.00	20.21	21.50	21.50	18.00	19.50	21.50	
	159	5785	Full	Not Required	18.00	20.20	21.50	21.50	18.00	19.50	21.50	
	149	5745	Full	18.00	19.61	21.00	21.50	18.00	19.50	21.50	100.00	
	157	5785	Full	18.00	19.50	21.00	21.50	18.00	19.50	21.50	21.50	
802.11a-VHT20 MCS0	149	5745	Full	18.00	19.61	21.00	21.50	18.00	19.50	21.50	100.00	
	157	5785	Full	18.00	19.50	21.00	21.50	18.00	19.50	21.50	21.50	
	165	5825	Full	18.00	19.63	21.00	21.50	18.00	19.40	21.50	21.50	
	151	5765	Full	18.00	20.17	21.50	21.50	18.00	19.50	21.50	100.00	
802.11a-VHT40 MCS0	159	5785	Full	18.00	19.76	21.00	21.50	18.00	18.81	20.50	100.00	
	155	5775	Full	16.71	18.50	19.89	21.50	19.81	18.00	18.53	19.50	19.58
			2600	18.00	19.79	21.00	21.50	18.00	19.30	21.50	21.50	
			5200	12.00	9.88	11.50	15.00	12.00	10.00	11.50	14.50	
802.11a-HE20 MCS0	149	5745	Full	14.50	12.79	14.50	17.50	14.50	13.50	15.00	17.00	
			5237	17.50	15.93	17.50	20.50	17.50	15.00	17.00	20.00	
			10653	18.00	19.84	21.50	21.50	18.00	19.50	21.50	21.50	
	157	5785	Full	18.00	19.84	21.50	21.50	18.00	19.50	21.50	21.50	
	165	5825	Full	12.00	9.46	11.00	14.50	11.50	9.50	11.00	14.00	
			2608	14.00	12.32	14.00	17.00	14.50	13.00	14.00	16.50	
			5240	17.00	15.63	17.50	20.50	17.50	15.00	17.00	20.00	
			10654	18.00	20.26	21.50	21.50	18.00	19.50	21.50	21.50	
	151	5765	Full	18.00	20.23	21.50	21.50	18.00	19.50	21.50	100.00	
	159	5785	Full	18.00	20.12	21.50	21.50	18.00	19.50	21.50	21.50	
	149	5745	Full	18.00	19.87	21.00	21.50	18.00	19.50	21.50	100.00	
	157	5785	Full	12.00	10.01	12.00	15.00	11.50	9.24	11.50	14.50	
802.11a-EHT20 MCS0	149	5745	Full	18.00	19.86	21.00	21.50	18.00	19.50	21.50	100.00	
	157	5785	Full	18.00	19.86	21.00	21.50	18.00	19.50	21.50	21.50	
			2600	12.00	9.99	11.50	14.50	11.50	9.50	11.00	14.00	
			5237	14.00	12.88	14.50	17.50	14.50	12.31	14.00	17.00	
802.11a-EHT40 MCS0	151	5765	Full	18.00	20.34	21.50	21.50	18.00	19.50	21.50	100.00	
	159	5785	Full	18.00	20.38	21.50	21.50	18.00	19.50	21.50	21.50	
			2600	12.00	10.16	12.00	15.00	11.50	9.24	11.50	14.50	
			5237	14.00	12.88	14.50	17.50	14.50	12.31	14.00	17.00	
802.11b-EHT20 MCS0	157	5785	Full	18.00	19.86	21.00	21.50	18.00	19.50	21.50	100.00	
	165	5825	Full	18.00	19.86	21.00	21.50	18.00	19.50	21.50	21.50	
			2608	12.00	9.99	11.50	14.50	11.50	9.50	11.00	14.00	
			5240	14.00	12.45	14.00	17.00	14.50	13.00	14.00	16.50	
802.11b-EHT40 MCS0	151	5765	Full	18.00	20.34	21.50	21.50	18.00	19.50	21.50	100.00	
	159	5785	Full	18.00	20.38	21.50	21.50	18.00	19.50	21.50	21.50	
			2600	12.00	10.16	12.00	15.00	11.50	9.24	11.50	14.50	
			5237	14.00	12.88	14.50	17.50	14.50	12.31	14.00	17.00	
802.11b-EHT80 MCS0	155	5775	Full	18.00	20.23	21.50	21.50	18.00	19.50	21.50	100.00	
			2600	18.00	20.11	20.50	21.00	18.00	19.38	20.50	21.50	
			5200	11.50	10.67	12.50	15.00	11.50	9.93	11.50	14.50	
			10653	14.00	12.98	14.50	17.50	14.00				



<WLAN 2.4GHz FCC> - Receiver Off Simultaneous Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 4			Ant 5			Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a-1Mbps	1	2412	Full	19.50	21.50	19.75	21.50	22.75	24.50	100.00
	6	2437	Full	19.50	21.50	19.80	21.50	22.81	24.50	
	11	2462	Full	19.50	21.50	19.60	21.50	22.61	24.50	
802.11g-6Mbps	1	2412	Full	19.50	21.50	19.50	21.50	22.50	24.50	99.32
	6	2437	Full	20.20	22.00	20.10	22.00	23.15	25.00	
	11	2462	Full	17.70	19.00	18.00	19.00	19.45	21.00	
802.11n-HT20 MCS0	1	2412	Full	18.50	20.50	19.30	20.50	22.07	23.50	100.00
	6	2437	Full	20.20	22.00	20.20	22.00	23.21	25.00	
	11	2462	Full	19.50	21.50	19.60	21.50	19.71	21.00	
802.11n-HT40 MCS0	3	2422	Full	18.10	20.00	18.40	20.00	21.26	23.00	100.00
	6	2437	Full	20.10	22.00	20.10	22.00	23.11	25.00	
	9	2452	Full	19.60	19.50	19.60	19.50	19.71	21.00	
802.11ac-VHT20 MCS0	1	2412	Full	18.70	20.50	19.20	20.50	21.97	23.50	100.00
	6	2437	Full	20.10	22.00	20.10	22.00	23.11	25.00	
	11	2462	Full	19.20	19.00	19.20	19.00	19.35	21.00	
802.11ac-VHT40 MCS0	3	2422	Full	18.00	20.00	18.30	20.00	21.61	23.00	100.00
	6	2437	Full	20.00	22.00	20.00	22.00	23.01	25.00	
	9	2452	Full	19.50	18.00	19.70	18.00	19.61	21.00	
802.11ax-HE20 MCS0	1	2412	Full	18.50	20.50	19.40	20.50	22.17	23.50	100.00
	6	2437	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	11	2462	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	16	2487	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	20	2512	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	24	2537	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	28	2562	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	32	2587	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	36	2612	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	40	2637	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	44	2662	Full	18.50	20.50	18.50	20.50	21.50	23.50	
802.11ax-HE40 MCS0	3	2422	Full	18.20	20.20	18.50	20.20	22.21	23.00	100.00
	6	2437	Full	19.20	21.20	19.20	21.20	22.21	24.00	
	9	2452	Full	18.70	18.00	18.90	18.00	19.81	21.00	
	12	2477	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	15	2502	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	18	2527	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	21	2552	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	23	2577	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	25	2602	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	27	2627	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	29	2652	Full	18.20	20.20	18.20	20.20	21.21	23.00	
802.11be-EHT20 MCS0	1	2412	Full	19.50	21.50	19.50	21.50	22.50	24.50	100.00
	6	2437	Full	20.50	22.50	20.40	22.50	23.46	25.00	
	10	2467	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	14	2497	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	18	2527	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	22	2557	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	26	2587	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	30	2617	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	34	2647	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	38	2677	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	42	2707	Full	19.50	21.50	19.50	21.50	22.50	24.50	
802.11be-EHT40 MCS0	3	2422	Full	18.20	20.20	18.50	20.20	21.46	23.00	100.00
	6	2437	Full	19.20	21.20	19.20	21.20	22.21	24.00	
	9	2452	Full	18.70	18.00	18.90	18.00	19.81	21.00	
	12	2477	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	15	2502	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	18	2527	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	21	2552	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	23	2577	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	25	2602	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	27	2627	Full	18.20	20.20	18.20	20.20	21.21	23.00	
	29	2652	Full	18.20	20.20	18.20	20.20	21.21	23.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5			Ant 6			Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a-1Mbps	1	2412	Full	19.50	21.50	18.50	20.00	22.27	24.00	100.00
	6	2437	Full	19.80	21.50	18.80	20.00	22.34	24.00	
	11	2462	Full	19.50	21.50	18.50	20.00	22.11	24.00	
802.11g-6Mbps	1	2412	Full	19.50	21.50	19.50	21.50	22.50	24.50	99.32
	6	2437	Full	20.40	22.00	19.20	20.50	22.85	24.50	
	11	2462	Full	18.50	19.50	18.50	19.50	19.74	21.00	
802.11n-HT20 MCS0	1	2412	Full	18.50	20.00	17.50	18.50	21.27	22.50	100.00
	6	2437	Full	20.40	22.00	19.10	20.50	22.81	24.00	
	11	2462	Full	17.50	18.50	17.50	18.50	19.98	21.00	
802.11n-HT40 MCS0	3	2422	Full	19.30	20.00	17.60	18.50	21.54	22.50	100.00
	6	2437	Full	20.30	22.00	18.80	20.00	22.62	24.00	
	9	2452	Full	17.80	18.50	17.80	18.50	19.20	21.00	
802.11ac-VHT20 MCS0	1	2412	Full	18.80	20.50	17.40	18.50	21.17	22.50	100.00
	6	2437	Full	20.30	22.00	19.00	20.50	22.71	24.00	
	11	2462	Full	17.40	18.50	17.40	18.50	19.72	21.00	
802.11ac-VHT40 MCS0	3	2422	Full	19.20	20.00	17.50	18.50	21.44	22.50	100.00
	6	2437	Full	20.20	22.00	18.70	20.00	22.92	24.00	
	9	2452	Full	17.70	18.50	17.70	18.50	19.88	21.00	
802.11ax-HE20 MCS0	1	2412	Full	18.50	20.50	17.60	18.50	21.47	22.50	100.00
	6	2437	Full	19.50	21.50	18.50	20.00	22.50	24.50	
	11	2462	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	16	2487	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	20	2512	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	24	2537	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	28	2562	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	32	2587	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	36	2612	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	40	2637	Full	18.50	20.50	18.50	20.50	21.50	23.50	
	44	2662	Full	18.50	20.50	18.50	20.50	21.50	23.50	
802.11ax-HE40 MCS0	3	2422	Full	18.20	20.20	17.80	19.00	20.82	21.50	100.00
	6	2437	Full	19.20	21.20	18.00	20.00	22.29	24.00	
	9	2452	Full	18.00	18.00	18.40	17.00	20.29	21.00	
	12	2477	Full	18.20	20.20	18.20	20.20	21.47	23.00	
	15	2502	Full	18.20	20.20	18.20	20.20	21.47	23.00	
	18	2527	Full	18.20	20.20	18.20	20.20	21.47	23.00	
	21	2552	Full	18.20	20.20	18.20	20.20	21.47	23.00	
	23	2577	Full	18.20	20.20	18.20	20.20	21.47	23.00	
	25	2602	Full	18.20	20.20	18.20	20.20	21.47	23.00	
	27	2627	Full	18.20	20.20	18.20	20.20	21.47	23.00	
	29	2652	Full	18.20	20.20	18.20	20.20	21.47	23.00	
802.11be-EHT20 MCS0	1	2412	Full	19.50	21.50	19.50	21.50	22.50	24.50	100.00
	6	2437	Full	20.50	22.50	20.40	22.50	23.46	25.00	
	10	2467	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	14	2497	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	18	2527	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	22	2557	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	26	2587	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	30	2617	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	34	2647	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	38	2677	Full	19.50	21.50	19.50	21.50	22.50	24.50	
	42	2707	Full	19.50	21.50	19.50	21.50	22.50	24.50	
802.11be-EHT40 MCS0	3	2422	Full	18.20	20.20	18.50	20.00	21.74	22.50	100.00
	6	2								



Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5500	Full	18.00	18.41	20.50	21.00	21.00	21.00	99.18
	116	5580	Full	18.00	19.96	20.50	21.00	21.00	21.00	
	132	5660	Full	18.00	19.74	20.50	21.00	21.00	21.00	
	140	5700	Full	18.00	19.69	20.50	21.00	21.00	21.00	
802.11a-HT20 MCS0	100	5500	Full	18.00	19.75	20.50	21.00	21.00	21.00	100.00
	116	5580	Full	18.00	19.75	20.50	21.00	21.00	21.00	
	132	5660	Full	18.00	19.62	20.50	21.00	21.00	21.00	
	140	5700	Full	18.00	19.67	20.50	21.00	21.00	21.00	
802.11a-VHT40 MCS0	102	5510	Full	18.00	18.75	20.50	21.00	21.00	21.00	100.00
	110	5550	Full	18.00	19.99	20.50	21.00	21.00	21.00	
	134	5670	Full	18.00	20.00	20.50	21.00	21.00	21.00	
	100	5500	Full	18.00	19.28	20.50	21.00	21.00	21.00	
802.11ac-VHT20 MCS0	116	5580	Full	18.00	19.92	20.50	21.00	21.00	21.00	100.00
	132	5660	Full	18.00	19.43	20.50	21.00	21.00	21.00	
	140	5700	Full	18.00	19.53	20.50	21.00	21.00	21.00	
	102	5510	Full	18.00	18.71	20.50	21.00	21.00	21.00	
802.11ac-VHT40 MCS0	110	5550	Full	18.00	19.95	20.50	21.00	21.00	21.00	100.00
	134	5670	Full	18.00	19.96	20.50	21.00	21.00	21.00	
	106	5530	Full	18.00	18.71	20.50	21.00	21.00	21.00	
	100	5500	Full	18.00	20.08	20.50	21.00	21.00	21.00	
802.11ac-HE20 MCS0	100	5500	Full	18.00	20.08	20.50	21.00	21.00	21.00	100.00
				260	11.50	10.56	12.00	15.00	15.00	
				5237	14.00	12.87	14.00	17.50	17.50	
				10653	17.00	16.28	18.00	20.50	20.50	
	116	5580	Full	18.00	19.92	20.50	21.00	21.00	21.00	
	132	5660	Full	18.00	19.79	20.50	21.00	21.00	21.00	
	140	5700	Full	18.00	19.77	20.50	21.00	21.00	21.00	
				268	12.00	10.04	12.00	15.00	15.00	
				5249	14.00	12.95	14.00	17.50	17.50	
				10654	17.00	16.18	18.00	20.50	20.50	
	110	5550	Full	18.00	19.95	20.50	21.00	21.00	21.00	
	134	5670	Full	18.00	19.99	20.50	21.00	21.00	21.00	
106	5530	Full	18.00	18.73	20.50	21.00	21.00	21.00		
100	5500	Full	18.00	20.11	20.50	21.00	21.00	21.00		
			260	11.50	10.67	12.00	15.00	15.00		
			5237	14.50	12.98	14.50	17.50	17.50		
			10653	17.00	16.03	18.00	20.50	20.50		
116	5580	Full	18.00	20.03	20.50	21.00	21.00	21.00		
132	5660	Full	18.00	19.97	20.50	21.00	21.00	21.00		
140	5700	Full	18.00	19.81	20.50	21.00	21.00	21.00		
			268	12.00	10.19	12.00	15.00	15.00		
			5240	14.00	13.06	13.00	17.00	17.00		
			10654	17.00	16.29	18.00	21.00	21.00		
102	5510	Full	18.00	18.82	20.50	21.00	21.00	21.00		
110	5550	Full	18.00	19.95	20.50	21.00	21.00	21.00		
134	5670	Full	18.00	20.05	20.50	21.00	21.00	21.00		
106	5530	Full	18.00	18.76	20.50	21.00	21.00	21.00		

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	149	5745	Full	18.50	19.65	21.00	21.50	21.50	21.50	99.18
	157	5785	Full	18.50	19.58	21.00	21.50	21.50	21.50	
	165	5825	Full	18.50	19.61	21.00	21.50	21.50	21.50	
	149	5745	Full	18.50	19.66	21.00	21.50	21.50	21.50	
802.11a-HT20 MCS0	149	5745	Full	18.50	19.56	21.00	21.50	21.50	21.50	100.00
	157	5785	Full	18.50	19.50	21.00	21.50	21.50	21.50	
	165	5825	Full	18.50	19.69	21.00	21.50	21.50	21.50	
	151	5755	Full	18.50	20.21	21.50	21.50	21.50	21.50	
802.11a-VHT40 MCS0	159	5795	Full	18.50	20.20	21.50	21.50	21.50	21.50	100.00
	149	5745	Full	18.50	19.61	21.00	21.50	21.50	21.50	
	157	5785	Full	18.50	19.50	21.00	21.50	21.50	21.50	
	165	5825	Full	18.50	19.63	21.00	21.50	21.50	21.50	
802.11ac-VHT40 MCS0	151	5755	Full	18.50	20.17	21.50	21.50	21.50	21.50	100.00
	159	5795	Full	18.50	20.16	21.50	21.50	21.50	21.50	
	155	5775	Full	18.50	19.89	21.00	21.50	21.50	21.50	
	149	5745	Full	18.50	19.79	21.00	21.50	21.50	21.50	
802.11ac-HE20 MCS0	149	5745	Full	18.50	19.79	21.00	21.50	21.50	21.50	100.00
				260	12.00	9.88	11.50	15.00	15.00	
				5237	14.00	12.76	14.00	17.50	17.50	
				10653	17.00	15.93	17.50	20.50	20.50	
	157	5785	Full	18.50	19.84	21.00	21.50	21.50	21.50	
	165	5825	Full	18.50	19.78	21.00	21.50	21.50	21.50	
	151	5755	Full	18.50	20.46	21.50	21.50	21.50	21.50	
				268	12.00	9.46	11.50	14.50	14.50	
				5240	14.00	12.32	14.00	17.00	17.00	
				10654	17.00	15.63	17.50	20.50	20.50	
	151	5755	Full	18.50	20.38	21.50	21.50	21.50	21.50	
	159	5795	Full	18.50	20.22	21.50	21.50	21.50	21.50	
155	5775	Full	18.50	20.12	21.00	21.50	21.50	21.50		
149	5745	Full	18.50	19.87	21.00	21.50	21.50	21.50		
			260	12.00	10.01	12.00	15.00	15.00		
			5237	14.50	12.86	14.50	17.50	17.50		
			10653	17.00	15.98	18.00	20.50	20.50		
157	5785	Full	18.50	19.92	21.00	21.50	21.50	21.50		
165	5825	Full	18.50	19.86	21.00	21.50	21.50	21.50		
			268	12.00	9.99	11.50	14.50	14.50		
			5240	14.50	12.48	14.50	17.50	17.50		
			10654	17.00	15.76	17.50	20.50	20.50		
151	5755	Full	18.50	20.34	21.50	21.50	21.50	21.50		
159	5795	Full	18.50	20.38	21.50	21.50	21.50	21.50		
155	5775	Full	18.50	20.23	21.50	21.50	21.50	21.50		

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 6		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5500	Full	18.00	18.00	18.50	21.50	21.50	21.50	99.18
	116	5580	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	132	5660	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	140	5700	Full	18.00	18.00	18.50	21.50	21.50	21.50	
802.11a-HT20 MCS0	100	5500	Full	18.00	18.00	18.50	21.50	21.50	21.50	100.00
	116	5580	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	132	5660	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	140	5700	Full	18.00	18.00	18.50	21.50	21.50	21.50	
802.11a-VHT40 MCS0	102	5510	Full	18.00	18.00	18.50	21.50	21.50	21.50	100.00
	110	5550	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	134	5670	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	100	5500	Full	18.00	18.00	18.50	21.50	21.50	21.50	
802.11ac-VHT20 MCS0	116	5580	Full	18.00	18.00	18.50	21.50	21.50	21.50	100.00
	132	5660	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	140	5700	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	102	5510	Full	18.00	18.00	18.50	21.50	21.50	21.50	
802.11ac-VHT40 MCS0	110	5550	Full	18.00	18.00	18.50	21.50	21.50	21.50	100.00
	134	5670	Full	18.00	18.00	18.50	21.50	21.50	21.50	
	106	5530	Full	16.90	18.00	18.00	19.75	21.50	21.50	
	100	5500	Full	18.00	18.00	18.00	18.00	19.50	21.50	
802.11ac-HE20 MCS0	100	5500	Full	18.00	18.00	18.00	21.50	21.50	21.50	100.00
				260	11.50	11.50	14.50	14.50		
				5237	14.00	14.00	17.00	17.00		
				10653	17.00	17.00	20.00	20.00		
	116	5580	Full	18.00	18.00	18.50	21.50	21.50		
	132	5660	Full	18.00	18.00	18.50	21.50	21.50		
	140	5700	Full	18.00	18.00	18.50	21.50	21.50		
				268	11.50	11.50	14.50	14.50		



<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4		Average power (dBm)_Ant 5+4	
			1Mbps	tune-up limit	1Mbps	tune-up limit	1Mbps	tune-up limit
BR / EDR	CH 00	2402	13.60	15.00	12.50	14.00	16.25	18.00
	CH 39	2441	13.60	17.00	13.20	15.00	17.67	19.00
	CH 75	2480	13.50	15.00	11.10	13.00	15.67	17.00

<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6		Average power (dBm)_Ant 5+6	
			1Mbps	tune-up limit	1Mbps	tune-up limit	1Mbps	tune-up limit
BR / EDR	CH 00	2402	13.80	15.00	11.90	13.50	15.90	17.50
	CH 39	2441	13.80	17.00	12.10	13.50	17.20	19.00
	CH 75	2480	13.80	15.00	9.20	11.00	15.17	17.00

<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4		Average power (dBm)_Ant 5+4	
			2Mbps	tune-up limit	2Mbps	tune-up limit	2Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	10.00	12.00	13.54	15.00
	CH 39	2441	13.30	15.00	10.80	13.00	15.24	17.00
	CH 75	2480	11.30	13.00	9.40	10.00	13.10	15.00

<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6		Average power (dBm)_Ant 5+6	
			2Mbps	tune-up limit	2Mbps	tune-up limit	2Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	9.40	11.00	13.28	15.00
	CH 39	2441	13.30	15.00	10.50	12.00	15.13	17.00
	CH 75	2480	11.30	13.00	9.20	9.00	12.50	14.00

<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4		Average power (dBm)_Ant 5+4	
			3Mbps	tune-up limit	3Mbps	tune-up limit	3Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	10.00	12.00	13.54	15.00
	CH 39	2441	13.30	15.00	10.80	13.00	15.24	17.00
	CH 75	2480	11.30	13.00	9.40	10.00	13.10	15.00

<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6		Average power (dBm)_Ant 5+6	
			3Mbps	tune-up limit	3Mbps	tune-up limit	3Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	9.00	11.00	13.12	15.00
	CH 39	2441	13.30	15.00	10.50	12.00	15.13	17.00
	CH 75	2480	11.30	13.00	9.20	9.00	12.50	14.00

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Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4	
			1Mbps	2Mbps	1Mbps	2Mbps
LE	CH 00	2402	6.10	6.20	5.40	5.50
	CH 19	2440	7.70	7.80	5.70	5.80
	CH 39	2480	6.30	6.40	3.80	3.90
	Tune-up Limit		8	8	7	7

BLE

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6	
			1Mbps	2Mbps	1Mbps	2Mbps
LE	CH 00	2402	6.10	6.20	4.70	4.80
	CH 19	2440	7.70	7.80	4.80	4.90
	CH 39	2480	6.30	6.40	2.70	2.80
	Tune-up Limit		8	8	6	6

BLE

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4	
			1250Kbps	5000Kbps	1250Kbps	5000Kbps
LE	CH 00	2402	6.10	6.00	5.50	5.40
	CH 19	2440	7.70	7.70	5.50	5.70
	CH 39	2480	6.50	6.40	3.90	3.80
	Tune-up Limit		8	8	7	7

BLE

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6	
			1250Kbps	5000Kbps	1250Kbps	5000Kbps
LE	CH 00	2402	6.10	6.00	4.60	4.70
	CH 19	2440	7.70	7.70	4.70	4.80
	CH 39	2480	6.50	6.40	1.90	2.00
	Tune-up Limit		8	8	6	6