

Full & Default Power

GSM50_Ant 1	Burst Average Power (dBm)				Frame Average Power (dBm)				Tune-up Limit (dBm)	
	128	189	251	340	128	189	251	340		
TX Channel	824.2	836.4	848.6	860.8	824.2	836.4	848.6	860.8		
Frequency (MHz)	824.2	836.4	848.6	860.8	824.2	836.4	848.6	860.8		
GSM 1 Tx slot	32.75	32.80	32.77	34.00	23.75	23.80	23.77	25.00		
GPRS 1 Tx slot	32.72	32.77	32.69	34.00	23.72	23.77	23.69	25.00		
GPRS 2 Tx slots	29.83	29.70	29.68	31.00	23.83	23.70	23.68	25.00		
GPRS 3 Tx slots	27.88	27.93	27.85	29.20	23.82	23.67	23.59	24.94		
GPRS 4 Tx slots	27.15	26.68	26.70	28.80	24.15	23.88	23.70	25.50		
EDGE(GMSK 1 Tx slot)	32.57	32.75	32.54	34.00	23.57	23.75	23.54	25.00		
EDGE(GMSK 2 Tx slot)	29.68	29.55	29.63	31.00	23.68	23.55	23.63	25.00		
EDGE(GMSK 3 Tx slot)	27.73	27.91	27.71	29.20	23.47	23.65	23.45	24.94		
EDGE(GMSK 4 Tx slot)	27.05	26.66	26.55	28.80	24.05	23.66	23.55	25.50		
EDGE 1 Tx slot	26.95	26.77	26.82	28.00	17.95	17.77	17.82	19.00		
EDGE 2 Tx slots	23.85	23.79	23.70	25.00	17.85	17.79	17.70	19.00		
EDGE 3 Tx slots	22.08	21.68	21.66	23.50	17.82	17.42	17.40	19.24		
EDGE 4 Tx slots	21.00	20.66	20.69	22.50	18.00	17.68	17.69	19.50		
DTM Multi-slot class 5	GSM 1 Tx slot	29.54	29.44	29.58	31.00	23.56	23.44	23.57	24.98	
	GPRS 1 Tx slot	29.62	29.48	29.60	31.00					
DTM Multi-slot class 9	GSM 1 Tx slot	29.55	29.41	29.50	31.00	23.55	23.43	23.49	24.98	
	GPRS 1 Tx slot	29.59	29.49	29.53	31.00					
DTM Multi-slot class 11	GSM 1 Tx slot	27.59	27.76	27.56	29.20	23.35	23.56	23.31	24.94	
	GPRS 2 Tx slots	27.62	27.85	27.58	29.20					
DTM Multi-slot class 5	GSM 1 Tx slot	29.61	29.48	29.51	31.00	23.56	23.46	23.48	24.94	
	EDGE 1 Tx slot	23.80	23.66	23.84	25.00					
DTM Multi-slot class 9	GSM 1 Tx slot	29.60	29.46	29.54	31.00	21.57	21.44	21.49	22.94	
	EDGE 1 Tx slot	23.72	23.66	23.57	25.00					
DTM Multi-slot class 11	GSM 1 Tx slot	27.60	27.83	27.60	29.20	20.46	20.50	20.32	22.04	
	EDGE 2 Tx slots	21.96	21.62	21.55	23.50					

GSM1900_Ant 5	Burst Average Power (dBm)				Frame Average Power (dBm)				Tune-up Limit (dBm)	
	512	661	810	1000	512	661	810	1000		
TX Channel	1650.2	1660	1670	1680.8	1650.2	1660	1670.8	1680.8		
Frequency (MHz)	1650.2	1660	1670	1680.8	1650.2	1660	1670.8	1680.8		
GSM 1 Tx slot	30.66	30.60	30.77	31.90	21.66	21.60	21.77	22.50		
GPRS 1 Tx slot	30.63	30.57	30.72	31.90	21.63	21.57	21.72	22.50		
GPRS 2 Tx slots	27.00	26.97	26.92	28.00	21.00	20.97	20.92	22.00		
GPRS 3 Tx slots	25.22	25.28	25.52	26.50	20.96	21.02	21.26	22.24		
GPRS 4 Tx slots	24.20	24.30	24.55	25.50	21.20	21.30	21.55	22.50		
EDGE(GMSK 1 Tx slot)	30.48	30.48	30.63	31.90	21.48	21.48	21.63	22.50		
EDGE(GMSK 2 Tx slot)	26.99	26.87	26.86	28.00	20.99	20.87	20.86	22.00		
EDGE(GMSK 3 Tx slot)	25.08	25.26	25.41	26.50	20.82	21.00	21.15	22.24		
EDGE(GMSK 4 Tx slot)	24.06	24.15	24.53	25.50	21.06	21.15	21.53	22.50		
EDGE 1 Tx slot	26.20	26.15	26.12	27.00	17.20	17.15	17.12	18.00		
EDGE 2 Tx slots	23.10	23.22	23.16	24.00	17.10	17.22	17.16	18.00		
EDGE 3 Tx slots	21.88	22.00	21.92	22.80	17.82	17.74	17.66	18.54		
EDGE 4 Tx slots	21.65	21.70	21.64	22.60	18.65	18.70	18.64	19.60		
DTM Multi-slot class 5	GSM 1 Tx slot	26.86	26.74	26.76	28.00	20.86	20.74	20.77	21.98	
	GPRS 1 Tx slot	26.91	26.79	26.82	28.00					
DTM Multi-slot class 9	GSM 1 Tx slot	26.87	26.72	26.76	28.00	20.85	20.74	20.75	21.98	
	GPRS 1 Tx slot	26.88	26.81	26.79	28.00					
DTM Multi-slot class 11	GSM 1 Tx slot	24.96	25.11	25.34	26.50	19.72	20.88	21.14	22.24	
	GPRS 2 Tx slots	24.99	25.16	25.43	26.50					
DTM Multi-slot class 5	GSM 1 Tx slot	26.87	26.80	26.79	28.00	20.33	19.31	19.31	20.42	
	EDGE 1 Tx slot	23.00	23.09	23.11	24.00					
DTM Multi-slot class 9	GSM 1 Tx slot	26.88	26.78	26.80	28.00	19.35	19.30	19.30	20.42	
	EDGE 1 Tx slot	23.04	23.12	23.07	24.00					
DTM Multi-slot class 11	GSM 1 Tx slot	25.00	25.13	25.29	26.50	18.87	18.98	19.03	20.15	
	EDGE 2 Tx slots	21.76	21.85	21.79	22.80					

Band	WCDMA_R_Ant 0				WCDMA_R_Ant 5				
	TX Channel	9262	9400	9538	TX Channel	9262	9400	9538	
Rx Channel	8662	8800	8938	8662	8800	8938	8662	8800	
Frequency (MHz)	1852.4	1890	1907.6	1852.4	1890	1907.6	1852.4	1890	
3GPP Rel 99	AMR 12.2Kbps	23.26	23.29	23.21	24.80	24.17	24.22	24.14	25.00
3GPP Rel 99	RMC 12.2Kbps	23.32	23.35	23.30	24.80	24.22	24.30	24.20	25.00
3GPP Rel 6	HSDPA Subtest-1	22.44	22.51	22.45	23.80	23.48	23.54	23.44	24.00
3GPP Rel 6	HSDPA Subtest-2	22.48	22.53	22.47	23.80	23.51	23.56	23.47	24.00
3GPP Rel 6	HSDPA Subtest-3	21.94	22.02	21.98	23.30	23.02	23.06	22.96	23.00
3GPP Rel 6	HSDPA Subtest-4	21.95	21.99	21.95	23.30	22.97	23.05	22.94	23.00
3GPP Rel 6	DC-HSDPA Subtest-1	22.35	22.36	22.37	23.80	23.43	23.44	23.38	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.36	22.46	22.32	23.80	23.36	23.51	23.34	24.00
3GPP Rel 6	DC-HSDPA Subtest-3	21.85	21.95	21.86	23.30	22.92	22.99	22.89	23.00
3GPP Rel 6	DC-HSDPA Subtest-4	21.82	21.93	21.80	23.30	22.85	23.00	22.84	23.00
3GPP Rel 6	HSUPA Subtest-1	22.47	22.58	22.57	23.80	23.54	23.60	23.56	24.00
3GPP Rel 6	HSUPA Subtest-2	20.46	20.54	20.54	21.80	21.46	21.63	21.54	22.00
3GPP Rel 6	HSUPA Subtest-3	21.46	21.60	21.53	22.80	22.49	22.61	22.54	23.00
3GPP Rel 6	HSUPA Subtest-4	20.45	20.57	20.52	21.80	21.47	21.60	21.51	22.00
3GPP Rel 6	HSUPA Subtest-5	22.40	22.60	22.60	23.80	23.50	23.60	23.50	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.34	20.45	20.44	21.80	21.41	21.52	21.36	22.00

Band	WCDMA_TV_Ant 0				WCDMA_TV_Ant 5				
	TX Channel	1312	1413	1513	TX Channel	1312	1413	1513	
Rx Channel	1557	1658	1758	1557	1658	1758	1557	1658	
Frequency (MHz)	1712.4	1752.8	1752.8	1712.4	1752.8	1752.8	1712.4	1752.8	
3GPP Rel 99	AMR 12.2Kbps	24.22	24.27	24.20	24.80	24.24	24.25	24.22	25.00
3GPP Rel 99	RMC 12.2Kbps	24.25	24.32	24.28	24.80	24.30	24.34	24.28	25.00
3GPP Rel 6	HSDPA Subtest-1	23.51	23.55	23.48	23.80	23.56	23.54	23.55	24.00
3GPP Rel 6	HSDPA Subtest-2	23.54	23.58	23.51	23.80	23.55	23.55	23.56	24.00
3GPP Rel 6	HSDPA Subtest-3	23.04	23.02	22.98	23.30	23.02	23.08	23.04	23.00
3GPP Rel 6	HSDPA Subtest-4	23.05	23.05	22.95	23.30	23.03	23.01	23.09	23.00
3GPP Rel 6	DC-HSDPA Subtest-1	23.38	23.41	23.34	23.80	23.45	23.46	23.50	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	23.42	23.47	23.43	23.80	23.49	23.50	23.46	24.00
3GPP Rel 6	DC-HSDPA Subtest-3	22.92	22.89	22.89	23.30	22.92	22.93	22.94	23.00
3GPP Rel 6	DC-HSDPA Subtest-4	22.96	22.97	22.88	23.30	22.91	22.89	22.96	23.00
3GPP Rel 6	HSUPA Subtest-1	23.45	23.54	23.52	23.80	23.55	23.59	23.61	24.00
3GPP Rel 6	HSUPA Subtest-2	21.45	21.53	21.50	21.80	21.54	21.60	21.59	22.00
3GPP Rel 6	HSUPA Subtest-3	22.47	22.45	22.53	22.80	22.53	22.59	22.65	23.00
3GPP Rel 6	HSUPA Subtest-4	21.50	21.55	21.48	21.80	21.55	21.54	21.63	22.00
3GPP Rel 6	HSUPA Subtest-5	23.50	23.50	23.50	23.80	23.50	23.60	23.60	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.39	21.42	21.42	21.80	21.43	21.39	21.51	22.00

Band	WCDMA_V_Ant 0				WCDMA_V_Ant 1				
	TX Channel	4132	4162	4233	TX Channel	4132	4162	4233	
Rx Channel	4357	4407	4458	4357	4407	4458	4357	4407	
Frequency (MHz)	824.2	834.4	845.6	824.2	834.4	845.6	824.2	834.4	
3GPP Rel 99	AMR 12.2Kbps	23.65	23.72	23.68	24.80	24.15	24.12	24.05	24.80
3GPP Rel 99	RMC 12.2Kbps	23.72	23.80	23.75	24.80	24.17	24.20	24.13	24.80
3GPP Rel 6	HSDPA Subtest-1	22.76	22.85	22.57	23.80	23.04	22.97	22.88	23.80
3GPP Rel 6	HSDPA Subtest-2	22.76	22.86	22.57	23.80	23.06	22.94	22.88	23.80
3GPP Rel 6	HSDPA Subtest-3	22.26	22.14	22.04	23.30	22.57	22.44	22.40	23.30
3GPP Rel 6	HSDPA Subtest-4	22.24	22.16	22.05	23.30	22.54	22.44	22.39	23.30
3GPP Rel 6	DC-HSDPA Subtest-1	22.61	22.57	22.50	23.80	22.89	22.84	22.74	23



Band 2_Ant 5									
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	Intf. (dB)	Turnup (min)
Channel									
Frequency (MHz)									
20	QPSK	1	0	24.24	24.18	24.15			
20	QPSK	1	49	24.16	24.13	24.12			25
20	QPSK	1	99	24.19	24.07	23.76			
20	QPSK	50	0	23.90	23.20	23.23			
20	QPSK	50	49	23.31	23.22	23.21			24
20	QPSK	50	99	23.23	23.21	23.21			
20	QPSK	100	0	23.24	23.33	23.18			
20	QPSK	100	49	23.28	23.30	23.27			
20	QPSK	100	99	23.28	23.30	23.27			
20	QPSK	150	0	23.25	23.21	23.21			23
20	QPSK	150	49	23.25	23.21	23.21			
20	QPSK	150	99	23.25	23.21	23.21			
20	QPSK	200	0	23.22	23.22	23.22			
20	QPSK	200	49	23.22	23.22	23.22			
20	QPSK	200	99	23.22	23.22	23.22			
20	QPSK	250	0	23.21	23.22	23.22			
20	QPSK	250	49	23.21	23.22	23.22			
20	QPSK	250	99	23.21	23.22	23.22			
20	QPSK	300	0	23.22	23.22	23.22			
20	QPSK	300	49	23.22	23.22	23.22			
20	QPSK	300	99	23.22	23.22	23.22			
20	QPSK	350	0	23.22	23.22	23.22			
20	QPSK	350	49	23.22	23.22	23.22			
20	QPSK	350	99	23.22	23.22	23.22			
20	QPSK	400	0	23.22	23.22	23.22			
20	QPSK	400	49	23.22	23.22	23.22			
20	QPSK	400	99	23.22	23.22	23.22			
20	QPSK	450	0	23.22	23.22	23.22			
20	QPSK	450	49	23.22	23.22	23.22			
20	QPSK	450	99	23.22	23.22	23.22			
20	QPSK	500	0	23.22	23.22	23.22			
20	QPSK	500	49	23.22	23.22	23.22			
20	QPSK	500	99	23.22	23.22	23.22			
20	QPSK	550	0	23.22	23.22	23.22			
20	QPSK	550	49	23.22	23.22	23.22			
20	QPSK	550	99	23.22	23.22	23.22			
20	QPSK	600	0	23.22	23.22	23.22			
20	QPSK	600	49	23.22	23.22	23.22			
20	QPSK	600	99	23.22	23.22	23.22			
20	QPSK	650	0	23.22	23.22	23.22			
20	QPSK	650	49	23.22	23.22	23.22			
20	QPSK	650	99	23.22	23.22	23.22			
20	QPSK	700	0	23.22	23.22	23.22			
20	QPSK	700	49	23.22	23.22	23.22			
20	QPSK	700	99	23.22	23.22	23.22			
20	QPSK	750	0	23.22	23.22	23.22			
20	QPSK	750	49	23.22	23.22	23.22			
20	QPSK	750	99	23.22	23.22	23.22			
20	QPSK	800	0	23.22	23.22	23.22			
20	QPSK	800	49	23.22	23.22	23.22			
20	QPSK	800	99	23.22	23.22	23.22			
20	QPSK	850	0	23.22	23.22	23.22			
20	QPSK	850	49	23.22	23.22	23.22			
20	QPSK	850	99	23.22	23.22	23.22			
20	QPSK	900	0	23.22	23.22	23.22			
20	QPSK	900	49	23.22	23.22	23.22			
20	QPSK	900	99	23.22	23.22	23.22			
20	QPSK	950	0	23.22	23.22	23.22			
20	QPSK	950	49	23.22	23.22	23.22			
20	QPSK	950	99	23.22	23.22	23.22			
20	QPSK	1000	0	23.22	23.22	23.22			
20	QPSK	1000	49	23.22	23.22	23.22			
20	QPSK	1000	99	23.22	23.22	23.22			
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.02	24.08	24.01			
15	QPSK	1	37	24.28	24.27	24.10			25
15	QPSK	1	74	24.09	23.96	24.00			
15	QPSK	1	111	23.18	23.17	23.74			
15	QPSK	25	0	23.18	23.17	23.74			
15	QPSK	25	49	23.18	23.17	23.74			
15	QPSK	25	99	23.18	23.17	23.74			
15	QPSK	50	0	23.15	23.12	23.71			
15	QPSK	50	49	23.15	23.12	23.71			24
15	QPSK	50	99	23.15	23.12	23.71			
15	QPSK	75	0	23.15	23.12	23.71			
15	QPSK	75	49	23.15	23.12	23.71			
15	QPSK	75	99	23.15	23.12	23.71			
15	QPSK	100	0	23.15	23.12	23.71			
15	QPSK	100	49	23.15	23.12	23.71			
15	QPSK	100	99	23.15	23.12	23.71			
15	QPSK	125	0	23.15	23.12	23.71			
15	QPSK	125	49	23.15	23.12	23.71			
15	QPSK	125	99	23.15	23.12	23.71			
15	QPSK	150	0	23.15	23.12	23.71			
15	QPSK	150	49	23.15	23.12	23.71			
15	QPSK	150	99	23.15	23.12	23.71			
15	QPSK	175	0	23.15	23.12	23.71			
15	QPSK	175	49	23.15	23.12	23.71			
15	QPSK	175	99	23.15	23.12	23.71			
15	QPSK	200	0	23.15	23.12	23.71			
15	QPSK	200	49	23.15	23.12	23.71			
15	QPSK	200	99	23.15	23.12	23.71			
15	QPSK	225	0	23.15	23.12	23.71			
15	QPSK	225	49	23.15	23.12	23.71			
15	QPSK	225	99	23.15	23.12	23.71			
15	QPSK	250	0	23.15	23.12	23.71			
15	QPSK	250	49	23.15	23.12	23.71			
15	QPSK	250	99	23.15	23.12	23.71			
15	QPSK	275	0	23.15	23.12	23.71			
15	QPSK	275	49	23.15	23.12	23.71			
15	QPSK	275	99	23.15	23.12	23.71			
15	QPSK	300	0	23.15	23.12	23.71			
15	QPSK	300	49	23.15	23.12	23.71			
15	QPSK	300	99	23.15	23.12	23.71			
15	QPSK	325	0	23.15	23.12	23.71			
15	QPSK	325	49	23.15	23.12	23.71			
15	QPSK	325	99	23.15	23.12	23.71			
15	QPSK	350	0	23.15	23.12	23.71			
15	QPSK	350	49	23.15	23.12	23.71			
15	QPSK	350	99	23.15	23.12	23.71			
15	QPSK	375	0	23.15	23.12	23.71			
15	QPSK	375	49	23.15	23.12	23.71			
15	QPSK	375	99	23.15	23.12	23.71			
15	QPSK	400	0	23.15	23.12	23.71			
15	QPSK	400	49	23.15	23.12	23.71			
15	QPSK	400	99	23.15	23.12	23.71			
15	QPSK	425	0	23.15	23.12	23.71			
15	QPSK	425	49	23.15	23.12	23.71			
15	QPSK	425	99	23.15	23.12	23.71			
15	QPSK	450	0	23.15	23.12	23.71			
15	QPSK	450	49	23.15	23.12	23.71			
15	QPSK	450	99	23.15	23.12	23.71			
15	QPSK	475	0	23.15	23.12	23.71			
15	QPSK	475	49	23.15	23.12	23.71			
15	QPSK	475	99	23.15	23.12	23.71			
15	QPSK	500	0	23.15	23.12	23.71			
15	QPSK	500	49	23.15	23.12	23.71			
15	QPSK	500	99	23.15	23.12	23.71			
15	QPSK	525	0	23.15	23.12	23.71			
15	QPSK	525	49	23.15	23.12	23.71			
15	QPSK	525	99	23.15	23.12	23.71			
15	QPSK	550	0	23.15	23.12	23.71			
15	QPSK	550	49	23.15	23.12	23.71			
15	QPSK	550	99	23.15	23.12	23.71			
15	QPSK	575	0	23.15	23.12	23.71			
15	QPSK	575	49	23.15	23.12	23.71			
15	QPSK	575	99	23.15					



Band 4_Ant 5									
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq.	Power Mids Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	Tune-down (MHz)	Antenna
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.86	23.88	23.94			24.8
20	QPSK	1	49	23.86	23.88	23.94			
20	QPSK	1	99	23.89	23.90	23.94			
20	QPSK	50	0	23.93	23.93	23.98			
20	QPSK	50	50	23.95	23.95	23.98			
20	QPSK	100	0	23.98	23.98	23.98			
20	QPSK	100	50	23.98	23.98	23.98			
20	QPSK	150	0	23.98	23.98	23.98			
20	QPSK	150	50	23.98	23.98	23.98			
20	QPSK	150	100	23.98	23.98	23.98			
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.97	23.97	23.97			23.8
20	QPSK	1	49	23.97	23.97	23.97			
20	QPSK	50	0	23.98	23.98	23.98			
20	QPSK	50	50	23.98	23.98	23.98			
20	QPSK	100	0	23.98	23.98	23.98			
20	QPSK	100	50	23.98	23.98	23.98			
20	QPSK	150	0	23.98	23.98	23.98			
20	QPSK	150	50	23.98	23.98	23.98			
20	QPSK	150	100	23.98	23.98	23.98			
20	QPSK	150	150	23.98	23.98	23.98			

Band 4_Ant 0									
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq.	Power Mids Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	Tune-down (MHz)	Antenna
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.77	23.81	23.86			24.8
20	QPSK	1	49	23.77	23.81	23.86			
20	QPSK	50	0	23.80	23.84	23.94			
20	QPSK	50	50	23.82	23.84	23.94			
20	QPSK	100	0	23.84	23.84	23.94			
20	QPSK	100	50	23.84	23.84	23.94			
20	QPSK	150	0	23.84	23.84	23.94			
20	QPSK	150	50	23.84	23.84	23.94			
20	QPSK	150	100	23.84	23.84	23.94			
20	QPSK	150	150	23.84	23.84	23.94			
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.77	23.81	23.86			23.8
20	QPSK	1	49	23.77	23.81	23.86			
20	QPSK	50	0	23.80	23.84	23.94			
20	QPSK	50	50	23.82	23.84	23.94			
20	QPSK	100	0	23.84	23.84	23.94			
20	QPSK	100	50	23.84	23.84	23.94			
20	QPSK	150	0	23.84	23.84	23.94			
20	QPSK	150	50	23.84	23.84	23.94			
20	QPSK	150	100	23.84	23.84	23.94			
20	QPSK	150	150	23.84	23.84	23.94			

Band 4_Ant 6									
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq.	Power Mids Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	Tune-down (MHz)	Antenna
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.18	23.30	23.28			23.8
20	QPSK	1	49	23.18	23.30	23.28			
20	QPSK	50	0	23.28	23.29	23.32			
20	QPSK	50	50	23.28	23.29	23.32			
20	QPSK	100	0	23.28	23.29	23.32			
20	QPSK	100	50	23.28	23.29	23.32			
20	QPSK	150	0	23.28	23.29	23.32			
20	QPSK	150	50	23.28	23.29	23.32			
20	QPSK	150	100	23.28	23.29	23.32			
20	QPSK	150	150	23.28	23.29	23.32			
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.18	23.30	23.28			23.8
20	QPSK	1	49	23.18	23.30	23.28			
20	QPSK	50	0	23.28	23.29	23.32			
20	QPSK	50	50	23.28	23.29	23.32			
20	QPSK	100	0	23.28	23.29	23.32			
20	QPSK	100	50	23.28	23.29	23.32			
20	QPSK	150	0	23.28	23.29	23.32			
20	QPSK	150	50	23.28	23.29	23.32			
20	QPSK	150	100	23.28	23.29	23.32			
20	QPSK	150	150	23.28	23.29	23.32			

Band 4_Ant 7									
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq.	Power Mids Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	Tune-down (MHz)	Antenna
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.87	22.82	22.78			23.8
20	QPSK	1	49	22.87	22.82	22.78			
20	QPSK	50	0	22.93	22.98	22.98			
20	QPSK	50	50	22.93	22.98	22.98			
20	QPSK	100	0	22.94	22.98	22.94			
20	QPSK	100	50	22.94	22.98	22.94			
20	QPSK	150	0	22.94	22.98	22.94			
20	QPSK	150	50	22.94	22.98	22.94			
20	QPSK	150	100	22.94	22.98	22.94			
20	QPSK	150	150	22.94	22.98	22.94			
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.87	22.82	22.78			23.8
20	QPSK	1	49	22.87	22.82	22.78			
20	QPSK	50	0	22.93	22.98	22.98			
20	QPSK	50	50	22.93	22.98	22.98			
20	QPSK	100	0	22.94	22.98	22.94			
20	QPSK	100	50	22.94	22.98	22.94			
20	QPSK	150	0	22.94	22.98	22.94			
20	QPSK	150	50	22.94	22.98	22.94			
20	QPSK	150	100	22.94	22.98	22.94			
20	QPSK	150	150	22.94	22.98	22.94			



Band 5_Ant 1									
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	Turn-up (dB)	Turn-up (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.45	23.61	23.51			
10	QPSK	1	25	23.44	23.47	23.48			
10	QPSK	1	49	23.43	23.47	23.48			
10	QPSK	25	0	23.44	23.41	23.47			
10	QPSK	25	25	23.40	23.38	23.39			
10	QPSK	50	0	23.39	23.34	23.37			
10	QPSK	50	25	23.33	23.28	23.31			
10	QPSK	75	0	23.28	23.22	23.25			
10	QPSK	75	25	23.22	23.16	23.19			
10	QPSK	100	0	23.17	23.11	23.14			
10	QPSK	100	25	23.11	23.05	23.08			
10	QPSK	125	0	23.06	23.00	23.03			
10	QPSK	125	25	23.00	22.94	22.97			
10	QPSK	150	0	22.95	22.89	22.92			
10	QPSK	150	25	22.89	22.83	22.86			
10	QPSK	175	0	22.84	22.78	22.81			
10	QPSK	175	25	22.78	22.72	22.75			
10	QPSK	200	0	22.73	22.67	22.70			
10	QPSK	200	25	22.67	22.61	22.64			
10	QPSK	225	0	22.62	22.56	22.59			
10	QPSK	225	25	22.56	22.50	22.53			
10	QPSK	250	0	22.51	22.45	22.48			
10	QPSK	250	25	22.45	22.39	22.42			
10	QPSK	275	0	22.40	22.34	22.37			
10	QPSK	275	25	22.34	22.28	22.31			
10	QPSK	300	0	22.29	22.23	22.26			
10	QPSK	300	25	22.23	22.17	22.20			
10	QPSK	325	0	22.18	22.12	22.15			
10	QPSK	325	25	22.12	22.06	22.09			
10	QPSK	350	0	22.07	22.01	22.04			
10	QPSK	350	25	22.01	21.95	21.98			
10	QPSK	375	0	21.96	21.90	21.93			
10	QPSK	375	25	21.90	21.84	21.87			
10	QPSK	400	0	21.85	21.79	21.82			
10	QPSK	400	25	21.79	21.73	21.76			
10	QPSK	425	0	21.74	21.68	21.71			
10	QPSK	425	25	21.68	21.62	21.65			
10	QPSK	450	0	21.63	21.57	21.60			
10	QPSK	450	25	21.57	21.51	21.54			
10	QPSK	475	0	21.52	21.46	21.49			
10	QPSK	475	25	21.46	21.40	21.43			
10	QPSK	500	0	21.41	21.35	21.38			
10	QPSK	500	25	21.35	21.29	21.32			
10	QPSK	525	0	21.30	21.24	21.27			
10	QPSK	525	25	21.24	21.18	21.21			
10	QPSK	550	0	21.19	21.13	21.16			
10	QPSK	550	25	21.13	21.07	21.10			
10	QPSK	575	0	21.08	21.02	21.05			
10	QPSK	575	25	21.02	20.96	20.99			
10	QPSK	600	0	20.97	20.91	20.94			
10	QPSK	600	25	20.91	20.85	20.88			
10	QPSK	625	0	20.86	20.80	20.83			
10	QPSK	625	25	20.80	20.74	20.77			
10	QPSK	650	0	20.75	20.69	20.72			
10	QPSK	650	25	20.69	20.63	20.66			
10	QPSK	675	0	20.64	20.58	20.61			
10	QPSK	675	25	20.58	20.52	20.55			
10	QPSK	700	0	20.53	20.47	20.50			
10	QPSK	700	25	20.47	20.41	20.44			
10	QPSK	725	0	20.42	20.36	20.39			
10	QPSK	725	25	20.36	20.30	20.33			
10	QPSK	750	0	20.31	20.25	20.28			
10	QPSK	750	25	20.25	20.19	20.22			
10	QPSK	775	0	20.20	20.14	20.17			
10	QPSK	775	25	20.14	20.08	20.11			
10	QPSK	800	0	20.09	20.03	20.06			
10	QPSK	800	25	20.03	19.97	20.00			
10	QPSK	825	0	19.98	19.92	19.95			
10	QPSK	825	25	19.92	19.86	19.89			
10	QPSK	850	0	19.87	19.81	19.84			
10	QPSK	850	25	19.81	19.75	19.78			
10	QPSK	875	0	19.76	19.70	19.73			
10	QPSK	875	25	19.70	19.64	19.67			
10	QPSK	900	0	19.65	19.59	19.62			
10	QPSK	900	25	19.59	19.53	19.56			
10	QPSK	925	0	19.54	19.48	19.51			
10	QPSK	925	25	19.48	19.42	19.45			
10	QPSK	950	0	19.43	19.37	19.40			
10	QPSK	950	25	19.37	19.31	19.34			
10	QPSK	975	0	19.32	19.26	19.29			
10	QPSK	975	25	19.26	19.20	19.23			
10	QPSK	1000	0	19.21	19.15	19.18			
10	QPSK	1000	25	19.15	19.09	19.12			
10	QPSK	1025	0	19.10	19.04	19.07			
10	QPSK	1025	25	19.04	18.98	19.01			
10	QPSK	1050	0	18.99	18.93	18.96			
10	QPSK	1050	25	18.93	18.87	18.90			
10	QPSK	1075	0	18.88	18.82	18.85			
10	QPSK	1075	25	18.82	18.76	18.79			
10	QPSK	1100	0	18.77	18.71	18.74			
10	QPSK	1100	25	18.71	18.65	18.68			
10	QPSK	1125	0	18.66	18.60	18.63			
10	QPSK	1125	25	18.60	18.54	18.57			
10	QPSK	1150	0	18.55	18.49	18.52			
10	QPSK	1150	25	18.49	18.43	18.46			
10	QPSK	1175	0	18.44	18.38	18.41			
10	QPSK	1175	25	18.38	18.32	18.35			
10	QPSK	1200	0	18.33	18.27	18.30			
10	QPSK	1200	25	18.27	18.21	18.24			
10	QPSK	1225	0	18.22	18.16	18.19			
10	QPSK	1225	25	18.16	18.10	18.13			
10	QPSK	1250	0	18.11	18.05	18.08			
10	QPSK	1250	25	18.05	17.99	18.02			
10	QPSK	1275	0	18.00	17.94	17.97			
10	QPSK	1275	25	17.94	17.88	17.91			
10	QPSK	1300	0	17.89	17.83	17.86			
10	QPSK	1300	25	17.83	17.77	17.80			
10	QPSK	1325	0	17.78	17.72	17.75			
10	QPSK	1325	25	17.72	17.66	17.69			
10	QPSK	1350	0	17.67	17.61	17.64			
10	QPSK	1350	25	17.61	17.55	17.58			
10	QPSK	1375	0	17.56	17.50	17.53			
10	QPSK	1375	25	17.50	17.44	17.47			
10	QPSK	1400	0	17.45	17.39	17.42			
10	QPSK	1400	25	17.39	17.33	17.36			
10	QPSK	1425	0	17.34	17.28	17.31			
10	QPSK	1425	25	17.28	17.22	17.25			
10	QPSK	1450	0	17.23	17.17	17.20			
10	QPSK	1450	25	17.17	17.11	17.14			
10	QPSK	1475	0	17.12	17.06	17.09			
10	QPSK	1475	25	17.06	17.00	17.03			
10	QPSK	1500	0	17.01	16.95	16.98			
10	QPSK	1500	25	16.95	16.89	16.92			
10	QPSK	1525	0	16.90	16.84	16.87			
10	QPSK	1525	25	16.84	16.78	16.81			
10	QPSK	1550	0	16.79	16.73	16.76			
10	QPSK	1550	25	16.73	16.67	16.70			
10	QPSK	1575	0	16.68	16.62	16.65			
10	QPSK	1575	25	16.62	16.56	16.59			
10	QPSK	1600	0	16.57	16.51	16.54			
10	QPSK	1600	25	16.51	16.45	16.48			
10	QPSK	1625	0	16.46	16.40	16.43			
10	QPSK	1625	25	16.40	16.34	16.37			
10	QPSK	1650	0	16.35	16.29	16.32			
10	QPSK	1650	25	16.29	16.23	16.26			
10	QPSK	1675	0	16.24	16.18	1			



Band 7_Ant 6									
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq.	Power Mids Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	Int. (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.14	23.39	23.36			
20	QPSK	1	49	23.21	23.54	23.45	23.8		
20	QPSK	1	99	23.33	23.48	23.36			
20	QPSK	50	0	22.19	22.48	22.37			
20	QPSK	50	49	22.25	22.45	22.41	22.8		
20	QPSK	50	99	22.33	22.43	22.35			
20	HQAM	1	0	22.07	22.48	22.32			
20	HQAM	1	49	22.21	22.43	22.32	22.8		
20	HQAM	1	99	22.26	22.34	22.23			
20	HQAM	50	0	21.28	21.50	21.29			
20	HQAM	50	24	21.38	21.53	21.42	21.8		
20	HQAM	50	24	21.38	21.53	21.42			
20	HQAM	50	49	21.28	21.57	21.45			
20	HQAM	50	99	21.35	21.47	21.38			
20	HQAM	1	0	21.18	21.38	21.27			
20	HQAM	1	49	21.23	21.55	21.45	21.8		
20	HQAM	1	99	21.23	21.55	21.45			
20	HQAM	50	0	20.58	20.87	20.82			
20	HQAM	50	24	20.58	20.87	20.82			
20	HQAM	50	49	20.47	20.57	20.49	20.8		
20	HQAM	50	99	20.46	20.46	20.47			
20	HQAM	1	49	18.33	18.26	18.31			
20	HQAM	1	49	18.22	18.11	18.13	18.8		
20	HQAM	1	99	18.23	18.13	18.20			
20	HQAM	50	24	18.21	18.10	18.11			
20	HQAM	50	24	18.18	18.11	18.11			
20	HQAM	50	49	18.10	18.15	18.08	18.8		
20	HQAM	50	99	18.31	18.10	18.08			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.02	23.16	23.07			
15	QPSK	1	37	23.07	23.41	23.34	23.8		
15	QPSK	1	74	23.22	23.36	23.26			
15	QPSK	36	0	22.13	22.40	22.29			
15	QPSK	36	20	22.21	22.44	22.30	22.8		
15	QPSK	36	40	22.20	22.29	22.21			
15	HQAM	1	0	22.13	22.33	22.24			
15	HQAM	1	37	22.18	22.33	22.29	22.8		
15	HQAM	1	74	22.21	22.28	22.08			
15	HQAM	36	0	21.17	21.47	21.33			
15	HQAM	36	20	21.23	21.53	21.39	21.8		
15	HQAM	36	40	21.25	21.51	21.38			
15	HQAM	75	0	21.00	21.45	21.20			
15	HQAM	75	0	21.14	21.23	21.20			
15	HQAM	1	37	21.17	21.32	21.31	21.8		
15	HQAM	1	74	21.14	21.42	21.33			
15	HQAM	36	20	20.52	20.43	20.41			
15	HQAM	36	20	20.34	20.39	20.44	20.8		
15	HQAM	36	40	20.37	20.38	20.34			
15	HQAM	75	0	18.21	18.13	18.19			
15	HQAM	75	0	18.07	18.05	18.13	18.8		
15	HQAM	75	18	18.18	18.04	18.05			
15	HQAM	75	18	18.25	18.04	18.04			
15	HQAM	36	20	18.23	18.11	18.12	18.8		
15	HQAM	36	20	18.23	18.11	18.12			
15	HQAM	36	40	18.21	18.06	18.06			
15	HQAM	75	0	18.21	18.06	18.06			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.03	23.29	23.24			
10	QPSK	1	31	23.11	23.45	23.32	23.8		
10	QPSK	1	49	23.24	23.47	23.30			
10	QPSK	25	0	22.18	22.33	22.36			
10	QPSK	25	0	22.14	22.42	22.31			
10	QPSK	25	25	22.20	22.31	22.39	22.8		
10	QPSK	50	0	22.02	22.37	22.25			
10	QPSK	50	24	22.08	22.42	22.30	22.8		
10	HQAM	1	0	22.20	22.24	22.24			
10	HQAM	1	31	22.25	22.37	22.35	22.8		
10	HQAM	1	49	22.28	22.43	22.32			
10	HQAM	25	0	21.22	21.43	21.28			
10	HQAM	25	12	21.28	21.42	21.37	21.8		
10	HQAM	25	24	21.32	21.46	21.39			
10	HQAM	50	0	21.02	21.39	21.27			
10	HQAM	50	24	21.04	21.27	21.23	21.8		
10	HQAM	1	25	21.04	21.42	21.28			
10	HQAM	1	49	21.13	21.48	21.28	21.8		
10	HQAM	25	0	20.83	20.48	20.48			
10	HQAM	25	12	20.81	20.48	20.48			
10	HQAM	25	25	20.46	20.31	20.39	20.8		
10	HQAM	50	0	18.25	18.13	18.08			
10	HQAM	50	25	18.20	17.98	18.07	18.8		
10	HQAM	50	49	18.20	18.11	18.20			
10	HQAM	25	0	18.30	18.06	18.06	18.8		
10	HQAM	25	12	18.25	18.06	18.06			
10	HQAM	25	25	18.20	18.03	18.03			
10	HQAM	50	0	18.28	18.00	18.00			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.08	23.25	23.21			
5	QPSK	1	12	23.33	23.43	23.23	23.8		
5	QPSK	1	24	23.24	23.46	23.27			
5	QPSK	12	0	22.00	22.42	22.35			
5	QPSK	12	7	22.28	22.43	22.37	22.8		
5	QPSK	12	13	22.20	22.38	22.28			
5	QPSK	25	0	22.09	22.35	22.33			
5	HQAM	1	0	22.15	22.33	22.30			
5	HQAM	1	12	22.16	22.22	22.18	22.8		
5	HQAM	1	24	22.24	22.25	22.19			
5	HQAM	12	0	21.03	21.37	21.29			
5	HQAM	12	7	21.14	21.39	21.37	21.8		
5	HQAM	12	13	21.24	21.54	21.43			
5	HQAM	25	0	21.02	21.30	21.23			
5	HQAM	25	0	21.13	21.34	21.31	21.8		
5	HQAM	25	12	21.16	21.33	21.27			
5	HQAM	1	24	21.00	21.41	21.37	21.8		
5	HQAM	12	0	20.40	20.47	20.61			
5	HQAM	12	7	20.20	20.44	20.33	20.8		
5	HQAM	12	13	20.46	20.26	20.41			
5	HQAM	25	0	20.25	20.42	20.32			
5	HQAM	25	0	18.20	18.19	18.08			
5	HQAM	25	12	18.20	18.02	18.01	18.8		
5	HQAM	25	25	18.20	18.02	18.01			
5	HQAM	12	7	18.08	18.08	18.04	18.8		
5	HQAM	12	13	18.28	18.08	18.04			
5	HQAM	25	0	18.20	18.00	18.00			

Band 7_Ant 7									
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq.	Power Mids Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	Int. (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.31	23.58	23.58			
20	QPSK	1	49	23.36	23.73	23.63	23.8		
20	QPSK	1	99	23.50	23.65	23.58			
20	QPSK	50	0	22.46	22.60	22.63			
20	QPSK	50	49	22.52	22.58	22.57	22.8		
20	QPSK	50	99	22.55	22.55	22.57			
20	HQAM	1	0	22.54	22.61	22.59			
20	HQAM	1	49	22.62	22.62	22.57	22.8		
20	HQAM	1	99	22.59	22.55	22.46			
20	HQAM	50	0	21.46	21.50	21.58			
20	HQAM	50	24	21.43	21.58	21.46	21.8		
20	HQAM	50	24	21.43	21.58	21.46			
20	HQAM	50	49	21.35	21.57	21.57			
20	HQAM	50	99	21.39	21.45	21.56	21.8		
20	HQAM	1	0	21.29	21.45	21.45			
20	HQAM	1	49	21.42	21.45	21.50			
20	HQAM	1	99	21.42	21.45	21.50			
20	HQAM	50	0	20.58	20.87	20.82			
20	HQAM	50	24	20.58	20.87	20.82			
20	HQAM	50	49	20.47	20.59	20.55	20.8		
20	HQAM	50	99	20.38	20.59	20.51			
20	HQAM	1	49	18.35	18.40	18.30			
20	HQAM	1	49	18.22	18.35	18.27	18.8		
20	HQAM	1	9						



Band 13_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
792							
10	QPSK	1	0	23.34			24.8
10	QPSK	1	25	23.44			
10	QPSK	1	49	23.41			
10	QPSK	25	0	22.43			23.8
10	QPSK	25	12	22.55			
10	QPSK	25	25	22.55			
10	QPSK	50	0	22.46			23.8
10	QPSK	50	0	22.76			
10	QPSK	50	0	22.87			
10	16QAM	1	25	22.85			22.8
10	16QAM	1	49	22.82			
10	16QAM	25	0	21.90			
10	16QAM	25	12	21.84			22.8
10	16QAM	25	12	21.84			
10	16QAM	25	12	21.84			
10	16QAM	25	25	21.80			22.8
10	16QAM	25	25	21.80			
10	16QAM	50	0	21.29			
10	84QAM	1	0	21.29			22.8
10	84QAM	1	25	21.50			
10	84QAM	1	49	21.41			
10	84QAM	25	0	20.53			21.8
10	84QAM	25	12	20.57			
10	84QAM	25	25	20.60			
10	84QAM	50	0	20.53			19.8
10	84QAM	50	0	20.59			
10	84QAM	50	0	20.60			
10	256QAM	1	25	18.45			19.8
10	256QAM	1	49	18.42			
10	256QAM	25	0	18.31			
10	256QAM	25	12	18.39			19.8
10	256QAM	25	12	18.34			
10	256QAM	50	0	18.20			
Channel							
Frequency (MHz)							
2305							
5	QPSK	1	0	23.05	23.05	23.05	24.8
5	QPSK	1	12	23.42	23.31	23.40	
5	QPSK	1	24	23.40	23.32	23.36	
5	QPSK	12	0	22.30	22.33	22.38	23.8
5	QPSK	12	7	22.55	22.54	22.50	
5	QPSK	12	13	22.40	22.53	22.45	
5	QPSK	25	0	22.42	22.44	22.34	23.8
5	16QAM	1	0	22.85	22.85	22.81	
5	16QAM	1	12	22.87	22.83	22.88	
5	16QAM	1	24	22.87	22.77	22.73	23.8
5	16QAM	12	0	21.38	21.47	21.42	
5	16QAM	12	7	21.45	21.51	21.44	
5	16QAM	12	13	21.59	21.53	21.45	22.8
5	16QAM	25	0	21.28	21.31	21.28	
5	84QAM	1	0	21.21	21.25	21.27	
5	84QAM	1	12	21.40	21.40	21.42	22.8
5	84QAM	1	24	21.59	21.26	21.35	
5	84QAM	12	0	20.45	20.50	20.45	
5	84QAM	12	7	20.52	20.53	20.56	21.8
5	84QAM	12	13	20.50	20.48	20.47	
5	84QAM	25	0	20.41	20.44	20.40	
5	256QAM	1	0	18.38	18.26	18.32	19.8
5	256QAM	1	12	18.34	18.41	18.38	
5	256QAM	1	24	18.52	18.29	18.27	
5	256QAM	12	0	18.27	18.20	18.25	19.8
5	256QAM	12	7	18.32	18.31	18.30	
5	256QAM	12	13	18.23	18.30	18.30	
5	256QAM	25	0	18.22	18.20	18.18	

Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
792							
10	QPSK	1	0	22.92			24.3
10	QPSK	1	25	22.55			
10	QPSK	1	49	23.11			
10	QPSK	25	0	22.10			23.3
10	QPSK	25	12	22.20			
10	QPSK	25	25	22.10			
10	QPSK	50	0	22.14			23.3
10	QPSK	50	0	21.87			
10	QPSK	50	0	22.11			
10	16QAM	1	25	22.11			23.3
10	16QAM	1	49	22.05			
10	16QAM	25	0	21.10			
10	16QAM	25	12	21.07			22.3
10	16QAM	25	12	21.07			
10	16QAM	25	12	21.07			
10	16QAM	25	25	21.30			22.3
10	16QAM	25	25	21.20			
10	16QAM	50	0	21.20			
10	84QAM	1	0	21.20			22.3
10	84QAM	1	25	21.39			
10	84QAM	1	49	21.38			
10	84QAM	25	0	20.97			21.3
10	84QAM	25	12	20.11			
10	84QAM	25	25	20.33			
10	84QAM	50	0	20.59			19.3
10	84QAM	50	0	18.00			
10	84QAM	50	0	18.05			
10	256QAM	1	25	18.05			19.3
10	256QAM	1	49	18.52			
10	256QAM	25	0	17.89			
10	256QAM	25	12	17.85			19.3
10	256QAM	25	12	17.84			
10	256QAM	50	0	17.85			
Channel							
Frequency (MHz)							
2305							
5	QPSK	1	0	22.94	22.73	22.78	24.3
5	QPSK	1	12	23.17	23.10	23.18	
5	QPSK	1	24	23.04	22.99	23.06	
5	QPSK	12	0	22.60	22.67	22.66	23.3
5	QPSK	12	7	22.27	22.19	22.19	
5	QPSK	12	13	22.11	22.18	22.09	
5	QPSK	25	0	22.08	22.07	22.07	23.3
5	16QAM	1	0	21.74	21.79	21.84	
5	16QAM	1	12	21.70	21.78	21.82	
5	16QAM	1	24	21.97	21.93	21.92	23.3
5	16QAM	12	0	21.08	21.02	21.09	
5	16QAM	12	7	21.02	21.04	21.04	
5	16QAM	12	13	21.16	21.19	21.24	22.3
5	16QAM	25	0	21.13	21.14	21.08	
5	84QAM	1	0	21.13	21.10	21.07	
5	84QAM	1	12	21.30	21.32	21.28	22.3
5	84QAM	1	24	21.36	21.30	21.33	
5	84QAM	12	0	19.95	20.04	19.92	
5	84QAM	12	7	20.52	20.59	20.59	21.3
5	84QAM	12	13	20.19	20.29	20.32	
5	84QAM	25	0	19.95	19.95	19.98	
5	256QAM	1	0	17.89	17.88	17.87	19.3
5	256QAM	1	12	17.85	17.85	17.86	
5	256QAM	1	24	17.91	17.90	17.92	
5	256QAM	12	0	17.95	17.91	17.86	19.3
5	256QAM	12	7	17.84	17.82	17.80	
5	256QAM	12	13	17.87	17.87	17.88	
5	256QAM	25	0	17.78	17.78	17.78	

Band 17_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
700							
10	QPSK	1	0	23.43	23.78	23.45	25
10	QPSK	1	25	23.15	23.26	23.14	
10	QPSK	1	49	23.65	23.66	23.66	
10	QPSK	25	0	22.60	22.66	22.64	24
10	QPSK	25	12	22.70	22.75	22.67	
10	QPSK	25	25	22.70	22.75	22.67	
10	QPSK	50	0	22.73	22.75	22.71	24
10	QPSK	50	0	22.81	22.74	22.83	
10	QPSK	50	0	22.86	22.81	22.86	
10	16QAM	1	25	22.86	22.83	22.75	24
10	16QAM	1	49	22.99	22.79	23.08	
10	16QAM	25	0	21.62	21.69	21.72	
10	16QAM	25	12	21.81	21.78	21.79	23
10	16QAM	25	12	21.79	21.87	21.88	
10	16QAM	25	12	21.79	21.89	21.84	
10	16QAM	25	25	21.79	21.81	21.73	23
10	16QAM	25	25	21.91	21.89	21.88	
10	16QAM	50	0	21.62	21.78	22.01	
10	84QAM	1	0	21.79	21.81	21.73	23
10	84QAM	1	25	21.91	21.89	21.88	
10	84QAM	1	49	21.83	21.78	22.01	
10	84QAM	25	0	20.81	20.73	20.83	22
10	84QAM	25	12	20.77	20.69	20.62	
10	84QAM	25	25	20.78	20.71	20.69	
10	84QAM	50	0	20.73	20.64	20.67	20
10	256QAM	1	0	18.45	18.53	18.47	
10	256QAM	1	25	18.46	18.50	18.46	
10	256QAM	1	49	18.55	18.56	18.51	20
10	256QAM	25	0	18.50	18.51	18.49	
10	256QAM	25	12	18.54	18.48	18.48	
10	256QAM	25	12	18.54	18.48	18.50	20
10	256QAM	50	0	18.49	18.46	18.51	
10	256QAM	50	0	18.49	18.46	18.51	
Channel							
Frequency (MHz)							
2365							
5	QPSK	1	0	23.32	23.72	23.44	25
5	QPSK	1	12	23.11	23.72	23.59	
5	QPSK	1	24	23.60	23.61	23.61	
5	QPSK	12	0	22.55	22.59	22.62	24





Band 25_Ant 5										
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch (F/Hz)	Power Middle Ch (F/Hz)	Power High Ch (F/Hz)	Tune-up (MHz)	Intf. (dB)	Intf. (dB)	Intf. (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.20	24.39	24.24	24.20			
20	QPSK	1	49	24.33	24.40	24.33	24.33			
20	QPSK	99	0	24.42	24.11	24.23	24.42			
20	QPSK	50	0	23.29	23.32	23.26	23.29			
20	QPSK	50	49	23.35	23.25	23.33	23.35			
20	QPSK	100	0	23.28	23.29	23.16	23.28			
20	QPSK	100	49	23.23	23.23	23.23	23.23			
20	QPSK	150	0	23.29	23.20	23.28	23.29			
20	QPSK	150	49	23.29	23.20	23.28	23.29			
20	QPSK	200	0	22.21	22.13	22.07	22.21			
20	QPSK	200	49	22.21	22.08	22.02	22.21			
20	QPSK	250	0	22.28	22.20	22.08	22.28			
20	QPSK	250	49	22.27	22.19	22.17	22.27			
20	QPSK	300	0	21.28	21.01	21.08	21.28			
20	QPSK	300	49	21.28	21.01	21.08	21.28			
20	QPSK	350	0	20.22	20.05	20.02	20.22			
20	QPSK	350	49	20.22	20.05	20.02	20.22			
20	QPSK	400	0	19.24	18.97	18.90	19.24			
20	QPSK	400	49	19.24	18.97	18.90	19.24			
20	QPSK	450	0	18.23	18.06	18.00	18.23			
20	QPSK	450	49	18.23	18.06	18.00	18.23			
20	QPSK	500	0	17.23	16.96	16.90	17.23			
20	QPSK	500	49	17.23	16.96	16.90	17.23			
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.17	24.10	24.13	24.17			
15	QPSK	1	37	24.22	24.24	24.25	24.22			
15	QPSK	1	74	24.11	24.03	24.20	24.11			
15	QPSK	1	111	23.18	23.23	23.19	23.18			
15	QPSK	36	20	23.29	23.27	23.25	23.29			
15	QPSK	36	57	23.15	23.17	23.04	23.15			
15	QPSK	72	0	23.11	23.21	23.08	23.11			
15	QPSK	72	37	23.15	23.07	23.03	23.15			
15	QPSK	108	0	22.23	22.18	22.10	22.23			
15	QPSK	108	37	22.23	22.18	22.10	22.23			
15	QPSK	144	0	22.23	22.24	22.14	22.23			
15	QPSK	144	37	22.23	22.24	22.14	22.23			
15	QPSK	180	0	22.15	22.28	22.19	22.15			
15	QPSK	180	37	22.15	22.28	22.19	22.15			
15	QPSK	216	0	21.29	21.19	21.18	21.29			
15	QPSK	216	37	21.29	21.19	21.18	21.29			
15	QPSK	252	0	21.15	21.10	21.05	21.15			
15	QPSK	252	37	21.15	21.10	21.05	21.15			
15	QPSK	288	0	18.88	18.85	18.80	18.88			
15	QPSK	288	37	18.88	18.85	18.80	18.88			
15	QPSK	324	0	18.83	18.82	18.80	18.83			
15	QPSK	324	37	18.83	18.82	18.80	18.83			
15	QPSK	360	0	18.89	18.83	18.80	18.89			
15	QPSK	360	37	18.89	18.83	18.80	18.89			
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.08	24.32	24.11	24.08			
10	QPSK	1	24	24.18	24.24	24.24	24.18			
10	QPSK	1	49	24.17	24.01	24.13	24.17			
10	QPSK	25	0	23.14	23.28	23.25	23.14			
10	QPSK	25	24	23.28	23.32	23.28	23.28			
10	QPSK	25	49	23.25	23.11	23.24	23.25			
10	QPSK	50	0	22.26	22.15	22.20	22.26			
10	QPSK	50	24	22.37	22.23	22.23	22.37			
10	QPSK	50	49	22.26	22.24	22.10	22.26			
10	QPSK	75	0	22.29	22.29	22.04	22.29			
10	QPSK	75	24	22.24	22.24	22.15	22.24			
10	QPSK	75	49	22.21	22.22	22.15	22.21			
10	QPSK	100	0	22.21	22.22	22.15	22.21			
10	QPSK	100	24	22.24	22.24	22.15	22.24			
10	QPSK	100	49	22.28	22.31	22.13	22.28			
10	QPSK	125	0	21.21	21.17	21.08	21.21			
10	QPSK	125	24	21.25	21.30	21.14	21.25			
10	QPSK	125	49	21.21	21.15	21.22	21.21			
10	QPSK	150	0	18.97	18.91	18.91	18.97			
10	QPSK	150	24	18.94	18.92	18.90	18.94			
10	QPSK	150	49	18.93	18.96	18.90	18.93			
10	QPSK	175	0	18.87	18.96	18.90	18.87			
10	QPSK	175	24	18.83	18.82	18.80	18.83			
10	QPSK	175	49	18.87	18.96	18.90	18.87			
10	QPSK	200	0	18.83	18.86	18.80	18.83			
10	QPSK	200	24	18.83	18.82	18.80	18.83			
10	QPSK	200	49	18.87	18.96	18.90	18.87			
10	QPSK	225	0	18.84	18.86	18.80	18.84			
10	QPSK	225	24	18.86	18.86	18.80	18.86			
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.08	24.26	24.18	24.08			
5	QPSK	1	12	24.26	24.38	24.20	24.26			
5	QPSK	1	24	24.18	24.24	24.24	24.18			
5	QPSK	12	0	23.25	23.21	23.15	23.25			
5	QPSK	12	7	23.27	23.32	23.22	23.27			
5	QPSK	12	14	23.28	23.32	23.28	23.28			
5	QPSK	25	0	23.13	23.23	23.02	23.13			
5	QPSK	25	7	23.17	23.23	23.08	23.17			
5	QPSK	25	14	23.27	23.29	23.20	23.27			
5	QPSK	50	0	22.24	22.13	22.11	22.24			
5	QPSK	50	12	22.21	22.12	22.11	22.21			
5	QPSK	50	24	22.24	22.24	22.15	22.24			
5	QPSK	75	0	22.29	22.29	22.19	22.29			
5	QPSK	75	12	22.23	22.23	22.15	22.23			
5	QPSK	75	24	22.27	22.26	22.28	22.27			
5	QPSK	100	0	21.27	21.19	21.07	21.27			
5	QPSK	100	12	21.29	21.24	21.18	21.29			
5	QPSK	100	24	21.28	21.20	21.06	21.28			
5	QPSK	125	0	21.18	21.18	21.09	21.18			
5	QPSK	125	12	21.22	21.22	21.15	21.22			
5	QPSK	125	24	21.25	21.25	21.16	21.25			
5	QPSK	150	0	18.87	18.87	18.80	18.87			
5	QPSK	150	12	18.87	18.86	18.80	18.87			
5	QPSK	150	24	18.88	18.86	18.80	18.88			
5	QPSK	175	0	18.87	18.86	18.80	18.87			
5	QPSK	175	12	18.87	18.86	18.80	18.87			
5	QPSK	175	24	18.87	18.86	18.80	18.87			
5	QPSK	200	0	18.84	18.84	18.80	18.84			
5	QPSK	200	12	18.84	18.84	18.80	18.84			
5	QPSK	200	24	18.84	18.84	18.80	18.84			
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.15	24.24	24.09	24.15			
3	QPSK	1	3	24.25	24.25	24.24	24.25			
3	QPSK	1	6	24.10	24.02	24.16	24.10			
3	QPSK	3	0	24.12	24.21	23.35	24.12			
3	QPSK	3	3	23.37	23.07	23.05	23.37			
3	QPSK	3	6	23.29	23.19	23.22	23.29			
3	QPSK	6	0	23.14	23.22	23.00	23.14			
3	QPSK	6	3	23.23	23.18	23.19	23.23			
3	QPSK	6	6	23.21	23.11	23.11	23.21			
3	QPSK	9	0	23.19	23.19	23.21	23.19			
3	QPSK	9	3	23.20	23.22	23.00	23.20			
3	QPSK	9	6	22.27	22.21	22.08	22.27			
3	QPSK	12	0	22.21	22.30	22.08	22.21			
3	QPSK	12	3	22.23	22.33	22.09	22.23			
3	QPSK	12	6	22.27	22.29	22.2				



Band 26(FCC)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up (MHz)	Int. (dBm)	Antenna
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.79	23.66	23.71	23.79	23.66	23.71
15	QPSK	1	37	23.62	23.50	23.70	23.62	23.50	23.70
15	QPSK	1	74	23.45	23.33	23.48	23.45	23.33	23.48
15	QPSK	36	0	22.71	22.68	22.80	22.71	22.68	22.80
15	QPSK	36	36	22.54	22.76	22.55	22.54	22.76	22.55
15	QPSK	75	0	22.50	22.78	22.77	22.50	22.78	22.77
15	16QAM	1	37	23.14	23.13	23.14	23.14	23.13	23.14
15	16QAM	1	74	23.00	22.80	22.88	23.00	22.80	22.88
15	16QAM	36	0	21.75	21.68	21.70	21.75	21.68	21.70
15	16QAM	36	20	21.88	21.81	21.72	21.88	21.81	21.72
15	16QAM	36	39	21.86	21.76	21.78	21.86	21.76	21.78
15	16QAM	36	58	21.74	21.65	21.70	21.74	21.65	21.70
15	16QAM	36	77	21.91	21.70	21.84	21.91	21.70	21.84
15	16QAM	36	96	20.80	20.87	20.88	20.80	20.87	20.88
15	16QAM	36	115	20.79	20.80	20.81	20.79	20.80	20.81
15	16QAM	36	134	20.54	20.77	20.82	20.54	20.77	20.82
15	16QAM	75	0	20.84	20.75	20.79	20.84	20.75	20.79
15	16QAM	75	36	18.53	18.53	18.56	18.53	18.53	18.56
15	16QAM	75	72	18.51	18.56	18.55	18.51	18.56	18.55
15	16QAM	75	108	18.47	18.51	18.50	18.47	18.51	18.50
15	16QAM	75	144	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	180	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	216	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	252	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	288	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	324	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	360	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	396	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	432	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	468	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	504	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	540	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	576	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	612	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	648	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	684	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	720	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	756	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	792	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	828	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	864	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	900	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	936	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	972	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1008	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1044	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1080	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1116	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1152	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1188	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1224	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1260	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1296	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1332	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1368	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1404	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1440	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1476	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1512	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1548	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1584	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1620	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1656	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1692	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1728	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1764	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1800	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1836	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1872	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1908	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1944	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	1980	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2016	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2052	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2088	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2124	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2160	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2196	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2232	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2268	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2304	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2340	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2376	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2412	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2448	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2484	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2520	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2556	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2592	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2628	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2664	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2700	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2736	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2772	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2808	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2844	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2880	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2916	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2952	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	2988	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3024	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3060	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3096	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3132	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3168	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3204	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3240	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3276	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3312	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3348	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	3384	18.51	18.53	18.50	18.51	18.53	18.50
15	16QAM	75	34						





Band 30_Ant 6									
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch. (F/Hz)	Power Middle Ch. (F/Hz)	Power High Ch. (F/Hz)	Turn-up (dB)	Turn-up (dB)	
Channel									
Frequency (MHz)									
2310									
10	QPSK	1	0	22.47	22.47	22.47	23.8		
10	QPSK	1	26	22.52	22.52	22.52			
10	QPSK	1	49	22.45	22.45	22.45			
10	QPSK	25	0	21.88	21.88	21.88	22.8		
10	QPSK	25	12	21.90	21.90	21.90			
10	QPSK	25	25	22.00	22.00	22.00			
10	QPSK	50	0	21.92	21.92	21.92	22.8		
10	16QAM	50	0	22.00	22.00	22.00			
10	16QAM	50	25	21.98	21.98	21.98			
10	16QAM	1	49	22.00	22.00	22.00	21.8		
10	16QAM	25	0	22.88	22.88	22.88			
10	16QAM	25	12	20.78	20.78	20.78			
10	16QAM	25	25	20.85	20.85	20.85	21.8		
10	16QAM	50	0	20.75	20.75	20.75			
10	16QAM	50	12	20.78	20.78	20.78			
10	16QAM	50	25	21.43	21.43	21.43	22.3		
10	16QAM	25	0	21.46	21.46	21.46			
10	16QAM	25	12	21.52	21.52	21.52			
10	16QAM	1	49	21.52	21.52	21.52	22.3		
10	16QAM	25	0	21.50	21.50	21.50			
10	16QAM	25	12	21.52	21.52	21.52			
10	16QAM	25	25	20.59	20.59	20.59	21.3		
10	16QAM	50	0	20.56	20.56	20.56			
10	16QAM	50	12	20.35	20.35	20.35			
10	16QAM	50	25	20.45	20.45	20.45	21.3		
10	16QAM	1	49	20.39	20.39	20.39			
10	16QAM	1	26	18.55	18.55	18.55			
10	256QAM	1	25	18.49	18.49	18.49	19.3		
10	256QAM	1	49	18.52	18.52	18.52			
10	256QAM	1	74	18.30	18.30	18.30			
10	256QAM	25	0	18.30	18.30	18.30	19.3		
10	256QAM	25	12	18.27	18.27	18.27			
10	256QAM	25	25	18.27	18.27	18.27			
10	256QAM	50	0	18.27	18.27	18.27	19.3		
10	256QAM	50	12	18.27	18.27	18.27			
10	256QAM	50	25	18.27	18.27	18.27			
Channel									
Frequency (MHz)									
27685 27710 27735									
5	QPSK	1	0	22.73	22.73	22.73	23.8		
5	QPSK	1	12	22.44	22.44	22.44			
5	QPSK	1	24	22.33	22.34	22.34			
5	QPSK	12	0	21.83	21.80	21.83	22.8		
5	QPSK	12	7	21.94	21.93	21.94			
5	QPSK	12	13	21.87	21.83	21.84			
5	QPSK	25	0	21.91	21.79	21.94	22.8		
5	16QAM	1	0	21.88	21.85	21.96			
5	16QAM	1	12	21.86	21.86	21.86			
5	16QAM	1	24	21.85	21.85	21.85	21.8		
5	16QAM	12	0	20.80	20.84	20.85			
5	16QAM	12	7	20.87	20.72	20.87			
5	16QAM	12	13	20.75	20.78	20.82	21.8		
5	16QAM	25	0	20.66	20.70	20.76			
5	16QAM	25	0	20.75	20.83	20.76			
5	16QAM	1	12	20.80	20.73	20.73	21.8		
5	16QAM	1	24	20.79	20.74	20.71			
5	16QAM	1	49	19.88	19.70	19.81			
5	16QAM	12	7	19.87	19.73	19.89	20.8		
5	16QAM	12	13	19.88	19.84	19.87			
5	16QAM	25	0	19.82	19.70	19.74			
5	256QAM	1	0	18.08	18.17	18.05	18.8		
5	256QAM	1	12	18.00	18.00	18.00			
5	256QAM	1	24	17.99	18.03	17.98			
5	256QAM	12	0	17.89	17.86	17.89	18.8		
5	256QAM	12	7	17.89	17.81	17.85			
5	256QAM	12	13	17.85	17.83	17.86			
5	256QAM	25	0	17.47	17.44	17.48	18.8		

Band 30_Ant 7									
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch. (F/Hz)	Power Middle Ch. (F/Hz)	Power High Ch. (F/Hz)	Turn-up (dB)	Turn-up (dB)	
Channel									
Frequency (MHz)									
2710									
10	QPSK	1	0	23.20	23.20	23.20	24.3		
10	QPSK	1	26	23.22	23.22	23.22			
10	QPSK	1	49	23.24	23.24	23.24			
10	QPSK	25	0	22.49	22.49	22.49	23.3		
10	QPSK	25	12	22.49	22.49	22.49			
10	QPSK	25	25	22.42	22.42	22.42			
10	QPSK	50	0	22.46	22.46	22.46	23.3		
10	16QAM	50	0	22.50	22.50	22.50			
10	16QAM	50	25	22.45	22.45	22.45			
10	16QAM	1	49	22.46	22.46	22.46	22.3		
10	16QAM	25	0	21.53	21.53	21.53			
10	16QAM	25	12	21.52	21.52	21.52			
10	16QAM	25	25	21.43	21.43	21.43	22.3		
10	16QAM	50	0	21.46	21.46	21.46			
10	16QAM	50	12	21.52	21.52	21.52			
10	16QAM	1	49	21.52	21.52	21.52	22.3		
10	16QAM	25	0	21.50	21.50	21.50			
10	16QAM	25	12	21.52	21.52	21.52			
10	16QAM	25	25	20.59	20.59	20.59	21.3		
10	16QAM	50	0	20.56	20.56	20.56			
10	16QAM	50	12	20.35	20.35	20.35			
10	16QAM	50	25	20.45	20.45	20.45	19.3		
10	256QAM	1	25	18.55	18.55	18.55			
10	256QAM	1	49	18.52	18.52	18.52			
10	256QAM	25	0	18.30	18.30	18.30	19.3		
10	256QAM	25	12	18.27	18.27	18.27			
10	256QAM	25	25	18.27	18.27	18.27			
10	256QAM	50	0	18.27	18.27	18.27	19.3		
10	256QAM	50	12	18.27	18.27	18.27			
10	256QAM	50	25	18.27	18.27	18.27			
Channel									
Frequency (MHz)									
27685 27710 27735									
5	QPSK	1	0	23.03	23.03	23.03	24.3		
5	QPSK	1	12	23.19	23.25	23.16			
5	QPSK	1	24	23.16	23.19	23.03			
5	QPSK	12	0	22.30	22.27	22.33	23.3		
5	QPSK	12	7	22.39	22.38	22.40			
5	QPSK	12	13	22.29	22.24	22.29			
5	QPSK	25	0	22.28	22.24	22.30	23.3		
5	16QAM	1	0	22.30	22.48	22.38			
5	16QAM	1	12	22.30	22.37	22.36			
5	16QAM	1	24	22.25	22.33	22.23	22.3		
5	16QAM	12	0	21.38	21.52	21.42			
5	16QAM	12	7	21.38	21.40	21.34			
5	16QAM	12	13	21.38	21.34	21.34	22.3		
5	16QAM	25	0	21.21	21.43	21.38			
5	16QAM	25	0	21.37	21.39	21.32			
5	16QAM	1	12	20.90	21.00	21.11	22.3		
5	16QAM	1	24	20.94	21.08	21.12			
5	16QAM	1	49	20.94	21.08	21.12			
5	16QAM	12	7	20.29	20.29	20.23	21.3		
5	16QAM	12	13	20.29	20.29	20.23			
5	16QAM	25	0	20.24	20.25	20.25			
5	256QAM	1	0	18.45	18.52	18.36	19.3		
5	256QAM	1	12	18.21	18.28	18.25			
5	256QAM	1	24	18.42	18.42	18.43			
5	256QAM	12	0	18.13	18.19	18.13	19.3		
5	256QAM	12	7	18.15	18.28	18.14			
5	256QAM	12	13	17.97	18.07	18.03			
5	256QAM	25	0	18.14	18.11	18.09	19.3		

Band 66_Ant 5									
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch. (F/Hz)	Power Middle Ch. (F/Hz)	Power High Ch. (F/Hz)	Turn-up (dB)	Turn-up (dB)	
Channel									
Frequency (MHz)									
1720 1740 1770									
20	QPSK	1	0	24.20	24.19	24.23	25		
20	QPSK	1	49	24.20	24.20	24.23			
20	QPSK	1	98	24.02	24.19	24.19			
20	QPSK	50	0	23.20	23.28	23.23	24		
20	16QAM	50	24	23.23	23.21	23.26			
20	16QAM	100	0	23.17	23.24	23.18			
20	16QAM	1	49	23.17	23.17	23.29	24		
20	16QAM	1	98	23.15	23.15	23.15			
20	16QAM	1	147	23.02	23.02	23.09			
20	16QAM	50	24	23.36	23.33	23.31	23		
20	16QAM	50	49	23.32	23.28	23.25			
20	16QAM	50	74	23.23	23.28	23.25			
20	16QAM	100	0	23.23	23.21	23.20	23		
20	16QAM	100	24	23.23	23.21	23.20			
20	16QAM	100	49	23.23	23.21	23.20			
20	16QAM	1	49	23.23	23.2				



Band 66_Ant 6									
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up (dBm)	Turn-off (dBm)	Turn-on (dBm)
Channel 130272 130272 130272									
Frequency (MHz) 1720 1745 1770									
20	QPSK	1	0	24.21	24.43	24.40	24.8		
20	QPSK	1	49	24.30	24.46	24.48	24.8		
20	QPSK	1	98	24.30	24.39	24.38	24.8		
20	QPSK	50	0	23.30	23.38	23.41	23.8		
20	QPSK	50	24	23.27	23.31	23.34	23.8		
20	QPSK	100	0	23.28	23.32	23.30	23.8		
20	QPSK	100	24	23.28	23.32	23.30	23.8		
20	16QAM	1	49	23.66	23.70	23.71	23.8		
20	16QAM	1	99	23.37	23.50	23.49	23.8		
20	16QAM	50	0	22.32	22.42	22.41	22.8		
20	16QAM	50	24	22.37	22.35	22.40	22.8		
20	16QAM	100	0	22.30	22.38	22.34	22.8		
20	16QAM	100	24	22.33	22.33	22.35	22.8		
20	64QAM	1	0	22.47	22.55	22.57	22.8		
20	64QAM	1	49	22.54	22.59	22.59	22.8		
20	64QAM	1	99	22.29	22.38	22.35	22.8		
20	64QAM	50	0	21.31	21.40	21.40	21.8		
20	64QAM	50	24	21.36	21.37	21.37	21.8		
20	64QAM	100	0	21.27	21.35	21.35	21.8		
20	64QAM	100	24	21.34	21.35	21.35	21.8		
20	256QAM	1	49	18.16	18.18	18.18	19.8		
20	256QAM	1	99	18.11	18.18	18.18	19.8		
20	256QAM	50	0	18.21	18.22	18.21	19.8		
20	256QAM	50	24	18.21	18.18	18.11	19.8		
20	256QAM	100	0	18.19	18.18	18.11	19.8		
20	256QAM	100	24	18.23	18.19	18.10	19.8		
Channel 130272 130272 130272									
Frequency (MHz) 1717.2 1742.5 1772.5									
15	QPSK	1	0	24.14	24.14	24.14	24.8		
15	QPSK	1	37	24.38	24.38	24.42	24.8		
15	QPSK	1	74	24.16	24.16	24.17	24.8		
15	QPSK	1	111	23.19	23.33	23.34	23.8		
15	QPSK	36	20	23.34	23.33	23.35	23.8		
15	QPSK	75	0	23.15	23.19	23.24	23.8		
15	16QAM	1	0	23.49	23.60	23.52	23.8		
15	16QAM	1	49	23.46	23.60	23.59	23.8		
15	16QAM	1	98	23.33	23.39	23.47	23.8		
15	16QAM	36	20	22.28	22.32	22.37	22.8		
15	16QAM	75	0	22.24	22.28	22.28	22.8		
15	16QAM	150	0	22.23	22.32	22.31	22.8		
15	64QAM	1	37	22.43	22.37	22.50	22.8		
15	64QAM	1	74	22.27	22.29	22.22	22.8		
15	64QAM	36	20	21.27	21.32	21.35	21.8		
15	64QAM	75	0	21.29	21.19	21.22	21.8		
15	256QAM	1	0	18.01	18.07	18.01	19.8		
15	256QAM	1	49	18.05	18.07	18.07	19.8		
15	256QAM	1	98	18.10	18.07	18.12	19.8		
15	256QAM	36	20	18.11	18.10	18.17	19.8		
15	256QAM	75	0	18.15	18.13	18.06	19.8		
15	256QAM	150	0	18.19	18.02	18.14	19.8		
Channel 130272 130272 130272									
Frequency (MHz) 1715 1745 1775									
10	QPSK	1	0	24.14	24.30	24.28	24.8		
10	QPSK	1	49	24.26	24.42	24.42	24.8		
10	QPSK	1	98	24.30	24.19	24.14	24.8		
10	QPSK	25	0	23.26	23.28	23.40	23.8		
10	QPSK	50	0	23.30	23.34	23.34	23.8		
10	QPSK	25	25	23.13	23.28	23.21	23.8		
10	16QAM	1	0	23.10	23.17	23.20	23.8		
10	16QAM	1	24	23.53	23.66	23.68	23.8		
10	16QAM	1	49	23.40	23.51	23.51	23.8		
10	16QAM	1	98	23.27	23.29	23.30	23.8		
10	16QAM	25	12	22.28	22.23	22.35	22.8		
10	16QAM	50	0	22.28	22.31	22.31	22.8		
10	64QAM	1	0	22.45	22.43	22.61	22.8		
10	64QAM	1	49	22.21	22.34	22.27	22.8		
10	64QAM	1	98	21.16	21.32	21.30	21.8		
10	64QAM	25	12	21.32	21.32	21.38	21.8		
10	64QAM	25	25	21.29	21.27	21.29	21.8		
10	256QAM	1	0	18.00	18.04	18.10	19.8		
10	256QAM	1	25	18.11	18.07	18.17	19.8		
10	256QAM	1	50	18.16	18.05	18.07	19.8		
10	256QAM	1	75	18.10	18.10	18.11	19.8		
10	256QAM	1	100	18.19	18.10	18.11	19.8		
Channel 131987 131987 131987									
Frequency (MHz) 1715.5 1745.5 1775.5									
5	QPSK	1	0	24.08	24.22	24.20	24.8		
5	QPSK	1	12	24.20	24.44	24.34	24.8		
5	QPSK	1	24	24.24	24.25	24.26	24.8		
5	QPSK	12	0	23.28	23.33	23.38	23.8		
5	QPSK	12	7	23.24	23.29	23.29	23.8		
5	QPSK	12	14	23.24	23.19	23.19	23.8		
5	QPSK	25	0	23.19	23.18	23.28	23.8		
5	QPSK	1	0	23.48	23.60	23.58	23.8		
5	16QAM	1	0	23.11	23.03	23.11	23.8		
5	16QAM	1	24	23.26	23.40	23.35	23.8		
5	16QAM	1	49	22.25	22.37	22.37	22.8		
5	16QAM	12	0	22.28	22.31	22.30	22.8		
5	16QAM	12	13	22.27	22.32	22.31	22.8		
5	16QAM	12	25	22.28	22.40	22.31	22.8		
5	64QAM	1	0	22.38	22.49	22.48	22.8		
5	64QAM	1	12	21.24	21.36	21.32	21.8		
5	64QAM	1	24	21.20	21.26	21.34	21.8		
5	64QAM	12	0	21.24	21.36	21.32	21.8		
5	64QAM	12	7	21.24	21.22	21.34	21.8		
5	64QAM	12	14	21.20	21.20	21.28	21.8		
5	64QAM	25	0	21.20	21.26	21.38	21.8		
5	256QAM	1	0	18.05	18.10	18.04	19.8		
5	256QAM	1	12	18.04	18.02	18.00	19.8		
5	256QAM	1	24	18.08	18.11	18.04	19.8		
5	256QAM	12	0	18.10	18.03	18.02	19.8		
5	256QAM	12	13	18.10	18.03	18.00	19.8		
5	256QAM	12	25	18.10	18.10	18.11	19.8		
Channel 131987 131987 131987									
Frequency (MHz) 1715.5 1745.5 1775.5									
3	QPSK	1	0	24.11	24.28	24.28	24.8		
3	QPSK	1	3	24.37	24.47	24.47	24.8		
3	QPSK	1	6	24.25	24.18	24.12	24.8		
3	QPSK	3	0	24.00	24.17	24.20	24.8		
3	QPSK	3	3	24.13	24.03	24.03	24.8		
3	QPSK	8	7	23.12	23.21	23.21	23.8		
3	16QAM	1	0	23.18	23.28	23.28	23.8		
3	16QAM	1	3	23.44	23.65	23.62	23.8		
3	16QAM	1	6	23.35	23.58	23.57	23.8		
3	16QAM	3	0	22.22	22.28	22.31	22.8		
3	16QAM	3	4	22.27	22.21	22.27	22.8		
3	16QAM	3	8	22.27	22.32	22.31	22.8		
3	16QAM	15	0	22.31	22.27	22.27	22.8		
3	64QAM	1	0	22.35	22.59	22.59	22.8		
3	64QAM	1	3	22.47	22.37	22.58	22.8		
3	64QAM	1	6	22.17	22.25	22.24	22.8		
3	64QAM	3	0	21.32	21.39	21.37	21.8		
3	64QAM	3	7	21.20	21.24	21.34	21.8		
3	64QAM	15	0	21.31	21.28	21.28	21.8		
3	256QAM	1	0	18.05	18.10	18.04	19.8		
3	256QAM	1	3	18.06	18.10	18.06	19.8		
3	256QAM	1	6	18.04	18.04	18.00	19.8		
3	256QAM	3	0	18.08	18.14	18.12	19.8		
3	256QAM	3	7	18.10	18.11	18.07	19.8		
3	256QAM	3	15	18.10	18.10	18.11	19.8		
Channel 131987 131987 131987									
Frequency (MHz) 1710.7 1745 1779.3									
1.4	QPSK	1	0	24.11	24.28	24.28	24.8		
1.4	QPSK	1	3	24.37	24.47	24.47	24.8		
1.4	QPSK	1	6	24.25	24.18	24.12	24.8		
1.4	QPSK	3	0	24.00	2				



Band 38_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch1 (W)	Power Middle Ch1 (W)	Power High Ch1 (W)	Power Low Ch2 (W)	Power Middle Ch2 (W)	Power High Ch2 (W)	Time-up (min)
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.72	24.80	24.81				25
20	QPSK	1	49	24.87	24.94	24.95				25
20	QPSK	1	99	24.71	24.81	24.74				25
20	QPSK	50	0	23.74	23.77	23.78				24
20	QPSK	50	44	23.66	23.70	23.69				24
20	QPSK	50	50	23.79	23.74	23.73				24
20	QPSK	100	0	23.78	23.79	23.80				24
20	16QAM	1	0	23.75	23.79	23.72				24
20	16QAM	1	49	23.82	23.85	23.74				24
20	16QAM	1	99	23.62	23.74	23.67				24
20	16QAM	50	0	22.88	22.74	22.85				23
20	16QAM	50	44	22.88	22.74	22.85				23
20	16QAM	50	50	23.00	22.96	22.94				23
20	16QAM	100	0	22.88	22.75	22.75				23
20	64QAM	1	0	22.85	22.96	22.78				23
20	64QAM	1	49	22.82	22.87	22.60				23
20	64QAM	1	99	22.82	22.87	22.60				23
20	64QAM	50	0	21.80	21.73	21.65				22
20	64QAM	50	44	21.70	21.84	21.63				22
20	64QAM	50	50	21.82	21.78	21.81				22
20	64QAM	100	0	21.83	21.68	21.74				22
20	SSBQAM	1	0	19.92	19.97	19.84				20
20	SSBQAM	1	49	19.47	19.49	19.60				20
20	SSBQAM	1	99	19.45	19.54	19.50				20
20	SSBQAM	50	0	19.42	19.54	19.58				20
20	SSBQAM	50	44	19.42	19.54	19.58				20
20	SSBQAM	50	50	19.58	19.53	19.52				20
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.64	24.69	24.58				25
15	QPSK	1	37	24.74	24.77	24.81				25
15	QPSK	1	74	24.68	24.70	24.69				25
15	QPSK	36	0	23.59	23.70	23.67				24
15	QPSK	36	20	23.78	23.83	23.65				24
15	QPSK	36	36	23.74	23.84	23.71				24
15	QPSK	75	0	23.72	23.84	23.34				24
15	16QAM	1	0	23.74	23.88	23.62				24
15	16QAM	1	37	23.77	23.78	23.66				24
15	16QAM	1	74	23.47	23.86	23.40				24
15	16QAM	36	0	22.72	22.76	22.76				23
15	16QAM	36	20	22.77	22.92	22.84				23
15	16QAM	36	36	22.90	22.80	22.71				23
15	16QAM	75	0	22.85	22.85	22.85				23
15	64QAM	1	0	22.78	22.41	22.70				23
15	64QAM	1	37	22.44	22.97	22.66				23
15	64QAM	1	74	22.70	22.84	22.65				23
15	64QAM	36	0	21.69	21.68	21.61				22
15	64QAM	36	20	21.55	21.72	21.77				22
15	64QAM	36	36	21.80	21.69	21.68				22
15	64QAM	75	0	21.69	21.67	21.62				22
15	SSBQAM	1	0	19.42	19.48	19.58				20
15	SSBQAM	1	37	19.32	19.44	19.61				20
15	SSBQAM	1	74	19.47	19.49	19.59				20
15	SSBQAM	36	0	19.42	19.44	19.54				20
15	SSBQAM	36	20	19.42	19.44	19.54				20
15	SSBQAM	36	36	19.48	19.40	19.51				20
15	SSBQAM	75	0	19.55	19.40	19.48				20
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.62	24.67	24.44				25
15	QPSK	1	35	24.66	24.77	24.78				25
15	QPSK	1	49	24.68	24.77	24.70				25
15	QPSK	36	0	23.65	23.69	23.69				24
15	QPSK	36	12	23.78	23.79	23.77				24
15	QPSK	36	25	23.69	23.69	23.69				24
15	QPSK	75	0	23.63	23.68	23.57				24
15	16QAM	1	0	23.68	23.84	23.61				24
15	16QAM	1	49	23.65	23.87	23.48				24
15	16QAM	25	0	22.82	22.77	22.60				23
15	16QAM	25	12	22.84	22.81	22.69				23
15	16QAM	25	25	22.98	22.93	22.75				23
15	16QAM	50	0	22.74	22.84	22.80				23
15	64QAM	1	0	22.87	22.95	22.70				23
15	64QAM	1	35	22.39	22.44	22.50				23
15	64QAM	1	49	22.73	22.95	22.67				23
15	64QAM	25	0	21.70	21.70	21.62				22
15	64QAM	25	12	21.68	21.74	21.70				22
15	64QAM	25	25	21.73	21.81	21.77				22
15	64QAM	50	0	21.73	21.68	21.73				22
15	SSBQAM	1	0	19.47	19.56	19.59				20
15	SSBQAM	1	25	19.49	19.34	19.58				20
15	SSBQAM	1	49	19.45	19.55	19.48				20
15	SSBQAM	25	0	19.42	19.39	19.40				20
15	SSBQAM	25	12	19.50	19.40	19.56				20
15	SSBQAM	25	25	19.35	19.44	19.52				20
15	SSBQAM	50	0	19.48	19.50	19.52				20
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.57	24.74	24.59				25
5	QPSK	1	24	24.73	24.89	24.71				25
5	QPSK	12	0	23.64	23.68	23.59				24
5	QPSK	12	7	23.75	23.79	23.65				24
5	QPSK	25	0	23.73	23.79	23.52				24
5	16QAM	1	0	23.61	23.66	23.46				24
5	16QAM	1	12	23.69	23.70	23.64				24
5	16QAM	1	24	23.50	23.83	23.30				24
5	16QAM	12	0	22.86	22.79	22.67				23
5	16QAM	12	7	22.83	22.85	22.88				23
5	16QAM	12	13	22.97	22.71	22.72				23
5	16QAM	25	0	22.80	22.93	22.81				23
5	64QAM	1	0	22.78	22.42	22.72				23
5	64QAM	1	12	22.83	22.96	22.68				23
5	64QAM	1	24	22.79	22.93	22.47				23
5	64QAM	12	0	21.79	21.58	21.53				22
5	64QAM	12	7	21.62	21.63	21.62				22
5	64QAM	12	13	21.71	21.74	21.70				22
5	64QAM	25	0	21.82	21.62	21.67				22
5	SSBQAM	1	0	19.45	19.46	19.60				20
5	SSBQAM	1	12	19.33	19.46	19.50				20
5	SSBQAM	1	24	19.46	19.49	19.37				20
5	SSBQAM	12	0	19.34	19.47	19.46				20
5	SSBQAM	12	7	19.40	19.48	19.40				20
5	SSBQAM	12	13	19.46	19.39	19.50				20
5	SSBQAM	25	0	19.41	19.45	19.40				20

Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch1 (W)	Power Middle Ch1 (W)	Power High Ch1 (W)	Power Low Ch2 (W)	Power Middle Ch2 (W)	Power High Ch2 (W)	Time-up (min)
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.49	24.47	24.20				24.8
20	QPSK	1	49	24.62	24.30	24.13				24.8
20	QPSK	1	99	24.13	24.13	24.28				24.8
20	QPSK	50	0	23.11	23.17	23.11				23.8
20	QPSK	50	44	23.03	23.05	23.14				23.8
20	QPSK	50	50	23.20	23.14	23.30				23.8
20	QPSK	100	0	23.17	23.20	23.28				23.8
20	16QAM	1	0	23.20	23.28	23.49				23.8
20	16QAM	1	49	23.21	23.43	23.55				23.8
20	16QAM	1	99	23.43	23.39	23.52				23.8
20	16QAM	50	0	22.18	22.35	22.12				22.8
20	16QAM	50	44	22.25	22.17	22.39				22.8
20	16QAM	50	50	22.14	22.29	22.14				22.8
20	16QAM	100	0	22.19	22.04	22.20				



Band 41_Ant 5										
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch (dBm)	Power High Ch (dBm)	Power Mid Ch (dBm)	Power Low Ch (dBm)	Power High Ch (dBm)	Power Mid Ch (dBm)	Turn-up (dBm)
Channel										
Frequency (MHz)										
				2006	2049.5	2053	2063.5	2080	2100	2100
20	QPSK	1	0	24.38	24.31	24.37	24.40	24.20		24.8
20	QPSK	1	49	22.31	22.29	22.43	22.41	22.49		24.8
20	QPSK	1	98	24.46	24.49	24.50	24.35	24.32		24.8
20	QPSK	50	0	23.39	23.43	23.45	23.42	23.43		23.8
20	QPSK	50	24	23.43	23.43	23.45	23.41	23.43		23.8
20	QPSK	50	49	23.46	23.54	23.49	23.41	23.56		23.8
20	QPSK	100	0	22.42	22.38	22.52	22.40	22.56		23.8
20	QPSK	100	24	22.39	22.34	22.52	22.40	22.40		23.8
20	HQAM	1	49	22.32	22.33	22.38	22.33	22.30		23.8
20	HQAM	1	99	22.38	22.29	22.43	22.42	22.30		23.8
20	HQAM	50	24	22.47	22.29	22.64	22.54	22.58		22.8
20	HQAM	100	0	22.51	22.52	22.52	22.50	22.45		22.8
20	HQAM	1	0	22.23	22.34	22.41	22.25	22.27		22.8
20	HQAM	1	49	22.45	22.43	22.23	22.44	22.54		22.8
20	HQAM	1	99	22.54	22.27	22.63	22.52	22.38		22.8
20	HQAM	50	0	21.27	21.62	21.58	21.52	21.51		21.8
20	HQAM	50	24	21.42	21.68	21.52	21.54	21.58		21.8
20	HQAM	50	49	21.54	21.54	21.51	21.58	21.58		21.8
20	HQAM	100	0	21.51	21.59	21.54	21.47	21.47		21.8
20	HQAM	1	0	19.93	19.95	19.96	19.97	19.92		19.8
20	HQAM	1	49	19.95	19.47	19.40	19.53	19.53		19.8
20	HQAM	1	99	19.92	19.92	19.92	19.92	19.92		19.8
20	HQAM	50	0	19.92	19.45	19.42	19.49	19.49		19.8
20	HQAM	50	24	19.94	19.88	19.80	19.80	19.80		19.8
20	HQAM	50	49	19.85	19.48	19.47	19.47	19.53		19.8
20	HQAM	100	0	19.85	19.48	19.47	19.47	19.53		19.8
Channel										
Frequency (MHz)										
				39725	40173	40620	41068	41515		Turn-up (dBm)
15	QPSK	1	0	24.30	24.28	24.33	24.35	24.08		24.8
15	QPSK	1	37	24.52	24.48	24.51	24.40	24.23		24.8
15	QPSK	1	74	24.33	24.33	24.33	24.33	24.08		24.8
15	QPSK	36	0	23.38	23.30	23.37	23.32	23.30		23.8
15	QPSK	36	20	23.49	23.64	23.50	23.50	23.55		23.8
15	QPSK	36	40	23.43	23.48	23.43	23.47	23.51		23.8
15	QPSK	75	0	23.41	23.58	23.47	23.47	23.41		23.8
15	HQAM	1	0	23.31	23.33	23.32	23.30	23.37		23.8
15	HQAM	1	37	23.17	23.22	23.32	23.18	23.19		23.8
15	HQAM	1	74	23.30	23.30	23.30	23.30	23.37		23.8
15	HQAM	36	0	22.32	22.32	22.32	22.32	22.47		23.8
15	HQAM	36	20	22.40	22.23	22.28	22.29	22.47		23.8
15	HQAM	36	40	22.32	22.23	22.23	22.23	22.47		23.8
15	HQAM	75	0	22.20	22.27	22.27	22.40	22.34		22.8
15	HQAM	1	0	21.24	21.54	21.48	21.40	21.42		21.8
15	HQAM	36	20	21.41	21.60	21.49	21.49	21.51		21.8
15	HQAM	75	0	21.42	21.41	21.48	21.33	21.45		21.8
15	HQAM	1	0	19.57	19.98	19.98	19.53	19.47		19.8
15	HQAM	37	0	19.43	19.43	19.43	19.43	19.43		19.8
15	HQAM	74	18.41	19.54	19.48	19.40	19.48		19.8	
15	HQAM	36	20	19.40	19.48	19.38	19.47	19.51		19.8
15	HQAM	36	40	19.40	19.48	19.38	19.40	19.43		19.8
15	HQAM	36	75	19.54	19.39	19.38	19.40	19.42		19.8
15	HQAM	75	0	19.50	19.44	19.48	19.33	19.53		19.8
Channel										
Frequency (MHz)										
				5991	5947	5993	5939	5985		Turn-up (dBm)
10	QPSK	1	0	24.30	24.28	24.33	24.35	24.08		24.8
10	QPSK	1	25	24.78	24.54	24.48	24.43	24.33		24.8
10	QPSK	1	49	24.38	24.50	24.41	24.28	24.17		24.8
10	QPSK	1	74	24.33	24.33	24.33	24.33	24.08		24.8
10	QPSK	25	12	23.48	23.84	23.58	23.54	23.53		23.8
10	QPSK	25	25	23.32	23.44	23.48	23.59	23.50		23.8
10	QPSK	50	0	23.38	23.38	23.37	23.38	23.30		23.8
10	HQAM	1	0	23.33	23.33	23.37	23.38	23.38		23.8
10	HQAM	1	25	23.29	23.38	23.31	23.23	23.28		23.8
10	HQAM	1	49	23.51	23.32	23.28	23.18	23.18		23.8
10	HQAM	25	0	22.29	22.29	22.28	22.41	22.41		23.8
10	HQAM	25	12	22.46	22.25	22.27	22.48	22.48		23.8
10	HQAM	25	25	22.47	22.35	22.38	22.41	22.41		23.8
10	HQAM	50	0	22.48	22.29	22.40	22.37	22.30		23.8
10	HQAM	50	24	22.44	22.44	22.40	22.34	22.34		23.8
10	HQAM	50	49	22.42	22.42	22.49	22.38	22.24		23.8
10	HQAM	100	0	21.22	21.60	21.52	21.40	21.24		21.8
10	HQAM	100	24	21.35	21.54	21.52	21.48	21.52		21.8
10	HQAM	100	49	21.58	21.58	21.58	21.58	21.58		21.8
10	HQAM	100	74	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	99	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	124	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	149	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	174	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	199	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	224	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	249	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	274	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	299	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	324	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	349	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	374	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	399	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	424	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	449	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	474	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	499	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	524	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	549	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	574	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	599	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	624	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	649	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	674	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	699	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	724	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	749	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	774	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	799	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	824	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	849	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	874	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	899	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	924	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	949	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	974	21.42	21.42	21.42	21.42	21.42		21.8
10	HQAM	100	999	21.42	21.42	21.42				



Band 41_Ant 6										
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Turn-up (dBm)
Channel										
30725 30730 30735 30740 30745										
20	QPSK	1	0	24.33	24.53	24.33	24.29	24.41	24.43	
20	QPSK	1	49	25.82	25.47	25.82	25.87	25.28	25.82	
20	QPSK	1	98	24.37	24.51	24.36	24.30	24.38	24.30	
20	QPSK	50	0	22.49	22.58	22.42	22.30	22.35	22.35	
20	QPSK	50	49	24.33	24.41	24.36	24.34	24.36	24.36	
20	QPSK	50	98	23.82	23.55	23.48	23.52	23.39	23.39	23.8
20	QPSK	100	0	22.52	22.62	22.53	22.44	22.41	22.41	
20	QPSK	100	49	23.82	23.91	23.83	23.82	23.84	23.84	
20	HQAM	1	49	23.82	23.43	23.48	23.61	23.39	23.39	23.8
20	HQAM	1	98	22.52	22.48	22.58	22.50	22.25	22.25	
20	HQAM	50	0	22.59	22.39	22.44	22.48	22.28	22.28	
20	HQAM	50	49	23.82	23.47	23.46	23.41	23.38	23.38	
20	HQAM	50	98	22.48	22.28	22.28	22.47	22.27	22.27	22.8
20	HQAM	100	0	22.58	22.25	22.24	22.24	22.23	22.23	
20	HQAM	100	49	22.28	22.35	22.27	22.45	22.22	22.22	
20	HQAM	100	98	22.47	22.33	22.23	22.23	22.28	22.28	
20	HQAM	50	0	21.47	21.44	21.47	21.53	21.50	21.50	21.8
20	HQAM	50	49	21.87	21.59	21.49	21.45	21.31	21.31	
20	HQAM	50	98	21.82	21.52	21.51	21.47	21.29	21.29	
20	HQAM	100	0	21.81	21.56	21.46	21.42	21.27	21.27	
20	HQAM	100	49	19.13	19.35	19.38	19.24	19.15	19.15	19.8
20	HQAM	100	98	19.12	19.33	19.32	19.26	19.21	19.21	
20	HQAM	50	0	19.07	19.08	19.08	19.08	19.10	19.10	
20	HQAM	50	49	19.12	19.00	19.12	19.63	19.14	19.14	
20	HQAM	50	98	19.05	19.07	19.08	19.09	19.09	19.09	
20	HQAM	100	0	19.05	19.07	19.08	19.09	19.09	19.09	
Channel										
30725 40713 40620 41088 41515 41515										
15	QPSK	1	0	24.28	24.38	24.38	24.34	24.42	24.42	24.8
15	QPSK	1	37	24.85	24.57	24.48	24.34	24.38	24.38	
15	QPSK	1	74	24.85	24.57	24.48	24.34	24.38	24.38	
15	QPSK	36	0	23.37	23.54	23.54	23.39	23.28	23.28	
15	QPSK	36	20	22.56	22.80	22.53	22.52	22.35	22.35	
15	QPSK	36	57	23.37	23.54	23.54	23.39	23.28	23.28	
15	QPSK	75	0	23.37	23.47	23.47	23.38	23.33	23.33	
15	HQAM	1	0	22.40	22.52	22.53	22.47	22.29	22.29	
15	HQAM	1	37	23.38	23.53	23.53	23.34	23.28	23.28	23.8
15	HQAM	1	74	23.37	23.52	23.52	23.39	23.31	23.31	
15	HQAM	36	0	22.53	22.53	22.53	22.53	22.53	22.53	
15	HQAM	36	20	22.49	22.29	22.29	22.29	22.20	22.20	
15	HQAM	36	50	22.40	22.24	22.24	22.28	22.23	22.23	
15	HQAM	36	75	22.43	22.25	22.25	22.31	22.21	22.21	
15	HQAM	1	37	22.21	22.30	22.28	22.42	22.17	22.17	
15	HQAM	1	74	22.21	22.30	22.28	22.42	22.17	22.17	
15	HQAM	36	0	21.46	21.41	21.46	21.28	21.21	21.21	21.8
15	HQAM	36	20	21.38	21.41	21.38	21.42	21.25	21.25	
15	HQAM	36	57	21.38	21.41	21.38	21.42	21.25	21.25	
15	HQAM	36	75	0	21.46	21.41	21.46	21.28	21.21	21.8
15	HQAM	1	0	19.08	19.08	19.08	19.08	19.08	19.08	
15	HQAM	1	37	19.08	19.08	19.08	19.08	19.08	19.08	
15	HQAM	1	74	19.11	19.35	19.35	19.09	19.07	19.07	
15	HQAM	36	0	19.08	19.08	19.08	19.08	19.08	19.08	
15	HQAM	36	20	19.08	19.08	19.08	19.08	19.08	19.08	
15	HQAM	36	50	19.08	19.08	19.08	19.08	19.08	19.08	
15	HQAM	36	75	0	19.05	19.08	19.08	19.08	19.08	
15	HQAM	100	0	19.05	19.08	19.08	19.08	19.08	19.08	
15	HQAM	100	49	19.05	19.08	19.08	19.08	19.08	19.08	
15	HQAM	100	98	19.05	19.08	19.08	19.08	19.08	19.08	
Channel										
30725 40713 40620 41088 41515 41515										

Band 41 (HPUE)_Ant 6										
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Turn-up (dBm)
Channel										
2508 2545.5 2593 2630.5 2678										
20	QPSK	1	0	28.41	28.54	28.48	28.44	28.40	28.40	
20	QPSK	1	49	28.51	28.50	28.51	28.41	28.38	28.38	26.8
20	QPSK	1	98	28.41	28.50	28.51	28.41	28.38	28.38	
20	QPSK	50	0	26.51	26.59	26.43	26.38	26.28	26.28	
20	QPSK	50	49	28.51	28.50	28.51	28.41	28.38	28.38	26.8
20	QPSK	50	98	26.51	26.59	26.43	26.38	26.28	26.28	
20	HQAM	1	49	26.50	26.53	26.70	26.50	26.60	26.60	25.8
20	HQAM	1	98	27.71	26.80	26.46	26.32	26.47	26.47	
20	HQAM	50	0	24.80	24.51	24.38	24.41	24.38	24.38	
20	HQAM	50	49	24.98	24.28	24.40	24.47	24.28	24.28	24.8
20	HQAM	50	98	24.84	24.48	24.43	24.44	24.28	24.28	
20	HQAM	100	0	24.57	24.63	24.50	24.35	24.37	24.37	
20	HQAM	100	49	24.57	24.60	24.75	24.70	24.60	24.60	
20	HQAM	100	98	24.00	24.73	24.68	24.77	24.65	24.65	
20	HQAM	50	0	23.55	23.48	23.45	23.31	23.33	23.33	
20	HQAM	50	49	23.74	23.62	23.69	23.38	23.45	23.45	
20	HQAM	50	98	23.62	23.45	23.45	23.48	23.40	23.40	
20	HQAM	100	0	23.52	23.52	23.52	23.52	23.52	23.52	
20	HQAM	100	49	23.52	23.58	23.46	23.42	23.36	23.36	
20	HQAM	100	98	23.52	23.58	23.46	23.42	23.36	23.36	
20	HQAM	50	0	21.29	21.34	21.23	21.20	21.20	21.20	21.8
20	HQAM	50	49	21.29	21.34	21.23	21.20	21.20	21.20	
20	HQAM	50	98	21.29	21.34	21.23	21.20	21.20	21.20	
20	HQAM	100	0	21.29	21.34	21.23	21.20	21.20	21.20	
20	HQAM	100	49	21.29	21.34	21.23	21.20	21.20	21.20	
20	HQAM	100	98	21.29	21.34	21.23	21.20	21.20	21.20	
Channel										
30725 40713 40620 41088 41515 41515										
15	QPSK	1	0	26.29	26.48	26.34	26.30	26.27	26.27	
15	QPSK	1	37	26.89	26.51	26.41	26.45	26.30	26.30	26.8
15	QPSK	1	74	26.81	26.37	26.17	26.17	26.28	26.28	
15	QPSK	36	0	25.50	25.50	25.28	25.20	25.33	25.33	
15	QPSK	36	20	25.50	25.55	25.47	25.35	25.37	25.37	25.8
15	QPSK	36	57	25.50	25.55	25.47	25.35	25.37	25.37	
15	QPSK	75	0	25.50	25.47	25.47	25.38	25.29	25.29	
15	HQAM	1	0	25.81	25.24	25.24	25.34	25.31	25.31	
15	HQAM	1	37	25.81	25.24	25.24	25.34	25.31	25.31	25.8
15	HQAM	1	74	25.81	25.24	25.24	25.34	25.31	25.31	
15	HQAM	36	0	24.83	24.48	24.48	24.33	24.28	24.28	
15	HQAM	36	20	24.83	24.47	24.49	24.33	24.28	24.28	24.8
15	HQAM	36	50	24.84	24.39	24.40	24.29	24.28	24.28	
15	HQAM	36	75	24.83	24.56	24.44	24.33	24.28	24.28	
15	HQAM	1	37	24.58	24.53	24.73	24.58	24.51	24.51	24.8
15	HQAM	1	74	24.58	24.49	24.43	24.48	24.46	24.46	
15	HQAM	36	0	23.45	23.48	23.44	23.20	23.25	23.25	
15	HQAM	36	20	23.45	23.48	23.44	23.20	23.25	23.25	
15	HQAM	36	57	23.45	23.48	23.44	23.20	23.25	23.25	
15	HQAM	36	75	0	23.47	23.49	23.44	23.34	23.27	23.27
15	HQAM	1	0	21.52	21.50	21.52	21.54	21.26	21.26	21.8
15	HQAM	1	37	21.52	21.50	21.52	21.54	21.26	21.26	
1										







Reduced Power Mode for DSI4

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	128	188	251		128	188	251		
TX Channel	824.2	836.4	848.6	832.2	832.4	844.6			
Frequency (MHz)									
GSM 1 Tx slot	32.76	32.80	32.77	34.00	23.75	23.80	23.77	25.00	
GPRS 1 Tx slot	32.72	32.77	32.69	34.00	23.72	23.77	23.69	25.00	
GPRS 2 Tx slots	29.83	29.70	29.68	31.00	23.83	23.70	23.68	25.00	
GPRS 3 Tx slots	27.88	27.93	27.85	29.20	23.82	23.87	23.59	24.54	
GPRS 4 Tx slots	27.15	26.88	26.70	23.50	24.15	23.88	23.70	25.00	
EDGE(GMSK 1 Tx slot)	32.57	32.75	32.54	34.00	23.57	23.75	23.54	25.00	
EDGE(GMSK 2 Tx slot)	29.68	29.55	29.63	31.00	23.68	23.55	23.63	25.00	
EDGE(GMSK 3 Tx slot)	27.73	27.91	27.71	29.20	23.47	23.85	23.45	24.54	
EDGE(GMSK 4 Tx slot)	27.05	26.86	26.55	28.80	24.05	23.86	23.55	25.00	
EDGE 1 Tx slot	26.95	26.77	26.82	24.00	17.65	17.77	17.82	19.00	
EDGE 2 Tx slots	23.85	23.79	23.70	25.00	17.85	17.79	17.70	19.00	
EDGE 3 Tx slots	22.08	21.68	21.66	23.50	17.42	17.42	17.40	19.24	
EDGE 4 Tx slots	21.00	20.86	20.89	22.50	18.00	17.86	17.89	19.50	
DTM Multi-slot class 5	GSM 1 Tx slot	29.54	29.44	29.58	31.00	23.56	23.44	23.57	24.98
DTM Multi-slot class 9	GSM 1 Tx slot	29.55	29.41	29.50	31.00	23.55	23.43	23.49	24.98
DTM Multi-slot class 11	GSM 1 Tx slot	27.59	27.76	27.56	29.20	23.35	23.56	23.31	24.94
DTM Multi-slot class 5	GSM 1 Tx slot	29.51	29.48	29.51	31.00	23.51	23.48	23.48	22.94
DTM Multi-slot class 9	GSM 1 Tx slot	29.69	29.46	29.54	31.00	23.69	23.44	23.49	22.94
DTM Multi-slot class 11	GSM 1 Tx slot	23.72	23.66	23.57	25.00	21.57	21.44	21.49	22.94
EDGE 2 Tx slots	21.98	21.62	21.55	23.50	20.46	20.50	20.32	22.04	

GSM1900_Ant 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	1652.2	1660	1669.8	1652.2	1652.4	1660.6			
Frequency (MHz)									
GSM 1 Tx slot	30.66	30.60	30.72	31.60	21.66	21.60	21.77	22.50	
GPRS 1 Tx slot	30.63	30.57	30.77	31.60	21.63	21.57	21.72	22.00	
GPRS 2 Tx slots	27.00	26.97	26.92	28.00	21.00	20.97	20.92	22.00	
GPRS 3 Tx slots	25.22	25.28	25.52	26.50	20.96	21.02	21.26	22.24	
GPRS 4 Tx slots	24.20	24.30	24.55	26.50	21.20	21.30	21.55	22.50	
EDGE(GMSK 1 Tx slot)	30.48	30.46	30.63	31.60	21.48	21.46	21.63	22.50	
EDGE(GMSK 2 Tx slot)	28.99	28.87	28.86	28.00	20.99	20.87	20.86	22.00	
EDGE(GMSK 3 Tx slot)	25.08	25.26	25.41	26.50	20.82	21.00	21.15	22.24	
EDGE(GMSK 4 Tx slot)	24.06	24.15	24.53	26.50	21.06	21.15	21.53	22.50	
EDGE 1 Tx slot	26.20	26.15	26.12	27.00	17.20	17.15	17.12	18.00	
EDGE 2 Tx slots	23.10	23.22	23.18	24.00	17.10	17.22	17.16	18.00	
EDGE 3 Tx slots	21.88	22.00	21.92	22.80	17.62	17.74	17.66	18.54	
EDGE 4 Tx slots	21.65	21.70	21.64	22.80	18.65	18.70	18.64	19.60	
DTM Multi-slot class 5	GSM 1 Tx slot	26.86	26.74	26.76	28.00	20.86	20.74	20.77	21.98
DTM Multi-slot class 9	GSM 1 Tx slot	26.87	26.72	26.76	28.00	20.85	20.74	20.75	21.98
DTM Multi-slot class 11	GSM 1 Tx slot	24.96	25.11	25.34	26.50	20.72	20.88	21.14	22.24
DTM Multi-slot class 5	GSM 1 Tx slot	26.87	26.80	26.79	28.00	20.87	20.80	20.79	21.98
DTM Multi-slot class 9	GSM 1 Tx slot	26.88	26.81	26.79	28.00	20.88	20.81	20.79	21.98
DTM Multi-slot class 11	GSM 1 Tx slot	23.04	23.12	23.07	24.00	19.35	19.30	19.30	20.42
EDGE 2 Tx slots	21.76	21.85	21.78	22.80	18.87	18.98	19.03	20.15	

Band	WCDMA V_Ant 0				WCDMA V_Ant 5				
	TX Channel	9282	9400	9538	TX Channel	9282	9400	9538	
3GPP Rel 99	AMR 12.2Kbps	19.75	19.84	19.71	21.30	21.09	21.19	21.22	22.00
3GPP Rel 99	RMC 12.2Kbps	19.80	19.88	19.82	21.30	21.22	21.33	21.25	22.00
3GPP Rel 6	HSDPA Subtest-1	19.98	19.10	19.02	20.30	20.35	20.43	20.36	21.00
3GPP Rel 6	HSDPA Subtest-2	18.94	19.07	19.05	20.30	20.50	20.41	20.43	21.00
3GPP Rel 6	HSDPA Subtest-3	18.51	18.57	18.42	19.80	19.91	19.94	19.92	20.50
3GPP Rel 6	HSDPA Subtest-4	18.44	18.49	18.51	19.80	19.89	19.90	19.91	20.50
3GPP Rel 6	DC-HSDPA Subtest-1	18.83	18.88	18.89	20.30	20.32	20.31	20.29	21.00
3GPP Rel 6	DC-HSDPA Subtest-2	18.90	19.02	18.85	20.30	20.29	20.38	20.31	21.00
3GPP Rel 6	DC-HSDPA Subtest-3	18.34	18.47	18.42	19.80	19.85	19.85	19.82	20.50
3GPP Rel 6	DC-HSDPA Subtest-4	18.36	18.45	18.43	19.80	19.81	19.89	19.81	20.50
3GPP Rel 6	HSUPA Subtest-1	18.93	19.11	19.06	20.30	20.44	20.45	20.46	21.00
3GPP Rel 6	HSUPA Subtest-2	16.99	17.13	17.13	18.30	18.40	18.55	18.20	19.00
3GPP Rel 6	HSUPA Subtest-3	18.04	18.10	18.10	19.30	19.40	19.54	19.41	20.00
3GPP Rel 6	HSUPA Subtest-4	16.90	17.13	17.07	18.30	18.41	18.52	18.46	19.00
3GPP Rel 6	HSUPA Subtest-5	16.99	19.06	19.12	20.30	20.41	20.52	20.47	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.84	17.02	16.89	18.30	18.40	18.42	18.23	19.00

Band	WCDMA IV_Ant 0				WCDMA IV_Ant 5				
	TX Channel	1312	1413	1513	TX Channel	1312	1413	1513	
3GPP Rel 99	AMR 12.2Kbps	21.65	21.66	21.62	22.30	22.73	22.75	22.69	23.50
3GPP Rel 99	RMC 12.2Kbps	21.69	21.75	21.70	22.30	22.77	22.82	22.73	23.50
3GPP Rel 6	HSDPA Subtest-1	20.98	20.98	20.88	21.30	22.01	21.94	22.00	22.50
3GPP Rel 6	HSDPA Subtest-2	20.93	20.99	20.92	21.30	21.92	21.93	22.03	22.50
3GPP Rel 6	HSDPA Subtest-3	20.39	20.47	20.40	20.80	21.41	21.54	21.43	22.00
3GPP Rel 6	HSDPA Subtest-4	20.41	20.47	20.30	20.80	21.47	21.39	21.50	22.00
3GPP Rel 6	DC-HSDPA Subtest-1	20.81	20.76	20.81	21.30	21.62	21.81	21.88	22.50
3GPP Rel 6	DC-HSDPA Subtest-2	20.80	20.88	20.84	21.30	21.95	21.99	21.83	22.50
3GPP Rel 6	DC-HSDPA Subtest-3	20.40	20.26	20.24	20.80	21.29	21.40	21.34	22.00
3GPP Rel 6	DC-HSDPA Subtest-4	20.36	20.42	20.29	20.80	21.37	21.30	21.34	22.00
3GPP Rel 6	HSUPA Subtest-1	20.65	20.91	20.92	21.30	21.90	21.97	22.00	22.50
3GPP Rel 6	HSUPA Subtest-2	18.69	19.00	18.98	19.30	19.95	20.05	19.96	20.50
3GPP Rel 6	HSUPA Subtest-3	19.95	19.90	19.97	20.30	20.91	20.99	21.09	21.50
3GPP Rel 6	HSUPA Subtest-4	18.89	18.94	18.85	19.30	20.03	20.00	20.00	20.50
3GPP Rel 6	HSUPA Subtest-5	20.89	20.86	20.97	21.30	21.99	22.01	22.01	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.76	18.88	18.78	19.30	19.91	19.75	19.93	20.50

Band	WCDMA V_Ant 0				WCDMA V_Ant 1				
	TX Channel	4132	4182	4233	TX Channel	4132	4182	4233	
3GPP Rel 99	AMR 12.2Kbps	22.34	22.36	22.28	23.30	24.15	24.12	24.05	24.80
3GPP Rel 99	RMC 12.2Kbps	22.40	22.41	22.34	23.30	24.17	24.20	24.13	24.80
3GPP Rel 6	HSDPA Subtest-1	21.11	21.03	21.01	22.30	23.04	22.97	22.88	23.80
3GPP Rel 6	HSDPA Subtest-2	21.11	21.09	20.93	22.30	23.08	22.94	22.86	23.80
3GPP Rel 6	HSDPA Subtest-3	20.75	20.81	20.48	21.80	22.27	22.44	22.40	23.30
3GPP Rel 6	HSDPA Subtest-4	20.70	20.58	20.47	21.80	22.54	22.44	22.39	23.30
3GPP Rel 6	DC-HSDPA Subtest-1	21.10	21.02	20.94	22.30	22.89	22.84	22.74	23.80
3GPP Rel 6	DC-HSDPA Subtest-2	21.19	20.99	20.94	22.30	23.01	22.83	22.83	23.80
3GPP Rel 6	DC-HSDPA Subtest-3	20.56	20.47	20.42	21.80	22.26	22.26	22.29	23.30
3GPP Rel 6	DC-HSDPA Subtest-4	20.48	20.48	20.30	21.80	22.40	22.28	22.31	23.30
3GPP Rel 6	HSUPA Subtest-1	20.99	21.04	21.01	22.30	23.01	22.95	22.89	23.80
3GPP Rel 6	HSUPA Subtest-2	19.12	19.01	18.96	20.30	21.03	20.91	20.89	21.80
3GPP Rel 6	HSUPA Subtest-3	19.99	20.07	19.90	21.30	22.01	21.96	21.86	22.80
3GPP Rel 6	HSUPA Subtest-4	18.92	18.99	19.00	20.30	21.01	20.90	20.89	21.80
3GPP Rel 6	HSUPA Subtest-5	20.80	21.08	20.89	22.30	23.00	22.90	22.89	23.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.95	19.00	18.85	20.30	20.96	20.79	20.76	21.80



Band 2_Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dBm)	Turn-off (dBm)
Channel 1887.5									
Frequency (MHz)									
20	QPSK	1	0	21.02	21.21	21.09			
20	QPSK	1	49	21.15	21.24	21.13		22	
20	QPSK	1	98	21.10	21.19	21.08			
20	QPSK	50	0	21.12	21.10	21.05			
20	QPSK	50	24	21.14	21.20	21.12		22	
20	QPSK	50	49	21.08	21.12	21.07			
20	QPSK	100	0	21.05	21.18	21.08			
20	16QAM	1	0	21.06	21.14	21.10			
20	16QAM	1	49	21.09	21.04	21.09		22	
20	16QAM	1	99	21.16	21.23	21.00			
20	16QAM	50	0	21.08	21.19	21.01			
20	16QAM	50	24	21.01	21.11	20.98		22	
20	16QAM	50	49	21.11	21.14	21.07			
20	16QAM	100	0	21.02	21.18	21.04			
20	16QAM	100	50	21.09	21.13	20.99		22	
20	16QAM	100	99	21.04	21.17	20.99			
20	64QAM	1	0	21.12	21.11	21.04			
20	64QAM	1	49	21.01	21.03	20.98		22	
20	64QAM	50	24	20.93	21.16	20.88			
20	64QAM	50	49	21.00	21.06	20.84		22	
20	64QAM	100	0	20.90	21.04	20.86			
20	256QAM	1	0	19.17	19.15	19.20			
20	256QAM	1	49	19.15	19.00	19.14		20	
20	256QAM	50	24	19.02	19.11	19.08			
20	256QAM	50	49	19.06	19.09	19.08		20	
20	256QAM	100	0	19.14	19.11	19.06			
20	256QAM	100	50	19.09	19.11	19.06		20	
20	256QAM	100	99	19.03	19.08	19.05			
Channel 1887.5									
Frequency (MHz)									
16	QPSK	1	0	21.01	21.16	21.00			
16	QPSK	1	37	21.05	21.20	21.05		22	
16	QPSK	1	74	21.03	21.10	21.00			
16	QPSK	36	0	21.09	21.09	20.97			
16	QPSK	36	20	21.02	21.13	20.98		22	
16	QPSK	36	41	21.04	21.05	20.95			
16	QPSK	75	0	20.98	21.06	21.00			
16	16QAM	1	0	20.94	21.13	20.95			
16	16QAM	1	37	20.98	21.04	20.94		22	
16	16QAM	1	74	21.01	21.22	20.90			
16	16QAM	36	0	21.00	21.12	21.00			
16	16QAM	36	20	20.92	21.00	20.84		22	
16	16QAM	36	41	20.98	21.10	21.02			
16	16QAM	75	0	20.97	21.08	20.85			
16	16QAM	75	37	20.91	21.10	20.85		22	
16	16QAM	75	74	21.05	21.02	20.93			
16	16QAM	150	0	20.94	21.13	20.89			
16	16QAM	150	74	20.93	21.07	20.84		22	
16	16QAM	150	149	20.98	21.03	20.85			
16	64QAM	1	0	20.99	21.07	20.83			
16	64QAM	1	37	21.01	21.10	20.93		22	
16	64QAM	1	74	21.05	21.02	20.92			
16	64QAM	36	0	20.98	21.02	20.86			
16	64QAM	36	20	20.90	21.03	20.83		22	
16	64QAM	36	41	20.98	20.97	20.83			
16	64QAM	75	0	20.95	21.03	20.79			
16	64QAM	75	37	20.88	21.01	20.73		22	
16	64QAM	75	74	20.95	20.98	20.84			
16	256QAM	1	0	19.02	19.11	19.13			
16	256QAM	1	37	19.01	18.99	19.04		20	
16	256QAM	50	24	18.95	19.07	18.96			
16	256QAM	50	49	18.99	18.96	19.04		20	
16	256QAM	100	0	19.03	19.00	18.93			
Channel 1887.5									
Frequency (MHz)									
10	QPSK	1	0	20.89	21.08	21.00			
10	QPSK	1	25	21.04	21.10	21.07		22	
10	QPSK	1	49	21.01	21.03	21.00			
10	QPSK	25	0	21.01	21.02	20.95			
10	QPSK	25	12	21.03	21.06	21.07		22	
10	QPSK	25	25	21.00	21.05	20.97			
10	QPSK	50	0	21.00	21.15	21.07			
10	16QAM	1	0	21.01	21.03	21.05			
10	16QAM	1	25	20.97	21.05	20.98		22	
10	16QAM	1	49	20.98	21.13	20.97			
10	16QAM	25	0	21.06	21.12	20.93			
10	16QAM	25	12	20.93	21.17	20.89		22	
10	16QAM	25	25	20.96	21.13	20.92			
10	16QAM	50	0	20.99	21.02	20.89			
10	16QAM	50	25	20.92	21.09	20.83		22	
10	16QAM	50	49	20.91	21.04	20.87			
10	64QAM	1	0	20.95	21.03	20.77			
10	64QAM	1	25	20.81	20.94	20.87		22	
10	64QAM	25	12	20.90	21.01	20.87			
10	64QAM	25	25	20.95	20.96	20.77		22	
10	256QAM	1	0	19.13	19.10	19.10			
10	256QAM	1	25	19.06	18.97	19.13		20	
10	256QAM	50	24	18.94	19.00	18.96			
10	256QAM	50	49	18.99	18.97	19.03		20	
Channel 1887.5									
Frequency (MHz)									
5	QPSK	1	0	20.44	20.43	20.35			
5	QPSK	1	25	20.41	20.51	20.38		21.3	
5	QPSK	1	49	20.38	20.38	20.32			
5	QPSK	25	0	20.30	20.34	20.34			
5	QPSK	25	12	20.43	20.39	20.34		21.3	
5	QPSK	25	25	20.31	20.44	20.34			
5	QPSK	50	0	20.28	20.35	20.35			
5	16QAM	1	0	20.27	20.42	20.33			
5	16QAM	1	25	20.25	20.39	20.46		21.3	
5	16QAM	1	49	20.30	20.35	20.48			
5	16QAM	25	0	20.30	20.48	20.31			
5	16QAM	25	12	20.43	20.35	20.25		21.3	
5	16QAM	25	25	20.40	20.39	20.46			
5	16QAM	50	0	20.31	20.37	20.46			
5	16QAM	50	25	20.36	20.35	20.34		21.3	
5	16QAM	50	49	20.35	20.44	20.25			
5	64QAM	1	0	20.24	20.32	20.41			
5	64QAM	1	25	20.41	20.35	20.31		21.3	
5	64QAM	25	12	20.37	20.49	20.34			
5	64QAM	25	25	20.34	20.35	20.34		21.3	
5	256QAM	1	0	19.10	19.02	19.10			
5	256QAM	1	25	18.94	18.91	19.05		19.8	
5	256QAM	50	24	18.96	18.96	19.06			
5	256QAM	50	49	19.00	18.98	19.01		19.8	
5	256QAM	100	0	19.08	18.97	18.91			
Channel 1887.5									
Frequency (MHz)									
10	QPSK	1	0	20.34	20.37	20.38			
10	QPSK	1	25	20.41	20.51	20.38		21.3	
10	QPSK	1	49	20.38	20.38	20.32			
10	QPSK	25	0	20.30	20.34	20.34			
10	QPSK	25	12	20.43	20.39	20.34		21.3	
10	QPSK	25	25	20.31	20.44	20.34			
10	QPSK	50	0	20.28	20.35	20.35			
10	16QAM	1	0	20.27	20.42	20.33			
10	16QAM	1	25	20.25	20.39	20.46		21.3	
10	16QAM	1	49	20.30	20.35	20.48			
10	16QAM	25	0	20.30	20.48	20.31			
10	16QAM	25	12	20.43	20.35	20.25		21.3	
10	16QAM	25	25	20.40	20.39	20.46			
10	16QAM	50	0	20.31	20.37	20.46			
10	16QAM	50	25	20.36	20.35	20.34		21.3	
10	16QAM	50	49	20.35	20.44	20.25			
10	64QAM	1	0	20.24	20.32	20.41			
10	64QAM	1	25	20.41	20.35	20.31		21.3	
10	64QAM	25	12	20.37	20.49	20.34			
10	64QAM	25	25	20.34	20.35	20.34		21.3	
10	256QAM	1	0	19.10	19.02	19.10			
10	256QAM	1	25	18.94	18.91	19.05		19.8	
10	256QAM	50	24	18.96	18.96				





Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mide Ch / Freq.	Power High Ch / Freq.	Tune-up Int. (dBm)		
Channel 20650 20655 20660									
Frequency (MHz) 20650 20655 20660									
10	QPSK	1	0	23.45	23.61	23.81	23		
10	QPSK	1	25	23.68	23.70	23.65	23		
10	QPSK	1	49	23.83	23.84	23.87	23		
10	QPSK	25	0	22.84	22.91	22.87	23		
10	QPSK	25	12	22.95	22.90	22.92	24		
10	QPSK	25	25	22.82	22.82	22.82	24		
10	QPSK	50	0	22.81	22.94	22.78	23		
10	16QAM	1	0	23.13	23.08	23.13	24		
10	16QAM	1	25	23.07	23.02	23.02	24		
10	16QAM	1	49	23.23	23.12	23.00	23		
10	16QAM	25	0	22.51	21.83	21.85	21		
10	16QAM	25	12	22.55	21.90	21.82	21		
10	16QAM	25	25	21.98	21.79	21.82	23		
10	16QAM	50	0	22.10	21.78	21.82	21		
10	16QAM	50	1	22.10	21.78	21.82	21		
10	16QAM	1	25	21.98	22.02	22.12	23		
10	16QAM	1	49	22.26	22.12	21.89	21		
10	16QAM	25	0	20.97	20.90	20.93	21		
10	16QAM	25	12	21.05	20.98	20.90	21		
10	16QAM	25	25	20.93	20.87	20.82	21		
10	16QAM	50	0	20.85	20.87	20.86	21		
10	256QAM	1	0	18.75	18.87	18.72	19		
10	256QAM	1	25	18.72	18.89	18.79	19		
10	256QAM	1	49	18.68	18.74	18.71	19		
10	256QAM	25	0	18.68	18.74	18.71	19		
10	256QAM	25	12	18.74	18.88	18.87	19		
10	256QAM	25	25	18.74	18.88	18.87	19		
10	256QAM	50	0	18.82	18.74	18.74	19		
Channel 20675 20680 20685									
Frequency (MHz) 20675 20680 20685									
5	QPSK	1	0	23.39	23.59	23.49	23		
5	QPSK	1	12	23.60	23.87	23.52	23		
5	QPSK	1	24	23.11	23.25	23.23	23		
5	QPSK	12	0	22.72	22.94	22.85	24		
5	QPSK	12	7	22.93	22.91	22.84	24		
5	QPSK	12	14	22.79	22.77	22.76	24		
5	QPSK	25	0	22.80	22.82	22.87	23		
5	16QAM	1	0	23.07	23.02	23.06	23		
5	16QAM	1	12	23.17	23.02	23.02	23		
5	16QAM	1	24	23.11	23.09	22.98	23		
5	16QAM	12	0	21.65	21.79	21.70	21		
5	16QAM	12	7	21.68	21.71	21.75	21		
5	16QAM	12	13	21.84	21.71	21.77	21		
5	16QAM	25	0	21.82	21.73	21.81	21		
5	16QAM	25	1	21.86	21.82	21.82	21		
5	16QAM	50	0	21.87	21.92	22.03	23		
5	16QAM	50	1	22.12	22.07	22.05	23		
5	16QAM	12	7	20.98	20.85	20.82	22		
5	16QAM	12	13	20.91	20.98	20.75	22		
5	256QAM	1	0	18.72	18.89	18.82	20		
5	256QAM	1	12	18.85	18.88	18.86	20		
5	256QAM	1	24	18.85	18.80	18.82	20		
5	256QAM	12	0	18.85	18.72	18.68	20		
5	256QAM	12	7	18.77	18.85	18.87	20		
5	256QAM	12	13	18.73	18.69	18.65	20		
5	256QAM	25	0	18.49	18.80	18.89	20		
Channel 20695 20700 20705									
Frequency (MHz) 20695 20700 20705									
3	QPSK	1	0	23.44	23.47	23.48	23		
3	QPSK	1	8	23.60	23.82	23.81	23		
3	QPSK	1	14	23.44	23.33	23.31	23		
3	QPSK	8	0	22.76	22.77	22.76	24		
3	QPSK	8	4	22.96	22.94	22.91	24		
3	QPSK	8	7	22.78	22.78	22.78	24		
3	QPSK	15	0	22.85	22.83	22.89	23		
3	16QAM	1	0	23.10	23.06	23.11	23		
3	16QAM	1	14	23.14	23.02	23.02	23		
3	16QAM	1	14	23.10	23.09	22.90	23		
3	16QAM	8	0	22.00	21.91	21.82	21		
3	16QAM	8	4	21.98	21.95	21.75	21		
3	16QAM	8	7	21.85	21.88	21.79	21		
3	16QAM	15	0	21.91	21.77	21.87	21		
3	16QAM	1	0	22.01	22.12	22.04	23		
3	16QAM	1	8	21.87	21.95	22.01	23		
3	16QAM	1	14	22.20	21.99	21.88	23		
3	16QAM	8	0	20.90	20.85	20.77	21		
3	16QAM	8	4	20.91	20.84	20.83	21		
3	16QAM	15	0	20.75	20.86	20.83	21		
3	256QAM	1	0	18.61	18.85	18.86	20		
3	256QAM	1	8	18.71	18.82	18.78	20		
3	256QAM	1	14	18.63	18.86	18.74	20		
3	256QAM	8	0	18.53	18.72	18.80	20		
3	256QAM	8	4	18.73	18.83	18.84	20		
3	256QAM	8	7	18.71	18.80	18.75	20		
3	256QAM	15	0	18.59	18.84	18.81	20		
Channel 20715 20720 20725									
Frequency (MHz) 20715 20720 20725									
1.4	QPSK	1	0	23.48	23.56	23.50	23		
1.4	QPSK	1	3	23.56	23.80	23.82	23		
1.4	QPSK	1	5	23.38	23.55	23.45	23		
1.4	QPSK	3	0	23.43	23.42	23.45	24		
1.4	QPSK	3	1	23.45	23.56	23.56	24		
1.4	QPSK	3	3	23.44	23.54	23.41	24		
1.4	QPSK	6	0	22.81	22.85	22.77	24		
1.4	16QAM	1	0	22.88	22.99	22.98	24		
1.4	16QAM	1	3	23.07	23.00	22.99	24		
1.4	16QAM	1	5	23.15	23.04	22.94	24		
1.4	16QAM	3	0	22.84	22.86	22.96	23		
1.4	16QAM	3	1	23.05	22.94	22.90	23		
1.4	16QAM	3	3	23.08	23.03	22.89	23		
1.4	16QAM	6	0	21.82	21.89	21.78	21		
1.4	16QAM	6	1	22.05	22.10	22.02	21		
1.4	16QAM	1	3	21.89	21.95	22.05	23		
1.4	16QAM	1	5	22.12	22.01	21.87	23		
1.4	16QAM	3	0	21.97	22.08	21.98	21		
1.4	16QAM	3	1	21.87	21.81	21.70	21		
1.4	16QAM	6	0	20.80	20.83	20.80	21		
1.4	16QAM	6	1	20.80	20.83	20.80	21		
1.4	256QAM	1	0	18.64	18.81	18.70	20		
1.4	256QAM	1	3	18.67	18.87	18.72	20		
1.4	256QAM	1	5	18.66	18.83	18.74	20		
1.4	256QAM	3	0	18.59	18.79	18.83	20		
1.4	256QAM	3	1	18.60	18.71	18.71	20		
1.4	256QAM	3	3	18.61	18.80	18.83	20		
1.4	256QAM	6	0	18.50	18.70	18.83	20		

Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mide Ch / Freq.	Power High Ch / Freq.	Tune-up Int. (dBm)		
Channel 20650 20655 20660									
Frequency (MHz) 20650 20655 20660									
10	QPSK	1	0	22.40	22.36	22.29	23		
10	QPSK	1	25	22.43	22.48	22.40	23		
10	QPSK	1	49	22.35	22.37	22.27	23		
10	QPSK	25	0	22.84	22.41	22.28	23		
10	QPSK	25	12	22.50	22.44	22.31	23		
10	QPSK	25	25	22.32	22.37	22.28	23		
10	QPSK	50	0	22.38	22.42	22.33	23		
10	16QAM	1	0	22.50	22.25	22.30	23		
10	16QAM	1	25	22.37	22.27	22.28	23		
10	16QAM	1	49	22.31	22.44	22.25	23		
10	16QAM	25	0	21.91	21.86	21.86	21		
10	16QAM	25	12	22.03	21.91	21.91	21		
10	16QAM	25	25	22.00	21.88	21.89	22		
10	16QAM	50	0	21.92	21.86	21.84	21		
10	16QAM	50	1	22.01	21.97	21.91	21		
10	16QAM	1	25	21.88	21.94	21.81	22		
10	16QAM	1	49	21.98	21.86	21.82	21		
10	16QAM	25	0	20.91	20.91	21.00	21		
10	16QAM	25	12	21.01	20.90				



Band 7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mide Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)		
Channel 1									
				2060	2100	2160			
Frequency (MHz)									
20	QPSK	1	0	18.80	19.07	19.93			
20	QPSK	1	49	19.03	19.08	19.00	19.3		
20	QPSK	1	99	18.80	19.03	19.93			
20	QPSK	50	0	19.00	19.59	19.93			
20	QPSK	50	24	19.01	19.05	19.00	19.3		
20	QPSK	50	49	18.82	19.03	19.93			
20	QPSK	100	0	18.99	19.04	19.96			
20	16QAM	1	0	18.97	18.98	18.97			
20	16QAM	1	49	18.97	19.03	18.99	19.3		
20	16QAM	1	99	18.87	18.98	18.96			
20	16QAM	50	0	18.89	18.94	18.94			
20	16QAM	50	24	18.91	19.01	18.98	19.3		
20	16QAM	50	49	18.82	18.94	18.90			
20	16QAM	100	0	18.89	18.96	18.93			
20	16QAM	100	50	18.92	18.94	18.90	19.3		
20	64QAM	1	49	19.21	19.41	19.81	19.3		
20	64QAM	1	99	18.89	19.04	18.85			
20	64QAM	50	0	18.91	19.04	18.84			
20	64QAM	50	24	18.87	18.87	18.83	19.3		
20	64QAM	50	49	18.85	19.03	18.71			
20	256QAM	1	0	18.93	19.25	19.21			
20	256QAM	1	49	18.92	18.11	18.13	18.8		
20	256QAM	1	99	18.93	18.93	18.93			
20	256QAM	50	0	18.91	18.10	18.07			
20	256QAM	50	24	18.88	18.11	18.11	18.8		
20	256QAM	50	49	18.92	18.10	18.10			
20	256QAM	100	0	18.91	18.10	18.10			
Channel 2									
				2075	2100	2175			
Frequency (MHz)									
16	QPSK	1	0	18.83	19.00	19.82			
16	QPSK	1	37	18.88	19.02	18.94	19.3		
16	QPSK	1	74	18.87	19.02	18.86			
16	QPSK	36	0	18.95	18.96	18.89			
16	QPSK	36	20	18.91	19.00	18.87	19.3		
16	QPSK	36	36	18.81	18.91	18.87			
16	QPSK	75	0	18.87	18.94	18.88			
16	16QAM	1	0	18.92	18.93	18.93			
16	16QAM	1	37	18.93	19.01	18.91	19.3		
16	16QAM	1	74	18.95	18.96	18.85			
16	16QAM	36	0	18.85	18.81	18.80			
16	16QAM	36	20	18.98	19.02	18.86	19.3		
16	16QAM	36	36	18.81	18.86	18.86			
16	16QAM	75	0	18.83	18.92	18.83			
16	16QAM	75	39	18.89	18.91	18.81	19.3		
16	64QAM	1	37	19.93	19.93	19.84	19.3		
16	64QAM	1	74	18.92	18.90	18.72			
16	64QAM	36	0	19.92	19.92	19.80			
16	64QAM	36	20	18.94	18.99	18.94	19.3		
16	64QAM	36	36	18.97	18.92	18.91			
16	64QAM	75	0	18.97	18.88	18.84			
16	256QAM	1	0	18.21	18.13	18.19			
16	256QAM	1	37	18.91	18.01	18.06	18.8		
16	256QAM	1	74	18.91	18.04	18.06			
16	256QAM	36	0	18.25	18.04	18.04			
16	256QAM	36	20	18.93	18.14	18.14	18.8		
16	256QAM	36	36	18.23	18.14	18.14			
16	256QAM	75	0	18.21	18.06	18.03			
Channel 3									
				2080	2100	2140			
Frequency (MHz)									
10	QPSK	1	0	18.80	19.03	19.82			
10	QPSK	1	25	18.97	18.95	18.87	19.3		
10	QPSK	1	50	18.80	19.03	19.82			
10	QPSK	25	0	18.99	18.99	18.90			
10	QPSK	25	12	18.92	19.02	18.81	19.3		
10	QPSK	50	0	18.84	18.90	18.91			
10	16QAM	1	0	18.87	18.88	18.83			
10	16QAM	1	25	18.97	18.99	18.86	19.3		
10	16QAM	1	50	18.80	18.93	18.80			
10	16QAM	25	0	18.85	18.89	18.86			
10	16QAM	25	12	18.94	18.96	18.74	19.3		
10	16QAM	50	0	18.77	18.80	18.75			
10	16QAM	50	25	18.93	18.91	18.86	19.3		
10	64QAM	1	0	18.88	18.93	18.86			
10	64QAM	1	25	18.86	18.96	18.84			
10	64QAM	1	50	18.83	18.96	18.70	19.3		
10	64QAM	25	0	18.93	18.92	18.88			
10	64QAM	25	12	18.91	18.98	18.98	19.3		
10	64QAM	50	0	18.75	18.92	18.82			
10	256QAM	1	0	18.25	18.13	18.09			
10	256QAM	1	25	18.90	17.98	18.07	18.8		
10	256QAM	1	50	18.90	18.06	18.09			
10	256QAM	25	0	18.20	17.96	18.06			
10	256QAM	25	12	18.93	18.03	18.05	18.8		
10	256QAM	50	0	18.28	18.16	18.03			
Channel 4									
				2095	2100	2145			
Frequency (MHz)									
5	QPSK	1	0	18.77	19.03	19.83			
5	QPSK	1	12	18.90	18.91	18.93	19.3		
5	QPSK	1	24	18.88	18.87	18.74			
5	QPSK	12	0	18.81	18.84	18.88			
5	QPSK	12	7	18.90	19.04	18.84	19.3		
5	QPSK	12	14	18.88	18.90	18.77			
5	QPSK	25	0	18.84	18.90	18.82			
5	16QAM	1	0	18.95	18.96	18.89			
5	16QAM	1	12	18.93	18.99	18.86	19.3		
5	16QAM	1	24	18.85	18.92	18.83			
5	16QAM	12	0	18.78	18.93	18.89			
5	16QAM	12	7	18.81	18.98	18.77	19.3		
5	16QAM	12	14	18.90	18.90	18.84			
5	16QAM	25	0	18.88	18.90	18.88			
5	16QAM	25	12	18.96	18.96	18.86	19.3		
5	64QAM	1	0	18.91	18.95	18.90			
5	64QAM	1	12	18.96	18.87	18.80	19.3		
5	64QAM	1	24	18.74	18.93	18.71			
5	64QAM	12	0	18.90	18.97	18.91			
5	64QAM	12	7	18.96	18.76	18.91	19.3		
5	64QAM	12	14	18.75	18.92	18.82			
5	256QAM	1	0	18.20	18.19	18.06			
5	256QAM	1	12	18.90	18.07	18.07	18.8		
5	256QAM	1	24	18.21	18.02	18.07			
5	256QAM	12	0	18.18	18.06	18.01			
5	256QAM	12	7	18.28	18.00	18.04	18.8		
5	256QAM	12	14	18.28	18.08	18.14			
5	256QAM	25	0	18.30	18.09	18.08			

Band 7_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mide Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)		
Channel 1									
				2090	2100	2160			
Frequency (MHz)									
20	QPSK	1	0	21.87	21.88	21.92			
20	QPSK	1	49	22.05	22.10	22.02	22.3		
20	QPSK	50	0	21.82	22.00	21.84			
20	QPSK	50	24	21.91	22.00	21.88			
20	QPSK	50	49	21.96	22.03	21.97	22.3		
20	16QAM	1	0	21.86	22.09	21.88			
20	16QAM	1	49	21.90	22.08	21.93	22.3		
20	16QAM	1	99	21.88	21.89	21.88			
20	16QAM	50	0	21.42	21.60	21.58			
20	16QAM	50	24	21.43	21.58	21.49	21.8		
20	16QAM	50	49	21.39	21.57	21.57			
20	16QAM	100	0	21.33	21.51	21.51			
20	16QAM	100	50	21.30	21.46	21.56	21.8		
20	64QAM	1	49	21.21	21.45	21.57	21.8		
20	64QAM	1	99	21.42	21.45	21.50			
20	64QAM	50	0	20.90	20.97	20.82			
20	64QAM	50	24	20.30	20.59	20.53	20.8		
20	64QAM	50	49	20.41	20.59	20.59			
20	256QAM	1	0	18.20	18.40	18.32			
20	256QAM	1	49	18.21	18.35	18.22	18.8		
20	256QAM	1	99	18.23	18.26	18.22			
20	256QAM	50	0	18.20	18.39	18.20			
20	256QAM	50	2						



Band 13_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 23250									
Frequency (MHz)									
10	QPSK	1	0	23.34			24.3		
10	QPSK	1	25	23.45					
10	QPSK	1	49	23.41					
10	QPSK	25	0	22.43			23.3		
10	QPSK	25	12	22.55					
10	QPSK	25	25	22.55					
10	QPSK	50	0	22.46			23.3		
10	QPSK	50	12	22.76					
10	QPSK	50	25	22.65					
10	16QAM	1	0	21.82			22.3		
10	16QAM	1	49	21.82					
10	16QAM	25	0	21.50					
10	16QAM	25	12	21.54			22.3		
10	16QAM	25	25	21.50					
10	16QAM	50	0	21.42					
10	16QAM	50	12	21.29			22.3		
10	16QAM	50	25	21.50					
10	16QAM	1	49	21.41					
10	16QAM	25	0	20.93			21.3		
10	16QAM	25	12	20.57					
10	16QAM	25	25	20.80					
10	256QAM	1	0	18.40			19.3		
10	256QAM	1	49	18.40					
10	256QAM	25	0	18.31					
10	256QAM	25	12	18.39			19.3		
10	256QAM	25	25	18.34					
10	256QAM	50	0	18.29					
Channel 23250									
Frequency (MHz)									
5	QPSK	1	0	23.23	23.26	23.30	24.3		
5	QPSK	1	12	23.42	23.31	23.40			
5	QPSK	1	24	23.00	23.32	23.35			
5	QPSK	12	0	22.30	22.33	22.38	23.3		
5	QPSK	12	7	22.55	22.54	22.50			
5	QPSK	12	14	22.60	22.53	22.40			
5	QPSK	25	0	22.42	22.43	22.34	23.3		
5	16QAM	1	0	22.65	22.65	22.61			
5	16QAM	1	14	22.67	22.53	22.58			
5	16QAM	12	0	21.38	21.47	21.42	22.3		
5	16QAM	12	7	21.68	21.51	21.44			
5	16QAM	12	13	21.59	21.53	21.45			
5	16QAM	25	0	21.28	21.31	21.28	22.3		
5	16QAM	25	12	21.29	21.26	21.22			
5	16QAM	25	25	20.48	20.50	20.43			
5	16QAM	12	7	20.52	20.53	20.56	21.3		
5	16QAM	12	13	20.50	20.48	20.47			
5	16QAM	25	0	20.41	20.44	20.40			
5	256QAM	1	0	18.28	18.26	18.30	19.3		
5	256QAM	1	12	18.24	18.41	18.29			
5	256QAM	24	18.32	18.20	18.20				
5	256QAM	12	0	18.27	18.20	18.20	19.3		
5	256QAM	12	7	18.20	18.31	18.30			
5	256QAM	12	13	18.23	18.30	18.30			
5	256QAM	25	0	18.22	18.20	18.18			

Band 13_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 23250									
Frequency (MHz)									
10	QPSK	1	0	22.82			24.3		
10	QPSK	1	25	22.55					
10	QPSK	1	49	22.11					
10	QPSK	25	0	22.50			23.3		
10	QPSK	25	12	22.50					
10	QPSK	25	25	22.50					
10	QPSK	50	0	22.14			23.3		
10	16QAM	1	0	21.67					
10	16QAM	1	25	22.11					
10	16QAM	1	49	22.06			22.3		
10	16QAM	25	0	21.50					
10	16QAM	25	12	21.07					
10	16QAM	25	25	21.30			22.3		
10	16QAM	50	0	21.20					
10	16QAM	50	12	21.20					
10	16QAM	1	25	21.39			22.3		
10	16QAM	1	49	21.38					
10	16QAM	25	0	20.97					
10	16QAM	25	12	20.11			21.3		
10	16QAM	25	25	20.42					
10	16QAM	50	0	20.09					
10	256QAM	1	0	18.90			19.3		
10	256QAM	1	25	18.95					
10	256QAM	1	49	18.92					
10	256QAM	25	0	17.99			19.3		
10	256QAM	25	12	17.85					
10	256QAM	25	25	17.84					
10	256QAM	50	0	17.88			19.3		
10	256QAM	50	12	17.88					
10	256QAM	50	25	17.88					
Channel 23250									
Frequency (MHz)									
5	QPSK	1	0	22.88	22.79	22.78	24.3		
5	QPSK	1	12	23.17	23.10	23.18			
5	QPSK	1	24	23.04	22.96	23.08			
5	QPSK	12	0	22.00	22.07	22.06	23.3		
5	QPSK	12	7	22.27	22.19	22.19			
5	QPSK	12	14	22.11	22.18	22.05			
5	QPSK	25	0	22.08	22.07	22.07	23.3		
5	16QAM	1	0	21.74	21.79	21.84			
5	16QAM	1	12	22.10	21.98	22.05			
5	16QAM	1	24	21.97	21.93	21.92	22.3		
5	16QAM	12	0	21.60	21.62	21.69			
5	16QAM	12	7	21.62	21.64	21.64			
5	16QAM	12	13	21.18	21.19	21.24	22.3		
5	16QAM	25	0	21.13	21.14	21.08			
5	16QAM	25	12	21.13	21.10	21.07			
5	16QAM	1	12	21.20	21.32	21.28	22.3		
5	16QAM	1	24	21.36	21.20	21.30			
5	16QAM	12	0	19.99	20.04	19.92			
5	16QAM	12	7	20.00	20.09	20.06	21.3		
5	16QAM	12	13	20.15	20.09	20.22			
5	16QAM	25	0	19.99	19.95	19.98			
5	256QAM	1	0	17.89	17.88	17.87	19.3		
5	256QAM	1	12	17.95	17.88	17.90			
5	256QAM	24	17.91	17.80	17.90				
5	256QAM	12	0	17.90	17.81	17.86	19.3		
5	256QAM	12	7	17.94	17.83	17.80			
5	256QAM	12	13	17.87	17.87	17.88			
5	256QAM	25	0	17.78	17.76	17.78			

Band 17_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 23760									
Frequency (MHz)									
10	QPSK	1	0	23.43	23.78	23.45	25		
10	QPSK	1	25	23.75	23.68	23.71			
10	QPSK	1	49	23.65	23.66	23.68			
10	QPSK	25	0	22.60	22.65	22.64	24		
10	QPSK	25	12	22.70	22.78	22.74			
10	QPSK	25	25	22.70	22.71	22.67			
10	QPSK	50	0	22.73	22.75	22.71	24		
10	16QAM	1	0	22.87	22.73	22.88			
10	16QAM	1	25	22.88	22.83	22.78			
10	16QAM	1	49	22.99	22.78	23.08	23		
10	16QAM	25	0	21.89	21.66	21.72			
10	16QAM	25	12	21.79	21.67	21.88			
10	16QAM	25	25	21.79	21.67	21.88	23		
10	16QAM	50	0	21.70	21.66	21.64			
10	16QAM	50	12	21.79	21.81	21.73			
10	16QAM	1	25	21.51	21.50	21.55	23		
10	16QAM	1	49	21.83	21.78	22.01			
10	16QAM	25	0	20.81	20.79	20.83			
10	16QAM	25	12	20.77	20.52	20.82	22		
10	16QAM	25	25	20.76	20.71	20.69			
10	16QAM	50	0	20.73	20.66	20.57			
10	256QAM	1	0	18.45	18.50	18.47	20		
10	256QAM	1	25	18.46	18.56	18.45			
10	256QAM	1	49	18.55	18.56	18.51			
10	256QAM	25	0	18.50	18.51	18.49	20		
10	256QAM	25	12	18.54	18.48	18.48			
10	256QAM	25	25	18.54	18.50	18.50			
10	256QAM	50	0	18.49	18.48	18.51	20		
10	256QAM	50	12	18.49	18.48	18.51			
10	256QAM	50	25	18.49	18.48	18.51			
Channel 23760									
Frequency (MHz)									
5	QPSK	1	0	23.32	23.75	23.44	25		
5	QPSK	1	12	23.71	23.72	23.69			
5	QPSK	1	24	23.60	23.61	23.51			
5	QPSK	12	0	22.55					







Band 26(FCC)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel: 26760, 26800, 26900									
Frequency (MHz)									
15	QPSK	1	0	23.79	23.86	23.71	25		
15	QPSK	1	37	23.82	23.90	23.73			
15	QPSK	74	4	23.88	23.90	23.86	24		
15	QPSK	36	0	22.71	22.58	22.65			
15	QPSK	36	20	22.68	22.52	22.75	24		
15	QPSK	39	29	22.84	22.82	22.79			
15	QPSK	75	0	22.80	22.78	22.77	24		
15	QPSK	1	0	23.14	23.05	22.88			
15	16QAM	1	0	23.15	23.10	23.03	24		
15	16QAM	1	74	23.00	22.80	23.08			
15	16QAM	36	0	21.75	21.69	21.62	23		
15	16QAM	39	29	21.88	21.87	21.72			
15	16QAM	75	0	21.88	21.88	21.70	23		
15	16QAM	1	0	21.09	21.05	20.98			
15	64QAM	1	37	21.30	21.31	21.03	23		
15	64QAM	1	74	21.01	21.20	21.04			
15	64QAM	36	0	20.00	20.07	20.08	22		
15	64QAM	36	20	20.79	20.85	20.81			
15	64QAM	39	29	20.84	20.77	20.82	22		
15	64QAM	39	0	20.84	20.76	20.76			
15	256QAM	1	0	18.53	18.53	18.54	20		
15	256QAM	1	37	18.51	18.56	18.58			
15	256QAM	74	4	18.47	18.41	18.40	20		
15	256QAM	36	0	18.60	18.60	18.53			
15	256QAM	36	20	18.59	18.53	18.58	20		
15	256QAM	39	29	18.57	18.57	18.50			
15	256QAM	75	0	18.47	18.46	18.41	20		
15	256QAM	1	0	18.44	18.44	18.42			
Channel: 26760, 26800, 26900									
Frequency (MHz)									
10	QPSK	1	0	23.70	23.60	23.67	25		
10	QPSK	1	25	23.63	23.79	23.66			
10	QPSK	35	0	22.80	22.59	22.58	24		
10	QPSK	25	12	22.81	22.77	22.73			
10	QPSK	50	0	22.72	22.64	22.61	24		
10	QPSK	50	0	22.69	22.73	22.67			
10	16QAM	1	0	23.03	23.04	23.03	24		
10	16QAM	1	49	22.87	22.87	23.00			
10	16QAM	25	0	21.61	21.68	21.60	23		
10	16QAM	25	25	21.62	21.75	21.76			
10	16QAM	50	0	21.61	21.54	21.57	23		
10	16QAM	50	0	21.68	21.86	21.89			
10	64QAM	1	25	21.77	21.89	21.82	23		
10	64QAM	1	49	21.84	21.88	21.86			
10	64QAM	1	0	20.47	20.53	20.46	22		
10	64QAM	25	12	20.74	20.72	20.80			
10	64QAM	25	25	20.62	20.72	20.78	22		
10	64QAM	39	0	20.78	20.84	20.81			
10	256QAM	1	0	18.46	18.42	18.52	20		
10	256QAM	1	49	18.42	18.48	18.41			
10	256QAM	25	0	18.52	18.53	18.46	20		
10	256QAM	25	25	18.55	18.59	18.57			
10	256QAM	50	0	18.44	18.54	18.42	20		
10	256QAM	1	0	18.44	18.54	18.42			
Channel: 26760, 26800, 26900									
Frequency (MHz)									
5	QPSK	1	0	23.66	23.61	23.59	25		
5	QPSK	1	12	23.78	23.79	23.77			
5	QPSK	24	0	22.78	22.58	22.61	24		
5	QPSK	12	0	22.66	22.57	22.63			
5	QPSK	12	7	22.75	22.68	22.66	24		
5	QPSK	15	0	22.63	22.65	22.68			
5	QPSK	25	0	22.75	22.66	22.66	24		
5	QPSK	25	0	22.75	22.66	22.66			
5	16QAM	1	0	23.08	23.04	22.87	24		
5	16QAM	1	12	22.96	22.99	22.90			
5	16QAM	1	24	22.93	22.87	22.99	23		
5	16QAM	12	0	21.74	21.68	21.58			
5	16QAM	12	7	21.77	21.72	21.65	23		
5	16QAM	12	13	21.81	21.84	21.70			
5	16QAM	25	0	21.69	21.56	21.66	23		
5	16QAM	25	0	21.68	21.73	21.68			
5	64QAM	1	12	21.83	21.86	21.81	23		
5	64QAM	1	24	21.84	21.86	21.81			
5	64QAM	1	0	20.45	20.56	20.61	20		
5	64QAM	12	7	20.74	20.76	20.78			
5	64QAM	12	13	20.78	20.72	20.70	20		
5	64QAM	25	0	20.74	20.74	20.83			
5	256QAM	1	0	18.44	18.48	18.43	20		
5	256QAM	1	12	18.47	18.51	18.49			
5	256QAM	24	0	18.39	18.51	18.45	20		
5	256QAM	12	0	18.48	18.48	18.41			
5	256QAM	12	7	18.51	18.52	18.51	20		
5	256QAM	12	13	18.52	18.53	18.51			
5	256QAM	25	0	18.34	18.59	18.44	20		
5	256QAM	1	0	18.34	18.59	18.44			
Channel: 26760, 26800, 26900									
Frequency (MHz)									
3	QPSK	1	0	23.66	23.64	23.62	25		
3	QPSK	1	8	23.67	23.69	23.74			
3	QPSK	14	0	23.14	23.16	23.03	24		
3	QPSK	8	0	22.59	22.52	22.51			
3	QPSK	8	4	22.79	22.72	22.71	24		
3	QPSK	7	0	22.78	22.65	22.67			
3	QPSK	15	0	22.71	22.62	22.69	24		
3	16QAM	1	0	23.01	22.92	22.84			
3	16QAM	8	0	23.14	22.95	22.88	24		
3	16QAM	1	14	22.91	22.75	23.06			
3	16QAM	8	0	21.71	21.65	21.59	23		
3	16QAM	8	4	21.84	21.78	21.69			
3	16QAM	8	7	21.72	21.65	21.75	23		
3	16QAM	15	0	21.65	21.57	21.68			
3	64QAM	1	0	21.67	21.74	21.69	23		
3	64QAM	1	8	21.81	21.81	21.88			
3	64QAM	1	14	21.79	21.59	22.02	22		
3	64QAM	8	0	20.48	20.60	20.65			
3	64QAM	8	4	20.72	20.69	20.67	22		
3	64QAM	8	7	20.83	20.86	20.87			
3	256QAM	1	0	18.44	18.38	18.46	20		
3	256QAM	1	8	18.46	18.49	18.42			
3	256QAM	1	14	18.37	18.47	18.41	20		
3	256QAM	8	0	18.58	18.56	18.39			
3	256QAM	8	4	18.54	18.49	18.59	20		
3	256QAM	8	7	18.44	18.47	18.47			
3	256QAM	15	0	18.42	18.63	18.46	20		
3	256QAM	1	0	18.38	18.51	18.46			

Band 26(FCC)_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel: 26760, 26800, 26900									
Frequency (MHz)									
15	QPSK	1	0	23.84	23.80	23.61	24.8		
15	QPSK	1	37	23.88	23.85	23.70			
15	QPSK	74	4	23.88	23.82	23.80	24.8		
15	QPSK	36	0	22.71	22.69	22.60			
15	QPSK	36	20	22.69	22.54	22.75	23.8		
15	QPSK	39	29	22.74	22.74	22.75			
15	QPSK	75	0	22.83	22.74	22.68	23.8		
15	QPSK	1	0	22.79	22.70	22.84			
15	16QAM	1	0	22.87	22.85	22.80	23.8		
15	16QAM	1	74	22.69	22.84	22.56			
15	16QAM	36	0	21.66	21.68	21.71	22.8		
15	16QAM	36	20	21.67	21.78	21.78			
15	16QAM	36	36	21.62	21.75	21.76	22.8		
15	16QAM	75	0	21.68	21.68	21.84			
15	16QAM	1	0	21.00	21.06	21.03	22.8		
15	16QAM	1	37	21.30	21.27	21.77			
15	64QAM	1	74	21.78	21.78	21.88	22.8		
15	64QAM	36	0	20.75	20.87	20.83			
15	64QAM	36	20	20.87	20.71	20.89	21.8		
15	64QAM	36	36	20.86	20.70	20.76			
15	64QAM	39	29	20.80	20.82	20.80	21.8		
15	256QAM	1	0	18.50	18.49	18.50			
15	256QAM	1	37	18.48	18.52	18.53	19.8		
15	256QAM	74	4	18.51	18.46	18.46			
15	256QAM	36	0	18.50	18.54	18.56	19.8		



Band 30_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 27170									
Frequency (MHz)									
10	QPSK	1	0	19.44	19.44	19.44	20.8		
10	QPSK	1	25	19.35	19.35	19.35			
10	QPSK	1	49	19.44	19.44	19.44			
10	QPSK	25	0	19.40	19.40	19.40	20.8		
10	QPSK	25	12	19.33	19.33	19.33			
10	QPSK	25	25	19.40	19.40	19.40			
10	QPSK	50	0	19.45	19.45	19.45	20.8		
10	QPSK	50	1	19.46	19.46	19.46			
10	QPSK	50	2	19.44	19.44	19.44			
10	16QAM	1	0	19.44	19.44	19.44	23.3		
10	16QAM	1	49	19.49	19.49	19.49			
10	16QAM	1	98	19.51	19.51	19.51			
10	16QAM	25	0	19.44	19.44	19.44	23.3		
10	16QAM	25	12	19.45	19.45	19.45			
10	16QAM	25	25	19.46	19.46	19.46			
10	16QAM	50	0	19.44	19.44	19.44	23.3		
10	16QAM	50	1	19.45	19.45	19.45			
10	16QAM	50	2	19.46	19.46	19.46			
10	16QAM	1	25	19.51	19.51	19.51	23.3		
10	16QAM	1	49	19.48	19.48	19.48			
10	16QAM	1	73	19.48	19.48	19.48			
10	16QAM	25	12	19.49	19.49	19.49	23.3		
10	16QAM	25	25	19.46	19.46	19.46			
10	16QAM	25	38	19.44	19.44	19.44			
10	256QAM	1	0	19.30	19.30	19.30	19.3		
10	256QAM	1	25	19.32	19.32	19.32			
10	256QAM	1	49	19.34	19.34	19.34			
10	256QAM	25	0	19.30	19.30	19.30	19.3		
10	256QAM	25	12	19.31	19.31	19.31			
10	256QAM	25	25	19.32	19.32	19.32			
10	256QAM	50	0	19.30	19.30	19.30	19.3		
10	256QAM	50	1	19.31	19.31	19.31			
10	256QAM	50	2	19.32	19.32	19.32			
Channel 27175									
Frequency (MHz)									
5	QPSK	1	0	19.42	19.36	19.30	20.8		
5	QPSK	1	12	19.42	19.30	19.33			
5	QPSK	1	24	19.46	19.44	19.38			
5	QPSK	12	0	19.28	19.37	19.38	20.8		
5	QPSK	12	7	19.50	19.38	19.40			
5	QPSK	12	13	19.48	19.49	19.41			
5	QPSK	25	0	19.32	19.44	19.42	20.8		
5	16QAM	1	0	19.44	19.34	19.38			
5	16QAM	1	14	19.31	19.42	19.32			
5	16QAM	12	0	19.38	19.37	19.34	20.8		
5	16QAM	12	7	19.38	19.37	19.34			
5	16QAM	12	13	19.42	19.34	19.47			
5	16QAM	25	0	19.32	19.37	19.45	20.8		
5	16QAM	25	1	19.43	19.44	19.45			
5	16QAM	25	12	19.49	19.44	19.43			
5	16QAM	1	24	19.36	19.44	19.43	20.8		
5	16QAM	1	49	19.45	19.44	19.43			
5	16QAM	1	73	19.39	19.34	19.41			
5	16QAM	12	7	19.39	19.34	19.41	20.8		
5	16QAM	12	13	19.41	19.39	19.43			
5	16QAM	12	19	19.31	19.34	19.43			
5	256QAM	1	0	19.36	19.17	19.05	19.3		
5	256QAM	1	12	19.30	19.00	19.00			
5	256QAM	1	24	17.99	19.03	19.08			
5	256QAM	12	0	17.58	17.56	17.59	19.3		
5	256QAM	12	7	17.69	17.51	17.58			
5	256QAM	12	13	17.65	17.53	17.45			
5	256QAM	25	0	17.47	17.44	17.45	19.3		

Band 30_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 27176									
Frequency (MHz)									
10	QPSK	1	0	21.20	21.20	21.20	22.3		
10	QPSK	1	25	21.22	21.22	21.22			
10	QPSK	1	49	21.27	21.27	21.27			
10	QPSK	25	0	21.08	21.08	21.08	22.3		
10	QPSK	25	12	21.20	21.20	21.20			
10	QPSK	25	25	21.08	21.08	21.08			
10	QPSK	50	0	21.12	21.12	21.12	22.3		
10	16QAM	1	0	21.14	21.14	21.14			
10	16QAM	1	49	21.12	21.12	21.12			
10	16QAM	25	0	21.11	21.11	21.11	22.3		
10	16QAM	25	12	21.15	21.15	21.15			
10	16QAM	25	25	21.16	21.16	21.16			
10	16QAM	50	0	21.12	21.12	21.12	22.3		
10	16QAM	50	1	21.16	21.16	21.16			
10	16QAM	50	2	21.18	21.18	21.18			
10	16QAM	1	25	21.15	21.15	21.15	22.3		
10	16QAM	1	49	21.18	21.18	21.18			
10	16QAM	1	73	20.90	20.90	20.90			
10	16QAM	25	12	20.35	20.35	20.35	21.3		
10	16QAM	25	25	20.45	20.45	20.45			
10	16QAM	25	38	20.39	20.39	20.39			
10	256QAM	1	0	19.55	19.55	19.55	19.3		
10	256QAM	1	25	19.65	19.65	19.65			
10	256QAM	1	49	19.65	19.65	19.65			
10	256QAM	25	0	19.50	19.50	19.50	19.3		
10	256QAM	25	12	19.52	19.52	19.52			
10	256QAM	25	25	19.51	19.51	19.51			
10	256QAM	50	0	19.50	19.50	19.50	19.3		
10	256QAM	50	1	19.51	19.51	19.51			
10	256QAM	50	2	19.52	19.52	19.52			
Channel 27178									
Frequency (MHz)									
5	QPSK	1	0	21.10	21.18	21.07	22.3		
5	QPSK	1	12	21.14	21.11	21.17			
5	QPSK	1	24	20.92	20.95	20.95			
5	QPSK	12	0	21.02	21.06	21.06	22.3		
5	QPSK	12	7	21.09	21.09	21.11			
5	QPSK	12	13	20.94	21.07	21.01			
5	QPSK	25	0	21.08	21.10	21.01	22.3		
5	16QAM	1	0	21.11	21.00	21.05			
5	16QAM	1	14	20.98	20.97	21.02			
5	16QAM	12	0	21.03	20.98	20.96	22.3		
5	16QAM	12	7	21.03	21.08	21.06			
5	16QAM	12	13	21.09	21.05	21.11			
5	16QAM	25	0	21.04	21.02	21.00	22.3		
5	16QAM	25	1	21.04	21.04	21.00			
5	16QAM	25	12	21.07	21.05	21.11			
5	16QAM	1	24	20.97	21.04	21.03	22.3		
5	16QAM	1	49	21.07	21.04	21.03			
5	16QAM	1	73	20.93	20.93	20.93			
5	16QAM	12	7	20.97	20.94	20.95	22.3		
5	16QAM	12	13	20.92	20.95	20.95			
5	16QAM	12	19	20.10	20.94	20.94			
5	256QAM	1	0	19.47	19.52	19.40	19.3		
5	256QAM	1	12	19.21	19.26	19.25			
5	256QAM	1	24	18.21	18.26	18.25			
5	256QAM	12	0	18.13	18.19	18.13	19.3		
5	256QAM	12	7	18.16	18.28	18.14			
5	256QAM	12	13	17.87	18.17	18.03			
5	256QAM	25	0	18.14	18.11	18.09	19.3		

Band 66_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 150272									
Frequency (MHz)									
20	QPSK	1	0	22.69	22.67	22.69	23.5		
20	QPSK	1	49	22.75	22.68	22.73			
20	QPSK	1	98	22.85	22.82	22.85			
20	QPSK	50	0	22.72	22.72	22.67	23.5		
20	QPSK	50	24	22.71	22.77	22.75			
20	QPSK	50	48	22.65	22.65	22.68			
20	QPSK	100	0	22.63	22.78	22.72	23.5		
20	16QAM	1	0	22.72	22.72	22.65			
20	16QAM	1	99	22.80	22.69	22.68			
20	16QAM	50	0	22.20	22.25	22.40	23		
20	16QAM	50	24	22.25	22.31	22.31			
20	16QAM	50	48	22.13	22.28	22.28			
20	16QAM	100	0	22.28	22.28	22.19	23		
20	16QAM	100	1	22.26	22.29	22.29			
20	16QAM	100	2	22.28	22.29	22.29			
20	16QAM	1	49	22.03	22.17	22.19	23		
20	16QAM	1							



Band 66_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up Int. (dB)	
Channel: 132072, 132077, 132072									
Frequency (MHz): 1745, 1745, 1745									
20	QPSK	1	0	19.80	19.82	19.86			
20	QPSK	1	49	19.84	19.82	19.86		20.3	
20	QPSK	1	98	19.88	19.82	19.86			
20	QPSK	50	0	19.77	19.78	19.86			
20	QPSK	50	24	19.80	19.80	19.87			
20	QPSK	50	49	19.74	19.83	19.87			
20	QPSK	100	0	19.78	19.86	19.84			
20	16QAM	1	0	19.72	19.74	19.71			
20	16QAM	1	49	19.82	19.78	19.86			
20	16QAM	1	99	19.76	19.85	19.74			
20	16QAM	50	0	19.73	19.71	19.73			
20	16QAM	50	24	19.87	19.78	19.81			
20	16QAM	50	49	19.73	19.77	19.85			
20	16QAM	100	0	19.78	19.74	19.75			
20	16QAM	100	50	19.73	19.77	19.85			
20	16QAM	100	100	19.73	19.77	19.85			
20	84QAM	1	49	19.75	19.85	19.85			
20	84QAM	1	99	19.72	19.74	19.72			
20	84QAM	50	0	19.86	19.74	19.81			
20	84QAM	50	24	19.85	19.84	19.72			
20	84QAM	50	49	19.73	19.79	19.84			
20	84QAM	100	0	19.73	19.78	19.74			
20	84QAM	100	50	19.73	19.78	19.74			
20	256QAM	1	0	19.10	19.21	19.14			
20	256QAM	1	49	19.16	19.18	19.18		19.8	
20	256QAM	1	99	19.11	19.19	19.10			
20	256QAM	50	0	19.21	19.22	19.15			
20	256QAM	50	24	19.21	19.18	19.11			
20	256QAM	50	49	19.18	19.15	19.11			
20	256QAM	100	0	19.23	19.15	19.21			
Channel: 132077, 132077, 132077									
Frequency (MHz): 1745, 1745, 1745									
16	QPSK	1	0	19.76	19.70	19.84			
16	QPSK	1	37	19.70	19.81	19.79			
16	QPSK	1	74	19.80	19.72	19.83			
16	QPSK	36	0	19.72	19.72	19.78			
16	QPSK	36	20	19.69	19.87	19.72			
16	QPSK	36	40	19.71	19.82	19.84			
16	16QAM	1	0	19.63	19.79	19.76			
16	16QAM	1	37	19.66	19.80	19.68			
16	16QAM	1	74	19.78	19.70	19.85			
16	16QAM	36	0	19.67	19.68	19.63			
16	16QAM	36	20	19.67	19.67	19.66			
16	16QAM	36	40	19.69	19.69	19.63			
16	16QAM	75	0	19.70	19.65	19.60			
16	84QAM	1	37	19.67	19.66	19.66			
16	84QAM	1	74	19.67	19.66	19.66			
16	84QAM	36	0	19.72	19.68	19.61			
16	84QAM	36	20	19.66	19.70	19.60			
16	84QAM	36	40	19.67	19.68	19.66			
16	84QAM	75	0	19.69	19.70	19.60			
16	256QAM	1	0	19.01	19.07	19.01			
16	256QAM	1	37	19.05	19.08	19.08		19.8	
16	256QAM	1	74	19.10	19.07	19.11			
16	256QAM	36	0	19.11	19.10	19.10			
16	256QAM	36	20	19.08	19.07	19.07			
16	256QAM	36	40	19.15	19.13	19.08			
16	256QAM	75	0	19.18	19.10	19.14			
Channel: 132077, 132077, 132077									
Frequency (MHz): 1745, 1745, 1745									
10	QPSK	1	0	19.75	19.77	19.80			
10	QPSK	1	25	19.82	19.80	19.82			
10	QPSK	1	49	19.85	19.82	19.80			
10	QPSK	26	0	19.84	19.69	19.79			
10	QPSK	26	12	19.87	19.77	19.86			
10	QPSK	26	25	19.69	19.83	19.86			
10	QPSK	50	0	19.85	19.83	19.76			
10	16QAM	1	0	19.67	19.66	19.63			
10	16QAM	1	25	19.76	19.76	19.63			
10	16QAM	1	49	19.87	19.64	19.67			
10	16QAM	26	0	19.65	19.63	19.59			
10	16QAM	26	12	19.64	19.65	19.58			
10	16QAM	26	25	19.70	19.65	19.57			
10	16QAM	50	0	19.64	19.66	19.67			
10	16QAM	50	25	19.67	19.66	19.67			
10	84QAM	1	25	19.74	19.77	19.75			
10	84QAM	1	49	19.69	19.84	19.82			
10	84QAM	26	0	19.61	19.69	19.64			
10	84QAM	26	12	19.65	19.74	19.66			
10	84QAM	26	25	19.60	19.70	19.64			
10	256QAM	1	0	19.00	19.06	19.10			
10	256QAM	1	25	19.01	19.07	19.15			
10	256QAM	1	49	19.05	19.06	19.15			
10	256QAM	26	0	19.20	19.21	19.11			
10	256QAM	26	12	19.18	19.15	19.10			
10	256QAM	26	25	19.12	19.00	19.07			
10	256QAM	50	0	19.19	19.10	19.11			
Channel: 132077, 132077, 132077									
Frequency (MHz): 1745, 1745, 1745									
5	QPSK	1	0	19.78	19.75	19.85			
5	QPSK	1	12	19.70	19.79	19.82			
5	QPSK	1	24	19.82	19.86	19.76			
5	QPSK	12	0	19.89	19.75	19.72			
5	QPSK	12	7	19.65	19.87	19.81			
5	QPSK	12	14	19.69	19.70	19.84			
5	QPSK	25	0	19.72	19.85	19.76			
5	16QAM	1	0	19.67	19.70	19.70			
5	16QAM	1	12	19.68	19.70	19.84			
5	16QAM	1	24	19.87	19.58	19.65			
5	16QAM	12	0	19.64	19.57	19.67			
5	16QAM	12	7	19.69	19.75	19.75			
5	16QAM	12	14	19.81	19.67	19.65			
5	16QAM	25	0	19.73	19.89	19.85			
5	84QAM	1	12	19.75	19.71	19.83			
5	84QAM	1	24	19.81	19.78	19.76			
5	84QAM	1	24	19.83	19.73	19.81			
5	84QAM	12	0	19.69	19.88	19.79			
5	84QAM	12	7	19.64	19.71	19.82			
5	84QAM	12	14	19.87	19.81	19.67			
5	84QAM	25	0	19.62	19.70	19.82			
5	84QAM	25	7	19.64	19.74	19.86			
5	256QAM	1	0	19.05	19.18	19.04			
5	256QAM	1	12	19.07	19.15	19.04			
5	256QAM	1	24	19.08	19.11	19.04			
5	256QAM	12	0	19.19	19.14	19.02			
5	256QAM	12	7	19.17	19.05	19.06			
5	256QAM	12	14	19.10	19.03	19.02			
5	256QAM	25	0	19.10	19.03	19.09			
Channel: 132077, 132077, 132077									
Frequency (MHz): 1745, 1745, 1745									
3	QPSK	1	0	19.80	19.80	19.76			
3	QPSK	1	8	19.73	19.86	19.84			
3	QPSK	1	14	19.73	19.80	19.84			
3	QPSK	8	0	19.76	19.72	19.71			
3	QPSK	8	4	19.69	19.77	19.75			
3	QPSK	8	7	19.74	19.81	19.81			
3	QPSK	16	0	19.85	19.85	19.78			
3	16QAM	1	0	19.66	19.69	19.84			
3	16QAM	1	8	19.67	19.64	19.81			
3	16QAM	1	14	19.72	19.57	19.62			
3	16QAM	8	0	19.59	19.59	19.63			
3	16QAM	8	4	19.63	19.66	19.66			
3	16QAM	8	7	19.68	19.71	19.58			
3	16QAM	16	0	19.65	19.72	19.66			
3	84QAM	1	0	19.67	19.69	19.87			
3	84QAM	1	8	19.74	19.81	19.76			
3	84QAM	1	14	19.86	19.71	19.71			
3	84QAM	8	0	19.66	19.69	19.76			
3	84QAM	8	4	19.61	19.77	19.71			
3	84QAM	8	7	19.66	19.74	19.81			
3	84QAM	16	0	19.66	19.74	19.81			
3									



Band 38_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch1 (W)	Power Middle Ch1 (W)	Power High Ch1 (W)	Time-up (min)		
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.19	23.24	23.20			23.5
20	QPSK	1	40	23.07	23.08	23.22			
20	QPSK	1	80	23.11	23.25	23.14			
20	QPSK	50	0	23.04	23.19	23.11			23.5
20	QPSK	50	40	23.13	23.27	23.14			
20	QPSK	50	80	23.05	23.12	23.07			
20	QPSK	100	0	23.08	23.17	23.12			
20	QPSK	100	40	23.07	23.19	23.10			
20	HQAM	1	40	23.15	23.17	23.14			23.5
20	HQAM	1	80	22.99	23.18	23.15			
20	HQAM	50	0	23.07	23.09	23.22			
20	HQAM	50	40	23.08	23.24	23.05			23
20	HQAM	50	80	23.06	23.06	23.04			
20	HQAM	100	0	23.08	23.20	23.22			
20	HQAM	100	40	22.85	23.26	23.28			23
20	HQAM	100	80	22.82	23.05	23.22			
20	HQAM	50	0	21.80	21.73	21.65			22
20	HQAM	50	40	21.70	21.84	21.83			
20	HQAM	50	80	21.82	21.78	21.81			
20	HQAM	100	0	21.83	21.68	21.74			
20	SSQAM	1	40	19.92	19.97	19.84			20
20	SSQAM	1	80	19.47	19.49	19.60			
20	SSQAM	50	0	19.45	19.24	19.50			
20	SSQAM	50	40	19.42	19.54	19.58			20
20	SSQAM	50	80	19.42	19.44	19.61			
20	SSQAM	100	0	19.47	19.49	19.58			
20	SSQAM	100	40	19.42	19.44	19.51			20
20	SSQAM	100	80	19.56	19.40	19.48			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.10	23.16	23.04			23.5
15	QPSK	1	37	23.22	23.29	23.23			
15	QPSK	1	74	23.13	23.17	23.08			
15	QPSK	36	0	22.98	23.18	23.02			23.5
15	QPSK	36	36	23.03	23.18	23.18			
15	QPSK	36	72	23.06	23.08	23.04			
15	QPSK	72	0	22.91	23.05	23.11			
15	HQAM	1	0	22.94	23.09	23.04			23.5
15	HQAM	1	37	23.08	23.09	23.01			
15	HQAM	1	74	22.87	23.10	23.10			
15	HQAM	36	0	22.74	22.76	22.74			23
15	HQAM	36	36	22.77	22.92	22.84			
15	HQAM	36	72	22.90	23.00	22.71			
15	HQAM	72	0	22.79	22.81	22.79			23
15	HQAM	72	36	22.78	22.97	22.86			
15	HQAM	72	72	22.70	22.81	22.70			
15	HQAM	36	0	21.68	21.68	21.61			22
15	HQAM	36	36	21.55	21.72	21.77			
15	HQAM	36	72	21.80	21.69	21.68			22
15	HQAM	72	0	21.69	21.67	21.62			
15	SSQAM	1	0	19.42	19.48	19.58			20
15	SSQAM	1	37	19.32	19.44	19.61			
15	SSQAM	36	0	19.47	19.49	19.58			
15	SSQAM	36	36	19.42	19.44	19.51			20
15	SSQAM	36	72	19.42	19.44	19.51			
15	SSQAM	72	0	19.48	19.40	19.48			
15	SSQAM	72	36	19.55	19.40	19.48			20
15	SSQAM	72	72	19.48	19.50	19.52			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.16	23.20	23.10			23.5
5	QPSK	1	24	23.18	23.29	23.21			
5	QPSK	1	48	23.09	23.19	23.00			
5	QPSK	12	0	23.02	23.05	23.05			23.5
5	QPSK	12	12	23.10	23.16	23.10			
5	QPSK	12	24	23.01	23.08	23.02			
5	QPSK	24	0	22.96	23.15	23.00			
5	HQAM	1	12	23.03	23.07	23.07			23.5
5	HQAM	1	24	22.94	23.04	23.00			
5	HQAM	12	0	22.86	23.25	22.87			
5	HQAM	12	12	22.83	22.85	22.88			23
5	HQAM	12	24	22.87	22.71	22.72			
5	HQAM	24	0	22.80	23.03	22.81			
5	HQAM	1	0	22.78	22.42	22.72			23
5	HQAM	1	12	22.83	23.06	22.88			
5	HQAM	1	24	22.79	22.93	22.47			
5	HQAM	12	0	21.79	21.68	21.63			22
5	HQAM	12	12	21.82	21.63	21.62			
5	HQAM	12	24	21.71	21.74	21.70			
5	HQAM	24	0	21.62	21.62	21.67			22
5	SSQAM	1	0	19.45	19.46	19.60			20
5	SSQAM	1	12	19.33	19.46	19.50			
5	SSQAM	12	24	19.46	19.49	19.37			
5	SSQAM	12	0	19.34	19.47	19.46			20
5	SSQAM	12	12	19.40	19.48	19.40			
5	SSQAM	12	24	19.46	19.39	19.29			
5	SSQAM	24	0	19.41	19.45	19.40			20

Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch1 (W)	Power Middle Ch1 (W)	Power High Ch1 (W)	Time-up (min)		
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.62	21.77	21.66			22.3
20	QPSK	1	40	21.61	21.60	21.68			
20	QPSK	1	80	21.64	21.78	21.60			
20	QPSK	50	0	21.60	21.68	21.58			22.3
20	QPSK	50	40	21.62	21.71	21.65			
20	QPSK	50	80	21.67	21.71	21.85			
20	QPSK	100	0	21.64	21.70	21.82			
20	QPSK	100	40	21.63	21.78	21.60			
20	HQAM	1	40	21.66	21.75	21.70			22.3
20	HQAM	1	80	21.63	21.66	21.64			
20	HQAM	50	0	21.62	21.60	21.68			22.3
20	HQAM	50	40	21.71	21.76	21.60			
20	HQAM	50	80	21.62	21.78	21.66			
20	HQAM	100	0	21.61	21.60	21.60			
20	HQAM	100	40	21.64	21.67	21.65			22.3
20	HQAM	100	80	21.60	21.70	21.68			
20	HQAM	1	80	21.64	21.67	21.65			
20	HQAM	50	0	21.10	21.08	21.10			21.8
20	HQAM	50	40	21.10	21.08	21.10			
20	HQAM	50	80	21.12	21.21	21.20			
20	HQAM	100	0	21.00	21.03	21.00			
20	HQAM	100	40	19.92	19.90	19.95			19.8
20	HQAM	100	80	19.93	19.99	19.92			
20	SSQAM	1	0	18.94	18.97	18.94			19.8
20	SSQAM	1	40	18.93	18.99	18.92			
20	SSQAM	50	0	18.94	18.97	18.94			
20	SSQAM	50	40	18.99	18.85	18.98			19.8
20	SSQAM	50	80	18.93	18.90	18.98			
20	SSQAM	100	0	18.93	18.85	18.96			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.53	21.71	21.55			22.3
15	QPSK	1	37	21.68	21.77	21.60			
15	QPSK	1	74	21.61	21.67	21.65			
15	QPSK	36	0	21.57	21.61	21.45			22.3
15	QPSK	36	36	21.58	21.63	21.60			
15	QPSK	36	72	21.52	21.65	21.60			
15	QPSK	72	0	21.58	21.58	21.53			
15	HQAM	1	0	21.48	21.60	21.49			22.3
15	HQAM	1	37	21.61	21.74	21.65			
15	HQAM	1	74	21.48	21.57	21.62			
15	HQAM	36	0	21.58	21.60	21.57			22.3
15	HQAM	36	36	21.70	21.70	21.53			
15	HQAM	36	72	21.53	21.74	21.57			
15	HQAM	72	0	21.62	21.65	21.65			22.3
15	HQAM	72	36	21.57	21.76	21.59			
15	HQAM	72	72	21.60	21.68	21.64			
15	HQAM	1	0	21.53	21.61	21.60			22.3
15	HQAM	1	37	21.67	21.76	21.59			
15	HQAM	1	74	21.60	21.68	21.64			
15	HQAM	36	0	21.08	21.67	21.19			21.8
15	HQAM	36	36	21.10	21.07	21.16			
15	HQAM</								











Reduced Power Mode for DSI5

GSM850_Ant 1				Frame-Average Power (dBm)				Tune-up Limit (dBm)				
TX Channel	128	189	251	128	189	251	128	189	251	128	189	251
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4	848.8
GSM 1 Tx slot	32.75	32.80	32.77	34.00	23.75	23.80	23.77	25.00				
GPRS 1 Tx slot	32.72	32.77	32.69	34.00	23.72	23.77	23.69	25.00				
GPRS 2 Tx slot	29.83	29.70	29.68	31.00	23.83	23.70	23.68	25.00				
GPRS 3 Tx slot	27.88	27.93	27.85	29.20	23.82	23.67	23.59	24.94				
GPRS 4 Tx slot	27.15	26.88	26.70	28.50	24.15	23.68	23.70	25.50				
EDGE(GMSK 1 Tx slot)	32.57	32.75	32.54	34.00	23.57	23.75	23.54	25.00				
EDGE(GMSK 2 Tx slot)	29.88	29.52	29.63	31.00	23.88	23.52	23.63	25.00				
EDGE(GMSK 3 Tx slot)	27.73	27.91	27.71	29.20	23.47	23.85	23.45	24.94				
EDGE(GMSK 4 Tx slot)	27.05	26.66	26.55	28.50	24.05	23.66	23.55	25.50				
EDGE 1 Tx slot	26.95	26.77	26.82	28.00	17.95	17.77	17.82	18.00				
EDGE 2 Tx slot	23.85	23.79	23.70	25.00	17.85	17.79	17.70	19.00				
EDGE 3 Tx slot	22.08	21.68	21.66	23.50	17.62	17.42	17.40	19.24				
EDGE 4 Tx slot	21.00	20.86	20.69	22.50	18.00	17.89	17.69	19.50				
DTM Multi-slot class 5	GSM 1 Tx slot	29.54	29.44	29.58	31.00	23.58	23.44	23.57	24.98			
	GPRS 1 Tx slot	29.62	29.48	29.60	31.00							
DTM Multi-slot class 9	GSM 1 Tx slot	29.55	29.41	29.50	31.00	23.55	23.43	23.49	24.98			
	GPRS 1 Tx slot	29.59	29.49	29.53	31.00							
DTM Multi-slot class 11	GSM 1 Tx slot	27.59	27.76	27.56	29.20	23.55	23.56	23.31	24.94			
	GPRS 2 Tx slot	27.62	27.85	27.58	29.20							
DTM Multi-slot class 5	GSM 1 Tx slot	29.61	29.48	29.51	31.00	21.59	21.48	21.48	22.94			
	EDGE 1 Tx slot	23.80	23.66	23.64	25.00							
DTM Multi-slot class 9	GSM 1 Tx slot	29.60	29.46	29.54	31.00	21.57	21.44	21.49	22.94			
	EDGE 1 Tx slot	23.72	23.66	23.57	25.00							
DTM Multi-slot class 11	GSM 1 Tx slot	27.60	27.83	27.60	29.20	20.46	20.50	20.32	22.04			
	EDGE 2 Tx slot	21.96	21.82	21.55	23.50							

GSM1900_Ant 5				Frame-Average Power (dBm)				Tune-up Limit (dBm)				
TX Channel	512	661	810	512	661	810	512	661	810	512	661	810
Frequency (MHz)	1850.2	1860	1809.8	1850.2	1860	1809.8	1850.2	1860	1809.8	1850.2	1860	1809.8
GSM 1 Tx slot	30.66	30.60	30.77	31.50	21.66	21.60	21.77	22.50				
GPRS 1 Tx slot	30.63	30.57	30.72	31.50	21.63	21.57	21.72	22.50				
GPRS 2 Tx slot	27.60	26.97	26.92	28.00	21.00	20.97	20.92	22.50				
GPRS 3 Tx slot	25.22	25.28	25.52	26.80	20.96	21.02	21.26	22.24				
GPRS 4 Tx slot	24.20	24.30	24.55	25.90	21.20	21.30	21.55	22.50				
EDGE(GMSK 1 Tx slot)	30.48	30.48	30.83	31.50	21.48	21.48	21.63	22.50				
EDGE(GMSK 2 Tx slot)	26.99	26.87	26.96	28.00	20.99	20.87	20.96	22.50				
EDGE(GMSK 3 Tx slot)	25.88	25.88	25.41	26.50	20.82	21.00	21.15	22.24				
EDGE(GMSK 4 Tx slot)	24.06	24.15	24.53	25.80	21.06	21.15	21.53	22.50				
EDGE 1 Tx slot	26.20	26.15	26.12	27.00	17.20	17.15	17.12	18.00				
EDGE 2 Tx slot	23.10	23.22	23.18	24.00	17.10	17.22	17.18	18.00				
EDGE 3 Tx slot	21.88	22.00	21.82	22.80	17.62	17.74	17.66	18.54				
EDGE 4 Tx slot	21.85	21.70	21.84	22.80	18.05	18.70	18.64	19.60				
DTM Multi-slot class 5	GSM 1 Tx slot	26.85	26.74	26.76	28.00	20.86	20.74	20.77	21.98			
	GPRS 1 Tx slot	26.91	26.79	26.82	28.00							
DTM Multi-slot class 9	GSM 1 Tx slot	26.87	26.72	26.76	28.00	20.85	20.74	20.75	21.98			
	GPRS 1 Tx slot	26.88	26.81	26.79	28.00							
DTM Multi-slot class 11	GSM 1 Tx slot	24.99	25.11	25.34	26.00							
	GPRS 2 Tx slot	24.99	25.16	25.43	26.00	20.72	20.88	21.14	22.24			
DTM Multi-slot class 5	GSM 1 Tx slot	26.87	26.80	26.79	28.00							
	EDGE 1 Tx slot	23.00	23.09	23.11	24.00	19.33	19.31	19.31	20.42			
DTM Multi-slot class 9	GSM 1 Tx slot	26.88	26.76	26.80	28.00							
	EDGE 1 Tx slot	23.04	23.12	23.07	24.00	19.35	19.30	19.30	20.42			
DTM Multi-slot class 11	GSM 1 Tx slot	25.00	25.13	25.29	26.80	18.87	18.98	19.03	20.15			
	EDGE 2 Tx slot	21.76	21.85	21.79	22.80							

WCDMA # Ant 6				WCDMA # Ant 5				Tune-up Limit (dBm)				
TX Channel	9262	9400	9538	9262	9400	9538	9262	9400	9538	9262	9400	9538
Frequency (MHz)	8662	8600	8638	8662	8600	8638	8662	8600	8638	8662	8600	8638
3GPP Rel 99	AMR 12.2Kbps	19.27	19.26	19.26	20.80	21.05	21.19	21.22	22.00			
3GPP Rel 99	RMC 12.2Kbps	19.35	19.40	19.32	20.80	21.22	21.33	21.25	22.00			
3GPP Rel 6	HSDPA Subtest-1	18.43	18.51	18.54	19.80	20.35	20.43	20.38	21.60			
3GPP Rel 6	HSDPA Subtest-2	18.56	18.53	18.52	19.80	20.50	20.41	20.43	21.60			
3GPP Rel 6	HSDPA Subtest-3	17.94	18.02	18.00	18.30	19.91	19.94	19.92	20.80			
3GPP Rel 6	HSDPA Subtest-4	18.00	18.07	18.01	19.30	19.89	19.90	19.91	20.50			
3GPP Rel 8	DC-HSDPA Subtest-1	18.41	18.39	18.45	19.80	20.32	20.31	20.28	21.60			
3GPP Rel 8	DC-HSDPA Subtest-2	18.39	18.55	18.33	19.80	20.29	20.38	20.31	21.60			
3GPP Rel 8	DC-HSDPA Subtest-3	17.83	17.95	17.92	19.30	19.85	19.95	19.82	20.50			
3GPP Rel 8	DC-HSDPA Subtest-4	17.84	17.89	17.79	18.30	19.81	19.80	19.81	20.80			
3GPP Rel 6	HSUPA Subtest-1	18.44	18.65	18.54	19.80	20.44	20.45	20.46	21.60			
3GPP Rel 6	HSUPA Subtest-2	16.41	16.55	16.59	17.80	18.40	18.55	18.50	19.00			
3GPP Rel 6	HSUPA Subtest-3	17.51	17.58	17.56	18.80	19.40	19.54	19.41	20.00			
3GPP Rel 6	HSUPA Subtest-4	16.41	16.80	16.50	17.80	18.41	18.52	18.46	19.00			
3GPP Rel 6	HSUPA Subtest-5	18.36	18.89	18.89	19.80	20.41	20.52	20.41	21.60			
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.42	16.48	16.39	17.80	18.40	18.42	18.23	19.00			

WCDMA # Ant 6				WCDMA # Ant 5				Tune-up Limit (dBm)				
TX Channel	1312	1413	1513	1312	1413	1513	1312	1413	1513	1312	1413	1513
Frequency (MHz)	1722.4	1722.6	1722.8	1722.4	1722.6	1722.8	1722.4	1722.6	1722.8	1722.4	1722.6	1722.8
3GPP Rel 99	AMR 12.2Kbps	21.65	21.66	21.62	22.30	22.73	22.75	22.69	23.50			
3GPP Rel 99	RMC 12.2Kbps	21.69	21.75	21.70	22.30	22.77	22.82	22.73	23.50			
3GPP Rel 6	HSDPA Subtest-1	20.98	20.98	20.88	21.30	22.01	21.94	22.00	22.80			
3GPP Rel 6	HSDPA Subtest-2	20.93	20.99	20.92	21.30	21.92	21.93	22.03	22.80			
3GPP Rel 6	HSDPA Subtest-3	20.39	20.47	20.40	20.80	21.41	21.54	21.43	22.00			
3GPP Rel 6	HSDPA Subtest-4	20.41	20.47	20.30	20.80	21.47	21.36	21.50	22.00			
3GPP Rel 8	DC-HSDPA Subtest-1	20.81	20.76	20.81	21.30	21.82	21.81	21.88	22.80			
3GPP Rel 8	DC-HSDPA Subtest-2	20.80	20.88	20.84	21.30	21.85	21.99	21.83	22.80			
3GPP Rel 8	DC-HSDPA Subtest-3	20.40	20.28	20.24	20.80	21.29	21.40	21.34	22.00			
3GPP Rel 8	DC-HSDPA Subtest-4	20.36	20.42	20.29	20.80	21.37	21.30	21.34	22.00			
3GPP Rel 6	HSUPA Subtest-1	20.85	20.91	20.92	21.30	21.90	21.97	22.00	22.50			
3GPP Rel 6	HSUPA Subtest-2	18.89	19.00	18.98	19.30	19.95	20.05	19.96	20.50			
3GPP Rel 6	HSUPA Subtest-3	19.95	19.90	19.97	20.30	20.91	20.99	21.09	21.60			
3GPP Rel 6	HSUPA Subtest-4	18.89	18.84	18.85	19.30	20.03	20.00	20.00	20.50			
3GPP Rel 6	HSUPA Subtest-5	20.89	20.86	20.97	21.30	21.99	22.01	22.01	22.50			
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.76	18.88	18.78	19.30	19.91	19.75	19.83	20.50			

WCDMA V_Ant 0				WCDMA V_Ant 1				Tune-up Limit (dBm)			
TX Channel	4132	4182	4233	4132	4182	4233	4132	41			



Band 2_Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dBm)	
Channel 1880.0 - 1920.0									
Frequency (MHz)									
20	QPSK	1	0	21.02	21.21	21.09			
20	QPSK	1	49	21.16	21.24	21.13		22	
20	QPSK	1	98	21.10	21.18	21.05			
20	QPSK	50	0	21.12	21.10	21.05			
20	QPSK	50	24	21.14	21.20	21.11		22	
20	QPSK	50	49	21.08	21.12	21.07			
20	QPSK	100	0	21.05	21.18	21.08			
20	16QAM	1	0	21.06	21.14	21.10		20.3	
20	16QAM	50	0	21.01	21.00	20.98			
20	16QAM	1	99	21.10	21.23	21.00			
20	16QAM	50	0	21.08	21.19	21.01			
20	16QAM	50	24	21.01	21.01	20.98			
20	16QAM	50	50	21.11	21.14	21.07		22	
20	16QAM	100	0	21.02	21.18	21.03			
20	16QAM	1	0	21.09	21.15	20.98			
20	16QAM	1	49	21.04	21.17	20.99		22	
20	16QAM	1	99	21.12	21.11	21.04			
20	16QAM	50	24	20.93	21.16	20.98			
20	16QAM	50	50	21.00	21.06	20.94		20.3	
20	16QAM	100	0	20.90	21.04	20.96			
20	256QAM	1	0	19.17	19.15	19.20			
20	256QAM	1	49	19.15	19.00	19.14		19.8	
20	256QAM	1	99	19.05	19.00	19.04			
20	256QAM	50	0	19.06	19.09	19.08			
20	256QAM	50	24	19.14	19.11	19.08		20	
20	256QAM	50	50	19.09	19.00	19.03			
20	256QAM	100	0	19.10	19.08	19.05			
Channel 1880.5 - 1920.5									
Frequency (MHz)									
15	QPSK	1	0	21.01	21.16	21.00			
15	QPSK	1	37	21.05	21.20	21.05		22	
15	QPSK	1	74	21.03	21.03	20.97			
15	QPSK	36	0	21.09	21.09	20.97			
15	QPSK	36	20	21.02	21.13	20.98		20.3	
15	QPSK	36	40	21.04	21.08	20.97			
15	QPSK	75	0	20.98	21.06	21.00			
15	16QAM	1	0	20.94	21.13	20.95		20.3	
15	16QAM	1	20	20.98	21.04	20.98			
15	16QAM	1	74	21.00	21.22	21.00			
15	16QAM	36	0	21.00	21.12	21.00		22	
15	16QAM	36	20	20.92	21.00	20.98			
15	16QAM	36	39	21.08	21.10	21.02			
15	16QAM	75	0	20.97	21.08	20.95		20.3	
15	16QAM	75	20	21.02	21.13	20.98			
15	16QAM	75	40	21.04	21.10	20.93			
15	16QAM	150	0	20.94	21.02	20.96		20.3	
15	16QAM	1	0	20.98	21.02	20.95			
15	16QAM	1	37	21.01	21.15	20.93		22	
15	16QAM	1	74	21.05	21.02	20.92			
15	16QAM	36	0	20.98	21.02	20.98			
15	16QAM	36	20	20.90	21.07	20.93		20.3	
15	16QAM	36	39	20.98	20.93	20.72			
15	16QAM	75	0	20.88	21.01	20.73		20	
15	16QAM	75	20	20.92	21.01	20.93			
15	16QAM	75	40	20.91	21.07	20.90			
15	16QAM	150	0	20.89	21.00	20.93		20.3	
Channel 1881.5 - 1921.5									
Frequency (MHz)									
10	QPSK	1	0	20.89	21.08	21.08			
10	QPSK	1	25	21.04	21.10	21.07		22	
10	QPSK	1	51	21.03	21.03	20.97			
10	QPSK	25	0	21.01	21.07	20.95			
10	QPSK	25	12	21.03	21.06	21.07		20.3	
10	QPSK	25	25	21.00	21.15	21.07			
10	16QAM	1	0	21.01	21.03	21.05		20.3	
10	16QAM	1	20	20.97	21.05	20.94			
10	16QAM	1	49	20.98	21.13	20.94			
10	16QAM	25	0	21.06	21.12	20.93		22	
10	16QAM	25	12	20.93	21.13	20.94			
10	16QAM	25	25	20.96	21.12	20.92			
10	16QAM	50	0	20.94	21.17	20.99		20.3	
10	16QAM	50	12	20.98	21.13	20.92			
10	16QAM	50	25	20.96	21.13	20.92			
10	16QAM	100	0	20.89	21.02	20.93		20.3	
10	16QAM	1	0	20.94	21.04	20.93			
10	16QAM	1	25	20.98	21.09	20.94		22	
10	16QAM	1	51	20.97	21.03	20.94			
10	16QAM	25	0	20.94	21.03	20.94			
10	16QAM	25	12	20.92	21.03	20.92		20.3	
10	16QAM	25	25	20.94	21.03	20.92			
10	16QAM	50	0	20.91	21.04	20.94		20.3	
10	16QAM	50	12	20.92	21.03	20.92			
10	16QAM	50	25	20.94	21.03	20.92			
10	16QAM	100	0	20.89	21.00	20.93		20.3	
10	256QAM	1	0	19.15	19.07	19.10		19.8	
10	256QAM	1	25	19.04	19.00	19.06			
10	256QAM	1	51	19.07	19.00	19.01			
10	256QAM	50	0	19.02	19.08	19.04			
10	256QAM	50	25	19.05	19.04	19.03		20	
10	256QAM	50	51	19.02	19.00	19.03			
10	256QAM	100	0	19.03	19.00	19.01		19.8	
10	256QAM	1	0	19.04	19.07	19.01			
10	256QAM	1	25	19.02	19.00	19.03			
10	256QAM	1	51	19.01	18.97	19.00		20	
10	256QAM	50	0	18.98	18.97	18.93			
Channel 1882.5 - 1922.5									
Frequency (MHz)									
5	QPSK	1	0	21.00	21.16	21.05			
5	QPSK	1	12	21.05	21.18	21.03		22	
5	QPSK	1	24	21.01	21.03	20.96			
5	QPSK	12	0	21.02	21.07	20.96			
5	QPSK	12	7	21.01	21.15	20.98		20.3	
5	QPSK	12	14	21.00	21.01	20.93			
5	QPSK	25	0	20.93	21.05	21.00			
5	16QAM	1	0	20.99	21.04	21.08		20.3	
5	16QAM	1	12	21.03	21.11	21.03			
5	16QAM	1	24	20.98	21.17	20.94			
5	16QAM	12	0	20.93	21.18	20.97		22	
5	16QAM	12	7	20.97	21.08	20.96			
5	16QAM	12	14	21.04	21.03	21.02			
5	16QAM	25	0	20.92	21.07	20.96		20.3	
5	16QAM	25	7	21.01	21.13	20.92			
5	16QAM	25	14	20.94	21.02	20.91			
5	16QAM	50	0	21.05	21.09	21.01		22	
5	16QAM	50	7	20.97	20.92	20.86			
5	16QAM	50	14	20.99	21.02	20.92			
5	16QAM	100	0	20.92	20.92	20.83		20.3	
5	16QAM	100	7	20.91	20.90	20.81			
5	16QAM	100	14	20.93	20.94	20.84			
5	16QAM	200	0	20.89	20.92	20.83		20.3	
5	16QAM	1	0	20.94	21.04	20.93			
5	16QAM	1	12	20.98	21.09	20.94		22	
5	16QAM	1	24	20.97	21.03	20.94			
5	16QAM	12	0	20.94	21.03	20.94			
5	16QAM	12	7	20.92	21.03	20.92		20.3	
5	16QAM	12	14	20.94	21.03	20.92			
5	16QAM	25	0	20.91	21.04	20.94		20.3	
5	16QAM	25	7	20.92	21.03	20.92			
5	16QAM	25	14	20.94	21.03	20.92			
5	16QAM	50	0	20.89	20.92	20.83		20.3	
5	16QAM	50	7	20.91	20.90	20.81			
5	16QAM	50	14	20.93	20.94	20.84			
5	16QAM	100	0	20.89	20.92	20.83		20.3	
5	256QAM	1	0	19.16	19.11	19.12		19.8	
5	256QAM	1	12	19.07	19.00	19.03			
5	256QAM	1	24	18.99	18.94	18.94			
5	256QAM	12	0	18.91	19.02	18.95		20	
5	256QAM	12	7	18.94	18.90	18.93			
5	256QAM	12	14	18.95	18.90	18.94			



Band 4_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch (F/Hz)	Power Mid Ch (F/Hz)	Power High Ch (F/Hz)	Turn-up (dB)	Turn-up (dB)	Turn-up (dB)
Channel 1									
Frequency (MHz)									
20	QPSK	1	0	22.26	22.27	22.28			
20	QPSK	1	49	22.28	22.43	22.60	23.3		
20	QPSK	1	98	22.34	22.43	22.52			
20	QPSK	50	0	22.32	22.32	22.37			
20	QPSK	50	24	22.35	22.43	22.52	23.3		
20	QPSK	50	49	22.34	22.37	22.43			
20	QPSK	100	0	22.26	22.26	22.31			
20	16QAM	1	0	22.27	22.28	22.28	23.3		
20	16QAM	1	49	22.29	22.46	22.63			
20	16QAM	1	99	22.33	22.36	22.38			
20	16QAM	50	0	22.30	22.30	22.32			
20	16QAM	50	24	22.32	22.36	22.43	23.3		
20	16QAM	50	49	22.34	22.37	22.43			
20	16QAM	100	0	22.26	22.26	22.28			
20	16QAM	100	50	22.30	22.32	22.35	23.3		
20	16QAM	100	100	22.34	22.38	22.43			
20	16QAM	1	99	21.89	21.88	21.91	22.8		
20	16QAM	1	49	21.90	21.88	21.88			
20	16QAM	50	0	21.86	21.83	21.85			
20	16QAM	50	24	21.89	21.91	21.91	22.8		
20	16QAM	50	49	21.88	21.84	21.85			
20	16QAM	100	0	21.86	21.84	21.85			
20	16QAM	100	50	21.89	21.91	21.91	22.8		
20	16QAM	100	100	21.90	21.88	21.88			
20	16QAM	1	99	21.87	21.85	21.86	22.8		
20	16QAM	1	49	21.87	21.85	21.86			
20	16QAM	50	0	21.83	21.82	21.83			
20	16QAM	50	24	21.86	21.88	21.88	22.8		
20	16QAM	50	49	21.87	21.82	21.83			
20	16QAM	100	0	21.83	21.82	21.83			
20	16QAM	100	50	21.86	21.88	21.88	22.8		
20	16QAM	100	100	21.87	21.85	21.86			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			
20	16QAM	100	0	21.82	21.82	21.83			
20	16QAM	100	50	21.85	21.87	21.87	22.8		
20	16QAM	100	100	21.86	21.84	21.84			
20	16QAM	1	99	21.83	21.82	21.83	22.8		
20	16QAM	1	49	21.83	21.82	21.83			
20	16QAM	50	0	21.82	21.82	21.83			
20	16QAM	50	24	21.85	21.87	21.87	22.8		
20	16QAM	50	49	21.86	21.82	21.83			



Band 5_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)			
Channel 20650										
Frequency (MHz)										
10	QPSK	1	0	23.45	23.61	23.81	25			
10	QPSK	1	25	23.68	23.70	23.65	25			
10	QPSK	1	49	23.83	23.84	23.82	25			
10	QPSK	25	0	22.84	22.91	22.87	24			
10	QPSK	25	12	22.95	22.90	22.92	24			
10	QPSK	25	25	22.82	22.82	22.82	24			
10	QPSK	50	0	22.81	22.94	22.78	24			
10	16QAM	1	0	23.13	23.08	23.13	23			
10	16QAM	1	25	23.20	23.02	23.02	23			
10	16QAM	1	49	23.23	23.12	23.00	23			
10	16QAM	25	0	22.61	21.83	21.85	21			
10	16QAM	25	12	22.85	21.90	21.90	21			
10	16QAM	25	25	21.98	21.78	21.82	21			
10	16QAM	50	0	21.87	21.78	21.92	21			
10	16QAM	50	12	22.10	22.16	22.16	21			
10	16QAM	50	25	21.98	22.02	22.12	21			
10	16QAM	1	49	22.26	22.12	21.89	21			
10	16QAM	25	0	20.97	20.90	20.93	21			
10	16QAM	25	12	21.95	20.98	20.90	21			
10	16QAM	25	25	20.93	20.87	20.82	21			
10	16QAM	50	0	20.85	20.87	20.86	21			
10	256QAM	1	0	18.75	18.87	18.72	19.8			
10	256QAM	1	25	18.72	18.89	18.79	19.8			
10	256QAM	1	49	18.68	18.74	18.71	19.8			
10	256QAM	25	0	18.64	18.88	18.88	19.8			
10	256QAM	25	12	18.74	18.88	18.88	19.8			
10	256QAM	25	25	18.74	18.88	18.88	19.8			
10	256QAM	50	0	18.62	18.74	18.74	19.8			
Channel 20675										
Frequency (MHz)										
5	QPSK	1	0	23.39	23.59	23.49	25			
5	QPSK	1	12	23.60	23.87	23.52	25			
5	QPSK	1	24	23.11	23.31	23.22	25			
5	QPSK	12	0	22.78	22.94	22.85	24			
5	QPSK	12	7	22.93	22.91	22.84	24			
5	QPSK	12	14	22.79	22.77	22.76	24			
5	QPSK	25	0	22.80	22.82	22.87	23			
5	16QAM	1	0	23.07	23.02	23.06	23			
5	16QAM	1	12	23.17	23.02	23.02	23			
5	16QAM	1	24	23.11	23.09	22.98	23			
5	16QAM	12	0	21.95	21.79	21.70	23			
5	16QAM	12	7	21.98	21.81	21.77	23			
5	16QAM	12	13	21.84	21.71	21.77	23			
5	16QAM	25	0	21.82	21.73	21.91	23			
5	16QAM	25	12	21.98	21.82	21.85	23			
5	16QAM	25	25	21.87	21.82	22.03	23			
5	16QAM	50	0	22.12	22.07	22.16	23			
5	16QAM	50	12	22.01	21.95	22.05	23			
5	16QAM	50	25	22.08	22.05	22.02	23			
5	16QAM	12	13	20.91	20.98	20.95	23			
5	16QAM	12	19	20.72	20.82	20.82	23			
5	256QAM	1	0	18.72	18.89	18.82	19.8			
5	256QAM	1	12	18.68	18.58	18.60	19.8			
5	256QAM	1	24	18.65	18.80	18.80	19.8			
5	256QAM	12	0	18.65	18.70	18.60	19.8			
5	256QAM	12	7	18.69	18.85	18.85	19.8			
5	256QAM	12	13	18.73	18.69	18.65	19.8			
5	256QAM	25	0	18.49	18.80	18.88	19.8			
Channel 20695										
Frequency (MHz)										
3	QPSK	1	0	23.44	23.47	23.48	25			
3	QPSK	1	8	23.60	23.82	23.81	25			
3	QPSK	1	14	23.44	23.46	23.46	25			
3	QPSK	8	0	22.76	22.77	22.76	24			
3	QPSK	8	4	22.96	22.94	22.91	24			
3	QPSK	8	7	22.78	22.78	22.78	24			
3	QPSK	15	0	22.85	22.83	22.89	24			
3	16QAM	1	0	23.10	23.06	23.11	24			
3	16QAM	1	14	23.14	23.02	23.02	24			
3	16QAM	1	14	23.10	22.99	22.90	24			
3	16QAM	8	0	22.00	21.91	21.82	23			
3	16QAM	8	4	21.98	21.95	21.75	23			
3	16QAM	8	7	21.85	21.88	21.79	23			
3	16QAM	15	0	21.91	21.77	21.87	23			
3	16QAM	1	0	22.01	22.12	22.04	23			
3	16QAM	1	8	21.87	21.95	22.01	23			
3	16QAM	1	14	22.20	21.99	21.99	23			
3	16QAM	8	0	20.90	20.85	20.77	23			
3	16QAM	8	7	20.83	20.83	20.73	23			
3	16QAM	15	0	20.75	20.86	20.83	23			
3	256QAM	1	0	18.61	18.85	18.86	19.8			
3	256QAM	1	8	18.71	18.82	18.75	19.8			
3	256QAM	1	14	18.63	18.86	18.74	19.8			
3	256QAM	8	0	18.53	18.72	18.80	19.8			
3	256QAM	8	4	18.73	18.83	18.84	19.8			
3	256QAM	8	7	18.71	18.80	18.75	19.8			
3	256QAM	15	0	18.59	18.80	18.81	19.8			
Channel 20715										
Frequency (MHz)										
1.4	QPSK	1	0	23.48	23.56	23.50	25			
1.4	QPSK	1	3	23.56	23.80	23.82	25			
1.4	QPSK	1	15	23.58	23.55	23.45	25			
1.4	QPSK	3	0	23.43	23.42	23.45	24			
1.4	QPSK	3	1	23.45	23.56	23.56	24			
1.4	QPSK	3	3	23.44	23.54	23.41	24			
1.4	QPSK	6	0	22.81	22.85	22.77	24			
1.4	16QAM	1	0	22.88	22.99	22.98	24			
1.4	16QAM	1	3	23.07	23.00	22.99	24			
1.4	16QAM	1	6	23.16	23.04	22.94	24			
1.4	16QAM	3	0	22.84	22.86	22.96	24			
1.4	16QAM	3	1	23.05	22.94	22.90	24			
1.4	16QAM	3	3	23.08	23.03	22.89	24			
1.4	16QAM	6	0	21.82	21.89	21.78	23			
1.4	16QAM	6	1	22.05	22.10	22.02	23			
1.4	16QAM	6	3	21.89	21.95	22.05	23			
1.4	16QAM	1	0	22.12	22.01	21.87	23			
1.4	16QAM	3	0	21.97	22.08	21.96	23			
1.4	16QAM	3	1	21.87	21.81	22.00	23			
1.4	16QAM	3	3	22.11	21.87	21.78	23			
1.4	16QAM	6	0	20.80	20.83	20.80	22			
1.4	256QAM	1	0	18.64	18.81	18.70	19.8			
1.4	256QAM	1	3	18.67	18.87	18.72	19.8			
1.4	256QAM	1	6	18.69	18.83	18.82	19.8			
1.4	256QAM	3	0	18.59	18.59	18.83	19.8			
1.4	256QAM	3	1	18.80	18.81	18.81	19.8			
1.4	256QAM	3	3	18.81	18.80	18.83	19.8			
1.4	256QAM	6	0	18.50	18.70	18.83	19.8			

Band 5_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)			
Channel 20650										
Frequency (MHz)										
10	QPSK	1	0	20.42	20.44	20.40	21.3			
10	QPSK	1	25	20.47	20.52	20.42	21.3			
10	QPSK	1	49	20.38	20.38	20.38	21.3			
10	QPSK	25	0	20.45	20.40	20.31	21.3			
10	QPSK	25	12	20.49	20.48	20.35	21.3			
10	QPSK	25	25	20.38	20.50	20.28	21.3			
10	16QAM	1	0	20.52	20.40	20.39	21.3			
10	16QAM	1	25	20.34	20.45	20.41	21.3			
10	16QAM	1	49	20.30	20.33	20.19	21.3			
10	16QAM	25	0	20.38	20.37	20.22	21.3			
10	16QAM	25	12	20.41	20.35	20.25	21.3			
10	16QAM	25	25	20.30	20.33	20.15	21.3			
10	16QAM	50	0	20.34	20.40	20.39	21.3			
10	16QAM	50	12	20.38	20.34	20.34	21.3			
10	16QAM	50	25	20.45	20.42	20.35	21.3			
10	16QAM	1	49	20.26	20.25	20.15	21.3			
10	16QAM	25	0	20.30	20.36	20.24	21.3			
10	16QAM	25	12	20.47	20.46	20.24	21.3			
10	16QAM	25	25	20.32	20.39	20.19	21.3			
10	256QAM	1	0	18.80	18.97	18.89	19.8			





Band 7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up Int. (dB)	
Channel 1									
Frequency (MHz)									
20	QPSK	1	0	16.83	16.85	16.90			
20	QPSK	1	49	16.96	17.00	16.92		17.3	
20	QPSK	1	99	16.88	16.90	16.95			
20	QPSK	50	0	16.88	16.85	16.82			
20	QPSK	50	24	16.94	16.97	16.90		17.3	
20	QPSK	50	49	16.82	16.85	16.88			
20	QPSK	100	0	16.87	16.89	16.80			
20	16QAM	1	0	16.75	16.84	16.79		17.3	
20	16QAM	1	49	16.82	16.90	16.85			
20	16QAM	1	99	16.83	16.88	16.87			
20	16QAM	50	0	16.87	16.77	16.80			
20	16QAM	50	24	16.84	16.82	16.81		17.3	
20	16QAM	50	49	16.74	16.82	16.81			
20	16QAM	100	0	16.80	16.76	16.85			
20	16QAM	100	49	16.93	16.95	16.88		17.3	
20	84QAM	1	0	16.79	16.84	16.83			
20	84QAM	1	49	16.87	16.82	16.82			
20	84QAM	50	24	16.86	16.89	16.78			
20	84QAM	50	49	16.77	16.82	16.82			
20	84QAM	100	0	16.72	16.73	16.88		17.3	
20	256QAM	1	0	16.72	16.73	16.88			
20	256QAM	1	49	16.83	16.90	16.84		17.3	
20	256QAM	1	99	16.81	16.82	16.81			
20	256QAM	50	0	16.77	16.79	16.79			
20	256QAM	50	24	16.89	16.89	16.88		17.3	
20	256QAM	50	49	16.74	16.79	16.85			
20	256QAM	100	0	16.80	16.84	16.85			
Channel 2									
Frequency (MHz)									
16	QPSK	1	0	16.88	16.84	16.87			
16	QPSK	1	37	16.92	16.93	16.81		17.3	
16	QPSK	1	74	16.84	16.86	16.81			
16	QPSK	36	0	16.82	16.76	16.79			
16	QPSK	36	20	16.85	16.94	16.84		17.3	
16	QPSK	36	37	16.72	16.83	16.81			
16	QPSK	75	0	16.74	16.81	16.76			
16	16QAM	1	0	16.64	16.73	16.65		17.3	
16	16QAM	1	37	16.78	16.76	16.75			
16	16QAM	1	74	16.74	16.75	16.65			
16	16QAM	36	0	16.72	16.70	16.72			
16	16QAM	36	20	16.73	16.76	16.66		17.3	
16	16QAM	36	37	16.60	16.80	16.77			
16	16QAM	75	0	16.66	16.71	16.57			
16	16QAM	75	20	16.67	16.72	16.60		17.3	
16	84QAM	1	37	16.90	16.89	16.82			
16	84QAM	1	74	16.88	16.72	16.88			
16	84QAM	36	20	16.73	16.73	16.68		17.3	
16	84QAM	36	37	16.65	16.76	16.80			
16	84QAM	75	0	16.62	16.77	16.80			
16	84QAM	75	20	16.61	16.63	16.73		17.3	
16	256QAM	1	0	16.61	16.63	16.73			
16	256QAM	1	37	16.67	16.64	16.74		17.3	
16	256QAM	36	0	16.76	16.56	16.72			
16	256QAM	36	20	16.69	16.85	16.81		17.3	
16	256QAM	75	0	16.78	16.76	16.82			
Channel 3									
Frequency (MHz)									
10	QPSK	1	0	16.74	16.81	16.75			
10	QPSK	1	25	16.81	16.89	16.89		17.3	
10	QPSK	1	49	16.76	16.82	16.80			
10	QPSK	25	0	16.75	16.71	16.75			
10	QPSK	25	12	16.79	16.94	16.88		17.3	
10	QPSK	25	25	16.78	16.88	16.79			
10	QPSK	50	0	16.85	16.81	16.70			
10	16QAM	1	0	16.71	16.78	16.86		17.3	
10	16QAM	1	25	16.88	16.82	16.85			
10	16QAM	1	49	16.80	16.82	16.65			
10	16QAM	25	0	16.81	16.63	16.79		17.3	
10	16QAM	25	12	16.82	16.76	16.73			
10	16QAM	25	25	16.86	16.76	16.73			
10	16QAM	50	0	16.78	16.84	16.79		17.3	
10	84QAM	1	25	16.80	16.87	16.86			
10	84QAM	1	49	16.72	16.80	16.89		17.3	
10	84QAM	25	0	16.85	16.89	16.83			
10	84QAM	25	12	16.71	16.83	16.73			
10	84QAM	25	25	16.87	16.79	16.71		17.3	
10	256QAM	1	0	16.64	16.58	16.79			
10	256QAM	1	25	16.80	16.79	16.71		17.3	
10	256QAM	25	0	16.62	16.52	16.69			
10	256QAM	25	12	16.69	16.85	16.77		17.3	
10	256QAM	50	0	16.74	16.79	16.83			
Channel 4									
Frequency (MHz)									
5	QPSK	1	0	16.82	16.72	16.80			
5	QPSK	1	12	16.64	16.94	16.81		17.3	
5	QPSK	1	24	16.85	16.91	16.87			
5	QPSK	12	0	16.76	16.71	16.73			
5	QPSK	12	7	16.69	16.87	16.79		17.3	
5	QPSK	12	13	16.78	16.88	16.79			
5	QPSK	25	0	16.76	16.84	16.70			
5	16QAM	1	0	16.71	16.78	16.75		17.3	
5	16QAM	1	12	16.80	16.86	16.82			
5	16QAM	1	24	16.77	16.84	16.84			
5	16QAM	12	0	16.78	16.66	16.74		17.3	
5	16QAM	12	7	16.72	16.76	16.66			
5	16QAM	12	13	16.86	16.68	16.76			
5	16QAM	25	0	16.80	16.72	16.70		17.3	
5	84QAM	1	0	16.78	16.75	16.83			
5	84QAM	1	12	16.86	16.86	16.84			
5	84QAM	1	24	16.86	16.72	16.88		17.3	
5	84QAM	12	0	16.83	16.72	16.86			
5	84QAM	12	7	16.79	16.83	16.71		17.3	
5	84QAM	12	13	16.72	16.83	16.82			
5	256QAM	1	0	16.68	16.71	16.87			
5	256QAM	1	12	16.80	16.76	16.72		17.3	
5	256QAM	1	24	16.89	16.81	16.81			
5	256QAM	12	0	16.67	16.57	16.68			
5	256QAM	12	7	16.75	16.85	16.74		17.3	
5	256QAM	12	13	16.82	16.76	16.74			
5	256QAM	25	0	16.70	16.75	16.80			

Band 7_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up Int. (dB)	
Channel 1									
Frequency (MHz)									
20	QPSK	1	0	21.03	20.87	21.02			
20	QPSK	1	49	21.08	21.12	21.01		21.3	
20	QPSK	99	0	21.00	21.00	21.01			
20	QPSK	50	0	21.01	21.07	20.93			
20	QPSK	50	24	21.05	21.09	21.00		21.3	
20	QPSK	50	49	20.99	20.95	21.00			
20	16QAM	1	0	20.95	20.89	20.90		21.3	
20	16QAM	1	49	21.00	21.07	20.92			
20	16QAM	1	99	20.93	21.08	20.96			
20	16QAM	50	0	20.90	20.83	20.92		21.3	
20	16QAM	50	24	20.91	20.94	20.85			
20	16QAM	50	49	21.02	20.88	20.88			
20	16QAM	100	0	20.94	20.80	20.85		21.3	
20	16QAM	100	49	21.07	21.08	20.95			
20	84QAM	1	0	21.07	21.08	20.95		21.3	
20	84QAM	1	49	21.04	21.00	20.99			
20	84QAM	50	24	20.97	20.99	20.93		20.8	
20	84QAM	50	49	20.91	20.99	20.94			
20	84QAM	100	0	20.98	20.99	20.91			
20	256QAM	1	0	18.20	18.40	18.32			
20	256QAM	1	49	18.27	18.35	18.27		18.8	
20	256QAM	1	99	18.21	18.38	18.22			
20	256QAM	50	0	18.20	18.39	18.18		18.8	
20	256QAM	50	24	18.22	18.28	18.25			
20	256QAM	50	49	18.24	18.33	18.27			
20	256QAM	100	0	18.20	18.30	18.21		18.8	
Channel 2									
Frequency (MHz)									
15</									



Band 13_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 2329									
Frequency (MHz)									
10	QPSK	1	0	23.34			24.8		
10	QPSK	1	25	23.45					
10	QPSK	1	49	23.41					
10	QPSK	25	0	22.43			23.8		
10	QPSK	25	12	22.55					
10	QPSK	25	25	22.65					
10	QPSK	50	0	22.46			23.8		
10	QPSK	50	12	22.76					
10	QPSK	50	25	22.65					
10	16QAM	1	0	21.82			22.8		
10	16QAM	1	49	21.82					
10	16QAM	25	0	21.50					
10	16QAM	25	12	21.54			22.8		
10	16QAM	25	25	21.80					
10	16QAM	50	0	21.42					
10	16QAM	50	12	21.29			22.8		
10	16QAM	50	25	21.50					
10	16QAM	1	49	21.41					
10	16QAM	25	0	20.93			21.8		
10	16QAM	25	12	20.57					
10	16QAM	25	25	20.80					
10	256QAM	1	0	18.40			19.8		
10	256QAM	1	49	18.40					
10	256QAM	25	0	18.31					
10	256QAM	25	12	18.39			19.8		
10	256QAM	25	25	18.34					
10	256QAM	50	0	18.29					
Channel 2330									
Frequency (MHz)									
5	QPSK	1	0	23.23	23.26	23.30	24.8		
5	QPSK	1	12	23.42	23.31	23.40			
5	QPSK	1	24	23.60	23.32	23.35			
5	QPSK	12	0	22.30	22.33	22.38	23.8		
5	QPSK	12	7	22.55	22.54	22.50			
5	QPSK	12	14	22.60	22.53	22.40			
5	QPSK	25	0	22.42	22.43	22.34	23.8		
5	16QAM	1	0	22.65	22.65	22.61			
5	16QAM	1	14	22.67	22.53	22.58			
5	16QAM	12	0	21.38	21.47	21.42	22.8		
5	16QAM	12	7	21.68	21.51	21.44			
5	16QAM	12	13	21.59	21.53	21.45			
5	16QAM	25	0	21.28	21.31	21.28	22.8		
5	16QAM	1	0	21.21	21.25	21.27			
5	16QAM	1	12	21.40	21.40	21.42			
5	16QAM	1	24	21.29	21.26	21.22	21.8		
5	16QAM	12	0	20.48	20.50	20.43			
5	16QAM	12	7	20.52	20.53	20.56			
5	16QAM	12	13	20.50	20.48	20.47	19.8		
5	256QAM	1	0	18.28	18.26	18.20			
5	256QAM	1	12	18.24	18.41	18.29			
5	256QAM	12	0	18.32	18.20	18.20	19.8		
5	256QAM	12	7	18.27	18.20	18.20			
5	256QAM	12	13	18.23	18.30	18.20			
5	256QAM	25	0	18.22	18.20	18.18			

Band 13_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 2330									
Frequency (MHz)									
10	QPSK	1	0	22.28			23.3		
10	QPSK	1	25	22.32					
10	QPSK	1	49	22.28					
10	QPSK	25	0	22.10			23.3		
10	QPSK	25	12	22.20					
10	QPSK	25	25	22.19					
10	QPSK	50	0	22.14			23.3		
10	16QAM	1	0	21.67					
10	16QAM	1	25	22.11					
10	16QAM	1	49	22.06			22.3		
10	16QAM	25	0	21.50					
10	16QAM	25	12	21.07					
10	16QAM	25	25	21.30			22.3		
10	16QAM	50	0	21.20					
10	16QAM	50	12	21.20					
10	16QAM	1	25	21.39			22.3		
10	16QAM	1	49	21.38					
10	16QAM	25	0	20.97					
10	16QAM	25	12	20.11			21.3		
10	16QAM	25	25	20.42					
10	16QAM	50	0	20.09					
10	256QAM	1	0	18.90			19.3		
10	256QAM	1	25	18.92					
10	256QAM	25	0	17.99					
10	256QAM	25	12	17.85			19.3		
10	256QAM	25	25	17.84					
10	256QAM	50	0	17.88					
Channel 2331									
Frequency (MHz)									
5	QPSK	1	0	22.18	22.16	22.25	23.3		
5	QPSK	1	12	22.20	22.30	22.30			
5	QPSK	1	24	22.13	22.17	22.19			
5	QPSK	12	0	22.00	22.07	22.06	23.3		
5	QPSK	12	7	22.27	22.19	22.19			
5	QPSK	12	13	22.11	22.18	22.05			
5	QPSK	25	0	22.08	22.07	22.07	23.3		
5	16QAM	1	0	21.74	21.79	21.84			
5	16QAM	1	12	22.10	21.98	22.05			
5	16QAM	12	0	21.60	21.62	21.60	22.3		
5	16QAM	12	7	21.62	21.64	21.64			
5	16QAM	12	13	21.18	21.19	21.24			
5	16QAM	25	0	21.13	21.14	21.08	22.3		
5	16QAM	1	0	21.13	21.10	21.07			
5	16QAM	1	12	21.20	21.32	21.28			
5	16QAM	1	24	21.36	21.30	21.33	22.3		
5	16QAM	12	0	19.99	20.04	19.92			
5	16QAM	12	7	20.00	20.09	20.06			
5	16QAM	12	13	20.15	20.09	20.22	21.3		
5	256QAM	1	0	17.99	17.88	17.87			
5	256QAM	1	12	17.95	17.88	17.86			
5	256QAM	12	0	17.91	17.80	17.80	19.3		
5	256QAM	12	7	17.84	17.81	17.86			
5	256QAM	12	13	17.87	17.87	17.88			
5	256QAM	25	0	17.78	17.76	17.78			

Band 17_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 2360									
Frequency (MHz)									
10	QPSK	1	0	23.43	23.78	23.45	25		
10	QPSK	1	25	23.75	23.68	23.71			
10	QPSK	1	49	23.65	23.66	23.68			
10	QPSK	25	0	22.60	22.65	22.64	24		
10	QPSK	25	12	22.75	22.78	22.74			
10	QPSK	25	25	22.75	22.72	22.67			
10	QPSK	50	0	22.73	22.75	22.71	24		
10	16QAM	1	0	22.87	22.73	22.88			
10	16QAM	1	25	22.85	22.83	22.78			
10	16QAM	1	49	22.99	22.78	22.98	23		
10	16QAM	25	0	21.69	21.66	21.72			
10	16QAM	25	12	21.79	21.67	21.88			
10	16QAM	25	25	21.79	21.67	21.88	23		
10	16QAM	50	0	21.70	21.66	21.64			
10	16QAM	50	12	21.79	21.67	21.73			
10	16QAM	1	25	21.51	21.50	21.55	23		
10	16QAM	1	49	21.83	21.78	22.01			
10	16QAM	25	0	20.61	20.70	20.63			
10	16QAM	25	12	20.77	20.52	20.82	22		
10	16QAM	25	25	20.76	20.74	20.69			
10	16QAM	50	0	20.73	20.66	20.57			
10	256QAM	1	0	18.45	18.50	18.47	20		
10	256QAM	1	25	18.46	18.56	18.45			
10	256QAM	25	0	18.50	18.51	18.49			
10	256QAM	25	12	18.54	18.48	18.48	20		
10	256QAM	25	25	18.54	18.50	18.50			
10	256QAM	50	0	18.49	18.48	18.51			
Channel 2361									
Frequency (MHz)									
5	QPSK	1	0	23.32	23.75	23.44	25		
5	QPSK	1	12	23.71	23.72	23.69			
5	QPSK	1	24	23.60	23.61	23.51			
5	QPSK	12	0	22.55	22.55	22.62	24		
5	QPSK	12	7	22.74	22.75	22.67			
5	QPSK	12	13	22.64	22.72	22.66			
5	QPSK	25	0	22.71	22.73	22.64	24		
5	16QAM	1	0	22.74	22.67	22.75			
5	16QAM	1	12	22.80	22.81	22.89			
5	16QAM	12	0	21.81	21.52	21.62	23		
5	16QAM	12	7	21.68	21.77	21.65			
5	16QAM	12	13	21.84	21.62	21.62			
5	16QAM	25							





Band 26(FCC)_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)			
Channel 20970										
Frequency (MHz)										
15	QPSK	1	0	23.79	23.66	23.71	25			
15	QPSK	1	37	23.62	23.50	23.73				
15	QPSK	74	24	23.88	23.80	23.93				
15	QPSK	36	0	22.71	22.58	22.65				
15	QPSK	36	20	22.68	22.52	22.65	24			
15	QPSK	39	29	22.84	22.82	22.85				
15	QPSK	75	0	22.80	22.78	22.77				
15	QPSK	1	0	23.14	23.05	23.28				
15	16QAM	1	0	23.15	23.10	23.21	24			
15	16QAM	1	74	23.00	22.80	23.08				
15	16QAM	36	0	21.75	21.69	21.62				
15	16QAM	39	29	21.88	21.87	21.92				
15	16QAM	36	20	21.86	21.76	21.78	23			
15	16QAM	39	29	21.99	21.85	22.06				
15	16QAM	1	37	21.90	21.71	21.93				
15	16QAM	1	74	21.81	21.70	22.04				
15	16QAM	36	0	20.60	20.47	20.69	22			
15	16QAM	36	20	20.79	20.50	20.81				
15	16QAM	39	29	20.84	20.77	20.82				
15	16QAM	75	0	20.94	20.75	20.76				
15	256QAM	1	0	18.53	18.53	18.54	20			
15	256QAM	1	37	18.51	18.56	18.58				
15	256QAM	1	74	18.47	18.41	18.53				
15	256QAM	36	0	18.60	18.60	18.53				
15	256QAM	36	20	18.60	18.53	18.60	20			
15	256QAM	39	29	18.57	18.53	18.60				
15	256QAM	75	0	18.47	18.46	18.51				
15	256QAM	75	0	18.47	18.46	18.51				
Channel 20976										
Frequency (MHz)										
10	QPSK	1	0	23.70	23.60	23.67	25			
10	QPSK	1	25	23.63	23.79	23.66				
10	QPSK	14	0	23.88	23.80	23.84				
10	QPSK	35	0	22.80	22.59	22.58				
10	QPSK	35	12	22.81	22.77	22.73	24			
10	QPSK	35	22	22.72	22.65	22.62				
10	QPSK	50	0	22.69	22.73	22.67				
10	16QAM	1	0	23.03	23.04	23.03				
10	16QAM	1	49	22.97	22.87	23.00	23			
10	16QAM	25	0	21.61	21.66	21.60				
10	16QAM	25	25	21.75	21.66	21.64				
10	16QAM	25	25	21.82	21.75	21.76				
10	16QAM	50	0	21.61	21.54	21.57	23			
10	16QAM	50	0	21.68	21.58	21.61				
10	16QAM	50	25	21.77	21.69	21.62				
10	16QAM	1	49	21.84	21.58	21.56				
10	16QAM	1	0	20.47	20.33	20.36	22			
10	16QAM	25	12	20.74	20.72	20.30				
10	16QAM	25	25	20.62	20.72	20.78				
10	16QAM	50	0	20.78	20.84	20.81				
10	256QAM	1	0	18.46	18.42	18.52	20			
10	256QAM	1	49	18.42	18.48	18.41				
10	256QAM	25	0	18.52	18.53	18.46				
10	256QAM	25	25	18.55	18.59	18.57				
10	256QAM	50	0	18.44	18.54	18.42	20			
10	256QAM	50	0	18.44	18.54	18.42				
Channel 20982										
Frequency (MHz)										
5	QPSK	1	0	23.66	23.61	23.59	25			
5	QPSK	1	12	23.78	23.70	23.77				
5	QPSK	12	0	23.78	23.88	23.74				
5	QPSK	12	0	22.86	22.57	22.63				
5	QPSK	12	7	22.75	22.68	22.66	24			
5	QPSK	12	13	22.83	22.75	22.78				
5	QPSK	25	0	22.75	22.66	22.66				
5	16QAM	1	0	23.08	23.04	23.07				
5	16QAM	1	12	22.99	22.89	22.92	24			
5	16QAM	12	0	21.74	21.68	21.58				
5	16QAM	12	7	21.77	21.72	21.65				
5	16QAM	12	13	21.81	21.84	21.70				
5	16QAM	25	0	21.59	21.56	21.66	23			
5	16QAM	25	0	21.68	21.73	21.66				
5	16QAM	25	12	21.84	21.66	21.81				
5	16QAM	1	24	21.83	21.55	22.02				
5	16QAM	12	0	20.45	20.44	20.61	22			
5	16QAM	12	7	20.74	20.76	20.78				
5	16QAM	12	13	20.78	20.72	20.70				
5	16QAM	25	0	20.74	20.74	20.63				
5	256QAM	1	0	18.44	18.48	18.43	20			
5	256QAM	1	12	18.47	18.53	18.49				
5	256QAM	1	24	18.39	18.51	18.47				
5	256QAM	12	0	18.48	18.48	18.41				
5	256QAM	12	7	18.52	18.53	18.51	20			
5	256QAM	12	13	18.52	18.53	18.51				
5	256QAM	25	0	18.34	18.59	18.44				
5	256QAM	25	0	18.34	18.59	18.44				
Channel 20988										
Frequency (MHz)										
3	QPSK	1	0	23.66	23.64	23.62	25			
3	QPSK	1	8	23.67	23.69	23.74				
3	QPSK	14	0	23.74	23.86	23.83				
3	QPSK	8	4	22.79	22.72	22.71				
3	QPSK	8	7	22.78	22.65	22.61	24			
3	QPSK	15	0	22.71	22.62	22.69				
3	16QAM	1	0	23.01	22.92	22.84				
3	16QAM	1	24	23.14	23.05	23.08				
3	16QAM	1	14	22.91	22.75	23.06	24			
3	16QAM	8	0	21.71	21.65	21.59				
3	16QAM	8	4	21.84	21.78	21.69				
3	16QAM	8	7	21.72	21.65	21.75				
3	16QAM	15	0	21.65	21.57	21.68	23			
3	16QAM	15	0	21.67	21.74	21.69				
3	16QAM	1	8	21.81	21.61	21.88				
3	16QAM	1	14	21.79	21.59	22.02				
3	16QAM	8	0	20.46	20.40	20.65	22			
3	16QAM	8	4	20.72	20.69	20.67				
3	16QAM	8	7	20.63	20.66	20.67				
3	16QAM	15	0	20.62	20.74	20.63				
3	256QAM	1	0	18.44	18.38	18.46	20			
3	256QAM	1	8	18.46	18.54	18.49				
3	256QAM	1	14	18.37	18.47	18.41				
3	256QAM	8	0	18.58	18.56	18.39				
3	256QAM	8	4	18.24	18.49	18.59	20			
3	256QAM	8	7	18.44	18.47	18.47				
3	256QAM	15	0	18.42	18.63	18.46				
3	256QAM	15	0	18.42	18.63	18.46				
Channel 20994										
Frequency (MHz)										
1.4	QPSK	1	0	23.74	23.56	23.57	25			
1.4	QPSK	1	3	23.79	23.67	23.70				
1.4	QPSK	1	15	23.78	23.80	23.63				
1.4	QPSK	3	0	23.69	23.51	23.54				
1.4	QPSK	3	1	23.70	23.65	23.66	24			
1.4	QPSK	3	3	23.76	23.65	23.67				
1.4	QPSK	6	0	22.68	22.73	22.66				
1.4	16QAM	1	0	23.11	22.99	22.90				
1.4	16QAM	1	3	23.12	22.97	23.04	24			
1.4	16QAM	1	5	22.94	22.88	23.05				
1.4	16QAM	3	0	23.08	22.85	22.74				
1.4	16QAM	3	1	22.98	22.90	22.84				
1.4	16QAM	3	3	22.86	22.79	22.97	23			
1.4	16QAM	6	0	21.62	21.58	21.68				
1.4	16QAM	6	0	21.68	21.61	22.00				
1.4	16QAM	6	3	21.77	21.69	21.67				
1.4	16QAM	1	5	21.63	21.66	21.89	23			
1.4	16QAM	3	0	21.67	21.72	21.50				
1.4	16QAM	3	1	21.68	21.80	21.82				
1.4	16QAM	6	0	21.74	21.62	21.64				
1.4	16QAM	6	0	20.74	20.60	20.66	22			
1.4	256QAM	1	0	18.51	18.52	18.44				
1.4	256QAM	1	5	18.42	18.49	18.45				
1.4	256QAM	3	0	18.47	18.51	18.44				
1.4	256QAM	3	1	18.47	18.51	18.44	20			
1.4	256QAM	3	3	18.42	18.45	18.52				
1.4	256QAM	6	0	18.38	18.51	18.46				
1.4	256QAM	6	0	18.38	18.51	18.46				

Band 26(FCC)_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 20970									
Frequency (MHz)									
15	QPSK	1	0	21.97	21.84	21.87	23.3		
15	QPSK	1	37	22.02	22.09</				



Band 30_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)		
Channel 27173									
Frequency (MHz)									
10	QPSK	1	0	16.42	16.42	16.42	17.8		
10	QPSK	1	25	16.50	16.50	16.50	17.8		
10	QPSK	1	49	16.58	16.58	16.58	17.8		
10	QPSK	25	0	16.31	16.31	16.31	17.8		
10	QPSK	25	12	16.47	16.47	16.47	17.8		
10	QPSK	25	25	16.64	16.64	16.64	17.8		
10	QPSK	50	0	16.42	16.42	16.42	17.8		
10	QPSK	50	12	16.35	16.35	16.35	17.8		
10	QPSK	50	25	16.42	16.42	16.42	17.8		
10	QPSK	50	38	16.49	16.49	16.49	17.8		
10	QPSK	50	50	16.29	16.29	16.29	17.8		
10	QPSK	50	63	16.43	16.43	16.43	17.8		
10	QPSK	50	75	16.43	16.43	16.43	17.8		
10	QPSK	50	88	16.29	16.29	16.29	17.8		
10	QPSK	50	100	16.43	16.43	16.43	17.8		
10	QPSK	50	113	16.35	16.35	16.35	17.8		
10	QPSK	50	125	16.46	16.46	16.46	17.8		
10	QPSK	50	138	16.35	16.35	16.35	17.8		
10	QPSK	50	150	16.46	16.46	16.46	17.8		
10	QPSK	50	163	16.35	16.35	16.35	17.8		
10	QPSK	50	175	16.46	16.46	16.46	17.8		
10	QPSK	50	188	16.35	16.35	16.35	17.8		
10	QPSK	50	200	16.46	16.46	16.46	17.8		
10	QPSK	50	213	16.35	16.35	16.35	17.8		
10	QPSK	50	225	16.46	16.46	16.46	17.8		
10	QPSK	50	238	16.35	16.35	16.35	17.8		
10	QPSK	50	250	16.46	16.46	16.46	17.8		
10	QPSK	50	263	16.35	16.35	16.35	17.8		
10	QPSK	50	275	16.46	16.46	16.46	17.8		
10	QPSK	50	288	16.35	16.35	16.35	17.8		
10	QPSK	50	300	16.46	16.46	16.46	17.8		
10	QPSK	50	313	16.35	16.35	16.35	17.8		
10	QPSK	50	325	16.46	16.46	16.46	17.8		
10	QPSK	50	338	16.35	16.35	16.35	17.8		
10	QPSK	50	350	16.46	16.46	16.46	17.8		
10	QPSK	50	363	16.35	16.35	16.35	17.8		
10	QPSK	50	375	16.46	16.46	16.46	17.8		
10	QPSK	50	388	16.35	16.35	16.35	17.8		
10	QPSK	50	400	16.46	16.46	16.46	17.8		
10	QPSK	50	413	16.35	16.35	16.35	17.8		
10	QPSK	50	425	16.46	16.46	16.46	17.8		
10	QPSK	50	438	16.35	16.35	16.35	17.8		
10	QPSK	50	450	16.46	16.46	16.46	17.8		
10	QPSK	50	463	16.35	16.35	16.35	17.8		
10	QPSK	50	475	16.46	16.46	16.46	17.8		
10	QPSK	50	488	16.35	16.35	16.35	17.8		
10	QPSK	50	500	16.46	16.46	16.46	17.8		
10	QPSK	50	513	16.35	16.35	16.35	17.8		
10	QPSK	50	525	16.46	16.46	16.46	17.8		
10	QPSK	50	538	16.35	16.35	16.35	17.8		
10	QPSK	50	550	16.46	16.46	16.46	17.8		
10	QPSK	50	563	16.35	16.35	16.35	17.8		
10	QPSK	50	575	16.46	16.46	16.46	17.8		
10	QPSK	50	588	16.35	16.35	16.35	17.8		
10	QPSK	50	600	16.46	16.46	16.46	17.8		
10	QPSK	50	613	16.35	16.35	16.35	17.8		
10	QPSK	50	625	16.46	16.46	16.46	17.8		
10	QPSK	50	638	16.35	16.35	16.35	17.8		
10	QPSK	50	650	16.46	16.46	16.46	17.8		
10	QPSK	50	663	16.35	16.35	16.35	17.8		
10	QPSK	50	675	16.46	16.46	16.46	17.8		
10	QPSK	50	688	16.35	16.35	16.35	17.8		
10	QPSK	50	700	16.46	16.46	16.46	17.8		
10	QPSK	50	713	16.35	16.35	16.35	17.8		
10	QPSK	50	725	16.46	16.46	16.46	17.8		
10	QPSK	50	738	16.35	16.35	16.35	17.8		
10	QPSK	50	750	16.46	16.46	16.46	17.8		
10	QPSK	50	763	16.35	16.35	16.35	17.8		
10	QPSK	50	775	16.46	16.46	16.46	17.8		
10	QPSK	50	788	16.35	16.35	16.35	17.8		
10	QPSK	50	800	16.46	16.46	16.46	17.8		
10	QPSK	50	813	16.35	16.35	16.35	17.8		
10	QPSK	50	825	16.46	16.46	16.46	17.8		
10	QPSK	50	838	16.35	16.35	16.35	17.8		
10	QPSK	50	850	16.46	16.46	16.46	17.8		
10	QPSK	50	863	16.35	16.35	16.35	17.8		
10	QPSK	50	875	16.46	16.46	16.46	17.8		
10	QPSK	50	888	16.35	16.35	16.35	17.8		
10	QPSK	50	900	16.46	16.46	16.46	17.8		
10	QPSK	50	913	16.35	16.35	16.35	17.8		
10	QPSK	50	925	16.46	16.46	16.46	17.8		
10	QPSK	50	938	16.35	16.35	16.35	17.8		
10	QPSK	50	950	16.46	16.46	16.46	17.8		
10	QPSK	50	963	16.35	16.35	16.35	17.8		
10	QPSK	50	975	16.46	16.46	16.46	17.8		
10	QPSK	50	988	16.35	16.35	16.35	17.8		
10	QPSK	50	1000	16.46	16.46	16.46	17.8		
10	QPSK	50	1013	16.35	16.35	16.35	17.8		
10	QPSK	50	1025	16.46	16.46	16.46	17.8		
10	QPSK	50	1038	16.35	16.35	16.35	17.8		
10	QPSK	50	1050	16.46	16.46	16.46	17.8		
10	QPSK	50	1063	16.35	16.35	16.35	17.8		
10	QPSK	50	1075	16.46	16.46	16.46	17.8		
10	QPSK	50	1088	16.35	16.35	16.35	17.8		
10	QPSK	50	1100	16.46	16.46	16.46	17.8		
10	QPSK	50	1113	16.35	16.35	16.35	17.8		
10	QPSK	50	1125	16.46	16.46	16.46	17.8		
10	QPSK	50	1138	16.35	16.35	16.35	17.8		
10	QPSK	50	1150	16.46	16.46	16.46	17.8		
10	QPSK	50	1163	16.35	16.35	16.35	17.8		
10	QPSK	50	1175	16.46	16.46	16.46	17.8		
10	QPSK	50	1188	16.35	16.35	16.35	17.8		
10	QPSK	50	1200	16.46	16.46	16.46	17.8		
10	QPSK	50	1213	16.35	16.35	16.35	17.8		
10	QPSK	50	1225	16.46	16.46	16.46	17.8		
10	QPSK	50	1238	16.35	16.35	16.35	17.8		
10	QPSK	50	1250	16.46	16.46	16.46	17.8		
10	QPSK	50	1263	16.35	16.35	16.35	17.8		
10	QPSK	50	1275	16.46	16.46	16.46	17.8		
10	QPSK	50	1288	16.35	16.35	16.35	17.8		
10	QPSK	50	1300	16.46	16.46	16.46	17.8		
10	QPSK	50	1313	16.35	16.35	16.35	17.8		
10	QPSK	50	1325	16.46	16.46	16.46	17.8		
10	QPSK	50	1338	16.35	16.35	16.35	17.8		
10	QPSK	50	1350	16.46	16.46	16.46	17.8		
10	QPSK	50	1363	16.35	16.35	16.35	17.8		
10	QPSK	50	1375	16.46	16.46	16.46	17.8		
10	QPSK	50	1388	16.35	16.35	16.35	17.8		
10	QPSK	50	1400	16.46	16.46	16.46	17.8		
10	QPSK	50	1413	16.35	16.35	16.35	17.8		
10	QPSK	50	1425	16.46	16.46	16.46	17.8		
10	QPSK	50	1438	16.35	16.35	16.35	17.8		
10	QPSK	50	1450	16.46	16.46	16.46	17.8		
10	QPSK	50	1463	16.35	16.35	16.35	17.8		
10	QPSK	50	1475	16.46	16.46	16.46	17.8		
10	QPSK	50	1488	16.35	16.35	16.35	17.8		
10	QPSK	50	1500	16.46	16.46	16.46	17.8		
10	QPSK	50	1513	16.35	16.35	16.35	17.8		
10	QPSK	50	1525	16.46	16.46	16.46	17.8		
10	QPSK	50	1538	16.35	16.35	16.35	17.8		
10	QPSK	50	1550	16.46	16.46	16.46	17		



Band 66_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up Int. (dBm)		
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.80	19.82	19.86			
20	QPSK	1	49	19.84	19.82	19.89	20.3		
20	QPSK	1	98	19.83	19.82	19.83			
20	QPSK	50	0	19.77	19.83	19.86			
20	QPSK	50	24	19.80	19.80	19.87	20.3		
20	QPSK	50	49	19.74	19.83	19.75			
20	QPSK	100	0	19.76	19.86	19.84			
20	16QAM	1	0	19.72	19.74	19.71			
20	16QAM	1	49	19.82	19.70	19.85			
20	16QAM	1	99	19.76	19.85	19.76			
20	16QAM	50	0	19.73	19.71	19.73			
20	16QAM	50	24	19.87	19.72	19.83			
20	16QAM	50	49	19.73	19.77	19.85			
20	16QAM	100	0	19.78	19.74	19.75			
20	16QAM	100	24	19.75	19.74	19.85			
20	16QAM	100	49	19.75	19.85	19.85			
20	16QAM	1	99	19.72	19.74	19.72			
20	16QAM	50	0	19.86	19.74	19.81			
20	16QAM	50	24	19.85	19.84	19.72			
20	16QAM	50	49	19.82	19.79	19.84			
20	16QAM	100	0	19.73	19.70	19.84			
20	16QAM	100	24	19.82	19.72	19.81			
20	16QAM	100	49	19.10	19.21	19.14			
20	256QAM	1	0	19.85	19.18	19.18	19.8		
20	256QAM	1	49	19.11	19.18	19.18			
20	256QAM	1	99	19.21	19.22	19.15			
20	256QAM	50	0	19.21	19.18	19.11	19.8		
20	256QAM	50	24	19.18	19.15	19.15			
20	256QAM	50	49	19.23	19.10	19.21			
Channel									
Frequency (MHz)									
16	QPSK	1	0	19.76	19.70	19.84			
16	QPSK	1	37	19.70	19.81	19.79			
16	QPSK	1	74	19.80	19.72	19.83			
16	QPSK	36	0	19.72	19.72	19.73			
16	QPSK	36	20	19.69	19.87	19.72	20.3		
16	QPSK	36	40	19.71	19.86	19.81			
16	QPSK	75	0	19.63	19.79	19.76			
16	16QAM	1	0	19.66	19.80	19.68			
16	16QAM	37	0	19.73	19.71	19.73			
16	16QAM	1	74	19.84	19.68	19.63			
16	16QAM	36	0	19.67	19.67	19.66			
16	16QAM	36	39	19.69	19.69	19.63			
16	16QAM	75	0	19.70	19.65	19.60			
16	16QAM	75	1	19.67	19.71	19.61			
16	16QAM	1	37	19.72	19.88	19.71	20.3		
16	16QAM	1	74	19.83	19.70	19.60			
16	16QAM	36	0	19.67	19.68	19.60			
16	16QAM	36	39	19.66	19.70	19.60			
16	16QAM	75	0	19.65	19.70	19.60			
16	16QAM	75	1	19.65	19.61	19.63			
16	256QAM	1	0	19.61	19.07	19.01			
16	256QAM	1	37	19.65	19.08	19.08	19.8		
16	256QAM	1	74	19.10	19.07	19.11			
16	256QAM	36	0	19.11	19.19	19.12			
16	256QAM	36	39	19.11	19.15	19.08	19.8		
16	256QAM	75	0	19.15	19.13	19.06			
16	256QAM	75	1	19.18	19.02	19.14			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.75	19.77	19.80			
10	QPSK	1	25	19.82	19.80	19.82	20.3		
10	QPSK	1	50	19.83	19.82	19.83			
10	QPSK	25	0	19.84	19.69	19.79			
10	QPSK	25	12	19.69	19.77	19.86			
10	QPSK	25	25	19.69	19.86	19.86			
10	QPSK	50	0	19.85	19.83	19.76			
10	16QAM	1	0	19.87	19.85	19.83			
10	16QAM	1	49	19.87	19.84	19.87			
10	16QAM	25	0	19.65	19.63	19.59			
10	16QAM	25	12	19.64	19.65	19.57			
10	16QAM	25	25	19.70	19.65	19.67			
10	16QAM	50	0	19.67	19.67	19.66			
10	16QAM	50	24	19.74	19.77	19.75			
10	16QAM	50	49	19.81	19.84	19.82			
10	16QAM	100	0	19.69	19.84	19.82			
10	16QAM	100	24	19.81	19.84	19.82			
10	16QAM	100	49	19.85	19.75	19.86			
10	16QAM	1	99	19.81	19.84	19.82			
10	16QAM	25	12	19.65	19.74	19.82			
10	16QAM	25	25	19.69	19.75	19.86			
10	16QAM	50	0	19.60	19.16	19.04			
10	16QAM	50	24	19.67	19.67	19.57			
10	16QAM	50	49	19.71	19.65	19.62			
10	16QAM	100	0	19.21	19.19	19.15			
10	16QAM	100	24	19.20	19.19	19.15			
10	16QAM	100	49	19.21	19.15	19.07			
10	256QAM	1	0	19.19	19.01	19.00			
10	256QAM	1	25	19.19	19.02	19.02	20		
10	256QAM	1	50	19.19	19.02	19.02			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.78	20.83	20.84			
10	QPSK	1	25	21.01	21.02	20.95	21.5		
10	QPSK	1	50	20.83	20.82	20.83			
10	QPSK	25	0	20.78	20.81	20.92			
10	QPSK	25	12	20.91	20.90	20.97	21.5		
10	QPSK	25	25	20.82	20.83	20.84			
10	QPSK	50	0	20.91	20.86	20.76			
10	16QAM	1	0	20.63	20.68	20.79			
10	16QAM	1	25	20.62	20.67	20.83	21.5		
10	16QAM	1	50	20.77	20.85	20.72			
10	16QAM	25	0	20.67	20.75	20.81			
10	16QAM	25	12	20.78	20.78	20.83			
10	16QAM	25	25	20.72	20.87	20.75			
10	16QAM	50	0	20.77	20.79	20.75			
10	16QAM	50	24	20.79	20.79	20.75			
10	16QAM	50	49	20.79	20.79	20.83			
10	16QAM	100	0	20.78	21.02	20.86	21.5		
10	16QAM	100	24	20.86	20.87	20.77			
10	16QAM	100	49	20.86	20.87	20.83			
10	16QAM	25	12	20.79	20.79	20.73			
10	16QAM	25	25	20.74	20.79	20.75			
10	16QAM	50	0	20.78	20.85	20.83			
10	16QAM	50	24	20.79	20.74	20.73			
10	16QAM	50	49	20.78	20.81	20.83			
10	256QAM	1	0	19.00	19.14	19.03			
10	256QAM	1	25	19.16	19.08	19.07			
10	256QAM	1	50	19.04	19.07	19.03			
10	256QAM	25	0	19.12	19.17	19.07			
10	256QAM	25	12	19.08	19.07	19.07			
10	256QAM	25	25	19.07	19.09	19.10			
10	256QAM	50	0	19.19	19.04	19.06			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.78	20.85	20.85			
5	QPSK	1	12	20.95	20.99	20.92	21.5		
5	QPSK	1	25	20.83	20.82	20.83			
5	QPSK	12	0	20.80	20.84	20.86			
5	QPSK	12	7	20.86	20.87	20.95	21.5		
5	QPSK	12	14	20.83	20.88	20.86			
5	QPSK	25	0	20.84	20.87	20.81			
5	16QAM	1	0	20.63	20.68	20.76			
5	16QAM	1	12	20.69	20.67	20.83	21.5		
5	16QAM	1	25	20.77	20.80	20.82			
5	16QAM	12	0	20.64	20.77	20.75			
5	16QAM	12	7	20.81	20.81	20.83			
5	16QAM	12	14	20.72	20.87	20.81			
5	16QAM	25	0	20.81	20.87	20.86			
5	16QAM	25	7	20.77	20.73	20.89			
5	16QAM	1	12	20.84	20.80	20.84	21.5		
5	16QAM	1	25	20.80	20.73	20.79			





Band 38_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch1 (W)	Power Middle Ch1 (W)	Power High Ch1 (W)	Power Low Ch2 (W)	Power Middle Ch2 (W)	Power High Ch2 (W)	Tune-up (MHz)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.19	23.24	23.20				23.5
20	QPSK	1	40	23.17	23.22	23.22				23.5
20	QPSK	1	80	23.11	23.25	23.14				23.5
20	QPSK	50	0	23.04	23.19	23.11				23.5
20	QPSK	50	40	23.13	23.27	23.14				23.5
20	QPSK	50	80	23.05	23.12	23.07				23.5
20	QPSK	100	0	23.08	23.17	23.12				23.5
20	QPSK	100	40	23.07	23.19	23.10				23.5
20	QPSK	100	80	22.82	22.95	22.74				23
20	HQAM	1	0	22.85	22.96	22.78				23
20	HQAM	1	40	22.82	22.97	22.80				23
20	HQAM	50	0	21.80	21.73	21.65				22
20	HQAM	50	40	21.70	21.84	21.63				22
20	HQAM	50	80	21.82	21.78	21.81				22
20	HQAM	100	0	21.83	21.68	21.74				22
20	SSQAM	1	0	19.82	19.87	19.84				20
20	SSQAM	1	40	19.47	19.49	19.60				20
20	SSQAM	50	0	19.45	19.54	19.50				20
20	SSQAM	50	40	19.62	19.54	19.58				20
20	SSQAM	100	0	19.58	19.53	19.52				20
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.10	23.16	23.04				23.5
15	QPSK	1	37	23.22	23.29	23.23				23.5
15	QPSK	1	74	23.13	23.27	23.08				23.5
15	QPSK	36	0	22.98	23.10	23.02				23.5
15	QPSK	36	36	23.03	23.18	23.18				23.5
15	QPSK	36	72	23.08	23.08	23.04				23.5
15	QPSK	75	0	22.91	23.05	23.11				23.5
15	HQAM	1	0	22.94	23.09	23.04				23.5
15	HQAM	1	37	23.06	23.09	23.01				23.5
15	HQAM	1	74	22.87	23.10	23.10				23.5
15	HQAM	36	0	22.74	22.76	22.74				23
15	HQAM	36	36	22.77	22.92	22.84				23
15	HQAM	36	72	22.90	22.80	22.71				23
15	HQAM	75	0	22.79	22.81	22.75				23
15	HQAM	1	0	22.44	22.37	22.66				22
15	HQAM	1	74	22.70	22.64	22.55				22
15	HQAM	36	0	21.68	21.68	21.61				22
15	HQAM	36	36	21.55	21.72	21.77				22
15	HQAM	36	72	21.80	21.69	21.68				22
15	HQAM	75	0	21.69	21.67	21.62				22
15	SSQAM	1	0	19.42	19.48	19.48				20
15	SSQAM	1	37	19.52	19.44	19.61				20
15	SSQAM	1	74	19.47	19.49	19.58				20
15	SSQAM	36	0	19.42	19.44	19.54				20
15	SSQAM	36	36	19.48	19.40	19.51				20
15	SSQAM	75	0	19.55	19.40	19.48				20
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.16	23.16	23.04				23.5
10	QPSK	1	35	23.13	23.20	23.27				23.5
10	QPSK	1	69	23.09	23.19	23.50				23.5
10	QPSK	1	103	23.02	23.08	23.08				23.5
10	QPSK	25	12	23.10	23.20	23.14				23.5
10	QPSK	25	25	22.97	23.05	23.00				23.5
10	QPSK	25	37	23.05	23.16	23.08				23.5
10	HQAM	1	0	22.95	23.13	23.10				23.5
10	HQAM	1	25	23.13	23.12	23.08				23.5
10	HQAM	1	49	22.97	23.14	23.17				23.5
10	HQAM	25	0	22.82	22.77	22.60				23
10	HQAM	25	12	22.84	22.81	22.80				23
10	HQAM	25	25	22.85	22.85	22.75				23
10	HQAM	50	0	22.74	22.84	22.80				23
10	HQAM	1	0	22.87	23.05	23.10				23
10	HQAM	1	35	22.30	22.44	22.50				23
10	HQAM	1	69	22.73	22.95	22.97				23
10	HQAM	25	0	21.70	21.71	21.62				22
10	HQAM	25	12	21.68	21.74	21.70				22
10	HQAM	25	25	21.73	21.81	21.77				22
10	HQAM	50	0	21.72	21.68	21.71				22
10	SSQAM	1	0	19.47	19.56	19.56				20
10	SSQAM	1	25	19.49	19.34	19.48				20
10	SSQAM	1	49	19.45	19.55	19.48				20
10	SSQAM	25	0	19.42	19.39	19.40				20
10	SSQAM	25	12	19.50	19.40	19.56				20
10	SSQAM	25	25	19.38	19.44	19.52				20
10	SSQAM	50	0	19.48	19.50	19.52				20
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.16	23.20	23.10				23.5
5	QPSK	1	24	23.01	23.24	23.10				23.5
5	QPSK	12	0	23.02	23.05	23.05				23.5
5	QPSK	12	7	23.10	23.16	23.10				23.5
5	QPSK	12	13	22.91	22.98	22.92				23.5
5	QPSK	25	0	22.96	23.15	23.00				23.5
5	HQAM	1	0	22.90	23.12	23.07				23.5
5	HQAM	1	12	23.03	23.07	22.90				23.5
5	HQAM	1	24	22.94	23.04	22.90				23.5
5	HQAM	12	0	22.86	22.75	22.67				23
5	HQAM	12	7	22.83	22.85	22.88				23
5	HQAM	12	13	22.87	22.71	22.74				23
5	HQAM	25	0	22.80	22.93	22.91				23
5	HQAM	1	0	22.78	22.42	22.72				23
5	HQAM	1	12	22.83	22.46	22.68				23
5	HQAM	1	24	22.79	22.53	22.47				23
5	HQAM	12	0	21.79	21.58	21.53				22
5	HQAM	12	7	21.62	21.63	21.62				22
5	HQAM	12	13	21.71	21.74	21.70				22
5	HQAM	25	0	21.82	21.82	21.87				22
5	SSQAM	1	0	19.45	19.46	19.60				20
5	SSQAM	1	12	19.33	19.46	19.50				20
5	SSQAM	1	24	19.46	19.49	19.37				20
5	SSQAM	12	0	19.34	19.47	19.46				20
5	SSQAM	12	7	19.40	19.48	19.40				20
5	SSQAM	12	13	19.46	19.39	19.29				20
5	SSQAM	25	0	19.41	19.45	19.40				20

Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch1 (W)	Power Middle Ch1 (W)	Power High Ch1 (W)	Power Low Ch2 (W)	Power Middle Ch2 (W)	Power High Ch2 (W)	Tune-up (MHz)
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.59	19.67	19.66				20.3
20	QPSK	1	40	19.61	19.60	19.61				20.3
20	QPSK	1	80	19.62	19.78	19.70				20.3
20	QPSK	50	0	19.54	19.63	19.58				20.3
20	QPSK	50	40	19.52	19.78	19.74				20.3
20	QPSK	50	80	19.62	19.72	19.68				20.3
20	QPSK	100	0	19.68	19.70	19.65				20.3
20	QPSK	100	40	19.64	19.17	19.64				20.3
20	HQAM	1	0	19.57	19.70	19.57				20.3
20	HQAM	1	99	19.50	19.64	19.52				20.3
20	HQAM	50	0	19.73	19.72	19.65				20.3
20	HQAM	50	24	19.58	19.67	19.68				20.3
20	HQAM	50	48	19.62	19.68	19.64				20.3
20	HQAM	100	0	19.57	19.71	19.59				20.3
20	HQAM	1	0	19.49	19.64	19.57				20.3
20	HQAM	1	49	19.45	19.65	19.60				20.3
20	HQAM	1	99	19.64	19.68	19.67				20.3
20	HQAM	50	0	19.52	19.65	19.58				20.3
20	HQAM	50	24	19.50	19.62	19.63				20.3
20	HQAM	50	48	19.57	19.78	19.63				20.3
20	HQAM	100	0	19.54	19.65	19.55				20.3
20	SSQAM	1	0	19.62						



Band 41_Ant 5										
BW (MHz)	Modulation	RB (MHz)	RB Offset (MHz)	Power Low Ch (dBm)	Power High Ch (dBm)	Power Mid Ch (dBm)	Power Low Ch (dBm)	Power High Ch (dBm)	Power Mid Ch (dBm)	Turn-up (dBm)
Channel										
	Frequency (MHz)			2006	2045.5	2053	2053.5	2060	2060.5	2060
20	QPSK	1	0	24.38	24.31	24.37	24.40	24.20		24.8
20	QPSK	1	60	22.21	22.26	22.43	22.47	22.49		24.8
20	QPSK	1	96	24.46	24.59	24.50	24.35	24.32		24.8
20	QPSK	50	0	23.39	23.43	23.45	23.42	23.43		23.8
20	QPSK	50	24	23.43	23.43	23.45	23.42	23.43		23.8
20	QPSK	50	60	23.46	23.54	23.49	23.41	23.36		23.8
20	QPSK	100	0	23.42	23.38	23.56	23.40	23.56		23.8
20	QPSK	100	24	23.39	23.24	23.52	23.40	23.40		23.8
20	HQAM	1	48	23.32	23.33	23.38	23.33	23.33		23.8
20	HQAM	1	96	23.36	23.25	23.43	23.24	23.30		23.8
20	HQAM	50	24	22.47	22.59	22.64	22.54	22.58		22.8
20	HQAM	100	0	22.51	22.52	22.52	22.50	22.45		22.8
20	HQAM	1	0	22.23	22.34	22.41	22.25	22.27		22.8
20	HQAM	1	60	22.45	22.43	22.23	22.44	22.54		22.8
20	HQAM	1	96	22.54	22.27	22.63	22.62	22.62		22.8
20	HQAM	50	0	21.27	21.62	21.58	21.52	21.51		21.8
20	HQAM	50	24	21.42	21.66	21.52	21.54	21.58		21.8
20	HQAM	100	0	21.52	21.56	21.51	21.51	21.58		21.8
20	HQAM	100	24	21.52	21.56	21.51	21.51	21.58		21.8
20	HQAM	100	60	21.51	21.59	21.54	21.47	21.47		21.8
20	HQAM	1	0	19.93	19.95	19.96	19.97	19.99		19.8
20	HQAM	1	60	19.87	19.47	19.40	19.23	19.03		19.8
20	HQAM	50	0	19.32	19.45	19.42	19.49	19.49		19.8
20	HQAM	50	24	19.44	19.38	19.30	19.20	19.23		19.8
20	HQAM	100	0	19.60	19.48	19.47	19.47	19.53		19.8
Channel										
	Frequency (MHz)			3072	4073	4062	4108	4155		4100
20	QPSK	1	0	24.30	24.28	24.31	24.26	24.08		24.8
20	QPSK	1	37	24.52	24.48	24.41	24.40	24.40		24.8
20	QPSK	1	74	24.33	24.33	24.33	24.33	24.33		24.8
20	QPSK	36	0	23.38	23.30	23.37	23.32	23.33		24.8
20	QPSK	36	20	23.49	23.64	23.50	23.50	23.55		24.8
20	QPSK	36	40	23.42	23.48	23.32	23.47	23.53		24.8
20	QPSK	75	0	23.41	23.58	23.47	23.47	23.41		24.8
20	HQAM	1	0	23.31	23.33	23.40	23.35	23.37		23.8
20	HQAM	1	37	23.17	23.22	23.36	23.18	23.27		23.8
20	HQAM	1	74	23.35	23.30	23.32	23.32	23.32		23.8
20	HQAM	36	20	23.32	23.23	23.23	23.20	22.47		23.8
20	HQAM	36	59	22.40	22.23	22.28	22.29	22.37		23.8
20	HQAM	100	0	22.20	22.27	22.27	22.40	22.34		23.8
20	HQAM	1	0	21.24	21.54	21.48	21.40	21.42		21.8
20	HQAM	1	37	21.41	21.60	21.49	21.40	21.51		21.8
20	HQAM	1	74	21.42	21.41	21.48	21.41	21.41		21.8
20	HQAM	36	0	20.37	19.98	19.98	20.03	19.67		19.8
20	HQAM	36	20	19.87	19.86	19.85	19.87	19.87		19.8
20	HQAM	75	0	19.41	19.54	19.48	19.40	19.48		19.8
20	HQAM	75	20	19.40	19.48	19.34	19.47	19.53		19.8
20	HQAM	36	59	19.54	19.39	19.38	19.40	19.42		19.8
20	HQAM	75	0	19.60	19.44	19.48	19.33	19.53		19.8
Channel										
	Frequency (MHz)			5001	5047	5053	5053	5055		5050
20	QPSK	1	0	24.38	24.38	24.38	24.38	24.38		24.8
20	QPSK	1	60	24.45	24.45	24.44	24.43	24.43		24.8
20	QPSK	1	96	24.38	24.38	24.41	24.28	24.27		24.8
20	QPSK	1	24	24.45	24.45	24.45	24.45	24.45		24.8
20	QPSK	25	12	24.48	24.38	24.58	24.54	24.53		24.8
20	QPSK	25	36	24.32	24.44	24.48	24.50	24.50		24.8
20	HQAM	1	0	23.33	23.38	23.37	23.38	23.30		23.8
20	HQAM	1	60	23.33	23.38	23.37	23.38	23.30		23.8
20	HQAM	1	96	23.32	23.38	23.31	23.29	23.28		23.8
20	HQAM	1	24	23.31	23.32	23.29	23.28	23.28		23.8
20	HQAM	25	0	22.29	22.29	22.28	22.28	22.28		22.8
20	HQAM	25	12	22.46	22.55	22.48	22.48	22.41		22.8
20	HQAM	50	0	22.12	22.23	22.23	22.48	22.41		22.8
20	HQAM	50	24	22.46	22.49	22.40	22.37	22.30		22.8
20	HQAM	100	0	22.44	22.44	22.40	22.34	22.33		22.8
20	HQAM	1	0	22.42	22.42	22.49	22.38	22.24		22.8
20	HQAM	1	60	21.22	21.60	21.52	21.40	21.24		21.8
20	HQAM	1	96	21.35	21.54	21.47	21.48	21.52		21.8
20	HQAM	50	0	21.38	21.52	21.53	21.43	21.38		21.8
20	HQAM	50	24	21.44	21.58	21.50	21.44	21.55		21.8
20	HQAM	100	0	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	24	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	60	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	96	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	120	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	156	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	192	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	228	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	264	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	300	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	336	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	372	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	408	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	444	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	480	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	516	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	552	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	588	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	624	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	660	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	696	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	732	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	768	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	804	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	840	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	876	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	912	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	948	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	984	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1020	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1056	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1092	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1128	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1164	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1200	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1236	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1272	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1308	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1344	21.55	21.59	21.58	21.55	21.54		21.8
20	HQAM	100	1380	21.55	21.59	21.58	21.55	21.54		21.8





Full & Default Power

n2_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	22.74	22.75	22.76	
40	PUSBPSK	1	108	22.82	22.83	22.84	25.4
40	PUSBPSK	1	214	22.73	22.77	22.79	
40	PUSBPSK	108	0	22.84	22.85	22.86	24.9
40	PUSBPSK	108	54	22.82	22.83	22.85	25.4
40	PUSBPSK	108	108	22.84	22.85	22.86	24.9
40	PUSBPSK	216	0	22.82	22.84	22.87	
40	QPSK	1	1	21.51	21.51	21.51	
40	QPSK	1	108	21.53	21.53	21.53	25.4
40	QPSK	1	214	21.54	21.57	21.59	
40	QPSK	108	0	21.55	21.55	21.56	24.4
40	QPSK	108	54	21.53	21.55	21.57	25.4
40	QPSK	108	108	21.55	21.55	21.56	24.4
40	QPSK	216	0	21.53	21.55	21.58	
40	QPSK	216	0	21.51	21.52	21.53	24.4
40	SSBQAM	1	1	21.44	21.57	21.58	22.9
40	SSBQAM	1	1	19.87	19.88	19.88	20.9
Channel							
Frequency (MHz)							
35	QPSK	1	1	24.00	24.04	23.95	25.4
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.81	24.82	24.84	25.4
Channel							
Frequency (MHz)							
26	QPSK	1	1	24.81	24.83	24.85	25.4
Channel							
Frequency (MHz)							
26	QPSK	1	1	23.97	24.05	23.97	25.4
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.94	23.99	24.05	25.4
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.00	24.00	23.98	25.4
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.93	23.98	24.04	25.4

n2_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	22.72	22.80	22.82	
40	PUSBPSK	1	108	22.81	22.81	22.85	25.2
40	PUSBPSK	1	214	22.80	22.78	22.69	
40	PUSBPSK	108	0	22.85	22.82	22.87	24.7
40	PUSBPSK	108	54	22.85	22.85	22.49	25.2
40	PUSBPSK	108	108	22.85	22.46	22.42	
40	PUSBPSK	216	0	22.85	22.80	22.69	24.7
40	QPSK	1	1	21.71	21.82	21.85	
40	QPSK	1	108	21.85	21.78	21.72	25.2
40	QPSK	1	214	21.85	21.89	21.75	
40	QPSK	108	0	21.80	21.78	21.80	24.2
40	QPSK	108	54	21.71	21.71	21.68	25.2
40	QPSK	108	108	21.75	21.76	21.68	24.2
40	QPSK	216	0	21.73	21.82	21.79	24.2
40	SSBQAM	1	1	21.72	21.80	21.71	24.2
40	SSBQAM	1	1	21.25	21.30	21.26	22.7
40	SSBQAM	1	1	19.13	19.28	19.13	20.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	23.72	23.78	23.65	25.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.71	23.68	23.65	25.2
Channel							
Frequency (MHz)							
26	QPSK	1	1	23.69	23.71	23.68	25.2
Channel							
Frequency (MHz)							
26	QPSK	1	1	23.00	23.00	23.00	25.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.00	23.00	23.00	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.73	23.76	23.74	25.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.64	23.73	23.76	25.2

n2_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	22.56	22.56	22.59	
40	PUSBPSK	1	108	22.54	22.55	22.54	24.7
40	PUSBPSK	1	214	22.42	22.50	22.40	
40	PUSBPSK	108	0	22.51	22.50	22.50	24.2
40	PUSBPSK	108	54	22.50	22.51	22.52	24.7
40	PUSBPSK	108	108	22.51	22.51	22.50	24.2
40	PUSBPSK	216	0	22.50	22.50	22.50	
40	QPSK	1	1	21.46	21.65	21.62	
40	QPSK	1	108	21.60	21.58	21.45	24.7
40	QPSK	1	214	21.40	21.45	21.55	
40	QPSK	108	0	21.59	21.55	21.52	23.7
40	QPSK	108	54	21.40	21.52	21.51	24.7
40	QPSK	108	108	21.49	21.55	21.42	23.7
40	QPSK	216	0	21.50	21.58	21.52	23.7
40	SSBQAM	1	1	21.54	21.65	21.51	23.7
40	SSBQAM	1	1	20.95	21.05	21.01	23.2
40	SSBQAM	1	1	18.98	18.95	18.87	20.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	23.34	23.65	23.54	24.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.40	23.60	23.60	24.7
Channel							
Frequency (MHz)							
26	QPSK	1	1	23.17	23.50	23.47	24.7
Channel							
Frequency (MHz)							
26	QPSK	1	1	23.00	23.00	23.00	24.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.18	23.43	23.40	24.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.45	23.62	23.55	24.7
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.34	23.55	23.48	24.7

n2_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	22.83	22.73	22.72	
40	PUSBPSK	1	108	22.84	22.84	22.81	25.2
40	PUSBPSK	1	214	22.80	22.82	22.80	
40	PUSBPSK	108	0	22.83	22.87	22.85	24.7
40	PUSBPSK	108	54	22.87	22.85	22.85	25.2
40	PUSBPSK	108	108	22.83	22.58	22.63	24.7
40	PUSBPSK	216	0	22.84	22.84	22.81	
40	QPSK	1	1	21.61	21.83	21.71	
40	QPSK	1	108	21.84	21.81	21.85	25.2
40	QPSK	1	214	21.80	21.83	21.71	
40	QPSK	108	0	21.80	21.85	21.70	24.2
40	QPSK	108	54	21.60	21.76	21.71	25.2
40	QPSK	108	108	21.69	21.88	21.65	24.2
40	QPSK	216	0	21.73	21.79	21.71	24.2
40	SSBQAM	1	1	21.68	21.85	21.65	24.2
40	SSBQAM	1	1	21.25	21.33	21.37	22.7
40	SSBQAM	1	1	19.29	19.40	19.24	20.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	23.54	23.78	23.62	25.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.62	23.72	23.65	25.2
Channel							
Frequency (MHz)							
26	QPSK	1	1	23.62	23.72	23.72	25.2
Channel							
Frequency (MHz)							
26	QPSK	1	1	23.00	23.00	23.00	25.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.00	23.00	23.00	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.60	23.76	23.71	25.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.80	23.80	23.84	25.2



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch 1 Freq	Power Middle Ch 1 Freq	Power High Ch 1 Freq	Take-up loss (dBm)
Channel							
Frequency (MHz)							
20	PVQ BPSK	1	1	18.85	19.50	19.85	20.9
20	PVQ BPSK	1	53	21.95	22.70	23.20	25.4
20	PVQ BPSK	1	104	23.59	23.67	23.50	25.4
20	PVQ BPSK	50	0	22.90	22.85	22.80	24.9
20	PVQ BPSK	50	26	23.43	23.50	23.40	25.4
20	PVQ BPSK	50	50	22.95	22.91	22.90	24.9
20	PVQ BPSK	100	0	23.02	23.04	23.03	24.9
20	QPSK	1	1	21.30	21.40	21.45	25.4
20	QPSK	1	53	23.83	23.91	23.87	25.4
20	QPSK	1	104	23.90	23.94	23.91	25.4
20	QPSK	50	0	22.30	22.30	22.30	24.4
20	QPSK	50	26	22.71	22.80	22.75	24.4
20	QPSK	50	50	22.85	22.76	22.90	24.4
20	QPSK	100	0	22.77	22.87	22.80	24.4
20	QPSK	50	0	22.85	22.87	22.76	24.2
20	QPSK	50	26	22.71	22.79	22.80	25.2
20	QPSK	50	50	22.74	22.86	22.90	24.2
20	QPSK	100	0	22.89	23.00	22.81	24.2
20	16QAM	1	1	22.77	22.87	22.80	24.2
20	16QAM	1	1	21.25	21.29	21.20	22.7
20	256QAM	1	1	19.26	19.42	19.38	20.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.83	23.94	23.93	25.4
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.87	23.87	23.87	25.4
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.90	23.91	23.87	25.4

n5_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch 1 Freq	Power Middle Ch 1 Freq	Power High Ch 1 Freq	Take-up loss (dBm)
Channel							
Frequency (MHz)							
20	PVQ BPSK	1	1	22.90	22.97	22.94	25.2
20	PVQ BPSK	1	53	23.52	23.47	23.41	25.2
20	PVQ BPSK	1	104	23.48	23.53	23.48	25.2
20	PVQ BPSK	50	0	22.80	22.80	22.80	24.7
20	PVQ BPSK	50	26	23.40	23.38	23.37	25.2
20	PVQ BPSK	50	50	22.85	22.76	22.90	24.7
20	PVQ BPSK	100	0	22.88	23.00	22.90	24.7
20	QPSK	1	1	21.31	21.91	21.86	25.2
20	QPSK	1	53	23.88	23.81	23.73	25.2
20	QPSK	1	104	23.77	23.87	23.80	25.2
20	QPSK	50	0	22.85	22.87	22.76	24.2
20	QPSK	50	26	22.71	22.79	22.80	25.2
20	QPSK	50	50	22.74	22.86	22.90	24.2
20	QPSK	100	0	22.89	23.00	22.81	24.2
20	16QAM	1	1	22.77	22.87	22.80	24.2
20	16QAM	1	1	21.25	21.29	21.20	22.7
20	256QAM	1	1	19.26	19.42	19.38	20.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.75	23.86	23.86	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.70	23.69	23.70	25.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.73	23.81	23.75	25.2

n7_Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch 1 Freq	Power Middle Ch 1 Freq	Power High Ch 1 Freq	Take-up loss (dBm)
Channel							
Frequency (MHz)							
50	PVQ BPSK	1	1	23.74	23.80	23.79	24.7
50	PVQ BPSK	1	134	23.36	23.38	23.39	24.7
50	PVQ BPSK	1	268	23.68	23.74	23.65	24.7
50	PVQ BPSK	150	0	23.00	23.00	23.00	24.2
50	PVQ BPSK	150	66	23.32	23.05	23.00	24.7
50	PVQ BPSK	150	135	22.92	22.93	22.91	24.2
50	PVQ BPSK	300	0	22.92	22.98	22.98	24.2
50	QPSK	1	1	21.31	21.88	21.78	24.7
50	QPSK	1	135	23.73	23.82	23.73	24.7
50	QPSK	1	268	23.76	23.80	23.71	24.7
50	QPSK	150	0	22.96	22.87	22.42	23.7
50	QPSK	150	66	23.00	22.85	22.80	24.7
50	QPSK	150	135	22.93	22.80	22.95	24.7
50	QPSK	300	0	22.87	22.82	22.87	24.7
50	16QAM	1	1	21.54	21.68	21.54	21.7
50	16QAM	1	1	21.03	21.05	21.14	22.2
50	256QAM	1	1	19.12	19.17	19.14	20.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.74	23.87	23.86	24.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	23.82	23.83	23.79	24.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.78	23.77	23.69	24.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.73	23.75	23.70	24.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.74	23.77	23.67	24.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.72	23.76	23.65	24.7
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.74	23.73	23.67	24.7

n7_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch 1 Freq	Power Middle Ch 1 Freq	Power High Ch 1 Freq	Take-up loss (dBm)
Channel							
Frequency (MHz)							
50	PVQ BPSK	1	1	22.72	22.86	22.83	24.2
50	PVQ BPSK	1	135	22.71	22.84	22.78	24.2
50	PVQ BPSK	1	268	22.85	22.88	22.83	24.2
50	PVQ BPSK	150	0	22.80	22.80	22.80	23.7
50	PVQ BPSK	150	66	23.75	22.88	22.84	24.2
50	PVQ BPSK	150	135	22.78	22.82	22.73	23.7
50	PVQ BPSK	300	0	22.92	22.93	22.91	23.7
50	QPSK	1	1	21.67	22.30	21.64	24.2
50	QPSK	1	135	22.68	22.82	22.73	24.2
50	QPSK	1	268	22.63	22.87	22.72	24.2
50	QPSK	150	0	21.60	21.61	21.58	23.2
50	QPSK	150	66	21.65	22.60	21.61	24.2
50	QPSK	150	135	21.58	21.72	21.69	23.2
50	QPSK	300	0	21.73	21.74	21.67	23.2
50	16QAM	1	1	21.68	21.70	21.60	23.2
50	16QAM	1	1	20.50	20.50	20.51	21.7
50	256QAM	1	1	18.68	18.18	18.66	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.76	22.84	22.70	24.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.65	22.84	22.81	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.72	22.76	22.72	24.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.78	22.83	22.82	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.76	22.84	22.70	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.77	22.81	22.77	24.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.79	22.87	22.73	24.2



n7_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
50	Pi/2 BPSK	1	1	25.59	25.64	25.69	
50	Pi/2 BPSK	1	1	25.58	25.58	25.58	24.2
50	Pi/2 BPSK	1	268	25.51	25.58	25.59	
50	Pi/2 BPSK	155	0	25.53	25.55	25.56	23.7
50	Pi/2 BPSK	155	64	25.47	25.61	25.67	24.2
50	Pi/2 BPSK	155	135	25.53	25.64	25.69	23.7
50	Pi/2 BPSK	219	0	25.59	25.69	25.73	
50	QPSK	1	1	25.61	25.72	25.81	
50	QPSK	1	135	25.52	25.67	25.78	24.2
50	QPSK	1	268	25.53	25.58	25.64	
50	QPSK	155	0	25.53	25.56	25.54	23.2
50	QPSK	155	64	25.48	25.63	25.68	24.2
50	QPSK	155	135	25.57	25.61	25.55	23.2
50	QPSK	219	0	25.55	25.68	25.74	
50	SSB-AM	1	1	25.55	25.54	25.54	23.2
50	SSB-AM	1	1	25.53	25.50	25.48	21.7
50	SSB-AM	1	1	25.61	25.55	25.49	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.89	25.84	25.81	24.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	25.58	25.58	25.58	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.55	25.56	25.56	Time-up limit (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.52	25.53	25.54	Time-up limit (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.50	25.58	25.69	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.53	25.68	25.84	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.53	25.58	25.64	24.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	25.62	25.67	25.58	24.2

n7_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
50	Pi/2 BPSK	1	1	25.52	25.58	25.62	
50	Pi/2 BPSK	1	155	25.35	25.42	25.35	24.2
50	Pi/2 BPSK	1	268	25.35	25.40	25.32	
50	Pi/2 BPSK	155	0	25.44	25.50	25.47	23.7
50	Pi/2 BPSK	155	64	25.35	25.41	25.27	24.2
50	Pi/2 BPSK	155	135	25.44	25.41	25.69	
50	Pi/2 BPSK	219	0	25.71	25.88	25.77	23.7
50	QPSK	1	1	25.41	25.47	25.37	
50	QPSK	1	135	25.35	25.42	25.35	24.2
50	QPSK	1	268	25.39	25.28	25.38	
50	QPSK	155	0	25.44	25.38	25.28	23.2
50	QPSK	155	64	25.45	25.43	25.51	24.2
50	QPSK	155	135	25.45	25.45	25.31	23.2
50	QPSK	219	0	25.39	25.40	25.39	
50	SSB-AM	1	1	25.39	25.44	25.28	23.2
50	SSB-AM	1	1	25.63	25.34	25.64	21.7
50	SSB-AM	1	1	25.74	25.94	25.88	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.33	25.45	25.22	24.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	25.37	25.35	25.21	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.31	25.35	25.31	Time-up limit (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.32	25.37	25.24	Time-up limit (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.43	25.42	25.32	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.32	25.32	25.27	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.31	25.32	25.22	24.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	25.40	25.36	25.65	Time-up limit (dBm)

n12_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
15	Pi/2 BPSK	1	1	25.48	25.47	25.54	
15	Pi/2 BPSK	1	40	25.53	25.55	25.54	25.4
15	Pi/2 BPSK	1	77	25.66	25.66	25.54	
15	Pi/2 BPSK	36	0	25.54	25.55	25.54	24.9
15	Pi/2 BPSK	36	22	25.59	25.52	25.59	25.4
15	Pi/2 BPSK	36	43	25.55	25.10	25.50	24.9
15	Pi/2 BPSK	75	0	25.55	25.62	25.57	
15	QPSK	1	1	25.45	25.76	25.47	
15	QPSK	1	40	25.49	25.27	25.44	25.4
15	QPSK	1	77	25.58	25.65	25.57	
15	QPSK	36	0	25.59	25.53	25.59	24.4
15	QPSK	36	22	25.58	25.65	25.68	25.4
15	QPSK	36	43	25.63	25.63	25.57	24.4
15	QPSK	75	0	25.53	25.57	25.52	14.4
15	SSB-AM	1	1	25.45	25.46	25.44	24.4
15	SSB-AM	1	1	25.04	25.15	25.11	22.9
15	SSB-AM	1	1	19.14	19.22	19.18	20.9
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.58	25.56	25.63	25.4
Channel							
Frequency (MHz)							
5	QPSK	1	1	25.50	25.65	25.81	25.4

n12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
15	Pi/2 BPSK	1	1	25.20	25.42	25.38	
15	Pi/2 BPSK	1	40	25.25	25.47	25.35	25.2
15	Pi/2 BPSK	1	77	25.34	25.42	25.38	
15	Pi/2 BPSK	36	0	25.78	25.84	25.81	24.7
15	Pi/2 BPSK	36	22	25.59	25.44	25.38	25.2
15	Pi/2 BPSK	36	43	25.79	25.29	25.82	
15	Pi/2 BPSK	75	0	25.74	25.84	25.71	24.7
15	QPSK	1	1	25.41	25.33	25.44	
15	QPSK	1	40	25.25	25.28	25.33	25.2
15	QPSK	1	77	25.28	25.30	25.32	
15	QPSK	36	0	25.33	25.47	25.37	24.2
15	QPSK	36	22	25.38	25.41	25.46	25.2
15	QPSK	36	43	25.38	25.38	25.33	24.2
15	QPSK	75	0	25.25	25.38	25.27	
15	SSB-AM	1	1	25.42	25.41	25.45	24.8
15	SSB-AM	1	1	20.85	20.88	20.90	22.7
15	SSB-AM	1	1	18.86	19.01	18.86	20.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.34	25.45	25.30	25.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	25.34	25.50	25.42	25.2





n30_Ant 5						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)
Channel						
Frequency (MHz)						
10	PV2 BPSK	1	1	23.21		
10	PV2 BPSK	1	36	23.21		25.2
10	PV2 BPSK	1	50	23.23		
10	PV2 BPSK	25	0	23.28		24.7
10	PV2 BPSK	25	14	23.25		25.2
10	PV2 BPSK	25	27	23.22		24.7
10	PV2 BPSK	50	0	23.23		
10	QPSK	1	1	23.32		25.2
10	QPSK	1	36	23.34		25.2
10	QPSK	1	50	23.25		
10	QPSK	25	0	23.30		24.2
10	QPSK	25	14	23.27		25.2
10	QPSK	25	27	23.34		24.2
10	QPSK	50	0	23.46		25.2
10	8QAM	1	1	23.46		25.2
10	8QAM	1	1	23.00		22.7
10	256QAM	1	1	18.15		20.7
Channel						
Frequency (MHz)						
5	QPSK	1	1	23.29	23.22	23.27

n30_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)
Channel						
Frequency (MHz)						
10	PV2 BPSK	1	1	22.82		
10	PV2 BPSK	1	36	22.79		24.2
10	PV2 BPSK	1	50	22.77		
10	PV2 BPSK	25	0	22.83		23.7
10	PV2 BPSK	25	14	22.72		24.2
10	PV2 BPSK	25	27	22.85		23.7
10	PV2 BPSK	50	0	22.73		
10	QPSK	1	1	22.86		24.2
10	QPSK	1	36	22.87		24.2
10	QPSK	1	50	22.72		
10	QPSK	25	0	23.88		23.2
10	QPSK	25	14	22.81		24.2
10	QPSK	25	27	23.88		23.2
10	QPSK	50	0	23.86		24.2
10	8QAM	1	1	21.00		23.2
10	8QAM	1	1	20.80		21.7
10	256QAM	1	1	18.75		19.7
Channel						
Frequency (MHz)						
5	QPSK	1	1	22.83	22.87	22.84

n66_Ant 5						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)
Channel						
Frequency (MHz)						
45	PV2 BPSK	1	1	22.86	22.89	22.87
45	PV2 BPSK	1	100	22.75	23.82	22.76
45	PV2 BPSK	1	240	22.81	22.83	22.80
45	PV2 BPSK	150	0	23.81	23.85	23.80
45	PV2 BPSK	150	60	23.55	23.58	23.43
45	PV2 BPSK	150	150	23.53	23.83	23.62
45	PV2 BPSK	240	0	23.82	23.82	23.80
45	QPSK	1	1	24.11	24.10	24.05
45	QPSK	1	100	24.04	24.10	24.02
45	QPSK	1	240	24.05	24.05	24.04
45	QPSK	150	0	23.00	23.15	23.02
45	QPSK	150	60	23.88	23.88	23.84
45	QPSK	150	150	23.09	23.12	23.08
45	QPSK	240	0	23.07	23.11	23.09
45	8QAM	1	1	21.23	21.15	21.08
45	8QAM	1	1	21.51	21.58	21.51
45	256QAM	1	1	19.45	19.55	19.47
Channel						
Frequency (MHz)						
40	QPSK	1	1	23.50	24.09	23.93
Channel						
Frequency (MHz)						
35	QPSK	1	1	23.97	24.06	23.90
Channel						
Frequency (MHz)						
30	QPSK	1	1	24.02	24.03	23.99
Channel						
Frequency (MHz)						
25	QPSK	1	1	24.02	24.02	23.99
Channel						
Frequency (MHz)						
20	QPSK	1	1	24.03	24.03	23.99
Channel						
Frequency (MHz)						
15	QPSK	1	1	24.02	24.02	23.99
Channel						
Frequency (MHz)						
10	QPSK	1	1	24.04	24.00	23.99
Channel						
Frequency (MHz)						
5	QPSK	1	1	24.00	24.04	24.00

n66_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)
Channel						
Frequency (MHz)						
45	PV2 BPSK	1	1	22.87	22.81	22.86
45	PV2 BPSK	1	100	22.76	22.73	22.80
45	PV2 BPSK	1	240	22.88	22.81	22.74
45	PV2 BPSK	150	0	23.86	23.88	23.80
45	PV2 BPSK	150	60	23.54	23.51	23.58
45	PV2 BPSK	150	150	23.72	23.88	23.81
45	PV2 BPSK	240	0	23.80	23.89	23.88
45	QPSK	1	1	24.11	24.05	24.06
45	QPSK	1	100	24.05	24.05	24.00
45	QPSK	1	240	24.11	24.17	24.04
45	QPSK	150	0	23.13	23.09	23.20
45	QPSK	150	60	23.88	24.05	24.02
45	QPSK	150	150	23.11	23.12	23.05
45	QPSK	240	0	23.11	23.15	23.11
45	8QAM	1	1	20.21	20.11	20.06
45	8QAM	1	1	21.44	21.54	21.43
45	256QAM	1	1	19.52	19.62	19.55
Channel						
Frequency (MHz)						
40	QPSK	1	1	23.87	23.94	23.86
Channel						
Frequency (MHz)						
35	QPSK	1	1	23.88	24.01	23.86
Channel						
Frequency (MHz)						
30	QPSK	1	1	23.94	23.97	23.90
Channel						
Frequency (MHz)						
25	QPSK	1	1	23.94	23.97	23.90
Channel						
Frequency (MHz)						
20	QPSK	1	1	23.94	23.97	23.90
Channel						
Frequency (MHz)						
15	QPSK	1	1	23.93	23.94	23.90
Channel						
Frequency (MHz)						
10	QPSK	1	1	23.89	23.95	23.90
Channel						
Frequency (MHz)						
5	QPSK	1	1	23.96	24.00	23.94



n66_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)				346000	349000	351000	
45	PUSC BPSK	1	1	1725	1745	1770	
45	PUSC BPSK	1	1	22.72	22.74	22.88	
45	PUSC BPSK	1	1	22.72	22.80	22.78	25.2
45	PUSC BPSK	100	0	21.87	21.88	21.87	24.7
45	PUSC BPSK	100	60	22.48	22.53	22.45	25.2
45	PUSC BPSK	100	120	21.44	21.58	21.40	24.7
45	PUSC BPSK	240	0	21.58	21.62	21.58	
45	QPSK	1	1	17.14	18.05	19.37	
45	QPSK	1	1	23.80	23.85	23.85	25.2
45	QPSK	1	240	23.87	24.01	23.84	
45	QPSK	100	0	22.83	22.91	22.84	24.2
45	QPSK	100	60	22.88	22.95	22.85	25.2
45	QPSK	100	120	22.92	23.00	22.84	24.2
45	QPSK	240	0	23.08	23.15	23.07	
45	SSBAM	1	1	20.07	20.02	20.09	24.2
45	SSBAM	1	1	21.38	21.58	21.37	22.7
45	SSBAM	1	1	19.38	19.42	19.30	20.7
Channel							
Frequency (MHz)				345000	348000	350000	
40	QPSK	1	1	1730	1745	1760	
40	QPSK	1	1	23.79	24.03	23.83	25.2
Channel							
Frequency (MHz)				345000	348000	350000	
35	QPSK	1	1	1725	1745	1760	
35	QPSK	1	1	23.89	23.83	23.76	25.2
Channel							
Frequency (MHz)				345000	349000	350000	
30	QPSK	1	1	1725	1745	1760	
30	QPSK	1	1	23.82	23.81	23.79	25.2
Channel							
Frequency (MHz)				345000	349000	350000	
26	QPSK	1	1	1722.5	1745	1760	
26	QPSK	1	1	23.70	23.70	23.70	25.2
Channel							
Frequency (MHz)				345000	349000	350000	
15	QPSK	1	1	1717.5	1745	1772.5	
15	QPSK	1	1	23.84	23.87	23.85	25.2
Channel							
Frequency (MHz)				345000	349000	350000	
10	QPSK	1	1	1715	1745	1775	
10	QPSK	1	1	23.85	23.84	23.87	25.2
Channel							
Frequency (MHz)				345000	349000	350000	
5	QPSK	1	1	1712.5	1745	1777.5	
5	QPSK	1	1	23.92	24.04	23.84	25.2

n66_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)				346500	349000	350500	
45	PUSC BPSK	1	1	1732.5	1745	1777.5	
45	PUSC BPSK	1	1	22.80	23.00	22.80	
45	PUSC BPSK	1	100	22.87	22.94	22.84	25.4
45	PUSC BPSK	1	240	23.85	23.92	23.84	
45	PUSC BPSK	100	0	21.72	21.80	21.78	24.0
45	PUSC BPSK	100	60	22.70	22.87	22.68	25.4
45	PUSC BPSK	100	120	21.67	21.77	21.70	24.9
45	PUSC BPSK	240	0	21.81	21.84	21.77	
45	QPSK	1	1	17.14	18.33	19.47	
45	QPSK	1	100	24.60	24.17	24.14	25.4
45	QPSK	1	240	24.10	24.31	24.25	
45	QPSK	100	0	23.12	23.31	23.16	24.4
45	QPSK	100	60	23.05	23.15	23.05	25.4
45	QPSK	100	120	23.05	23.31	23.15	24.4
45	QPSK	240	0	23.31	23.34	23.29	
45	SSBAM	1	1	20.46	20.36	20.25	24.4
45	SSBAM	1	1	21.50	21.64	21.60	22.9
45	SSBAM	1	1	19.51	19.84	19.64	20.9
Channel							
Frequency (MHz)				345500	348000	350000	
40	QPSK	1	1	1730	1745	1760	
40	QPSK	1	1	24.25	24.25	24.12	25.4
Channel							
Frequency (MHz)				345500	348000	350000	
35	QPSK	1	1	1727.5	1745	1762.5	
35	QPSK	1	1	24.20	24.22	24.16	25.4
Channel							
Frequency (MHz)				345500	349000	350000	
30	QPSK	1	1	1725	1745	1760	
30	QPSK	1	1	24.18	24.30	24.19	25.4
Channel							
Frequency (MHz)				345500	349000	350000	
26	QPSK	1	1	1722.5	1745	1772.5	
26	QPSK	1	1	24.18	24.20	24.20	25.4
Channel							
Frequency (MHz)				345500	349000	350000	
15	QPSK	1	1	1717.5	1745	1777.5	
15	QPSK	1	1	24.21	24.23	24.23	25.4
Channel							
Frequency (MHz)				345500	349000	350000	
10	QPSK	1	1	1715	1745	1775	
10	QPSK	1	1	24.24	24.21	24.18	25.4
Channel							
Frequency (MHz)				345500	349000	350000	
5	QPSK	1	1	1712.5	1745	1777.5	
5	QPSK	1	1	24.20	24.18	24.20	25.4

n71_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)				138150	138150		
35	PUSC BPSK	1	1	680.5			
35	PUSC BPSK	1	1	21.98			
35	PUSC BPSK	1	90	21.95			25.2
35	PUSC BPSK	1	180	21.80			24.7
35	PUSC BPSK	60	0	21.80			24.7
35	PUSC BPSK	60	45	21.58			25.2
35	PUSC BPSK	90	0	21.81			24.7
35	PUSC BPSK	180	0	21.62			
35	QPSK	1	1	23.57			
35	QPSK	1	90	23.51			25.2
35	QPSK	1	180	23.32			
35	QPSK	90	0	22.40			24.2
35	QPSK	90	45	22.41			25.2
35	QPSK	90	90	22.35			24.2
35	QPSK	180	0	22.30			24.2
35	SSBAM	1	1	22.21			24.2
35	SSBAM	1	1	20.70			22.9
35	SSBAM	1	1	18.82			20.7
Channel							
Frequency (MHz)				138000	138000	138000	
30	QPSK	1	1	678	680.5	681	
30	QPSK	1	1	23.37	23.45	23.41	25.2
Channel							
Frequency (MHz)				138000	138000	138000	
25	QPSK	1	1	675.5	680.5	685.5	
25	QPSK	1	1	23.33	23.40	23.33	25.2
Channel							
Frequency (MHz)				138000	138000	138000	
20	QPSK	1	1	673	680.5	688	
20	QPSK	1	1	23.13	23.20	23.21	25.2
Channel							
Frequency (MHz)				138000	138000	138000	
15	QPSK	1	1	670.5	680.5	690.5	
15	QPSK	1	1	23.10	23.10	23.10	25.2
Channel							
Frequency (MHz)				138000	138000	138000	
10	QPSK	1	1	668	680.5	691	
10	QPSK	1	1	23.21	23.31	23.30	25.2
Channel							
Frequency (MHz)				138000	138000	138000	
5	QPSK	1	1	665.5	680.5	691.5	
5	QPSK	1	1	23.24	23.30	23.31	25.2

n71_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)				138100	138100		
35	PUSC BPSK	1	1	680.5			
35	PUSC BPSK	1	1	21.93			
35	PUSC BPSK	1	90	21.87			24.4
35	PUSC BPSK	1	180	21.72			23.0
35	PUSC BPSK	60	0	21.86			24.4
35	PUSC BPSK	60	45	21.53			24.4
35	PUSC BPSK	90	0	21.80			23.9
35	PUSC BPSK	180	0	21.62			
35	QPSK	1	1	23.89			
35	QPSK	1	90	23.82			24.4
35	QPSK	1	180	22.78			
35	QPSK	90	0	21.89			23.4
35	QPSK	90	45	22.67			24.4
35	QPSK	90	90	21.79			23.4
35	QPSK	180	0	21.71			
35	SSBAM	1	1	21.64			23.4
35	SSBAM	1	1	19.87			21.9
35	SSBAM	1	1	17.91			19.9
Channel							
Frequency (MHz)				138000	138000	138000	
30	QPSK	1	1	678	680.5	683	
30	QPSK	1	1	23.78	23.82	23.76	24.4
Channel							
Frequency (MHz)				138000	138000	138000	
25	QPSK	1	1	675.5	680.5	685.5	
25	QPSK	1	1	23.74	23.77	23.70	24.4
Channel							
Frequency (MHz)				138000	138000	138000	
20	QPSK	1	1	673	680.5	688	
20	QPSK	1	1	23.71	23.74	23.69	24.4
Channel							
Frequency (MHz)				138000	138000	138000	
15	QPSK	1	1	670.5	680.5	690.5	
15	QPSK	1	1	23.72	23.74	23.69	24.4
Channel							
Frequency (MHz)				138000	138000	138000	
10	QPSK	1	1	668	680.5	691	
10	QPSK	1	1	23.75	23.75	23.64	24.4
Channel							
Frequency (MHz)				138000	138000	138000	
5	QPSK	1	1	665.5	680.5	691.5	
5	QPSK						

n38_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				5160.02	5160.02	5160.98	
40	P1/2 BPSK	1	1	23.96	24.05	23.89	
40	P1/2 BPSK	1	53	23.92	23.95	23.82	25.4
40	P1/2 BPSK	1	104	23.86	24.08	24.04	
40	P1/2 BPSK	50	0	22.99	22.94	22.92	24.9
40	P1/2 BPSK	50	28	23.94	23.98	23.92	25.4
40	P1/2 BPSK	50	56	22.91	22.97	22.95	24.9
40	P1/2 BPSK	100	0	22.93	22.92	22.91	
40	QPSK	1	1	23.92	24.03	23.94	
40	QPSK	1	53	23.90	24.05	23.89	25.4
40	QPSK	1	104	23.92	24.03	23.94	
40	QPSK	50	0	23.12	23.14	23.07	24.4
40	QPSK	50	28	23.95	24.02	23.92	25.4
40	QPSK	50	56	22.91	22.93	22.92	24.4
40	QPSK	100	0	22.96	23.10	22.99	24.4
40	16QAM	1	1	22.97	23.07	22.97	24.4
40	16QAM	1	1	23.70	23.75	23.68	22.9
40	256QAM	1	1	19.79	19.80	19.74	20.9
Channel							
Frequency (MHz)				5170.02	5170.02	5170.98	
30	QPSK	1	1	23.90	23.98	23.95	25.4
Channel							
Frequency (MHz)				2582.52	2582.52	2587.48	
25	QPSK	1	1	24.00	24.01	23.94	25.4
Channel							
Frequency (MHz)				2590	2590	2590	
20	QPSK	1	1	24.00	24.05	23.98	25.4
Channel							
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	24.03	24.03	24.00	25.4
Channel							
Frequency (MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	24.58	24.03	24.51	25.4

n38_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2590.02	2595	2599.98	
40	P1/2 BPSK	1	1	23.67	23.79	23.67	
40	P1/2 BPSK	1	53	23.68	23.53	23.50	25.2
40	P1/2 BPSK	1	104	23.50	23.70	23.53	
40	P1/2 BPSK	50	0	22.71	22.80	22.71	24.7
40	P1/2 BPSK	50	28	23.65	23.64	23.51	25.2
40	P1/2 BPSK	50	56	22.72	22.76	22.70	24.7
40	P1/2 BPSK	100	0	22.71	22.74	22.72	
40	QPSK	1	1	23.65	23.90	23.61	
40	QPSK	1	53	23.80	23.93	23.85	25.2
40	QPSK	1	104	23.60	23.86	23.81	
40	QPSK	50	0	22.83	22.97	22.88	24.2
40	QPSK	50	28	23.62	23.88	23.75	25.2
40	QPSK	50	56	22.72	22.88	22.80	24.2
40	QPSK	100	0	22.73	22.94	22.81	24.2
40	16QAM	1	1	22.85	22.85	22.83	24.2
40	16QAM	1	1	21.43	21.62	21.49	22.7
40	256QAM	1	1	19.53	19.29	19.22	20.7
Channel							
Frequency (MHz)				5170.02	5170.02	5170.98	
30	QPSK	1	1	23.82	23.88	23.88	25.2
Channel							
Frequency (MHz)				2592.52	2595	2607.48	
25	QPSK	1	1	23.84	23.96	23.96	25.2
Channel							
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	23.92	23.90	23.93	25.2
Channel							
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	23.87	23.87	23.87	25.2
Channel							
Frequency (MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	23.85	23.59	23.85	25.2

n38_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2590.02	2595	2599.98	
40	P1/2 BPSK	1	1	24.23	24.20	24.19	
40	P1/2 BPSK	1	53	24.08	23.98	23.90	25.2
40	P1/2 BPSK	1	104	23.85	24.20	24.08	
40	P1/2 BPSK	50	0	23.04	23.12	23.03	24.7
40	P1/2 BPSK	50	28	24.17	24.18	24.02	25.2
40	P1/2 BPSK	50	56	22.95	23.00	23.03	24.7
40	P1/2 BPSK	100	0	22.96	22.99	22.95	
40	QPSK	1	1	24.15	24.23	24.21	
40	QPSK	1	53	24.31	24.40	24.30	25.2
40	QPSK	1	104	24.15	24.20	24.20	
40	QPSK	50	0	23.37	23.52	23.52	24.2
40	QPSK	50	28	24.24	24.20	24.24	25.2
40	QPSK	50	56	22.97	23.41	23.40	24.2
40	QPSK	100	0	23.29	23.46	23.36	24.2
40	16QAM	1	1	23.35	23.44	23.34	24.2
40	16QAM	1	1	21.92	22.10	22.00	22.7
40	256QAM	1	1	19.50	19.85	19.75	20.7
Channel							
Frequency (MHz)				5170.02	5170.02	5170.98	
30	QPSK	1	1	24.34	24.43	24.47	25.2
Channel							
Frequency (MHz)				2592.52	2595	2607.48	
25	QPSK	1	1	24.38	24.45	24.46	25.2
Channel							
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	24.37	24.41	24.43	25.2
Channel							
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	24.33	24.40	24.48	25.2
Channel							
Frequency (MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	24.32	24.40	24.39	25.2

n38_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2590.02	2595	2599.98	
40	P1/2 BPSK	1	1	24.27	24.32	24.18	
40	P1/2 BPSK	1	53	24.12	24.18	24.08	25.4
40	P1/2 BPSK	1	104	24.10	24.22	24.18	
40	P1/2 BPSK	50	0	23.03	23.15	23.05	24.9
40	P1/2 BPSK	50	28	24.16	24.18	24.05	25.4
40	P1/2 BPSK	50	56	23.11	23.14	23.04	24.9
40	P1/2 BPSK	100	0	23.07	23.07	23.05	
40	QPSK	1	1	24.15	24.18	24.15	
40	QPSK	1	53	24.35	24.48	24.35	25.4
40	QPSK	1	104	24.15	24.48	24.48	
40	QPSK	50	0	23.40	23.52	23.52	24.4
40	QPSK	50	28	24.34	24.45	24.31	25.4
40	QPSK	50	56	23.27	23.42	23.41	24.4
40	QPSK	100	0	23.38	23.47	23.37	24.4
40	16QAM	1	1	23.45	23.58	23.45	24.4
40	16QAM	1	1	22.08	22.17	22.09	22.9
40	256QAM	1	1	19.88	19.90	19.82	20.9
Channel							
Frequency (MHz)				5170.02	5170.02	5170.98	
30	QPSK	1	1	24.38	24.48	24.43	25.4
Channel							
Frequency (MHz)				2592.52	2595	2607.48	
25	QPSK	1	1	24.32	24.50	24.42	25.4
Channel							
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	24.33	24.44	24.45	25.4
Channel							
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	24.33	24.42	24.42	25.4
Channel							
Frequency (MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	24.35	24.05	24.40	25.4



FCC_n41_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PW-BPSK	1	1	24.10	24.14	24.00	
100	PW-BPSK	1	1	24.02	24.07	23.98	25.2
100	PW-BPSK	1	271	23.91	24.15	23.98	
100	PW-BPSK	155	0	24.04	24.17	23.94	25.2
100	PW-BPSK	155	0	24.06	24.06	23.90	25.2
100	PW-BPSK	155	158	23.44	24.07	23.80	25.2
100	PW-BPSK	270	1	23.72	24.12	23.90	
100	QPSK	1	137	23.71	24.06	23.90	25.2
100	QPSK	1	271	23.68	24.10	23.90	
100	QPSK	155	0	23.80	24.07	23.90	25.2
100	QPSK	155	0	23.82	24.13	23.90	25.2
100	QPSK	155	158	23.67	24.07	23.80	25.2
100	QPSK	270	0	23.67	24.10	23.67	25.2
100	16QAM	1	1	23.37	24.12	23.90	25.2
100	16QAM	1	1	23.46	23.92	22.90	25.2
100	256QAM	1	1	20.20	21.42	21.57	20.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.78	24.00	23.90	25.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.77	24.01	23.80	25.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.78	24.10	23.80	25.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.20	24.10	23.90	25.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.85	24.09	23.90	25.2
Channel							
Frequency (MHz)							
45	QPSK	1	1	23.73	24.10	23.90	25.2
Channel							
Frequency (MHz)							
45	QPSK	1	1	23.71	24.09	23.90	25.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	23.81	24.11	23.90	25.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.74	24.04	23.90	25.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.70	24.00	23.90	25.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.80	24.11	23.90	25.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.82	24.05	23.90	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.82	24.00	23.90	25.2

FCC_n41(HPUe)_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PW-BPSK	1	1	24.86	25.11	25.17	
100	PW-BPSK	1	137	25.09	25.20	25.12	27.7
100	PW-BPSK	1	271	25.04	25.21	25.04	
100	PW-BPSK	155	0	25.08	25.19	25.12	27.7
100	PW-BPSK	155	0	25.04	25.11	25.11	27.7
100	PW-BPSK	155	158	25.01	25.11	25.04	27.7
100	PW-BPSK	270	1	24.85	25.10	25.07	
100	QPSK	1	137	25.01	25.21	25.08	27.7
100	QPSK	1	271	25.09	25.10	25.10	
100	QPSK	155	0	24.93	25.10	25.07	27.7
100	QPSK	155	0	24.95	25.10	25.04	27.7
100	QPSK	155	158	24.92	25.10	25.01	27.7
100	QPSK	270	0	24.88	25.10	25.07	27.7
100	16QAM	1	1	23.37	25.21	25.21	28.7
100	16QAM	1	1	23.44	24.92	24.90	25.2
100	256QAM	1	1	20.20	22.20	22.20	23.2
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.48	25.06	25.13	27.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.44	25.08	25.14	27.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.38	25.11	25.17	27.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.03	25.10	25.18	27.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.40	25.10	25.10	27.7
Channel							
Frequency (MHz)							
45	QPSK	1	1	24.39	25.10	25.10	27.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.40	25.07	25.12	27.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	24.39	25.10	25.12	27.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.38	25.14	25.08	27.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	24.39	25.10	25.18	27.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.42	25.08	25.10	27.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.43	25.06	25.08	27.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.39	25.06	25.09	27.7

FCC_n41_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PW-BPSK	1	1	22.91	23.31	23.32	
100	PW-BPSK	1	137	22.88	23.32	23.34	24.2
100	PW-BPSK	1	271	22.91	23.30	23.30	
100	PW-BPSK	155	0	22.82	23.35	23.31	24.2
100	PW-BPSK	155	0	22.82	23.31	23.35	24.2
100	PW-BPSK	155	158	22.89	23.30	23.34	24.2
100	PW-BPSK	270	0	22.89	23.35	23.30	
100	QPSK	1	137	22.89	23.38	23.20	24.2
100	QPSK	1	271	22.85	23.34	23.32	
100	QPSK	155	0	22.80	23.32	23.20	24.2
100	QPSK	155	0	22.82	23.32	23.20	24.2
100	QPSK	155	158	22.84	23.33	23.28	24.2
100	QPSK	270	0	22.88	23.34	23.28	24.2
100	16QAM	1	1	22.62	23.30	23.18	24.2
100	16QAM	1	1	21.12	22.45	22.28	23.7
100	256QAM	1	1	18.58	20.93	20.77	21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.69	23.20	23.35	24.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.88	23.30	23.37	24.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.83	23.32	23.38	24.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.89	23.37	23.30	24.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.87	23.37	23.35	24.2
Channel							
Frequency (MHz)							
45	QPSK	1	1	22.92	23.39	23.30	24.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.96	23.34	23.37	24.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.97	23.39	23.35	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.93	23.20	23.33	24.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.94	23.35	23.39	24.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.92	23.30	23.40	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.92	23.26	23.34	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.98	23.28	23.39	24.2

FCC_n41(HPUe)_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PW-BPSK	1	1	24.26	25.34	25.41	
100	PW-BPSK	1	137	25.28	25.31	25.37	28.7
100	PW-BPSK	1	271	25.31	25.30	24.88	
100	PW-BPSK	155	0	25.16	25.19	25.32	28.2
100	PW-BPSK	155	0	25.24	25.40	25.41	28.7
100	PW-BPSK	155	158	25.20	25.09	25.33	28.2
100	PW-BPSK	270	0	25.22	25.41	25.31	
100	QPSK	1	137	25.31	25.38	25.59	28.7
100	QPSK	1	271	25.28	25.30	25.31	
100	QPSK	155	0	25.15	25.14	25.11	28.7
100	QPSK	155	0	25.17	25.18	25.13	28.7
100	QPSK	155	158	24.93	25.18	24.11	28.7
100	QPSK	270	0	24.95	25.10	24.60	28.7
100	16QAM	1	1	22.62	24.58	24.62	25.7
100	16QAM	1	1	21.12	23.11	22.85	24.2
100	256QAM	1	1	18.58	21.52	21.58	22.2
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.28	25.31	25.30	28.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.26	25.29	25.29	28.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.23	25.31	25.32	28.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.27	25.32	25.31	28.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.27	25.32	25.32	28.7
Channel							
Frequency (MHz)							
45	QPSK	1	1	23.22	25.37	25.34	28.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.23	25.30	25.30	28.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	23.22	25.32	25.31	28.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.25	25.35	25.29	28.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.25	25.34	25.30	28.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.22	25.36	25.27	28.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.24	25.28	25.30	28.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.26	25.30	25.28	28.7





FCC_n41_Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	23.07	23.42	23.40	24.2
100	P12 BPSK	1	137	23.42	23.20	23.21	24.2
100	P12 BPSK	1	271	23.37	23.21	23.12	24.2
100	P12 BPSK	156	0	23.34	23.20	23.11	24.2
100	P12 BPSK	156	69	23.26	23.17	23.14	24.2
100	P12 BPSK	156	138	23.31	23.14	23.08	24.2
100	P12 BPSK	270	0	23.24	23.12	23.09	24.2
100	QPSK	1	1	23.33	23.29	23.22	24.2
100	QPSK	1	137	23.38	23.29	23.22	24.2
100	QPSK	1	271	23.32	23.28	23.24	24.2
100	QPSK	156	0	23.07	23.16	23.11	24.2
100	QPSK	156	69	23.24	23.13	23.12	24.2
100	QPSK	156	138	23.07	23.11	23.09	24.2
100	QPSK	270	0	23.28	23.17	23.00	24.2
100	16QAM	1	1	23.31	23.47	23.33	24.2
100	16QAM	1	1	23.76	23.63	23.31	23.2
100	256QAM	1	1	18.81	21.47	21.16	22.2
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.35	23.29	23.18	24.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.45	23.27	23.17	24.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.47	23.26	23.11	24.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.40	23.27	23.13	24.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.38	23.21	23.07	24.2
Channel							
Frequency (MHz)							
46	QPSK	1	1	22.41	23.10	23.10	24.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.45	23.13	23.00	24.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.44	23.14	23.13	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.48	23.27	23.17	24.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.38	23.28	23.16	24.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.40	23.34	23.07	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.38	23.27	23.15	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.38	23.28	23.17	24.2

FCC_n41(HPUe)_Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	23.58	23.30	23.25	26.7
100	P12 BPSK	1	137	23.51	23.22	23.21	26.7
100	P12 BPSK	1	271	23.22	23.27	23.23	26.7
100	P12 BPSK	156	0	23.26	23.20	23.16	26.7
100	P12 BPSK	156	69	23.27	23.30	23.24	26.7
100	P12 BPSK	156	138	23.01	23.22	23.20	26.7
100	P12 BPSK	270	0	23.26	23.21	23.20	26.7
100	QPSK	1	1	23.13	23.21	23.20	26.7
100	QPSK	1	137	24.80	23.29	23.21	26.7
100	QPSK	1	271	24.81	24.71	24.63	26.7
100	QPSK	156	0	23.81	24.11	24.25	26.7
100	QPSK	156	69	24.70	24.89	24.79	26.7
100	QPSK	156	138	23.81	23.81	23.77	26.7
100	QPSK	270	0	23.78	23.91	23.88	26.7
100	16QAM	1	1	21.31	24.31	24.76	22.7
100	16QAM	1	1	20.76	23.02	23.11	24.2
100	256QAM	1	1	18.81	21.83	21.58	22.2
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.41	23.19	23.13	26.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.30	23.19	23.06	26.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.44	23.14	23.13	26.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.47	23.14	23.10	26.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.43	23.16	23.07	26.7
Channel							
Frequency (MHz)							
46	QPSK	1	1	22.43	23.18	23.07	26.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.48	23.23	23.13	26.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.44	23.16	23.08	26.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.35	23.19	23.16	26.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.40	23.24	23.16	26.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.41	23.17	23.10	26.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.38	23.24	23.15	26.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.45	23.21	23.11	26.7

FCC_n41_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	23.42	23.40	23.45	24.7
100	P12 BPSK	1	137	23.45	23.31	23.30	24.7
100	P12 BPSK	1	271	23.40	23.40	23.33	24.7
100	P12 BPSK	156	0	23.31	23.30	23.30	24.7
100	P12 BPSK	156	69	23.40	23.30	23.27	24.7
100	P12 BPSK	156	138	23.32	23.31	23.30	24.7
100	P12 BPSK	270	0	23.32	23.32	23.48	24.7
100	QPSK	1	1	23.52	23.50	23.44	24.7
100	QPSK	1	137	23.52	23.50	23.44	24.7
100	QPSK	1	271	23.41	23.44	23.30	24.7
100	QPSK	156	0	23.01	23.31	23.17	24.7
100	QPSK	156	69	23.35	23.30	23.34	24.7
100	QPSK	156	138	23.34	23.27	23.11	24.7
100	QPSK	270	0	23.34	23.30	23.30	24.7
100	16QAM	1	1	22.10	23.54	23.46	24.7
100	16QAM	1	1	21.09	23.11	22.87	24.7
100	256QAM	1	1	18.32	21.53	21.44	22.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.77	23.37	23.35	24.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.94	23.43	23.31	24.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.78	23.36	23.31	24.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.84	23.30	23.33	24.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.80	23.32	23.30	24.7
Channel							
Frequency (MHz)							
46	QPSK	1	1	22.80	23.32	23.37	24.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.81	23.38	23.35	24.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.84	23.41	23.32	24.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.84	23.41	23.36	24.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.81	23.43	23.32	24.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.86	23.44	23.38	24.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.83	23.37	23.38	24.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.91	23.43	23.31	24.7

FCC_n41(HPUe)_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	24.11	23.72	23.63	27.2
100	P12 BPSK	1	137	23.77	23.68	23.71	27.2
100	P12 BPSK	1	271	23.71	23.68	23.60	27.2
100	P12 BPSK	156	0	23.78	23.73	23.64	27.2
100	P12 BPSK	156	69	23.72	23.73	23.70	27.2
100	P12 BPSK	156	138	23.63	23.57	23.40	26.7
100	P12 BPSK	270	0	23.66	23.66	23.67	27.2
100	QPSK	1	1	23.90	23.73	23.68	27.2
100	QPSK	1	137	23.83	23.73	23.66	27.2
100	QPSK	1	271	23.72	23.71	23.62	27.2
100	QPSK	156	0	23.75	24.34	24.21	26.2
100	QPSK	156	69	23.23	23.27	23.11	27.2
100	QPSK	156	138	23.28	24.28	24.21	26.2
100	QPSK	270	0	24.29	24.33	24.31	26.2
100	16QAM	1	1	22.10	24.88	24.80	22.2
100	16QAM	1	1	21.09	23.08	23.01	24.7
100	256QAM	1	1	18.32	21.09	21.01	22.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.90	23.65	23.51	27.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.84	23.64	23.54	27.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.82	23.67	23.54	27.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.86	23.61	23.52	27.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.80	23.63	23.50	27.2
Channel							
Frequency (MHz)							
46	QPSK	1	1	22.80	23.67	23.63	27.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.84	23.63	23.57	27.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.84	23.66	23.49	27.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.80	23.65	23.51	27.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.81	23.67	23.55	27.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.88	23.65	23.52	27.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.91	23.65	23.54	27.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.87	23.59	23.54	27.2

Part96_n48_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
40	P102 BPSK	1	1	24.07	24.11	24.99	
40	P102 BPSK	1	53	24.16	24.18	24.11	25.2
40	P102 BPSK	1	104	24.21	24.11	24.86	
40	P102 BPSK	50	0	21.19	21.28	21.18	24.7
40	P102 BPSK	50	28	24.17	24.18	24.12	25.2
40	P102 BPSK	50	56	21.19	21.20	21.17	24.7
40	P102 BPSK	100	0	21.14	21.25	21.18	
40	QPSK	1	1	24.00	24.02	24.91	
40	QPSK	1	53	24.01	24.14	24.91	25.2
40	QPSK	1	104	24.00	24.12	24.90	
40	QPSK	50	0	20.89	20.80	20.77	24.2
40	QPSK	50	28	24.02	24.07	24.14	25.2
40	QPSK	50	56	20.84	20.77	20.87	24.2
40	QPSK	100	0	20.86	20.81	20.78	23.2
40	16QAM	1	1	23.94	23.18	23.14	24.2
40	16QAM	1	1	21.74	21.78	21.80	22.7
40	256QAM	1	1	19.57	19.72	19.80	20.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.95	24.14	24.91	25.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.00	24.15	24.91	25.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.02	24.14	24.09	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.99	24.10	24.14	25.2

Part96_n48_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
40	P102 BPSK	1	1	23.68	23.71	23.84	
40	P102 BPSK	1	53	23.72	23.73	23.72	24.7
40	P102 BPSK	1	104	23.77	23.78	23.74	
40	P102 BPSK	50	0	21.10	21.24	21.13	24.2
40	P102 BPSK	50	28	23.74	23.76	23.74	25.7
40	P102 BPSK	50	56	21.10	21.22	21.18	24.2
40	P102 BPSK	100	0	21.08	21.12	21.08	
40	QPSK	1	1	23.71	23.70	23.71	
40	QPSK	1	53	23.61	23.75	23.83	24.7
40	QPSK	1	104	23.59	23.67	23.63	
40	QPSK	50	0	20.58	20.68	20.58	23.7
40	QPSK	50	28	23.68	23.69	23.64	24.7
40	QPSK	50	56	20.58	20.70	20.60	23.7
40	QPSK	100	0	20.65	20.66	20.78	21.7
40	16QAM	1	1	23.08	23.20	23.18	23.7
40	16QAM	1	1	21.62	21.68	21.64	22.2
40	256QAM	1	1	19.68	19.70	19.89	20.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.71	23.88	23.89	24.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.61	23.73	23.89	24.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.74	23.78	23.85	24.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.74	23.73	23.82	24.7

Part96_n48_Ant 11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
40	P102 BPSK	1	1	23.07	24.12	24.02	
40	P102 BPSK	1	53	24.02	24.18	24.02	25.2
40	P102 BPSK	1	104	24.08	24.21	24.18	
40	P102 BPSK	50	0	21.86	21.89	21.94	24.7
40	P102 BPSK	50	28	24.21	24.23	24.17	25.2
40	P102 BPSK	50	56	21.20	21.77	21.72	24.7
40	P102 BPSK	100	0	21.19	21.69	21.22	
40	QPSK	1	1	24.00	24.00	24.00	
40	QPSK	1	53	24.16	24.18	24.16	25.2
40	QPSK	1	104	24.16	24.11	24.08	
40	QPSK	50	0	21.05	21.08	21.01	24.2
40	QPSK	50	28	24.02	24.18	24.02	25.2
40	QPSK	50	56	21.09	21.19	21.19	24.2
40	QPSK	100	0	21.15	21.20	21.14	22.2
40	16QAM	1	1	23.05	23.08	23.00	24.2
40	16QAM	1	1	22.07	22.18	22.04	22.7
40	256QAM	1	1	20.09	20.15	20.11	20.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.08	24.23	24.21	25.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.06	24.15	24.22	25.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.16	24.19	24.20	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.06	24.22	24.22	25.2

Part96_n48_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
40	P102 BPSK	1	1	23.13	23.16	23.02	
40	P102 BPSK	1	53	23.05	23.10	23.08	23.7
40	P102 BPSK	1	104	23.12	23.13	23.06	
40	P102 BPSK	50	0	20.81	20.86	20.80	23.2
40	P102 BPSK	50	28	23.01	23.08	23.05	23.7
40	P102 BPSK	50	56	20.88	20.89	20.84	23.2
40	P102 BPSK	100	0	20.88	20.79	20.84	
40	QPSK	1	1	23.00	23.13	23.00	
40	QPSK	1	53	22.99	23.10	23.02	23.7
40	QPSK	1	104	23.00	23.08	23.00	
40	QPSK	50	0	19.97	20.10	20.02	22.7
40	QPSK	50	28	22.92	23.03	22.95	23.7
40	QPSK	50	56	19.97	20.13	19.92	22.7
40	QPSK	100	0	20.18	20.20	20.30	20.7
40	16QAM	1	1	22.51	22.65	22.45	22.7
40	16QAM	1	1	21.04	21.17	20.99	21.2
40	256QAM	1	1	19.18	19.17	18.92	19.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.02	23.15	23.10	23.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.08	23.10	23.01	23.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.00	23.06	23.01	23.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.96	23.14	23.08	23.7



Part27Q_n77_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	24.17			25.2
100	P1/2 BPSK	1	137	24.22			25.2
100	P1/2 BPSK	1	271	24.26			25.2
100	P1/2 BPSK	156	0	24.32			25.2
100	P1/2 BPSK	156	68	24.36			25.2
100	P1/2 BPSK	156	138	24.42			25.2
100	P1/2 BPSK	270	0	24.47			25.2
100	QPSK	1	137	24.43			25.2
100	QPSK	1	271	24.42			25.2
100	QPSK	156	0	24.22			25.2
100	QPSK	156	68	24.24			25.2
100	QPSK	156	138	24.32			25.2
100	QPSK	270	0	24.32			25.2
100	16QAM	1	1	24.18			25.2
100	16QAM	1	1	23.85			25.2
100	256QAM	1	1	21.85			22.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.11	24.19	24.14	25.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.20	24.43	24.19	25.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.10	24.41	24.11	25.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.14	24.33	24.20	25.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.23	24.44	24.21	25.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.31	24.52	24.30	25.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.09	24.22	24.15	25.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	24.08	24.18	24.14	25.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.21	24.40	24.23	25.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.18	24.23	24.14	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.20	24.10	24.18	25.2

Part27O_n77_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	23.93	23.82	23.78	25.2
100	P1/2 BPSK	1	137	23.82	23.82	23.83	25.2
100	P1/2 BPSK	1	271	23.86	23.88	23.89	25.2
100	P1/2 BPSK	156	0	23.88	23.79	23.89	25.2
100	P1/2 BPSK	156	68	23.95	23.74	23.86	25.2
100	P1/2 BPSK	156	138	23.84	23.87	23.76	25.2
100	P1/2 BPSK	270	0	23.87	23.85	23.83	25.2
100	QPSK	1	137	23.81	23.74	23.78	25.2
100	QPSK	1	271	23.85	23.83	23.78	25.2
100	QPSK	156	0	23.85	23.79	23.79	25.2
100	QPSK	156	68	23.94	23.75	23.78	25.2
100	QPSK	156	138	23.83	23.75	23.79	25.2
100	QPSK	270	0	23.92	23.77	23.79	25.2
100	16QAM	1	1	23.98	23.86	23.75	25.2
100	16QAM	1	1	23.66	23.45	23.40	24.7
100	256QAM	1	1	21.59	21.30	21.48	22.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.89	23.83	23.82	25.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.86	23.74	23.86	25.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.98	23.79	23.84	25.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.94	23.73	23.83	25.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.88	23.81	23.82	25.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.89	23.89	23.89	25.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.92	23.83	23.77	25.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.95	23.79	23.83	25.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.97	23.87	23.75	25.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.95	23.87	23.88	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.86	23.75	23.89	25.2

Part27Q_n77(HPUe)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	25.98			27.2
100	P1/2 BPSK	1	137	25.82			27.2
100	P1/2 BPSK	1	271	25.88			27.2
100	P1/2 BPSK	156	0	25.38			26.7
100	P1/2 BPSK	156	68	25.90			27.2
100	P1/2 BPSK	156	138	25.40			26.7
100	P1/2 BPSK	270	0	25.52			26.7
100	QPSK	1	137	26.22			27.2
100	QPSK	1	271	26.26			27.2
100	QPSK	156	0	24.68			26.3
100	QPSK	156	68	26.25			27.2
100	QPSK	156	138	24.74			26.2
100	QPSK	270	0	24.85			26.2
100	16QAM	1	1	25.32			26.2
100	16QAM	1	1	23.92			24.7
100	256QAM	1	1	21.85			22.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	26.24	26.28	26.12	27.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	26.15	26.18	26.11	27.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	26.12	26.28	26.17	27.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	26.14	26.23	26.18	27.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	26.21	26.27	26.19	27.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	26.17	26.16	26.07	27.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	26.15	26.14	26.08	27.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	26.13	26.13	26.09	27.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	26.13	26.21	26.17	27.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	26.18	26.21	26.20	27.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	26.20	26.20	26.07	27.2

Part27O_n77(HPUe)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	26.86	26.79	26.40	27.2
100	P1/2 BPSK	1	137	26.81	26.79	26.44	27.2
100	P1/2 BPSK	1	271	26.89	26.78	26.40	27.2
100	P1/2 BPSK	156	0	26.41	26.26	26.38	26.7
100	P1/2 BPSK	156	68	26.82	26.79	26.36	27.2
100	P1/2 BPSK	156	138	26.45	26.26	26.39	26.7
100	P1/2 BPSK	270	0	26.52	26.27	26.36	26.7
100	QPSK	1	137	26.71	26.81	26.41	27.2
100	QPSK	1	271	26.86	26.83	26.40	27.2
100	QPSK	156	0	24.91	24.82	24.37	26.2
100	QPSK	156	68	26.98	26.75	26.31	27.2
100	QPSK	156	138	24.94	24.71	24.44	26.2
100	QPSK	270	0	24.96	24.83	24.46	26.2
100	16QAM	1	1	24.99	24.79	24.37	26.2
100	16QAM	1	1	23.68	23.45	23.00	24.7
100	256QAM	1	1	21.50	21.30	21.08	22.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	26.88	26.78	26.30	27.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	26.94	26.82	26.29	27.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	26.94	26.75	26.37	27.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	26.93	26.87	26.27	27.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	26.91	26.89	26.34	27.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	26.90	26.85	26.30	27.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	26.92	26.86	26.30	27.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	26.94	26.84	26.32	27.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	26.90	26.82	26.36	27.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	26.94	26.85	26.36	27.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	26.91	26.76	26.32	27.2



Part27Q_n77_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Frequency (MHz)	Time-up Int (dBm)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.85	23.85	23.85		24.7	
100	PI2 BPSK	1	137	23.78	23.78	23.78			
100	PI2 BPSK	1	271	23.78	23.78	23.78			
100	PI2 BPSK	136	0	23.71	23.71	23.71		24.7	
100	PI2 BPSK	136	66	23.65	23.65	23.65		24.7	
100	PI2 BPSK	136	138	23.71	23.71	23.71		24.7	
100	PI2 BPSK	270	0	23.62	23.62	23.62		24.7	
100	QPSK	1	1	23.79	23.79	23.79		24.7	
100	QPSK	1	137	23.72	23.72	23.72		24.7	
100	QPSK	1	271	23.72	23.72	23.72		24.7	
100	QPSK	136	0	23.75	23.75	23.75		24.7	
100	QPSK	136	66	23.62	23.62	23.62		24.7	
100	QPSK	136	138	23.75	23.75	23.75		24.7	
100	QPSK	270	0	23.68	23.68	23.68		24.7	
100	16QAM	1	1	23.79	23.79	23.79		24.7	
100	16QAM	1	1	23.72	23.72	23.72		24.7	
100	256QAM	1	1	21.30	21.30	21.30		22.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.78	23.80	23.85		24.7	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.79	23.80	23.81		24.7	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.77	23.72	23.73		24.7	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.73	23.74	23.75		24.7	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.71	23.63	23.79		24.7	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.71	23.71	23.71		24.7	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.74	23.77	23.71		24.7	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.74	23.74	23.74		24.7	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.76	23.75	23.79		24.7	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.71	23.72	23.83		24.7	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.81	23.84	23.77		24.7	

Part27Q_n77_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Frequency (MHz)	Time-up Int (dBm)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.02	23.98	23.85		24.7	
100	PI2 BPSK	1	137	23.95	23.85	23.81		24.7	
100	PI2 BPSK	1	271	24.02	23.89	23.81		24.7	
100	PI2 BPSK	136	0	24.04	23.95	23.92		24.7	
100	PI2 BPSK	136	66	23.95	23.97	23.95		24.7	
100	PI2 BPSK	136	138	23.92	23.89	23.87		24.7	
100	PI2 BPSK	270	0	23.94	23.95	23.92		24.7	
100	QPSK	1	1	24.02	23.98	23.85		24.7	
100	QPSK	1	137	23.94	23.94	23.80		24.7	
100	QPSK	1	271	24.04	23.89	23.87		24.7	
100	QPSK	136	0	24.04	23.95	23.95		24.7	
100	QPSK	136	66	23.94	23.90	23.85		24.7	
100	QPSK	136	138	23.94	23.92	23.87		24.7	
100	QPSK	270	0	24.03	23.87	23.88		24.7	
100	16QAM	1	1	23.92	23.93	23.93		24.7	
100	16QAM	1	1	23.83	23.99	23.93		24.2	
100	256QAM	1	1	21.29	21.31	21.29		22.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.88	23.83	23.80		24.7	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.92	23.95	23.95		24.7	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.02	23.94	23.80		24.7	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.80	23.80	23.80		24.7	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.88	23.88	23.88		24.7	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.01	23.97	23.96		24.7	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.01	23.87	23.90		24.7	
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.01	23.85	23.84		24.7	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.03	23.88	23.83		24.7	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.02	23.88	23.91		24.7	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.93	23.91	23.88		24.7	

Part27Q_n77(HPUe)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Frequency (MHz)	Time-up Int (dBm)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.45	25.45	25.45		26.7	
100	PI2 BPSK	1	137	25.38	25.38	25.38		26.7	
100	PI2 BPSK	1	271	25.32	25.32	25.32		26.7	
100	PI2 BPSK	136	0	25.30	25.30	25.30		26.7	
100	PI2 BPSK	136	66	25.40	25.40	25.40		26.7	
100	PI2 BPSK	136	138	25.39	25.39	25.39		26.7	
100	PI2 BPSK	270	0	25.45	25.45	25.45		26.7	
100	QPSK	1	1	25.45	25.45	25.45		26.7	
100	QPSK	1	137	25.74	25.74	25.74		26.7	
100	QPSK	1	271	25.60	25.60	25.60		26.7	
100	QPSK	136	0	25.40	25.40	25.40		26.7	
100	QPSK	136	66	25.74	25.74	25.74		26.7	
100	QPSK	136	138	25.43	25.43	25.43		26.7	
100	QPSK	270	0	25.40	25.40	25.40		26.7	
100	16QAM	1	1	25.07	25.07	24.80		25.7	
100	16QAM	1	1	25.08	25.09	25.03		24.2	
100	256QAM	1	1	21.30	21.30	21.30		22.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.79	25.65	25.65		26.7	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.69	25.78	25.65		26.7	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.68	25.68	25.72		26.7	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.70	25.70	25.70		26.7	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.66	25.66	25.66		26.7	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.73	25.74	25.77		26.7	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.72	25.69	25.71		26.7	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.68	25.73	25.75		26.7	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.72	25.74	25.70		26.7	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.70	25.70	25.65		26.7	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.68	25.65	25.71		26.7	

Part27Q_n77(HPUe)_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Frequency (MHz)	Time-up Int (dBm)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.68	25.56	25.54		26.7	
100	PI2 BPSK	1	137	25.68	25.61	25.47		26.7	
100	PI2 BPSK	1	271	25.67	25.34	25.28		26.2	
100	PI2 BPSK	136	0	25.17	24.99	24.93		26.2	
100	PI2 BPSK	136	66	25.75	25.43	25.49		26.7	
100	PI2 BPSK	136	138	25.18	24.93	24.97		26.2	
100	PI2 BPSK	270	0	25.18	24.93	24.97		26.2	
100	QPSK	1	1	25.10	25.10	25.10		26.7	
100	QPSK	1	137	25.97	25.79	25.72		26.7	
100	QPSK	1	271	25.82	25.71	25.75		26.7	
100	QPSK	136	0	25.68	25.52	25.48		26.7	
100	QPSK	136	66	25.98	25.92	25.71		26.7	
100	QPSK	136	138	24.79	24.61	24.43		26.7	
100	QPSK	270	0	24.83	24.68	24.52		25.7	
100	16QAM	1	1	25.07	24.82	24.80		25.7	
100	16QAM	1	1	25.08	25.09	25.03		24.2	
100	256QAM	1	1	21.30	21.31	21.29		22.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.91	25.79	25.78		26.7	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.84	25.84	25.78		26.7	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.97	25.80	25.79		26.7	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.10	25.84	25.74		26.7	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.90	25.82	25.79		26.7	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.84	25.84	25.84		26.7	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.97	25.79	25.85		26.7	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.90	25.90	25.90		26.7	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.95	25.88	25.84		26.7	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.90	25.82	25.81		26.7	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.90	25.80	25.76		26.7	

Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.23					
100	PI2 BPSK	1	137	24.14					
100	PI2 BPSK	1	271	24.10			25.2		
100	PI2 BPSK	136	0	24.20			25.2		
100	PI2 BPSK	136	66	24.21			25.2		
100	PI2 BPSK	136	138	24.22			25.2		
100	PI2 BPSK	270	0	24.16			25.2		
100	QPSK	1	1	24.15					
100	QPSK	1	137	24.23			25.2		
100	QPSK	1	271	24.13			25.2		
100	QPSK	136	0	24.17			25.2		
100	QPSK	136	66	24.20			25.2		
100	QPSK	136	138	24.23			25.2		
100	QPSK	270	0	24.11			25.2		
100	16QAM	1	1	24.13			25.2		
100	16QAM	1	1	23.89			25.2		
100	256QAM	1	1	21.85			22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.23	24.11	24.12	25.2		
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.18	24.13	24.14	25.2		
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.11	24.21	24.17	25.2		
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.01	24.10	24.09	25.2		
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.11	24.22	24.14	25.2		
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.13	24.22	24.13	25.2		
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.17	24.17	24.21	25.2		
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.19	24.19	24.10	25.2		
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.20	24.23	24.20	25.2		
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.19	24.19	24.10	25.2		
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.24	24.23	24.24	25.2		

Part27O_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.42	24.21	24.31			
100	PI2 BPSK	1	137	24.33	24.28	24.33	25.2		
100	PI2 BPSK	1	271	24.46	24.29	24.31			
100	PI2 BPSK	136	0	24.38	24.35	24.30	25.2		
100	PI2 BPSK	136	66	24.33	24.31	24.29	25.2		
100	PI2 BPSK	136	138	24.32	24.30	24.32	25.2		
100	PI2 BPSK	270	0	24.36	24.24	24.36			
100	QPSK	1	1	24.37					
100	QPSK	1	137	24.44	24.25	24.35	25.2		
100	QPSK	1	271	24.46	24.34	24.36			
100	QPSK	136	0	24.38	24.35	24.35	25.2		
100	QPSK	136	66	24.44	24.35	24.40	25.2		
100	QPSK	136	138	24.43	24.35	24.38	25.2		
100	QPSK	270	0	24.44	24.28	24.38	25.2		
100	16QAM	1	1	24.44	24.34	24.32	25.2		
100	16QAM	1	1	24.10	23.89	24.08	24.7		
100	256QAM	1	1	22.09	21.91	22.04	22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.38	24.31	24.30	25.2		
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.35	24.30	24.27	25.2		
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.40	24.24	24.38	25.2		
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.40	24.24	24.30	25.2		
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.52	24.37	24.34	25.2		
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.52	24.37	24.34	25.2		
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.34	24.22	24.22	25.2		
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.52	24.29	24.33	25.2		
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.35	24.23	24.30	25.2		
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.33	24.28	24.33	25.2		
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.40	24.23	24.41	25.2		

Part27Q_n77(HPUe)_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.30					
100	PI2 BPSK	1	137	25.23			26.5		
100	PI2 BPSK	1	271	25.32			26.5		
100	PI2 BPSK	136	0	25.20			26.5		
100	PI2 BPSK	136	66	25.10			26.5		
100	PI2 BPSK	136	138	25.08			26.5		
100	PI2 BPSK	270	0	25.22			26.5		
100	QPSK	1	1	25.30					
100	QPSK	1	137	25.42			26.5		
100	QPSK	1	271	25.46			26.5		
100	QPSK	136	0	25.32			26.5		
100	QPSK	136	66	25.35			26.5		
100	QPSK	136	138	25.38			26.5		
100	QPSK	270	0	25.30			26.5		
100	16QAM	1	1	25.20			26.5		
100	16QAM	1	1	25.10			24.7		
100	256QAM	1	1	21.85			22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.48	25.49	25.43	26.5		
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.43	25.37	25.42	26.5		
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.58	25.38	25.55	26.5		
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.70	25.40	25.42	26.5		
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.86	25.52	25.50	26.5		
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.83	25.59	25.58	26.5		
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.41	25.39	25.48	26.5		
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.78	25.43	25.59	26.5		
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.40	25.36	25.58	26.5		
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.39	25.44	25.43	26.5		
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.38	25.35	25.44	26.5		

Part27O_n77(HPUe)_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.49	25.27	25.34			
100	PI2 BPSK	1	137	25.44	25.21	25.40	26.5		
100	PI2 BPSK	1	271	25.46	25.28	25.40			
100	PI2 BPSK	136	0	25.13	25.09	25.07	26.5		
100	PI2 BPSK	136	66	25.24	25.19	25.13	26.5		
100	PI2 BPSK	136	138	25.30	25.14	25.19	26.5		
100	PI2 BPSK	270	0	25.20	25.02	25.08			
100	QPSK	1	1	25.31					
100	QPSK	1	137	25.60	25.41	25.58	26.5		
100	QPSK	1	271	25.64	25.48	25.50			
100	QPSK	136	0	24.87	24.70	24.72	26.5		
100	QPSK	136	66	24.87	24.70	24.72	26.5		
100	QPSK	136	138	24.86	24.71	24.69	26.5		
100	QPSK	270	0	24.83	24.63	24.67	26.2		
100	16QAM	1	1	25.41	25.15	25.32	26.2		
100	16QAM	1	1	24.10	23.89	24.08	24.7		
100	256QAM	1	1	22.09	21.91	22.04	22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.83	25.59	25.59	26.5		
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.84	25.41	25.59	26.5		
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.88	25.40	25.59	26.5		
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.99	25.47	25.52	26.5		
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.01	25.60	25.60	26.5		
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.90	25.41	25.50	26.5		
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.54	25.39	25.57	26.5		
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.90	25.60	25.60	26.5		
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.67	25.43	25.58	26.5		
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.58	25.47	25.53	26.5		
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.87	25.40	25.54	26.5		

Part27Q_n77_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	23.14	23.13	23.02	24.2
100	Pi2 BPSK	1	137	23.16	23.14	23.06	24.2
100	Pi2 BPSK	1	271	23.10	23.14	22.98	24.2
100	Pi2 BPSK	136	0	23.11	23.24	23.02	24.2
100	Pi2 BPSK	136	66	23.06	23.11	22.97	24.2
100	Pi2 BPSK	136	138	23.13	23.18	23.06	24.2
100	Pi2 BPSK	270	0	23.13	23.22	23.01	24.2
100	QPSK	1	137	23.14	23.13	23.01	24.2
100	QPSK	1	271	23.16	23.18	23.06	24.2
100	QPSK	136	0	23.11	23.21	23.05	24.2
100	QPSK	136	66	23.06	23.12	23.06	24.2
100	QPSK	136	138	23.11	23.12	23.05	24.2
100	QPSK	270	0	23.07	23.22	23.06	24.2
100	16QAM	1	1	23.08	23.22	23.02	24.2
100	64QAM	1	1	23.05	23.21	23.01	23.7
100	256QAM	1	1	23.78	23.83	23.61	21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.36	23.35	23.21	24.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.10	23.01	22.98	24.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.04	23.10	22.96	24.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.00	23.00	22.99	24.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.01	23.03	22.99	24.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.00	23.00	22.99	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.02	23.04	22.99	24.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.03	23.05	22.99	24.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.00	23.02	22.98	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.02	23.04	22.98	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.10	23.05	22.95	24.2

Part270_n77_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	23.21	23.13	23.02	24.2
100	Pi2 BPSK	1	137	23.34	23.24	23.06	24.2
100	Pi2 BPSK	1	271	23.32	23.14	22.98	24.2
100	Pi2 BPSK	136	0	23.22	23.24	23.02	24.2
100	Pi2 BPSK	136	66	23.25	23.11	22.97	24.2
100	Pi2 BPSK	136	138	23.33	23.18	23.06	24.2
100	Pi2 BPSK	270	0	23.22	23.22	23.01	24.2
100	QPSK	1	137	23.32	23.17	23.01	24.2
100	QPSK	1	271	23.36	23.18	23.06	24.2
100	QPSK	136	0	23.27	23.21	23.05	24.2
100	QPSK	136	66	23.32	23.12	23.06	24.2
100	QPSK	136	138	23.33	23.22	23.06	24.2
100	QPSK	270	0	23.34	23.22	23.06	24.2
100	16QAM	1	1	23.28	23.22	23.02	24.2
100	64QAM	1	1	23.29	23.21	23.01	23.7
100	256QAM	1	1	23.87	23.83	23.61	21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.28	23.35	23.21	24.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.25	23.14	22.95	24.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.17	23.18	22.96	24.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.22	23.16	22.93	24.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.17	23.23	23.04	24.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.20	23.12	22.90	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.18	23.20	22.93	24.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.21	23.19	23.01	24.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.30	23.11	22.98	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.29	23.09	22.95	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.27	23.08	22.91	24.2

Part27Q_n77(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	24.48	24.44	24.32	26.2
100	Pi2 BPSK	1	137	24.62	24.52	24.34	26.2
100	Pi2 BPSK	1	271	24.50	24.40	24.28	26.2
100	Pi2 BPSK	136	0	24.70	24.60	24.48	26.2
100	Pi2 BPSK	136	66	24.62	24.52	24.40	26.2
100	Pi2 BPSK	136	138	24.50	24.40	24.28	26.2
100	Pi2 BPSK	270	0	24.70	24.60	24.48	26.2
100	QPSK	1	137	24.58	24.48	24.36	26.2
100	QPSK	1	271	24.54	24.44	24.32	26.2
100	QPSK	136	0	24.65	24.55	24.43	26.2
100	QPSK	136	66	24.52	24.42	24.30	26.2
100	QPSK	136	138	24.48	24.38	24.26	26.2
100	QPSK	270	0	24.68	24.58	24.46	26.2
100	16QAM	1	1	24.48	24.41	24.19	25.2
100	64QAM	1	1	24.50	24.41	24.21	25.7
100	256QAM	1	1	24.78	24.78	24.57	21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.18	25.17	25.11	26.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.07	25.13	25.16	26.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.00	25.08	25.13	26.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.16	25.09	25.13	26.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.07	25.14	25.09	26.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.13	25.07	25.09	26.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.13	25.18	25.09	26.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	25.19	25.08	25.09	26.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.11	25.17	25.09	26.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.14	25.19	25.16	26.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.07	25.13	25.05	26.2

Part270_n77(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	26.06	24.94	24.82	26.2
100	Pi2 BPSK	1	137	26.00	24.85	24.74	26.2
100	Pi2 BPSK	1	271	26.18	25.03	24.78	26.2
100	Pi2 BPSK	136	0	24.79	24.65	24.53	26.2
100	Pi2 BPSK	136	66	25.01	24.97	24.72	26.2
100	Pi2 BPSK	136	138	25.00	24.89	24.77	26.2
100	Pi2 BPSK	270	0	24.78	24.77	24.54	26.2
100	QPSK	1	137	26.30	25.20	24.99	26.2
100	QPSK	1	271	26.21	25.13	24.86	26.2
100	QPSK	136	0	25.73	25.61	25.48	26.2
100	QPSK	136	66	25.25	25.20	25.16	26.2
100	QPSK	136	138	25.82	25.80	25.68	26.2
100	QPSK	270	0	25.87	25.72	25.60	26.2
100	16QAM	1	1	24.48	24.41	24.19	25.2
100	64QAM	1	1	24.50	24.41	24.21	25.7
100	256QAM	1	1	24.87	24.83	24.61	21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.28	25.11	24.86	26.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.30	25.11	24.97	26.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.34	25.07	24.98	26.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.18	25.17	25.11	26.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.29	25.17	25.19	26.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.35	25.14	24.87	26.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.27	25.13	24.99	26.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	25.25	25.13	24.90	26.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.31	25.21	24.98	26.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.29	25.21	24.89	26.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.37	25.14	25.10	26.2





Part27Q_n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	24.11	24.11	24.11	25.2
100	Pi2 BPSK	1	137	24.10	24.10	24.10	25.2
100	Pi2 BPSK	1	271	24.24	24.24	24.24	25.2
100	Pi2 BPSK	156	6	24.08	24.08	24.08	25.2
100	Pi2 BPSK	156	69	24.05	24.05	24.05	25.2
100	Pi2 BPSK	156	138	24.13	24.13	24.13	25.2
100	Pi2 BPSK	270	0	24.11	24.11	24.11	25.2
100	QPSK	1	1	24.15	24.15	24.15	25.2
100	QPSK	1	137	24.05	24.05	24.05	25.2
100	QPSK	1	271	24.15	24.15	24.15	25.2
100	QPSK	156	6	24.09	24.09	24.09	25.2
100	QPSK	156	69	24.12	24.12	24.12	25.2
100	QPSK	156	138	24.06	24.06	24.06	25.2
100	QPSK	270	0	24.11	24.11	24.11	25.2
100	16QAM	1	1	24.03	24.03	24.03	24.7
100	16QAM	1	1	23.97	23.97	23.97	24.7
100	256QAM	1	1	24.73	24.73	24.73	22.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.15	24.21	24.18	25.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.02	24.02	24.02	25.2
80	QPSK	1	1	24.15	24.25	24.17	25.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.25	24.14	24.11	25.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.02	24.02	24.02	25.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.02	24.24	24.13	25.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.02	24.15	24.02	25.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.02	24.15	24.11	25.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	24.22	24.11	24.13	25.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.21	24.20	24.20	25.2
Channel							
Frequency (MHz)							
16	QPSK	1	1	24.10	24.18	24.17	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.18	24.16	24.15	25.2

Part27O_n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	23.85	23.85	23.85	25.2
100	Pi2 BPSK	1	137	23.83	23.83	23.83	25.2
100	Pi2 BPSK	1	271	23.73	23.73	23.73	25.2
100	Pi2 BPSK	156	6	23.78	23.78	23.78	25.2
100	Pi2 BPSK	156	69	23.80	23.80	23.80	25.2
100	Pi2 BPSK	156	138	23.82	23.82	23.82	25.2
100	Pi2 BPSK	270	0	23.77	23.77	23.77	25.2
100	QPSK	1	1	23.87	23.87	23.87	25.2
100	QPSK	1	137	23.80	23.80	23.80	25.2
100	QPSK	1	271	23.73	23.73	23.73	25.2
100	QPSK	156	6	23.77	23.77	23.77	25.2
100	QPSK	156	69	23.82	23.82	23.82	25.2
100	QPSK	156	138	23.82	23.82	23.82	25.2
100	QPSK	270	0	23.78	23.78	23.78	25.2
100	16QAM	1	1	23.85	23.85	23.85	24.7
100	16QAM	1	1	23.59	23.59	23.59	24.7
100	256QAM	1	1	24.40	24.40	24.40	22.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.95	23.87	23.73	25.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.95	23.65	23.76	25.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.95	23.71	23.75	25.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.92	23.74	23.69	25.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.92	23.72	23.76	25.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.84	23.72	23.90	25.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.91	23.70	23.70	25.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.91	23.70	23.70	25.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.83	23.70	23.79	25.2
Channel							
Frequency (MHz)							
16	QPSK	1	1	23.92	23.66	23.72	25.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.95	23.71	23.76	25.2

Part27Q_n78(HPIUE)_Ant 10									
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)	Ch. Data (x-5)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	25.89	25.89	25.89	27.2	0.0	6.17
100	Pi2 BPSK	1	137	25.72	25.72	25.72	27.2	0.0	6.17
100	Pi2 BPSK	1	271	25.79	25.79	25.79	27.2	0.0	6.17
100	Pi2 BPSK	156	6	25.92	25.92	25.92	26.7	0.5	0.00
100	Pi2 BPSK	156	69	25.77	25.77	25.77	27.2	0.5	0.00
100	Pi2 BPSK	156	138	25.95	25.95	25.95	26.7	0.5	0.13
100	Pi2 BPSK	270	0	25.92	25.92	25.92	27.2	0.0	6.17
100	QPSK	1	137	26.07	26.07	26.07	27.2	0.0	6.15
100	QPSK	1	271	26.15	26.15	26.15	27.2	0.0	6.15
100	QPSK	156	6	26.08	26.08	26.08	26.2	1.0	0.00
100	QPSK	156	69	26.15	26.15	26.15	27.2	0.0	0.00
100	QPSK	156	138	26.03	26.03	26.03	26.2	1.0	0.05
100	QPSK	270	0	26.08	26.08	26.08	27.2	0.0	6.15
100	16QAM	1	1	25.31	25.31	25.31	26.2	1.0	0.00
100	16QAM	1	1	23.66	23.66	23.66	24.7	2.5	0.00
100	256QAM	1	1	24.75	24.75	24.75	22.7	4.5	0.00
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.18	26.12	26.00	27.2	0.0	0.09
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.13	26.19	26.14	27.2	0.0	0.06
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.21	26.10	26.20	27.2	0.0	0.11
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.12	26.14	26.21	27.2	0.0	0.11
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.09	26.11	26.07	27.2	0.0	0.08
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.17	26.16	26.12	27.2	0.0	0.05
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.07	26.15	26.13	27.2	0.0	0.08
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.03	26.13	26.09	27.2	0.0	0.05
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.17	26.20	26.15	27.2	0.0	0.08
Channel									
Frequency (MHz)									
16	QPSK	1	1	26.15	26.11	26.10	27.2	0.0	0.08
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.10	26.20	26.13	27.2	0.0	0.10

Part27O_n78(HPIUE)_Ant 10									
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)	Ch. Data (x-5)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	25.76	25.76	25.76	27.2	0.0	6.17
100	Pi2 BPSK	1	137	25.61	25.61	25.61	27.2	0.0	6.17
100	Pi2 BPSK	1	271	25.70	25.70	25.70	27.2	0.0	6.17
100	Pi2 BPSK	156	6	25.94	25.94	25.94	26.7	0.5	0.00
100	Pi2 BPSK	156	69	25.75	25.75	25.75	27.2	0.5	0.00
100	Pi2 BPSK	156	138	25.90	25.90	25.90	26.7	0.5	0.13
100	Pi2 BPSK	270	0	25.94	25.94	25.94	27.2	0.0	6.17
100	QPSK	1	137	25.88	25.88	25.88	27.2	0.0	6.15
100	QPSK	1	271	25.90	25.90	25.90	27.2	0.0	6.15
100	QPSK	156	6	25.97	25.97	25.97	26.2	1.0	0.00
100	QPSK	156	69	25.93	25.93	25.93	27.2	0.0	0.00
100	QPSK	156	138	25.88	25.88	25.88	26.2	1.0	0.05
100	QPSK	270	0	25.94	25.94	25.94	27.2	0.0	6.15
100	16QAM	1	1	24.86	24.86	24.86	26.2	1.0	0.00
100	16QAM	1	1	23.51	23.51	23.51	24.7	2.5	0.00
100	256QAM	1	1	24.44	24.44	24.44	22.7	4.5	0.00
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.88	25.87	25.92	27.2	0.0	0.09
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.82	25.86	25.86	27.2	0.0	0.06
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.85	25.84	25.83	27.2	0.0	0.11
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.89	25.80	25.88	27.2	0.0	0.11
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.89	25.81	25.81	27.2	0.0	0.08
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.81	25.89	25.82	27.2	0.0	0.05
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.92	25.84	25.97	27.2	0.0	0.08
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.92	25.83	25.92	27.2	0.0	0.05
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.83	25.86	25.86	27.2	0.0	0.08
Channel									
Frequency (MHz)									
16	QPSK	1	1	25.90	25.84	25.84	27.2	0.0	0.08
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.80	25.81	25.83	27.2	0.0	0.10



Part27Q_n78_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	23.70	23.70	24.7	
100	P12 BPSK	1	137	23.72	23.72	24.7	
100	P12 BPSK	1	271	23.68	23.68	24.7	
100	P12 BPSK	155	6	23.97	23.97	24.7	
100	P12 BPSK	155	69	23.73	23.73	24.7	
100	P12 BPSK	155	138	23.64	23.64	24.7	
100	P12 BPSK	270	0	23.81	23.81	24.7	
100	QPSK	1	271	23.65	23.65	24.7	
100	QPSK	1	137	23.64	23.64	24.7	
100	QPSK	155	138	23.65	23.65	24.7	
100	QPSK	155	69	23.73	23.73	24.7	
100	QPSK	155	6	23.97	23.97	24.7	
100	QPSK	270	0	23.89	23.89	24.7	
100	16QAM	1	1	23.86	23.86	24.7	
100	16QAM	1	1	23.25	23.25	24.2	
100	256QAM	1	1	21.21	21.21	22.2	
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.81	23.89	23.77	24.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.80	23.76	23.79	24.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.75	23.72	23.70	24.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.73	23.77	23.80	24.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.79	23.79	23.71	24.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.83	23.71	23.70	24.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.90	23.74	23.78	24.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.68	23.68	23.60	24.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.74	23.61	23.72	24.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.74	23.79	23.87	24.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.81	23.81	23.73	24.7

Part27O_n78_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	24.51	24.51	24.7	
100	P12 BPSK	1	137	23.90	23.90	24.7	
100	P12 BPSK	1	271	23.84	23.84	24.7	
100	P12 BPSK	155	6	23.92	23.92	24.7	
100	P12 BPSK	155	69	23.81	23.81	24.7	
100	P12 BPSK	155	138	23.89	23.89	24.7	
100	P12 BPSK	270	0	23.87	23.87	24.7	
100	QPSK	1	271	23.80	23.80	24.7	
100	QPSK	1	137	23.83	23.83	24.7	
100	QPSK	155	138	23.80	23.80	24.7	
100	QPSK	155	69	23.92	23.92	24.7	
100	QPSK	155	6	24.00	24.00	24.7	
100	QPSK	270	0	23.88	23.88	24.7	
100	16QAM	1	1	23.85	23.85	24.2	
100	16QAM	1	1	23.25	23.25	24.2	
100	256QAM	1	1	21.41	21.41	22.2	
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.95	23.91	23.95	24.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.91	24.02	23.91	24.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.88	23.97	23.81	24.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.92	23.90	23.88	24.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.92	23.90	23.90	24.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.92	23.90	23.90	24.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.95	24.00	23.95	24.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.95	24.00	23.95	24.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.95	23.96	24.02	24.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.88	23.97	23.99	24.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.95	23.96	23.89	24.7

Part27Q_n78(HPUe)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	25.34	25.34	26.7	
100	P12 BPSK	1	137	25.31	25.31	26.7	
100	P12 BPSK	1	271	25.29	25.29	26.7	
100	P12 BPSK	155	6	24.70	24.70	26.2	
100	P12 BPSK	155	69	25.34	25.34	26.7	
100	P12 BPSK	155	138	24.70	24.70	26.2	
100	P12 BPSK	270	0	24.72	24.72	26.7	
100	QPSK	1	271	25.23	25.23	26.7	
100	QPSK	1	137	25.80	25.80	26.7	
100	QPSK	155	138	25.23	25.23	26.7	
100	QPSK	155	69	25.63	25.63	26.7	
100	QPSK	155	6	24.31	24.31	25.7	
100	QPSK	270	0	24.38	24.38	26.7	
100	16QAM	1	1	24.83	24.83	25.7	
100	16QAM	1	1	23.20	23.20	24.2	
100	256QAM	1	1	21.17	21.17	22.2	
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.87	25.88	25.86	26.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.88	25.85	25.83	26.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.87	25.81	25.86	26.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.87	25.80	25.83	26.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.81	25.84	25.88	26.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.83	25.83	25.83	26.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.89	25.88	25.87	26.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	25.87	25.87	25.87	26.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.85	25.85	25.85	26.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.53	25.54	25.51	26.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.83	25.86	25.55	26.7

Part27O_n78(HPUe)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P12 BPSK	1	1	25.53	25.53	26.7	
100	P12 BPSK	1	137	25.67	25.67	26.7	
100	P12 BPSK	1	271	25.54	25.54	26.7	
100	P12 BPSK	155	6	25.04	25.04	26.2	
100	P12 BPSK	155	69	25.70	25.70	26.7	
100	P12 BPSK	155	138	25.15	25.15	26.2	
100	P12 BPSK	270	0	24.67	24.67	26.7	
100	QPSK	1	271	25.30	25.30	26.7	
100	QPSK	1	137	25.87	25.87	26.7	
100	QPSK	155	138	25.30	25.30	26.7	
100	QPSK	155	69	25.63	25.63	26.7	
100	QPSK	155	6	24.31	24.31	25.7	
100	QPSK	270	0	24.37	24.37	26.7	
100	16QAM	1	1	24.84	24.84	25.7	
100	16QAM	1	1	23.49	23.49	24.2	
100	256QAM	1	1	21.49	21.49	22.2	
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.87	25.88	25.86	26.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.89	25.88	25.86	26.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.88	25.85	25.81	26.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.89	25.87	25.87	26.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.81	25.84	25.88	26.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.83	25.83	25.83	26.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.89	25.88	25.87	26.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	25.87	25.87	25.87	26.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.85	25.85	25.85	26.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.53	25.54	25.51	26.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.83	25.86	25.51	26.7

Part27Q_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.21					
100	PI2 BPSK	1	137	24.03			25.2		
100	PI2 BPSK	1	271	24.03			25.2		
100	PI2 BPSK	136	0	24.15			25.2		
100	PI2 BPSK	136	66	24.11			25.2		
100	PI2 BPSK	136	138	24.10			25.2		
100	PI2 BPSK	270	0	24.02			25.2		
100	QPSK	1	1	24.03			25.2		
100	QPSK	1	137	24.20			25.2		
100	QPSK	1	271	24.16			25.2		
100	QPSK	136	0	24.13			25.2		
100	QPSK	136	66	24.10			25.2		
100	QPSK	136	138	24.02			25.2		
100	QPSK	270	0	24.10			25.2		
100	16QAM	1	1	24.10			25.2		
100	16QAM	1	1	23.79			25.2		
100	256QAM	1	1	21.79			22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.14	24.21	24.11	25.2		
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.20	24.12	24.13	25.2		
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.22	24.17	24.11	25.2		
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.13	24.13	24.18	25.2		
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.11	24.13	24.11	25.2		
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.13	24.12	24.01	25.2		
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.12	24.16	24.18	25.2		
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.13	24.13	24.17	25.2		
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.16	24.09	24.09	25.2		
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.09	24.17	24.20	25.2		
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.18	24.14	24.11	25.2		

Part27O_n78_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.40			25.2		
100	PI2 BPSK	1	137	24.25			25.2		
100	PI2 BPSK	1	271	24.35			25.2		
100	PI2 BPSK	136	0	24.26			25.2		
100	PI2 BPSK	136	66	24.22			25.2		
100	PI2 BPSK	136	138	24.30			25.2		
100	PI2 BPSK	270	0	24.27			25.2		
100	QPSK	1	1	24.41			25.2		
100	QPSK	1	137	24.40			25.2		
100	QPSK	1	271	24.31			25.2		
100	QPSK	136	0	24.27			25.2		
100	QPSK	136	66	24.26			25.2		
100	QPSK	136	138	24.34			25.2		
100	QPSK	270	0	24.33			25.2		
100	16QAM	1	1	24.34			25.2		
100	16QAM	1	1	23.97			25.2		
100	256QAM	1	1	22.01			22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.31	24.31	24.27	25.2		
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.35	24.41	24.27	25.2		
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.32	24.33	24.35	25.2		
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.27	24.27	24.34	25.2		
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.26	24.23	24.24	25.2		
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.33	24.30	24.33	25.2		
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.37	24.35	24.41	25.2		
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.38	24.41	24.38	25.2		
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.31	24.31	24.37	25.2		
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.34	24.33	24.27	25.2		
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.41	24.41	24.41	25.2		

Part27Q_n78(HPUe)_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.24			26.5		
100	PI2 BPSK	1	137	25.21			26.5		
100	PI2 BPSK	1	271	25.23			26.5		
100	PI2 BPSK	136	0	24.93			26.5		
100	PI2 BPSK	136	66	24.98			26.5		
100	PI2 BPSK	136	138	24.96			26.5		
100	PI2 BPSK	270	0	24.94			26.5		
100	QPSK	1	1	25.41			26.5		
100	QPSK	1	137	25.37			26.5		
100	QPSK	1	271	25.52			26.5		
100	QPSK	136	0	24.70			26.5		
100	QPSK	136	66	25.34			26.5		
100	QPSK	136	138	24.84			26.5		
100	QPSK	270	0	24.72			26.5		
100	16QAM	1	1	25.15			26.5		
100	16QAM	1	1	23.79			26.7		
100	256QAM	1	1	21.84			22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.39	25.34	25.33	26.5		
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.39	25.37	25.35	26.5		
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.36	25.35	25.41	26.5		
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.37	25.39	25.37	26.5		
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.41	25.39	25.43	26.5		
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.43	25.39	25.34	26.5		
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.37	25.42	25.31	26.5		
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.33	25.39	25.43	26.5		
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.39	25.39	25.31	26.5		
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.41	25.32	25.42	26.5		
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.42	25.39	25.33	26.5		

Part27O_n78(HPUe)_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.47			26.5		
100	PI2 BPSK	1	137	25.26			26.5		
100	PI2 BPSK	1	271	25.37			26.5		
100	PI2 BPSK	136	0	25.03			26.5		
100	PI2 BPSK	136	66	25.15			26.5		
100	PI2 BPSK	136	138	25.19			26.5		
100	PI2 BPSK	270	0	25.22			26.5		
100	QPSK	1	1	25.59			26.5		
100	QPSK	1	137	25.59			26.5		
100	QPSK	1	271	25.63			26.5		
100	QPSK	136	0	24.82			26.5		
100	QPSK	136	66	25.25			26.5		
100	QPSK	136	138	24.88			26.5		
100	QPSK	270	0	24.84			26.5		
100	16QAM	1	1	25.29			26.2		
100	16QAM	1	1	24.27			26.7		
100	256QAM	1	1	22.03			22.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.40	25.40	25.36	26.5		
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.59	25.55	25.48	26.5		
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.48	25.54	25.58	26.5		
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.48	25.54	25.48	26.5		
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.59	25.59	25.58	26.5		
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.57	25.58	25.53	26.5		
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.53	25.53	25.41	26.5		
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.56	25.48	25.43	26.5		
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.59	25.51	25.37	26.5		
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.59	25.48	25.49	26.5		
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.58	25.51	25.48	26.5		

Part27Q_n78_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	23.02			24.2
100	Pi2 BPSK	1	137	23.02			24.2
100	Pi2 BPSK	1	271	23.02			24.2
100	Pi2 BPSK	136	0	23.04			24.2
100	Pi2 BPSK	136	68	23.06			24.2
100	Pi2 BPSK	136	136	23.00			24.2
100	Pi2 BPSK	270	0	23.05			24.2
100	QPSK	1	137	23.01			24.2
100	QPSK	1	271	23.04			24.2
100	QPSK	136	0	23.04			24.2
100	QPSK	136	68	23.13			24.2
100	QPSK	136	136	23.03			24.2
100	QPSK	270	0	23.07			24.2
100	16QAM	1	1	23.07			24.2
100	16QAM	1	1	23.78			23.7
100	256QAM	1	1	20.89			21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.07	23.05	23.07	24.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.04	23.11	23.04	24.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.00	23.01	23.00	24.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.01	23.01	23.01	24.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.01	23.04	23.01	24.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.04	23.04	23.04	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.13	23.14	23.13	24.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.04	23.04	23.04	24.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.07	23.00	23.10	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.04	23.00	23.00	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.01	23.00	23.07	24.2

Part27O_n78_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	23.14			24.2
100	Pi2 BPSK	1	137	23.08			24.2
100	Pi2 BPSK	1	271	23.18			24.2
100	Pi2 BPSK	136	0	23.15			24.2
100	Pi2 BPSK	136	68	23.20			24.2
100	Pi2 BPSK	136	136	23.24			24.2
100	Pi2 BPSK	270	0	23.15			24.2
100	QPSK	1	137	23.28			24.2
100	QPSK	1	271	23.23			24.2
100	QPSK	136	0	23.23			24.2
100	QPSK	136	68	23.25			24.2
100	QPSK	136	136	23.21			24.2
100	QPSK	270	0	23.24			24.2
100	16QAM	1	1	23.12			24.2
100	16QAM	1	1	23.07			23.7
100	256QAM	1	1	20.84			21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.18	23.18	23.27	24.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.23	23.29	23.20	24.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.24	23.23	23.24	24.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.17	23.23	23.17	24.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.19	23.19	23.19	24.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.21	23.23	23.24	24.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.21	23.23	23.24	24.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.18	23.20	23.25	24.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.21	23.22	23.25	24.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.19	23.20	23.20	24.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.26	23.19	23.28	24.2

Part27Q_n78(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	24.93			26.2
100	Pi2 BPSK	1	137	24.78			26.2
100	Pi2 BPSK	1	271	24.91			26.2
100	Pi2 BPSK	136	0	24.89			26.2
100	Pi2 BPSK	136	68	24.91			26.2
100	Pi2 BPSK	136	136	24.77			26.2
100	Pi2 BPSK	270	0	24.84			26.2
100	QPSK	1	137	25.09			26.2
100	QPSK	1	271	25.07			26.2
100	QPSK	136	0	25.03			26.2
100	QPSK	136	68	25.04			26.2
100	QPSK	136	136	24.84			26.2
100	QPSK	270	0	24.93			26.2
100	16QAM	1	1	24.90			26.2
100	16QAM	1	1	24.78			25.7
100	256QAM	1	1	20.77			21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.07	25.01	24.99	26.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.05	24.98	24.98	26.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.00	25.10	25.07	26.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.02	25.04	24.93	26.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.03	25.00	25.07	26.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.01	25.09	25.07	26.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.99	24.98	25.07	26.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	25.02	25.10	25.05	26.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.98	25.03	25.10	26.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.99	25.08	25.03	26.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.99	25.07	25.10	26.2

Part27O_n78(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	24.68			26.2
100	Pi2 BPSK	1	137	24.62			26.2
100	Pi2 BPSK	1	271	24.63			26.2
100	Pi2 BPSK	136	0	24.71			26.2
100	Pi2 BPSK	136	68	24.60			26.2
100	Pi2 BPSK	136	136	24.68			26.2
100	Pi2 BPSK	270	0	24.68			26.2
100	QPSK	1	137	25.24			26.2
100	QPSK	1	271	25.19			26.2
100	QPSK	136	0	25.17			26.2
100	QPSK	136	68	25.13			26.2
100	QPSK	136	136	24.93			26.2
100	QPSK	270	0	24.80			26.2
100	16QAM	1	1	24.63			25.2
100	16QAM	1	1	22.89			23.7
100	256QAM	1	1	20.88			21.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.27	25.20	25.14	26.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.13	25.22	25.18	26.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.19	25.24	25.18	26.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.15	25.24	25.14	26.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.23	25.27	25.18	26.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.20	25.23	25.15	26.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.15	25.18	25.19	26.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	25.17	25.24	25.23	26.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.18	25.24	25.16	26.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.22	25.10	25.26	26.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.24	25.16	25.23	26.2



Reduced Power Mode for DSI4

n2_Ant 5						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq
Channel						
Frequency (MHz)				37600	37600	37600
40	PV2 BPSK	1	1	20.88	21.01	20.99
40	PV2 BPSK	1	168	20.97	20.99	20.92
40	PV2 BPSK	1	214	20.99	20.98	20.98
40	PV2 BPSK	168	0	20.92	20.93	20.99
40	PV2 BPSK	168	54	20.92	20.97	20.98
40	PV2 BPSK	168	108	20.97	20.93	20.98
40	PV2 BPSK	216	0	20.98	21.01	20.98
40	QPSK	1	1	21.02	21.05	21.00
40	QPSK	1	168	20.99	20.94	20.96
40	QPSK	1	214	20.99	21.01	20.99
40	QPSK	168	0	20.91	20.98	20.91
40	QPSK	168	54	20.91	21.00	20.92
40	QPSK	168	108	20.97	20.98	20.98
40	QPSK	216	0	20.96	20.98	20.97
40	16QAM	1	1	20.95	20.98	20.98
40	16QAM	1	1	20.95	21.02	20.90
40	256QAM	1	1	19.57	19.69	19.58
Channel				37500	37600	37600
Frequency (MHz)				192.5	180	192.5
35	QPSK	1	1	20.87	20.95	20.85
Channel				37500	37600	37600
Frequency (MHz)				186	180	186
30	QPSK	1	1	20.92	20.92	20.81
Channel				37500	37600	37600
Frequency (MHz)				182.5	180	182.5
25	QPSK	1	1	20.93	20.98	20.84
Channel				180	180	190
20	QPSK	1	1	20.83	20.83	20.94
Channel				182.5	180	192.5
15	QPSK	1	1	20.99	20.87	20.90
Channel				185	180	190
10	QPSK	1	1	20.81	20.83	20.81
Channel				37500	37600	38100
Frequency (MHz)				182.5	180	192.5
5	QPSK	1	1	20.93	20.95	20.92

n2_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq
Channel						
Frequency (MHz)				37600	37600	37600
40	PV2 BPSK	1	1	19.31	19.28	19.21
40	PV2 BPSK	1	168	19.21	19.30	19.22
40	PV2 BPSK	1	214	19.38	19.33	19.25
40	PV2 BPSK	168	0	19.31	19.34	19.25
40	PV2 BPSK	168	54	19.31	19.38	19.27
40	PV2 BPSK	168	108	19.29	19.25	19.27
40	PV2 BPSK	216	0	19.28	19.28	19.28
40	QPSK	1	1	19.35	19.40	19.38
40	QPSK	1	168	19.29	19.27	19.20
40	QPSK	1	214	19.29	19.25	19.22
40	QPSK	168	0	19.29	19.35	19.31
40	QPSK	168	54	19.35	19.37	19.31
40	QPSK	168	108	19.29	19.32	19.21
40	QPSK	216	0	19.35	19.38	19.23
40	16QAM	1	1	19.24	19.25	19.25
40	16QAM	1	1	19.23	19.31	19.27
40	256QAM	1	1	19.13	19.28	19.13
Channel				37500	37600	37600
Frequency (MHz)				192.5	180	192.5
35	QPSK	1	1	19.21	19.33	19.28
Channel				37500	37600	37600
Frequency (MHz)				186	180	186
30	QPSK	1	1	19.25	19.25	19.34
Channel				37500	37600	37600
Frequency (MHz)				182.5	180	182.5
25	QPSK	1	1	19.30	19.25	19.32
Channel				180	180	190
20	QPSK	1	1	19.21	19.30	19.33
Channel				182.5	180	192.5
15	QPSK	1	1	19.29	19.29	19.24
Channel				185	180	190
10	QPSK	1	1	19.22	19.30	19.25
Channel				37500	37600	38100
Frequency (MHz)				182.5	180	192.5
5	QPSK	1	1	19.22	19.32	19.25

n2_Ant 6						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq
Channel						
Frequency (MHz)				37600	37600	37600
40	PV2 BPSK	1	1	20.04	20.11	20.05
40	PV2 BPSK	1	168	20.02	20.03	19.95
40	PV2 BPSK	1	214	20.04	19.97	20.00
40	PV2 BPSK	168	0	19.94	20.01	19.97
40	PV2 BPSK	168	54	19.96	20.01	20.02
40	PV2 BPSK	168	108	19.91	19.90	20.01
40	PV2 BPSK	216	0	19.98	20.04	20.07
40	QPSK	1	1	20.05	20.12	20.08
40	QPSK	1	168	20.04	20.00	19.94
40	QPSK	1	214	19.95	20.00	19.99
40	QPSK	168	0	19.98	20.08	19.93
40	QPSK	168	54	20.03	20.10	20.02
40	QPSK	168	108	19.94	20.00	20.02
40	QPSK	216	0	19.93	20.10	20.00
40	16QAM	1	1	19.99	20.05	20.02
40	16QAM	1	1	20.03	20.13	20.02
40	256QAM	1	1	18.96	18.90	18.87
Channel				37500	37600	37600
Frequency (MHz)				192.5	180	192.5
35	QPSK	1	1	19.99	20.07	20.00
Channel				37500	37600	37600
Frequency (MHz)				186	180	186
30	QPSK	1	1	19.94	20.00	20.03
Channel				37500	37600	37600
Frequency (MHz)				182.5	180	182.5
25	QPSK	1	1	19.90	19.95	19.92
Channel				180	180	190
20	QPSK	1	1	19.94	20.04	20.00
Channel				182.5	180	192.5
15	QPSK	1	1	19.90	20.00	20.01
Channel				185	180	190
10	QPSK	1	1	19.93	19.93	20.02
Channel				37500	37600	38100
Frequency (MHz)				182.5	180	192.5
5	QPSK	1	1	19.94	20.04	19.92

n2_Ant 7						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq
Channel						
Frequency (MHz)				37600	37600	37600
40	PV2 BPSK	1	1	20.87	20.74	20.89
40	PV2 BPSK	1	168	20.73	20.73	20.81
40	PV2 BPSK	1	214	20.71	20.82	20.81
40	PV2 BPSK	168	0	20.70	20.84	20.78
40	PV2 BPSK	168	54	20.75	20.78	20.85
40	PV2 BPSK	168	108	20.87	20.85	20.77
40	PV2 BPSK	216	0	20.89	20.78	20.76
40	QPSK	1	1	20.89	20.88	20.75
40	QPSK	1	168	20.88	20.82	20.74
40	QPSK	1	214	20.89	20.81	20.78
40	QPSK	168	0	20.72	20.79	20.88
40	QPSK	168	54	20.72	20.81	20.73
40	QPSK	168	108	20.74	20.75	20.76
40	QPSK	216	0	20.85	20.73	20.74
40	16QAM	1	1	20.84	20.75	20.85
40	16QAM	1	1	20.77	20.84	20.73
40	256QAM	1	1	19.29	19.40	19.24
Channel				37500	37600	37600
Frequency (MHz)				192.5	180	192.5
35	QPSK	1	1	20.88	20.78	20.77
Channel				37500	37600	37600
Frequency (MHz)				186	180	186
30	QPSK	1	1	20.74	20.78	20.72
Channel				37500	37600	37600
Frequency (MHz)				182.5	180	182.5
25	QPSK	1	1	20.81	20.75	20.83
Channel				180	180	190
20	QPSK	1	1	20.81	20.72	20.85
Channel				182.5	180	192.5
15	QPSK	1	1	20.86	20.77	20.80
Channel				185	180	190
10	QPSK	1	1	20.83	20.71	20.80
Channel				37500	37600	38100
Frequency (MHz)				182.5	180	192.5
5	QPSK	1	1	20.70	20.73	20.74



n5_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
20	PVZ BPSK	1	1	23.42	23.43	23.37	
20	PVZ BPSK	1	53	23.34	23.35	23.38	24.9
20	PVZ BPSK	1	104	23.37	23.38	23.35	
20	PVZ BPSK	50	0	22.90	22.95	23.04	24.9
20	PVZ BPSK	50	50	22.92	22.99	23.01	24.9
20	PVZ BPSK	50	98	22.95	22.91	22.98	24.9
20	PVZ BPSK	100	0	22.92	22.94	23.01	
20	QPSK	1	1	22.41	22.44	22.35	
20	QPSK	1	53	22.37	22.31	22.32	24.9
20	QPSK	1	104	22.33	22.31	22.38	
20	QPSK	50	0	22.98	23.00	22.88	24.4
20	QPSK	50	50	22.91	22.95	22.92	24.4
20	QPSK	50	98	22.93	22.96	22.94	24.4
20	QPSK	100	0	22.92	22.95	22.94	
20	HQAM	1	1	22.88	23.00	22.87	24.4
20	HQAM	1	1	21.95	21.42	21.34	22.9
20	HQAM	1	1	18.95	18.95	18.43	20.9
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.26	23.33	23.32	24.9
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.33	23.40	23.28	24.9
Channel							
Frequency (MHz)							
5	QPSK	1	1	23.28	23.42	23.25	24.9

n5_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
20	PVZ BPSK	1	1	22.25	22.34	22.29	
20	PVZ BPSK	1	53	22.32	22.32	22.32	23.7
20	PVZ BPSK	1	104	22.21	22.39	22.33	
20	PVZ BPSK	50	0	22.27	22.37	22.28	23.7
20	PVZ BPSK	50	50	22.28	22.43	22.31	23.7
20	PVZ BPSK	50	98	22.27	22.39	22.33	23.7
20	PVZ BPSK	100	0	22.18	22.43	22.32	
20	QPSK	1	1	22.23	22.44	22.38	
20	QPSK	1	53	22.20	22.33	22.28	23.7
20	QPSK	1	104	22.24	22.34	22.35	
20	QPSK	50	0	22.23	22.31	22.31	23.7
20	QPSK	50	50	22.27	22.40	22.34	23.7
20	QPSK	50	98	22.26	22.39	22.36	23.7
20	QPSK	100	0	22.25	22.39	22.30	
20	HQAM	1	1	22.38	22.38	22.28	23.7
20	HQAM	1	1	21.25	21.29	21.26	22.2
20	HQAM	1	1	18.24	18.42	18.38	20.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.25	22.43	22.37	23.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.23	22.34	22.26	23.7
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.27	22.33	22.32	23.7

n7_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
50	PVZ BPSK	1	1	21.22	21.33	21.24	
50	PVZ BPSK	1	158	21.25	21.25	21.23	22.2
50	PVZ BPSK	1	268	21.28	21.26	21.26	
50	PVZ BPSK	155	0	21.32	21.37	21.28	22.2
50	PVZ BPSK	155	50	21.21	21.29	21.22	22.2
50	PVZ BPSK	155	158	21.29	21.29	21.29	22.2
50	PVZ BPSK	270	0	21.21	21.36	21.23	22.2
50	QPSK	1	1	21.32	21.00	21.32	
50	QPSK	1	158	21.26	21.33	21.28	22.2
50	QPSK	1	268	21.23	21.29	21.28	
50	QPSK	155	0	21.20	21.33	21.27	22.2
50	QPSK	155	50	21.27	21.35	21.29	22.2
50	QPSK	155	158	21.21	21.29	21.28	22.2
50	QPSK	270	0	21.24	21.32	21.28	22.2
50	HQAM	1	1	21.38	21.28	21.27	22.2
50	HQAM	1	1	21.03	21.15	21.14	22.2
50	HQAM	1	1	18.12	18.17	18.14	20.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.22	21.36	21.18	22.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	21.30	21.33	21.21	22.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.33	21.36	21.24	22.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.27	21.35	21.25	22.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.34	21.38	21.27	22.2
Channel							
Frequency (MHz)							
18	QPSK	1	1	21.26	21.29	21.21	22.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.31	21.34	21.29	22.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.33	21.31	21.21	22.2

n7_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
50	PVZ BPSK	1	1	19.22	19.33	19.24	
50	PVZ BPSK	1	155	19.27	19.32	19.24	21.2
50	PVZ BPSK	1	268	19.28	19.28	19.27	
50	PVZ BPSK	155	0	19.29	19.33	19.27	21.2
50	PVZ BPSK	155	50	19.25	19.32	19.23	21.2
50	PVZ BPSK	155	155	19.28	19.24	19.24	21.2
50	PVZ BPSK	270	0	19.25	19.38	19.25	21.2
50	QPSK	1	1	19.32	19.02	19.32	
50	QPSK	1	155	19.27	19.32	19.27	21.2
50	QPSK	1	268	19.27	19.24	19.28	
50	QPSK	155	0	19.25	19.34	19.27	21.2
50	QPSK	155	50	19.27	19.35	19.29	21.2
50	QPSK	155	155	19.21	19.29	19.28	21.2
50	QPSK	270	0	19.24	19.37	19.27	21.2
50	HQAM	1	1	19.29	19.28	19.18	21.2
50	HQAM	1	1	19.03	19.10	19.01	21.2
50	HQAM	1	1	18.08	18.18	18.06	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.21	19.30	19.21	21.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	19.28	19.38	19.24	21.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.32	19.36	19.22	21.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.27	19.37	19.23	21.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.34	19.36	19.23	21.2
Channel							
Frequency (MHz)							
18	QPSK	1	1	19.26	19.29	19.21	21.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.31	19.34	19.27	21.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	19.33	19.31	19.21	21.2

n7_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
Channel							
Frequency (MHz)				50000	50700	51000	
50	PVZ BPSK	1	1	19.84	19.25	19.12	
50	PVZ BPSK	1	136	19.11	19.24	19.08	19.7
50	PVZ BPSK	1	268	19.06	19.17	19.19	
50	PVZ BPSK	136	0	19.08	19.23	19.13	19.7
50	PVZ BPSK	136	68	19.12	19.17	19.20	19.7
50	PVZ BPSK	136	136	19.03	19.15	19.14	19.7
50	PVZ BPSK	270	0	19.17	19.21	19.19	
50	QPSK	1	1	19.16	19.22	19.22	
50	QPSK	1	136	19.03	19.22	19.14	19.7
50	QPSK	1	268	19.03	19.22	19.20	
50	QPSK	136	0	19.13	19.14	19.13	19.7
50	QPSK	136	68	19.10	19.23	19.20	19.7
50	QPSK	136	136	19.11	19.14	19.15	19.7
50	QPSK	270	0	19.10	19.21	19.18	19.7
50	HQAM	1	1	19.07	19.22	19.07	19.7
50	HQAM	1	1	19.17	19.19	19.07	19.7
50	256QAM	1	1	19.01	19.15	19.09	19.7
Channel							
Frequency (MHz)				52000	50700	51000	Tune-up limit (dBm)
40	QPSK	1	1	19.13	19.21	19.09	19.7
Channel							
Frequency (MHz)				50000	50700	51000	Tune-up limit (dBm)
35	QPSK	1	1	19.13	19.17	19.20	19.7
Channel							
Frequency (MHz)				2815	2936	3056	Tune-up limit (dBm)
30	QPSK	1	1	19.05	19.25	19.12	19.7
Channel							
Frequency (MHz)				2612.5	2636	2657.5	Tune-up limit (dBm)
25	QPSK	1	1	19.09	19.15	19.09	19.7
Channel							
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm)
30	QPSK	1	1	19.06	19.21	19.16	19.7
Channel							
Frequency (MHz)				2407.5	2436	2462.5	Tune-up limit (dBm)
16	QPSK	1	1	19.13	19.17	19.16	19.7
Channel							
Frequency (MHz)				50000	50700	51000	Tune-up limit (dBm)
10	QPSK	1	1	19.03	19.24	19.09	19.7
Channel							
Frequency (MHz)				50600	50700	51000	Tune-up limit (dBm)
5	QPSK	1	1	19.07	19.22	19.21	19.7

n7_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
Channel							
Frequency (MHz)				50000	50700	51000	
50	PVZ BPSK	1	1	21.71	21.85	21.73	
40	PVZ BPSK	1	136	21.70	21.80	21.71	22.7
50	PVZ BPSK	1	268	21.73	21.71	21.59	
50	PVZ BPSK	136	0	21.69	21.91	21.73	22.7
50	PVZ BPSK	136	68	21.82	21.79	21.74	22.7
50	PVZ BPSK	136	136	21.82	21.83	21.86	22.7
50	PVZ BPSK	270	0	21.74	21.83	21.82	
50	QPSK	1	1	21.76	21.92	21.89	
50	QPSK	1	136	21.69	21.87	21.64	22.7
50	QPSK	1	268	21.74	21.84	21.79	
50	QPSK	136	0	21.78	21.82	21.59	22.7
50	QPSK	136	68	21.80	21.80	21.70	22.7
50	QPSK	136	136	21.80	21.80	21.82	22.7
50	QPSK	270	0	21.74	21.84	21.87	22.7
50	HQAM	1	1	21.71	21.83	21.72	22.7
40	HQAM	1	1	21.83	21.94	21.84	21.7
50	256QAM	1	1	18.74	18.94	18.86	19.7
Channel							
Frequency (MHz)				52000	50700	51000	Tune-up limit (dBm)
40	QPSK	1	1	21.78	21.91	21.86	22.7
Channel							
Frequency (MHz)				50000	50700	51000	Tune-up limit (dBm)
35	QPSK	1	1	21.79	21.93	21.85	22.7
Channel							
Frequency (MHz)				2958	2986	2996	Tune-up limit (dBm)
30	QPSK	1	1	21.76	21.85	21.84	22.7
Channel							
Frequency (MHz)				2912.5	2936	2957.5	Tune-up limit (dBm)
25	QPSK	1	1	21.72	21.84	21.84	22.7
Channel							
Frequency (MHz)				2910	2936	2960	Tune-up limit (dBm)
30	QPSK	1	1	21.82	21.88	21.76	22.7
Channel							
Frequency (MHz)				2907.5	2936	2957.5	Tune-up limit (dBm)
16	QPSK	1	1	21.72	21.84	21.81	22.7
Channel							
Frequency (MHz)				50000	50700	51000	Tune-up limit (dBm)
10	QPSK	1	1	21.69	21.93	21.92	22.7
Channel							
Frequency (MHz)				50600	50700	51000	Tune-up limit (dBm)
5	QPSK	1	1	21.82	21.90	21.81	22.7

n12_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
Channel							
Frequency (MHz)				14000	14150	14170	
15	PVZ BPSK	1	1	23.48	23.81	23.54	
15	PVZ BPSK	1	40	23.53	23.65	23.54	25.4
15	PVZ BPSK	1	77	23.60	23.66	23.54	
15	PVZ BPSK	36	0	23.04	23.62	23.04	24.9
15	PVZ BPSK	36	36	23.59	23.61	23.59	25.4
15	PVZ BPSK	36	43	22.95	23.10	23.00	24.9
15	PVZ BPSK	75	0	22.95	23.62	22.97	
15	QPSK	1	1	23.55	23.70	23.67	
15	QPSK	1	40	23.49	23.57	23.44	25.4
15	QPSK	1	77	23.55	23.66	23.57	
15	QPSK	36	0	22.99	23.63	22.99	24.4
15	QPSK	36	22	23.04	23.62	23.00	25.4
15	QPSK	36	42	23.61	23.66	23.57	24.4
15	QPSK	75	0	22.93	23.57	22.92	24.4
15	HQAM	1	1	22.63	22.68	22.64	24.4
15	256QAM	1	1	21.04	21.15	21.11	22.3
Channel							
Frequency (MHz)				14000	14150	14200	Tune-up limit (dBm)
10	QPSK	1	1	23.58	23.58	23.63	25.4
Channel							
Frequency (MHz)				791.5	792.5	793.5	Tune-up limit (dBm)
5	QPSK	1	1	23.50	23.60	23.61	25.4

n12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)
Channel							
Frequency (MHz)				14100	14150	14170	
15	PVZ BPSK	1	1	23.20	23.42	23.38	
15	PVZ BPSK	1	40	23.29	23.47	23.38	25.2
15	PVZ BPSK	1	77	23.34	23.42	23.38	
15	PVZ BPSK	36	0	22.78	22.94	22.81	24.7
15	PVZ BPSK	36	22	23.29	23.44	23.38	25.2
15	PVZ BPSK	36	43	22.78	22.89	22.82	24.7
15	PVZ BPSK	75	0	22.74	22.84	22.71	
15	QPSK	1	1	23.52	23.53	23.46	
15	QPSK	1	40	23.25	23.29	23.23	25.2
15	QPSK	1	77	23.28	23.36	23.32	
15	QPSK	36	0	22.93	22.47	22.37	24.2
15	QPSK	36	22	23.30	23.41	23.40	25.2
15	QPSK	36	43	23.26	23.36	23.32	24.2
15	QPSK	75	0	22.92	22.38	22.27	24.2
15	HQAM	1	1	22.42	22.41	22.43	24.2
15	256QAM	1	1	20.85	20.86	20.80	22.7
Channel							
Frequency (MHz)				14000	14150	14200	Tune-up limit (dBm)
10	QPSK	1	1	23.34	23.45	23.30	25.2
Channel							
Frequency (MHz)				14000	14150	14200	Tune-up limit (dBm)
5	QPSK	1	1	23.34	23.50	23.42	25.2





n25_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	21.98	21.87	21.98	
40	PV2 BPSK	1	108	21.97	21.97	22.00	23.4
40	PV2 BPSK	1	214	22.00	21.88	21.98	
40	PV2 BPSK	108	0	21.95	21.91	22.06	23.4
40	PV2 BPSK	108	54	21.92	21.88	22.01	23.4
40	PV2 BPSK	108	108	22.01	21.98	22.04	23.4
40	PV2 BPSK	216	0	21.93	21.95	21.97	
40	QPSK	1	1	22.00	22.00	22.00	
40	QPSK	1	108	22.02	21.94	21.99	23.4
40	QPSK	1	214	21.99	21.94	22.00	
40	QPSK	108	0	21.95	21.92	22.00	23.4
40	QPSK	108	54	22.04	21.99	22.08	23.4
40	QPSK	108	108	21.99	21.92	22.00	23.4
40	16QAM	1	1	21.99	22.01	21.98	23.4
40	16QAM	1	1	21.11	21.46	21.94	23.2
40	256QAM	1	1	19.23	19.55	19.86	20.0
Channel							
Frequency (MHz)							
35	QPSK	1	1	21.82	21.79	21.96	23.4
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.80	21.87	21.96	23.4
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.90	21.78	21.95	23.4
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.90	21.83	22.00	23.4
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.92	21.80	21.98	23.4
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.90	21.80	21.95	23.4
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.93	21.84	21.97	23.4

n25_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	19.38	19.33	19.33	21.2
40	PV2 BPSK	1	108	19.38	19.33	19.38	
40	PV2 BPSK	1	214	19.32	19.28	19.45	
40	PV2 BPSK	108	0	19.37	19.28	19.38	21.2
40	PV2 BPSK	108	54	19.33	19.33	19.33	21.2
40	PV2 BPSK	108	108	19.39	19.32	19.35	21.2
40	PV2 BPSK	216	0	19.41	19.30	19.43	
40	QPSK	1	1	19.41	19.21	19.45	
40	QPSK	1	108	19.37	19.27	19.42	21.2
40	QPSK	1	214	19.42	19.28	19.40	
40	QPSK	108	0	19.33	19.37	19.43	21.2
40	QPSK	108	54	19.40	19.29	19.44	21.2
40	QPSK	108	108	19.35	19.27	19.46	
40	QPSK	216	0	19.41	19.30	19.32	21.2
40	16QAM	1	1	19.38	19.28	19.40	21.2
40	16QAM	1	1	19.30	19.28	19.41	21.2
40	256QAM	1	1	19.22	19.07	19.23	20.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	19.35	19.30	19.29	21.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.32	19.33	19.22	21.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.39	19.34	19.38	21.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.41	19.30	19.24	21.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.38	19.30	19.24	21.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.39	19.24	19.23	21.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	19.30	19.22	19.31	21.2

n25_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	22.03	22.04	22.05	
40	PV2 BPSK	1	108	22.04	21.91	22.11	22.9
40	PV2 BPSK	1	214	22.01	22.02	22.02	
40	PV2 BPSK	108	0	22.05	22.02	22.10	22.9
40	PV2 BPSK	108	54	22.07	21.95	22.08	22.9
40	PV2 BPSK	108	108	21.98	21.97	22.10	22.9
40	PV2 BPSK	216	0	21.97	22.04	22.08	
40	QPSK	1	1	22.00	22.00	22.02	
40	QPSK	1	108	21.98	22.01	22.03	22.9
40	QPSK	1	214	21.94	21.93	21.97	
40	QPSK	108	0	21.94	21.98	22.04	22.9
40	QPSK	108	54	22.07	22.00	22.09	22.9
40	QPSK	108	108	21.98	21.98	21.99	22.9
40	QPSK	216	0	22.07	21.95	22.05	22.9
40	16QAM	1	1	21.97	22.02	22.01	22.9
40	16QAM	1	1	20.99	20.98	21.00	21.8
40	256QAM	1	1	19.17	19.10	19.40	19.8
Channel							
Frequency (MHz)							
35	QPSK	1	1	21.95	21.96	21.99	22.9
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.91	21.95	21.93	22.9
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.98	21.94	21.97	22.9
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.97	21.91	21.97	22.9
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.01	21.94	21.95	22.9
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.95	21.90	21.90	22.9
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.93	21.84	21.94	22.9

n25_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	21.89	21.82	21.82	
40	PV2 BPSK	1	108	21.70	21.69	21.78	23.2
40	PV2 BPSK	1	214	21.71	21.62	21.81	
40	PV2 BPSK	108	0	21.70	21.74	21.74	23.2
40	PV2 BPSK	108	54	21.73	21.75	21.71	23.2
40	PV2 BPSK	108	108	21.84	21.85	21.88	23.2
40	PV2 BPSK	216	0	21.74	21.84	21.81	
40	QPSK	1	1	21.70	21.77	21.82	
40	QPSK	1	108	21.85	21.74	21.77	23.2
40	QPSK	1	214	21.71	21.75	21.73	
40	QPSK	108	0	21.75	21.84	21.80	23.2
40	QPSK	108	54	21.77	21.75	21.81	23.2
40	QPSK	108	108	21.74	21.71	21.76	
40	QPSK	216	0	21.85	21.70	21.77	23.2
40	16QAM	1	1	21.77	21.76	21.79	23.2
40	16QAM	1	1	21.15	21.20	21.38	22.7
40	256QAM	1	1	19.30	19.23	19.40	20.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	21.73	21.69	21.68	23.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.78	21.67	21.78	23.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.77	21.68	21.73	23.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.76	21.72	21.76	23.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.72	21.67	21.68	23.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.75	21.60	21.60	23.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.71	21.71	21.68	23.2

n30_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
10	PVQ BPSK	1	1	20.31			
10	PVQ BPSK	1	36	20.27			22.2
10	PVQ BPSK	1	50	20.31			
10	PVQ BPSK	25	0	20.32			22.2
10	PVQ BPSK	25	14	20.32			22.2
10	PVQ BPSK	25	27	20.28			22.2
10	PVQ BPSK	50	0	20.32			22.2
10	QPSK	1	1	20.28			
10	QPSK	1	36	20.28			22.2
10	QPSK	1	50	20.28			
10	QPSK	25	0	20.30			22.2
10	QPSK	25	14	20.30			22.2
10	QPSK	25	27	20.32			22.2
10	QPSK	50	0	20.32			22.2
10	16QAM	1	1	20.24			22.2
10	16QAM	1	1	20.30			22.2
10	256QAM	1	1	18.15			20.7
Channel							
Frequency (MHz)							
48	QPSK	1	1	20.31	20.37	20.27	22.2

n30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
10	PVQ BPSK	1	1	20.81			
10	PVQ BPSK	1	36	20.71			22.2
10	PVQ BPSK	1	50	20.80			
10	PVQ BPSK	25	0	20.70			22.2
10	PVQ BPSK	25	14	20.75			22.2
10	PVQ BPSK	25	27	20.78			22.2
10	PVQ BPSK	50	0	20.75			22.2
10	QPSK	1	1	20.68			
10	QPSK	1	36	20.78			22.2
10	QPSK	1	50	20.68			
10	QPSK	25	0	20.75			22.2
10	QPSK	25	14	20.82			22.2
10	QPSK	25	27	20.84			22.2
10	QPSK	50	0	20.78			22.2
10	16QAM	1	1	20.77			22.2
10	16QAM	1	1	20.80			21.7
10	256QAM	1	1	18.15			19.7
Channel							
Frequency (MHz)							
48	QPSK	1	1	20.74	20.79	20.78	22.2

n66_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
45	PVQ BPSK	1	1	21.27	21.51	21.44	
45	PVQ BPSK	1	30	21.40	21.54	21.40	22.9
45	PVQ BPSK	1	240	21.40	21.53	21.42	
45	PVQ BPSK	150	0	21.41	21.45	21.42	22.9
45	PVQ BPSK	150	80	21.44	21.48	21.47	22.9
45	PVQ BPSK	150	160	21.40	21.49	21.51	22.9
45	PVQ BPSK	240	0	21.43	21.45	21.47	
45	QPSK	1	1	21.20	21.80	21.20	
45	QPSK	1	150	21.42	21.56	21.51	22.9
45	QPSK	1	240	21.42	21.55	21.48	
45	QPSK	150	0	21.39	21.50	21.42	22.9
45	QPSK	150	80	21.47	21.58	21.51	22.9
45	QPSK	150	160	21.41	21.48	21.41	22.9
45	QPSK	240	0	21.45	21.51	21.40	22.9
45	16QAM	1	1	21.40	21.52	21.48	22.9
45	16QAM	1	1	21.51	21.63	21.51	22.9
45	256QAM	1	1	18.45	18.55	18.47	20.8
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.43	21.53	21.46	22.9
Channel							
Frequency (MHz)							
35	QPSK	1	1	21.51	21.49	21.48	22.9
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.50	21.53	21.49	22.9
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.51	21.51	21.52	22.9
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.41	21.46	21.48	22.9
Channel							
Frequency (MHz)							
16	QPSK	1	1	21.45	21.45	21.45	22.9
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.47	21.47	21.44	22.9
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.49	21.57	21.49	22.9

n66_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up limit (dBm)
Channel							
Frequency (MHz)							
45	PVQ BPSK	1	1	22.03	22.19	22.03	
45	PVQ BPSK	1	150	22.00	22.15	22.05	23.2
45	PVQ BPSK	1	240	22.07	22.14	22.07	
45	PVQ BPSK	150	0	22.05	22.08	22.09	23.2
45	PVQ BPSK	150	80	22.01	22.08	22.07	23.2
45	PVQ BPSK	150	160	22.02	22.08	22.01	23.2
45	PVQ BPSK	240	0	22.09	22.09	22.08	
45	QPSK	1	1	22.10	22.22	22.10	
45	QPSK	1	150	22.12	22.10	22.06	23.2
45	QPSK	1	240	22.10	22.10	22.08	
45	QPSK	150	0	22.04	22.11	22.08	23.2
45	QPSK	150	80	22.14	22.18	22.10	23.2
45	QPSK	150	160	22.10	22.12	22.05	23.2
45	QPSK	240	0	22.13	22.17	22.08	23.2
45	16QAM	1	1	22.11	22.21	22.03	23.2
45	16QAM	1	1	22.14	22.24	22.03	22.7
45	256QAM	1	1	18.52	18.62	18.52	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.08	22.18	22.05	23.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.03	22.17	22.08	23.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.03	22.12	22.04	23.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.07	22.13	22.08	23.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.04	22.07	22.07	23.2
Channel							
Frequency (MHz)							
16	QPSK	1	1	22.04	22.07	22.05	23.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.04	22.07	22.05	23.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.14	22.17	22.10	23.2

n66_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)
Channel							
Frequency (MHz)				34000	34000	34000	
45	PV2 BPSK	1	1	19.41	19.34	19.34	
45	PV2 BPSK	1	100	19.38	19.35	19.35	20.7
45	PV2 BPSK	1	240	19.38	19.35	19.35	
45	PV2 BPSK	100	0	19.29	19.44	19.26	20.7
45	PV2 BPSK	100	60	19.32	19.42	19.32	20.7
45	PV2 BPSK	100	150	19.42	19.48	19.29	20.7
45	PV2 BPSK	240	0	19.32	19.45	19.38	
45	QPSK	1	1	19.41	19.37	19.35	
45	QPSK	1	100	19.34	19.37	19.35	20.7
45	QPSK	1	240	19.35	19.40	19.23	
45	QPSK	100	0	19.29	19.38	19.29	20.7
45	QPSK	100	60	19.31	19.44	19.31	20.7
45	QPSK	100	150	19.41	19.42	19.28	20.7
45	HQAM	1	1	19.41	19.33	19.24	20.7
45	HQAM	1	1	19.38	19.37	19.29	20.7
45	256QAM	1	1	19.38	19.42	19.30	20.7
Channel							
Frequency (MHz)				34000	34000	34000	Time-up limit (dBm)
40	QPSK	1	1	19.25	19.30	19.33	20.7
Channel							
Frequency (MHz)				34000	34000	34000	Time-up limit (dBm)
35	QPSK	1	1	19.34	19.31	19.24	20.7
Channel							
Frequency (MHz)				34000	34000	34000	Time-up limit (dBm)
30	QPSK	1	1	19.24	19.39	19.32	20.7
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
25	QPSK	1	1	19.30	19.23	19.34	20.7
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
20	QPSK	1	1	19.24	19.45	1770	20.7
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
15	QPSK	1	1	19.32	19.20	19.27	20.7
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
10	QPSK	1	1	19.23	19.35	19.26	20.7
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
5	QPSK	1	1	19.25	19.22	19.21	20.7

n66_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)
Channel							
Frequency (MHz)				34000	34000	34000	
45	PV2 BPSK	1	1	22.29	22.32	22.17	
45	PV2 BPSK	1	100	22.18	22.30	22.24	23.4
45	PV2 BPSK	1	240	22.17	22.20	22.20	
45	PV2 BPSK	100	0	21.72	21.80	21.79	23.4
45	PV2 BPSK	100	60	22.20	22.20	22.19	23.4
45	PV2 BPSK	100	150	21.87	21.77	21.79	23.4
45	PV2 BPSK	240	0	21.81	21.84	21.77	
45	QPSK	1	1	22.23	22.25	22.25	
45	QPSK	1	100	22.19	22.22	22.24	23.4
45	QPSK	1	240	22.24	22.21	22.20	
45	QPSK	100	0	22.22	22.25	22.22	23.4
45	QPSK	100	60	22.19	22.34	22.25	23.4
45	QPSK	100	150	22.22	22.31	22.26	23.4
45	QPSK	240	0	22.21	22.33	22.23	23.4
45	HQAM	1	1	22.24	22.29	22.16	23.4
45	HQAM	1	1	21.81	21.84	21.80	23.4
45	256QAM	1	1	19.51	19.64	19.64	20.9
Channel							
Frequency (MHz)				34000	34000	34000	Time-up limit (dBm)
40	QPSK	1	1	22.18	22.24	22.17	23.4
Channel							
Frequency (MHz)				34000	34000	34000	Time-up limit (dBm)
35	QPSK	1	1	22.28	22.28	22.20	23.4
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
30	QPSK	1	1	22.20	22.25	22.28	23.4
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
25	QPSK	1	1	22.16	22.24	22.22	23.4
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
20	QPSK	1	1	22.21	22.23	22.24	23.4
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
15	QPSK	1	1	22.23	22.21	22.22	23.4
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
10	QPSK	1	1	22.24	22.21	22.22	23.4
Channel							
Frequency (MHz)				1725	1745	1765	Time-up limit (dBm)
5	QPSK	1	1	22.20	22.20	22.24	23.4

n71_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)
Channel							
Frequency (MHz)				1800	1800	1800	
35	PV2 BPSK	1	1	21.88			
35	PV2 BPSK	1	90	21.85			25.2
35	PV2 BPSK	1	180	21.88			
35	PV2 BPSK	90	0	21.91			24.7
35	PV2 BPSK	90	45	21.88			25.2
35	PV2 BPSK	90	90	21.81			24.7
35	PV2 BPSK	180	0	21.92			
35	QPSK	1	1	21.91			25.2
35	QPSK	1	90	21.91			25.2
35	QPSK	1	180	21.92			
35	QPSK	90	0	21.88			24.2
35	QPSK	90	45	21.81			25.2
35	QPSK	90	90	21.92			24.2
35	QPSK	180	0	21.92			
35	HQAM	1	1	22.31			24.2
35	HQAM	1	1	22.71			22.7
35	256QAM	1	1	19.92			20.7
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
30	QPSK	1	1	21.97	21.45	21.41	25.2
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
25	QPSK	1	1	21.93	21.30	21.33	25.2
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
20	QPSK	1	1	21.93	21.36	21.33	25.2
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
15	QPSK	1	1	21.93	21.36	21.36	25.2
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
10	QPSK	1	1	21.91	21.31	21.30	26.7
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
5	QPSK	1	1	21.94	21.30	21.31	25.2

n71_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)
Channel							
Frequency (MHz)				1800	1800	1800	
35	PV2 BPSK	1	1	21.93			
35	PV2 BPSK	1	90	21.42			24.4
35	PV2 BPSK	1	180	21.27			
35	PV2 BPSK	90	0	21.39			23.9
35	PV2 BPSK	90	45	21.31			24.4
35	PV2 BPSK	90	90	21.29			23.9
35	PV2 BPSK	180	0	21.28			
35	QPSK	1	1	21.99			24.4
35	QPSK	1	90	21.87			24.4
35	QPSK	1	180	21.76			
35	QPSK	90	0	21.88			23.4
35	QPSK	90	45	21.87			24.4
35	QPSK	90	90	21.76			23.4
35	QPSK	180	0	21.71			23.4
35	HQAM	1	1	21.92			23.4
35	HQAM	1	1	19.87			21.9
35	256QAM	1	1	17.91			19.9
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
30	QPSK	1	1	21.78	22.82	22.78	24.4
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
25	QPSK	1	1	21.74	22.77	22.70	24.4
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
20	QPSK	1	1	21.78	22.69	22.67	24.4
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
15	QPSK	1	1	21.92	22.77	22.66	24.4
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
10	QPSK	1	1	21.76	22.75	22.64	24.4
Channel							
Frequency (MHz)				1800	1810	1800	Time-up limit (dBm)
5	QPSK	1	1	21.72	22.75	22.62	24.4

n38_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Power Max. Ch. (Freq.)	Power Min. Ch. (Freq.)	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	18.59	18.63	18.68	18.88	18.84	
40	Pi2 BPSK	1	53	18.44	18.46	18.43			20.9
40	Pi2 BPSK	1	104	18.33	18.27	18.34			20.9
40	Pi2 BPSK	50	0	18.58	18.57	18.53			20.9
40	Pi2 BPSK	50	28	18.42	18.47	18.41			20.9
40	Pi2 BPSK	50	56	18.30	18.42	18.39			20.9
40	Pi2 BPSK	100	0	18.48	18.53	18.51			20.9
40	QPSK	1	1	18.70	18.72	18.76			20.9
40	QPSK	1	53	18.47	18.48	18.42			20.9
40	QPSK	1	104	18.41	18.47	18.40			20.9
40	QPSK	50	0	18.56	18.58	18.54			20.9
40	QPSK	50	28	18.71	18.71	18.71			20.9
40	QPSK	50	56	18.55	18.56	18.51			20.9
40	16QAM	1	1	18.52	18.54	18.51			20.9
40	16QAM	1	1	18.53	18.58	18.54			20.9
40	16QAM	1	1	18.46	18.48	18.42			20.9
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.95	18.93	18.93			20.9
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.83	18.89	18.86			20.9
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.83	18.70	18.65			20.9
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.86	18.84	18.82			20.9
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.87	18.73	18.64			20.9

n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Power Max. Ch. (Freq.)	Power Min. Ch. (Freq.)	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	18.50	18.56	18.68	18.88	18.88	
40	Pi2 BPSK	1	53	18.63	18.65	18.58			20.2
40	Pi2 BPSK	1	104	18.21	18.81	18.21			20.2
40	Pi2 BPSK	50	0	18.70	18.77	18.67			20.2
40	Pi2 BPSK	50	28	18.15	18.78	18.23			20.2
40	Pi2 BPSK	50	56	18.54	18.60	18.54			20.2
40	Pi2 BPSK	100	0	18.64	18.82	18.77			20.2
40	QPSK	1	1	18.69	18.69	18.70			20.2
40	QPSK	1	53	18.80	18.83	18.74			20.2
40	QPSK	1	104	18.81	18.86	18.78			20.2
40	QPSK	50	0	18.74	18.70	18.70			20.2
40	QPSK	50	28	18.11	18.30	18.10			20.2
40	QPSK	50	56	18.72	18.73	18.66			20.2
40	16QAM	1	1	18.72	18.77	18.67			20.2
40	16QAM	1	1	18.74	18.80	18.75			20.2
40	16QAM	1	1	18.80	18.90	18.85			20.2
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.88	18.85	18.79			20.2
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.85	18.91	18.79			20.2
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.87	18.91	18.81			20.2
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.82	18.88	18.83			20.2
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.80	18.94	18.77			20.2

n38_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Power Max. Ch. (Freq.)	Power Min. Ch. (Freq.)	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	18.96	18.98	18.94			19.7
40	Pi2 BPSK	1	53	18.68	18.72	18.68			19.7
40	Pi2 BPSK	1	104	18.58	18.61	18.57			19.7
40	Pi2 BPSK	50	0	18.89	18.90	18.86			19.7
40	Pi2 BPSK	50	28	18.82	18.81	18.80			19.7
40	Pi2 BPSK	50	56	18.81	18.81	18.87			19.7
40	Pi2 BPSK	100	0	18.83	18.80	18.84			19.7
40	QPSK	1	1	18.91	18.91	18.90			19.7
40	QPSK	1	53	18.73	18.71	18.74			19.7
40	QPSK	1	104	18.71	18.71	18.85			19.7
40	QPSK	50	0	18.84	18.82	18.70			19.7
40	QPSK	50	28	18.80	18.82	18.70			19.7
40	QPSK	50	56	18.66	18.68	18.87			19.7
40	16QAM	1	1	18.81	18.84	18.79			19.7
40	16QAM	1	1	18.84	18.85	18.80			19.7
40	16QAM	1	1	18.90	18.90	18.81			19.7
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.91	18.92	18.87			19.7
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.84	18.88	18.90			19.7
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.86	18.91	18.83			19.7
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.87	18.84	18.81			19.7
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.85	18.91	18.89			19.7

n38_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Middle Ch. (Freq.)	Power High Ch. (Freq.)	Power Max. Ch. (Freq.)	Power Min. Ch. (Freq.)	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	21.83	21.87	21.82			22.4
40	Pi2 BPSK	1	53	21.82	21.86	21.88			22.4
40	Pi2 BPSK	1	104	21.84	21.81	21.81			22.4
40	Pi2 BPSK	50	0	21.84	21.88	21.80			22.4
40	Pi2 BPSK	50	28	21.43	21.45	21.42			22.4
40	Pi2 BPSK	50	56	21.89	21.82	21.88			22.4
40	Pi2 BPSK	100	0	21.46	21.49	21.41			22.4
40	QPSK	1	1	21.88	21.88	21.88			22.4
40	QPSK	1	53	21.85	21.81	21.87			22.4
40	QPSK	1	104	21.28	21.33	21.28			22.4
40	QPSK	50	0	21.88	21.46	21.43			22.4
40	QPSK	50	28	21.41	21.51	21.51			22.4
40	QPSK	50	56	21.28	21.35	21.28			22.4
40	16QAM	1	1	21.85	21.41	21.33			22.4
40	16QAM	1	1	21.48	21.48	21.48			22.4
40	16QAM	1	1	21.88	21.90	21.85			22.4
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.44	21.51	21.45			22.4
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.46	21.55	21.50			22.4
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.45	21.54	21.50			22.4
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.48	21.54	21.49			22.4
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.49	21.49	21.50			22.4



FCC_n41_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power PGM. Ch. Freq. (MHz)	Turn-up limit (dBm)		
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	20.05	20.38	20.34			
100	Pi2 BPSK	1	137	20.06	20.34	20.28	21.7		
100	Pi2 BPSK	1	271	20.22	20.32	20.41			
100	Pi2 BPSK	135	0	19.78	20.08	20.04	21.7		
100	Pi2 BPSK	135	66	19.87	20.30	20.25	21.7		
100	Pi2 BPSK	135	138	20.01	20.34	20.32	21.7		
100	Pi2 BPSK	270	0	19.89	20.20	20.13	21.7		
100	QPSK	1	1	20.07	20.54				
100	QPSK	1	137	20.07	20.37	20.30	21.7		
100	QPSK	1	271	20.10	20.39	20.30	21.7		
100	QPSK	135	0	20.26	20.32	20.21	21.7		
100	QPSK	135	66	20.37	20.37	20.37	21.7		
100	QPSK	135	138	20.61	20.34	20.32	21.7		
100	SSB-AM	1	1	20.06	20.42	20.35	21.7		
100	SSB-AM	1	1	20.07	20.36	20.31	21.7		
100	SSB-AM	1	1	20.02	20.32	20.20	21.7		
100	SSB-AM	1	1	20.06	20.42	20.35	21.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.01	20.22	20.18	21.7		
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.12	20.30	20.17	21.7		
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.13	20.26	20.18	21.7		
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.10	20.25	20.24	21.7		
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.09	20.28	20.24	21.7		
Channel									
Frequency (MHz)									
45	QPSK	1	1	20.13	20.25	20.19	21.7		
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.17	20.29	20.24	21.7		
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.13	20.28	20.19	21.7		
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.11	20.29	20.22	21.7		
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.08	20.27	20.20	21.7		
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.12	20.24	20.19	21.7		
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.08	20.25	20.20	21.7		
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.14	20.30	20.24	21.7		

FCC_n41(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power PGM. Ch. Freq. (MHz)	Turn-up limit (dBm)		
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	20.05	20.38	20.34			
100	Pi2 BPSK	1	137	20.06	20.34	20.28	21.7		
100	Pi2 BPSK	1	271	20.22	20.32	20.41			
100	Pi2 BPSK	135	0	19.78	20.08	20.04	21.7		
100	Pi2 BPSK	135	66	19.87	20.30	20.25	21.7		
100	Pi2 BPSK	135	138	20.01	20.34	20.32	21.7		
100	Pi2 BPSK	270	0	19.89	20.20	20.13	21.7		
100	QPSK	1	1	20.07	20.54				
100	QPSK	1	137	20.07	20.37	20.30	21.7		
100	QPSK	1	271	20.10	20.39	20.30	21.7		
100	QPSK	135	0	20.26	20.32	20.21	21.7		
100	QPSK	135	66	20.37	20.37	20.37	21.7		
100	QPSK	135	138	20.61	20.34	20.32	21.7		
100	SSB-AM	1	1	20.06	20.42	20.35	21.7		
100	SSB-AM	1	1	20.07	20.36	20.31	21.7		
100	SSB-AM	1	1	20.02	20.32	20.20	21.7		
100	SSB-AM	1	1	20.06	20.42	20.35	21.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.01	20.22	20.18	21.7		
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.12	20.30	20.17	21.7		
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.13	20.26	20.18	21.7		
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.10	20.25	20.24	21.7		
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.09	20.28	20.24	21.7		
Channel									
Frequency (MHz)									
45	QPSK	1	1	20.13	20.25	20.19	21.7		
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.17	20.29	20.24	21.7		
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.13	20.28	20.19	21.7		
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.11	20.29	20.22	21.7		
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.08	20.27	20.20	21.7		
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.12	20.24	20.19	21.7		
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.08	20.25	20.20	21.7		
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.14	20.30	20.24	21.7		

FCC_n41_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power PGM. Ch. Freq. (MHz)	Turn-up limit (dBm)		
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	19.08	19.30	19.22			
100	Pi2 BPSK	1	137	19.02	19.29	19.07	20.7		
100	Pi2 BPSK	1	271	19.09	19.27	19.08			
100	Pi2 BPSK	135	0	18.89	19.31	19.01	20.7		
100	Pi2 BPSK	135	66	19.03	19.23	19.12	20.7		
100	Pi2 BPSK	135	138	19.07	19.24	19.01	20.7		
100	Pi2 BPSK	270	0	18.89	19.19	19.01	20.7		
100	QPSK	1	1	19.09	19.37				
100	QPSK	1	137	19.09	19.37	19.14	20.7		
100	QPSK	1	271	19.12	19.39	19.15	20.7		
100	QPSK	135	0	19.02	19.27	19.16	20.7		
100	QPSK	135	66	19.15	19.35	19.24	20.7		
100	QPSK	135	138	19.07	19.31	19.16	20.7		
100	SSB-AM	1	1	19.09	19.34	19.19	20.7		
100	SSB-AM	1	1	19.09	19.32	19.19	20.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.05	19.27	19.15	20.7		
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.04	19.24	19.18	20.7		
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.08	19.28	19.19	20.7		
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.08	19.23	19.22	20.7		
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.08	19.28	19.15	20.7		
Channel									
Frequency (MHz)									
48	QPSK	1	1	19.04	19.20	19.21	20.7		
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.12	19.19	19.22	20.7		
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.08	19.18	19.23	20.7		
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.11	19.23	19.21	20.7		
Channel									
Frequency (MHz)									
28	QPSK	1	1	19.13	19.23	19.23	20.7		
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.05	19.29	19.15	20.7		
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.05	19.21	19.17	20.7		
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.10	19.27	19.23	20.7		

FCC_n41(HPUE)_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Power PGM. Ch. Freq. (MHz)	Turn-up limit (dBm)		
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	19.08	19.30	19.22			
100	Pi2 BPSK	1	137	19.02	19.29	19.07	20.7		
100	Pi2 BPSK	1	271	19.09	19.27	19.08			
100	Pi2 BPSK	135	0	18.89	19.31	19.01	20.7		
100	Pi2 BPSK	135	66	19.03	19.23	19.12	20.7		
100	Pi2 BPSK	135	138	19.07	19.24	19.01	20.7		
100	Pi2 BPSK	270	0	18.89	19.19	19.01	20.7		
100	QPSK	1	1	19.09	19.37				
100	QPSK	1	137	19.09	19.37	19.14	20.7		
100	QPSK	1	271	19.12	19.39	19.15	20.7		
100	QPSK	135	0	19.02	19.27	19.16	20.7		
100	QPSK	135	66	19.15	19.35	19.24	20.7		
100	QPSK	135	138	19.07	19.31	19.16	20.7		
100	SSB-AM	1	1	19.09	19.34	19.19	20.7		
100	SSB-AM	1	1	19.09	19.32	19.19	20.7		
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.05	19.27	19.15	20.7		
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.04	19.24	19.18	20.7		
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.08	19.28	19			





Part96_n48_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)				83800	84196	84532	
40	PV2 BPSK	1	1	20.36	21.61	21.05	
40	PV2 BPSK	1	53	20.78	20.94	20.88	22.2
40	PV2 BPSK	1	104	20.78	20.85	20.88	22.2
40	PV2 BPSK	50	0	20.74	20.83	20.90	22.2
40	PV2 BPSK	50	28	20.87	20.87	20.89	22.2
40	PV2 BPSK	50	56	20.79	20.86	20.89	22.2
40	PV2 BPSK	100	0	20.73	20.83	20.88	22.2
40	QPSK	1	1	21.48	21.64	21.54	
40	QPSK	1	53	21.91	21.08	20.98	22.2
40	QPSK	1	104	20.89	21.00	20.95	22.2
40	QPSK	50	0	20.85	20.96	20.95	22.2
40	QPSK	50	28	20.85	21.05	21.01	22.2
40	QPSK	50	56	20.83	21.61	20.96	22.2
40	QPSK	100	0	20.85	20.96	20.95	22.2
40	8QAM	1	1	20.87	21.10	21.02	22.2
40	8QAM	1	1	20.88	21.10	20.98	22.2
40	8QAM	1	1	19.87	19.79	19.80	20.7
Channel							
Frequency (MHz)				83788	84196	84568	Tune-up limit (dBm)
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
30	QPSK	1	1	20.93	21.05	20.99	22.2
Channel							
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
20	QPSK	1	1	20.96	21.03	21.01	22.2
Channel							
Frequency (MHz)				83718	84196	84518	Tune-up limit (dBm)
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
15	QPSK	1	1	20.89	21.06	20.96	22.2
Channel							
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
Frequency (MHz)				8365	84540	84948	Tune-up limit (dBm)
10	QPSK	1	1	20.90	21.00	21.00	22.2

Part96_n48_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)				83800	84196	84532	
40	PV2 BPSK	1	1	22.07	22.83	22.81	
40	PV2 BPSK	1	53	22.46	22.49	22.55	23.7
40	PV2 BPSK	1	104	22.44	22.56	22.58	23.7
40	PV2 BPSK	50	0	22.53	20.80	20.52	23.7
40	PV2 BPSK	50	28	22.44	22.52	22.44	23.7
40	PV2 BPSK	50	56	20.47	20.46	20.38	23.7
40	PV2 BPSK	100	0	20.46	20.60	20.54	23.7
40	QPSK	1	1	22.08	22.73	22.68	
40	QPSK	1	53	22.86	22.55	22.60	23.7
40	QPSK	1	104	22.48	22.83	22.53	23.7
40	QPSK	50	0	22.59	20.88	20.58	23.7
40	QPSK	50	28	22.57	22.82	22.54	23.7
40	QPSK	50	56	20.53	20.60	20.53	23.7
40	QPSK	100	0	22.53	20.85	20.61	23.7
40	8QAM	1	1	21.58	21.60	21.40	23.2
40	8QAM	1	1	19.83	19.87	19.85	20.2
Channel							
Frequency (MHz)				83788	84196	84568	Tune-up limit (dBm)
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
30	QPSK	1	1	22.37	22.59	22.61	23.7
Channel							
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
20	QPSK	1	1	22.86	22.57	22.58	23.7
Channel							
Frequency (MHz)				83718	84196	84518	Tune-up limit (dBm)
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
15	QPSK	1	1	22.07	22.82	22.85	23.7
Channel							
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
Frequency (MHz)				8365	84540	84948	Tune-up limit (dBm)
10	QPSK	1	1	22.52	22.59	22.58	23.7

Part96_n48_Ant 11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)				83800	84196	84532	
40	PV2 BPSK	1	1	21.48	21.64	21.63	
40	PV2 BPSK	1	53	21.38	21.53	21.45	22.7
40	PV2 BPSK	1	104	21.38	21.48	21.48	22.7
40	PV2 BPSK	50	0	21.20	21.41	21.33	22.7
40	PV2 BPSK	50	28	21.25	21.52	21.51	22.7
40	PV2 BPSK	50	56	21.21	21.52	21.52	22.7
40	PV2 BPSK	100	0	21.25	21.45	21.43	22.7
40	QPSK	1	1	21.48	21.69	21.68	
40	QPSK	1	53	21.48	21.80	21.54	22.7
40	QPSK	1	104	21.48	21.54	21.57	22.7
40	QPSK	50	0	21.24	21.55	21.42	22.7
40	QPSK	50	28	21.44	21.62	21.62	22.7
40	QPSK	50	56	21.09	21.19	21.10	22.7
40	QPSK	100	0	21.25	21.03	21.14	22.2
40	8QAM	1	1	21.50	21.54	21.62	22.7
40	8QAM	1	1	21.50	21.58	21.54	22.7
40	8QAM	1	1	20.99	20.12	20.11	20.7
Channel							
Frequency (MHz)				83788	84196	84568	Tune-up limit (dBm)
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
30	QPSK	1	1	21.48	21.58	21.53	22.7
Channel							
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
20	QPSK	1	1	21.52	21.82	21.60	22.7
Channel							
Frequency (MHz)				83718	84196	84518	Tune-up limit (dBm)
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
15	QPSK	1	1	21.49	21.57	21.63	22.7
Channel							
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
Frequency (MHz)				8365	84540	84948	Tune-up limit (dBm)
10	QPSK	1	1	21.47	21.54	21.54	22.7

Part96_n48_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)				83800	84196	84532	
40	PV2 BPSK	1	1	17.89	18.03	18.00	
40	PV2 BPSK	1	53	17.86	17.89	17.96	18.7
40	PV2 BPSK	1	104	17.90	18.03	17.99	18.7
40	PV2 BPSK	50	0	17.87	17.87	17.96	18.7
40	PV2 BPSK	50	28	17.89	17.94	17.92	18.7
40	PV2 BPSK	50	56	17.90	18.01	17.95	18.7
40	PV2 BPSK	100	0	17.97	17.98	17.96	18.7
40	QPSK	1	1	17.97	18.04	18.04	
40	QPSK	1	53	17.97	18.04	18.04	18.7
40	QPSK	1	104	17.98	18.09	18.05	18.7
40	QPSK	50	0	17.94	17.98	17.96	18.7
40	QPSK	50	28	17.94	18.05	18.01	18.7
40	QPSK	50	56	17.93	17.97	18.01	18.7
40	QPSK	100	0	17.90	18.04	17.95	18.7
40	8QAM	1	1	17.90	17.97	17.95	18.7
40	8QAM	1	1	17.87	17.96	18.00	18.7
40	8QAM	1	1	17.96	17.97	17.95	18.7
Channel							
Frequency (MHz)				83788	84196	84568	Tune-up limit (dBm)
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
30	QPSK	1	1	17.87	17.92	18.00	18.7
Channel							
Frequency (MHz)				83734	84196	84600	Tune-up limit (dBm)
20	QPSK	1	1	17.89	18.00	17.93	18.7
Channel							
Frequency (MHz)				83718	84196	84518	Tune-up limit (dBm)
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
15	QPSK	1	1	17.89	18.02	18.00	18.7
Channel							
Frequency (MHz)				83700	84196	84532	Tune-up limit (dBm)
Frequency (MHz)				8365	84540	84948	Tune-up limit (dBm)
10	QPSK	1	1	17.96	17.98	17.97	18.7





Part27Q_n77_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Typ. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.38	18.18	17.80	
100	Pi2 BPSK	1	137	18.23	18.18	17.86	19.7
100	Pi2 BPSK	1	271	18.18	18.00	17.82	
100	Pi2 BPSK	136	0	18.07	17.87	17.79	19.7
100	Pi2 BPSK	136	66	18.00	18.09	17.86	19.7
100	Pi2 BPSK	136	138	18.04	18.05	17.76	19.7
100	Pi2 BPSK	270	0	18.08	17.84	17.72	19.7
100	QPSK	1	1	18.44	18.25	17.88	
100	QPSK	1	137	18.35	18.23	17.81	19.7
100	QPSK	1	271	18.31	18.19	17.75	19.7
100	QPSK	136	0	18.26	18.05	17.64	19.7
100	QPSK	136	66	18.20	18.11	17.71	19.7
100	QPSK	136	138	18.26	18.12	17.68	19.7
100	16QAM	1	1	18.38	18.24	17.80	19.7
100	16QAM	1	1	18.38	18.23	17.79	19.7
100	256QAM	1	1	18.29	18.19	17.79	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.52	18.21	17.75	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.50	18.68	18.50	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.32	18.20	17.76	19.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.35	18.26	17.74	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.32	18.23	17.83	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.35	18.21	17.80	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.31	18.22	17.77	19.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.34	18.24	17.83	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.31	18.22	17.76	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.30	18.19	17.74	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.33	18.21	17.81	19.7

Part270_n77_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Media Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.38	18.18	17.80	
100	Pi2 BPSK	1	137	18.23	18.18	17.86	19.7
100	Pi2 BPSK	1	271	18.18	18.00	17.82	
100	Pi2 BPSK	136	0	18.07	17.87	17.79	19.7
100	Pi2 BPSK	136	66	18.20	18.09	17.86	19.7
100	Pi2 BPSK	136	138	18.04	18.05	17.76	19.7
100	Pi2 BPSK	270	0	18.08	17.84	17.72	19.7
100	QPSK	1	1	18.44	18.25	17.88	
100	QPSK	1	137	18.35	18.23	17.81	19.7
100	QPSK	1	271	18.31	18.19	17.75	19.7
100	QPSK	136	0	18.26	18.05	17.64	19.7
100	QPSK	136	66	18.20	18.11	17.71	19.7
100	QPSK	136	138	18.26	18.12	17.68	19.7
100	16QAM	1	1	18.38	18.24	17.80	19.7
100	16QAM	1	1	18.38	18.23	17.79	19.7
100	256QAM	1	1	18.29	18.19	17.79	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.52	18.21	17.75	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.50	18.68	18.50	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.32	18.20	17.76	19.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.35	18.26	17.74	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.32	18.23	17.83	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.35	18.21	17.80	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.31	18.22	17.77	19.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.34	18.24	17.83	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.31	18.22	17.76	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.30	18.19	17.74	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.33	18.21	17.81	19.7

Part27Q_n77(HPUe)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Media Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.69	18.48	18.10	
100	Pi2 BPSK	1	137	18.54	18.48	18.12	19.7
100	Pi2 BPSK	1	271	18.48	18.30	18.12	
100	Pi2 BPSK	136	0	18.37	18.17	17.93	19.7
100	Pi2 BPSK	136	66	18.30	18.49	18.16	19.7
100	Pi2 BPSK	136	138	18.42	18.43	18.13	19.7
100	Pi2 BPSK	270	0	18.53	18.29	18.12	19.7
100	QPSK	1	1	18.77	18.58	18.20	
100	QPSK	1	137	18.70	18.58	18.20	19.7
100	QPSK	1	271	18.68	18.55	18.17	19.7
100	QPSK	136	0	18.54	18.34	18.10	19.7
100	QPSK	136	66	18.50	18.55	18.17	19.7
100	QPSK	136	138	18.58	18.49	18.15	19.7
100	16QAM	1	1	18.65	18.54	18.17	19.7
100	16QAM	1	1	18.65	18.53	18.17	19.7
100	256QAM	1	1	18.59	18.49	18.17	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.82	18.61	18.22	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.80	18.88	18.50	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.62	18.65	18.24	19.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.67	18.69	18.32	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.61	18.64	18.48	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.69	18.68	18.51	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.64	18.70	18.48	19.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.70	18.84	18.52	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.67	18.84	18.53	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.69	18.85	18.53	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.62	18.64	18.52	19.7

Part270_n77(HPUe)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Media Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.38	18.18	17.80	
100	Pi2 BPSK	1	137	18.23	18.18	17.86	19.7
100	Pi2 BPSK	1	271	18.18	18.00	17.82	
100	Pi2 BPSK	136	0	18.07	17.87	17.79	19.7
100	Pi2 BPSK	136	66	18.20	18.09	17.86	19.7
100	Pi2 BPSK	136	138	18.04	18.05	17.76	19.7
100	Pi2 BPSK	270	0	18.08	17.84	17.72	19.7
100	QPSK	1	1	18.44	18.25	17.88	
100	QPSK	1	137	18.35	18.23	17.81	19.7
100	QPSK	1	271	18.31	18.19	17.75	19.7
100	QPSK	136	0	18.26	18.05	17.64	19.7
100	QPSK	136	66	18.20	18.11	17.71	19.7
100	QPSK	136	138	18.26	18.12	17.68	19.7
100	16QAM	1	1	18.38	18.24	17.80	19.7
100	16QAM	1	1	18.38	18.23	17.79	19.7
100	256QAM	1	1	18.29	18.19	17.79	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.52	18.21	17.75	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.50	18.68	18.50	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.32	18.20	17.76	19.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.35	18.26	17.74	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.32	18.23	17.83	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.35	18.21	17.80	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.31	18.22	17.77	19.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.34	18.24	17.83	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.31	18.22	17.76	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.30	18.19	17.74	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.33	18.21	17.81	19.7





Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Typ. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.17	22.15	22.25	22.15	22.25	
100	Pi2 BPSK	1	137	22.22	21.87	22.21	21.87	22.21	23.2
100	Pi2 BPSK	1	271	22.23	22.28	22.23	22.28	22.23	
100	Pi2 BPSK	136	0	21.90	21.89	21.87	21.87	21.87	23.2
100	Pi2 BPSK	136	66	22.11	21.93	22.15	21.93	22.15	23.2
100	Pi2 BPSK	136	138	22.16	21.99	22.19	21.99	22.19	23.2
100	Pi2 BPSK	270	0	21.88	21.81	21.89	21.81	21.89	23.2
100	QPSK	1	1	22.28	22.28	22.28	22.28	22.28	
100	QPSK	1	137	22.31	22.11	22.30	22.11	22.30	23.2
100	QPSK	1	271	22.30	22.14	22.25	22.14	22.25	23.2
100	QPSK	136	0	22.20	22.00	22.20	22.00	22.20	23.2
100	QPSK	136	66	22.22	22.05	22.20	22.05	22.20	23.2
100	QPSK	136	138	22.14	22.06	22.10	22.06	22.10	23.2
100	QPSK	270	0	22.16	21.99	22.12	21.99	22.12	23.2
100	16QAM	1	1	22.29	22.13	22.21	22.13	22.21	23.2
100	16QAM	1	137	22.23	22.14	22.24	22.14	22.24	23.2
100	16QAM	1	271	22.23	22.14	22.24	22.14	22.24	23.2
100	16QAM	136	0	22.09	21.91	22.04	21.91	22.04	22.7
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.10	22.10	22.10	22.10	22.10	23.2
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.08	22.11	22.05	22.11	22.05	23.2
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.13	22.14	22.08	22.14	22.08	23.2
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.09	22.14	22.08	22.14	22.08	23.2
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.15	22.09	22.06	22.09	22.06	23.2
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.10	22.11	22.04	22.11	22.04	23.2
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.16	22.19	22.09	22.19	22.09	23.2
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.14	22.16	22.11	22.16	22.11	23.2
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.15	22.11	22.12	22.11	22.12	23.2
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.09	22.10	22.07	22.10	22.07	23.2
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.13	22.17	22.08	22.17	22.08	23.2

Part270_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Typ. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.31	22.15	22.25	22.15	22.25	
100	Pi2 BPSK	1	137	22.25	21.87	22.21	21.87	22.21	23.2
100	Pi2 BPSK	1	271	22.23	22.28	22.23	22.28	22.23	
100	Pi2 BPSK	136	0	22.09	21.89	21.87	21.87	21.87	23.2
100	Pi2 BPSK	136	66	22.16	21.93	22.15	21.93	22.15	23.2
100	Pi2 BPSK	136	138	22.09	21.99	22.09	21.99	22.09	23.2
100	Pi2 BPSK	270	0	22.04	21.81	21.89	21.81	21.89	23.2
100	QPSK	1	1	22.28	22.28	22.28	22.28	22.28	
100	QPSK	1	137	22.31	22.11	22.30	22.11	22.30	23.2
100	QPSK	1	271	22.30	22.14	22.25	22.14	22.25	23.2
100	QPSK	136	0	22.20	22.00	22.20	22.00	22.20	23.2
100	QPSK	136	66	22.22	22.05	22.20	22.05	22.20	23.2
100	QPSK	136	138	22.14	22.06	22.10	22.06	22.10	23.2
100	QPSK	270	0	22.16	21.99	22.12	21.99	22.12	23.2
100	16QAM	1	1	22.29	22.13	22.21	22.13	22.21	23.2
100	16QAM	1	137	22.23	22.14	22.24	22.14	22.24	23.2
100	16QAM	1	271	22.23	22.14	22.24	22.14	22.24	23.2
100	16QAM	136	0	22.09	21.91	22.04	21.91	22.04	22.7
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.23	22.09	22.20	22.09	22.20	23.2
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.30	22.07	22.27	22.07	22.27	23.2
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.23	22.09	22.20	22.09	22.20	23.2
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.23	22.16	22.20	22.16	22.20	23.2
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.29	22.12	22.21	22.12	22.21	23.2
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.28	22.07	22.20	22.07	22.20	23.2
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.23	22.11	22.26	22.11	22.26	23.2
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.24	22.10	22.29	22.10	22.29	23.2
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.26	22.12	22.27	22.12	22.27	23.2
Channel									
Frequency (MHz)									
16	QPSK	1	1	22.21	22.13	22.22	22.13	22.22	23.2
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.20	22.08	22.26	22.08	22.26	23.2

Part27Q_n77(HPUe)_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Typ. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.17	22.15	22.17	22.15	22.17	
100	Pi2 BPSK	1	137	22.22	21.87	22.21	21.87	22.21	23.2
100	Pi2 BPSK	1	271	22.23	22.28	22.23	22.28	22.23	
100	Pi2 BPSK	136	0	21.90	21.89	21.87	21.87	21.87	23.2
100	Pi2 BPSK	136	66	22.11	21.93	22.15	21.93	22.15	23.2
100	Pi2 BPSK	136	138	22.16	21.99	22.19	21.99	22.19	23.2
100	Pi2 BPSK	270	0	21.88	21.81	21.89	21.81	21.89	23.2
100	QPSK	1	1	22.24	22.24	22.24	22.24	22.24	
100	QPSK	1	137	22.15	22.15	22.15	22.15	22.15	23.2
100	QPSK	1	271	22.10	22.10	22.10	22.10	22.10	23.2
100	QPSK	136	0	22.16	22.16	22.16	22.16	22.16	23.2
100	QPSK	136	66	22.17	22.17	22.17	22.17	22.17	23.2
100	QPSK	136	138	22.04	22.04	22.04	22.04	22.04	23.2
100	QPSK	270	0	22.02	22.02	22.02	22.02	22.02	23.2
100	16QAM	1	1	22.13	22.13	22.13	22.13	22.13	23.2
100	16QAM	1	137	22.15	22.14	22.14	22.14	22.14	23.2
100	16QAM	1	271	22.15	22.14	22.14	22.14	22.14	23.2
100	16QAM	136	0	22.09	21.91	22.04	21.91	22.04	22.7
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.10	22.10	22.10	22.10	22.10	23.2
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.08	22.11	22.05	22.11	22.05	23.2
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.13	22.14	22.08	22.14	22.08	23.2
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.09	22.14	22.08	22.14	22.08	23.2
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.15	22.09	22.06	22.09	22.06	23.2
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.10	22.11	22.04	22.11	22.04	23.2
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.16	22.19	22.09	22.19	22.09	23.2
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.14	22.16	22.11	22.16	22.11	23.2
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.15	22.11	22.12	22.11	22.12	23.2
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.09	22.10	22.07	22.10	22.07	23.2
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.13	22.17	22.08	22.17	22.08	23.2

Part270_n77(HPUe)_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Typ. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	22.31	22.15	22.25	22.15	22.25	
100	Pi2 BPSK	1	137	22.25	21.87	22.21	21.87	22.21	23.2
100	Pi2 BPSK	1	271	22.23	22.28	22.23	22.28	22.23	
100	Pi2 BPSK	136	0	22.09	21.89	21.87	21.87	21.87	23.2
100	Pi2 BPSK	136	66	22.16	21.93	22.15	21.93	22.15	23.2
100	Pi2 BPSK	136	138	22.09	21.99	22.09	21.99	22.09	23.2
100	Pi2 BPSK	270	0	22.04	21.81	21.89	21.81	21.89	23.2
100	QPSK	1	1	22.28	22.28	22.28	22.28	22.28	
100	QPSK	1	137	22.31	22.11	22.30	22.11	22.30	23.2



Part27Q_n77_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.21	17.87	17.80	
100	Pi2 BPSK	1	137	18.13	17.82	17.71	19.2
100	Pi2 BPSK	1	271	18.11	17.88	17.83	
100	Pi2 BPSK	136	0	17.74	17.87	17.88	19.2
100	Pi2 BPSK	136	66	17.83	17.89	17.89	19.2
100	Pi2 BPSK	136	138	17.85	17.87	17.84	19.2
100	Pi2 BPSK	270	0	17.77	17.88	17.79	19.2
100	QPSK	1	1	18.21	17.89	17.80	
100	QPSK	1	137	18.22	17.98	17.82	19.2
100	QPSK	1	271	18.22	18.01	17.74	19.2
100	QPSK	136	0	18.06	18.06	17.84	19.2
100	QPSK	136	66	18.10	18.00	17.77	19.2
100	QPSK	136	138	18.09	18.01	17.71	19.2
100	QPSK	270	0	18.02	17.85	17.71	19.2
100	16QAM	1	1	18.20	17.84	17.80	19.2
100	16QAM	1	1	18.20	18.06	17.79	19.2
100	16QAM	1	1	18.17	18.02	17.77	19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.00	18.00	17.82	19.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.94	18.02	17.96	19.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.83	18.09	17.96	19.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.82	18.02	17.98	19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.88	18.08	17.96	19.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.95	18.08	18.04	19.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.91	18.05	17.96	19.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	17.86	18.02	18.00	19.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.82	18.00	17.95	19.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.79	18.00	17.96	19.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.70	18.00	17.95	19.2

Part270_n77_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.21	17.87	17.80	
100	Pi2 BPSK	1	137	18.13	17.82	17.71	19.2
100	Pi2 BPSK	1	271	18.11	17.88	17.83	
100	Pi2 BPSK	136	0	17.74	17.87	17.88	19.2
100	Pi2 BPSK	136	66	18.04	18.00	17.89	19.2
100	Pi2 BPSK	136	138	17.85	17.87	17.84	19.2
100	Pi2 BPSK	270	0	17.87	17.88	17.79	19.2
100	QPSK	1	1	18.21	17.89	17.80	
100	QPSK	1	137	18.22	17.98	17.82	19.2
100	QPSK	1	271	18.22	18.01	17.74	19.2
100	QPSK	136	0	18.06	18.06	17.84	19.2
100	QPSK	136	66	18.10	18.00	17.77	19.2
100	QPSK	136	138	18.09	18.01	17.71	19.2
100	QPSK	270	0	18.02	17.85	17.71	19.2
100	16QAM	1	1	18.20	17.84	17.80	19.2
100	16QAM	1	1	18.20	18.06	17.79	19.2
100	16QAM	1	1	18.17	18.02	17.77	19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.10	18.03	17.82	19.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.10	18.00	17.79	19.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.26	17.89	17.80	19.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.17	17.87	17.79	19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.20	18.01	17.77	19.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.28	18.02	17.84	19.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.25	17.96	17.82	19.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.23	17.88	17.84	19.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.20	17.80	17.79	19.2
Channel							
Frequency (MHz)							
16	QPSK	1	1	18.17	18.01	17.83	19.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.16	18.02	17.76	19.2

Part27Q_n77(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.01			
100	Pi2 BPSK	1	137	17.85			19.2
100	Pi2 BPSK	1	271	17.85			
100	Pi2 BPSK	136	0	17.74			19.2
100	Pi2 BPSK	136	66	17.83			19.2
100	Pi2 BPSK	136	138	17.85			19.2
100	Pi2 BPSK	270	0	17.77			19.2
100	QPSK	1	1	18.02			
100	QPSK	1	137	18.05			19.2
100	QPSK	1	271	18.01			19.2
100	QPSK	136	0	17.86			19.2
100	QPSK	136	66	18.03			19.2
100	QPSK	136	138	18.09			19.2
100	QPSK	270	0	17.81			19.2
100	16QAM	1	1	18.07			19.2
100	16QAM	1	1	18.08			19.2
100	16QAM	1	1	18.00			19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.00			19.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.94			19.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.93			19.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.82			19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.88			19.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.85			19.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.82			19.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	17.80			19.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.77			19.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.75			19.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.70			19.2

Part270_n77(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi2 BPSK	1	1	18.21	17.87	17.86	
100	Pi2 BPSK	1	137	18.13	17.82	17.71	19.2
100	Pi2 BPSK	1	271	18.11	17.88	17.83	
100	Pi2 BPSK	136	0	17.74	17.87	17.88	19.2
100	Pi2 BPSK	136	66	18.04	18.00	17.89	19.2
100	Pi2 BPSK	136	138	17.85	17.87	17.84	19.2
100	Pi2 BPSK	270	0	17.87	17.88	17.79	19.2
100	QPSK	1	1	18.21	17.89	17.80	
100	QPSK	1	137	18.22	17.98	17.82	19.2
100	QPSK	1	271	18.22	18.01	17.74	19.2
100	QPSK	136	0	18.06	18.06	17.84	19.2
100	QPSK	136	66	18.10	18.00	17.77	19.2
100	QPSK	136	138	18.09	18.01	17.71	19.2
100	QPSK	270	0	18.02	17.85	17.71	19.2
100	16QAM	1	1	18.20	17.84	17.80	19.2
100	16QAM	1	1	18.20	18.06	17.79	19.2
100	16QAM	1	1	18.17	18.02	17.77	19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.19	18.03	17.82	19.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.19	18.00	17.79	19.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.26	17.89	17.80	19.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.17	17.87	17.79	19.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.20	18.01	17.77	19.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.28	18.02	17.84	19.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.25	17.96	17.82	19.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.23	17.88	17.84	19.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.20	17.80	17.79	19.2
Channel							
Frequency (MHz)							
16	QPSK	1	1	18.17	18.01	17.83	19.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.16	18.02	17.76	19.2



Part27Q_n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	19.32	19.32		
100	P1/2 BPSK	1	137	19.46	19.46		20.7
100	P1/2 BPSK	1	271	19.52	19.52		20.7
100	P1/2 BPSK	136	0	19.52	19.52		20.7
100	P1/2 BPSK	136	66	19.60	19.60		20.7
100	P1/2 BPSK	136	138	19.65	19.65		20.7
100	P1/2 BPSK	270	0	19.65	19.65		20.7
100	QPSK	1	1	19.72	19.72		
100	QPSK	1	137	19.81	19.81		20.7
100	QPSK	1	271	19.83	19.83		20.7
100	QPSK	136	0	19.83	19.83		20.7
100	QPSK	136	66	19.85	19.85		20.7
100	QPSK	136	138	19.86	19.86		20.7
100	QPSK	270	0	19.86	19.86		20.7
100	16QAM	1	1	19.92	19.92		20.7
100	16QAM	1	1	19.98	19.98		20.7
100	16QAM	1	1	19.97	19.97		20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	63.600	63.632	63.668	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.64	19.65	19.68	20.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.64	19.65	19.68	20.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.64	19.63	19.68	20.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.64	19.63	19.69	20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.63	19.60	19.59	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.68	19.61	19.68	20.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.69	19.67	19.66	20.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.70	19.60	19.68	20.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.72	19.64	19.70	20.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.83	19.59	19.63	20.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.83	19.62	19.67	20.7

Part27Q_n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	19.32	19.32		
100	P1/2 BPSK	1	137	19.18	19.18		20.7
100	P1/2 BPSK	1	271	19.12	19.12		20.7
100	P1/2 BPSK	136	0	19.00	19.00		20.7
100	P1/2 BPSK	136	66	19.12	19.12		20.7
100	P1/2 BPSK	136	138	19.04	19.04		20.7
100	P1/2 BPSK	270	0	19.11	19.11		20.7
100	QPSK	1	1	19.28	19.28		
100	QPSK	1	137	19.23	19.23		20.7
100	QPSK	1	271	19.27	19.27		20.7
100	QPSK	136	0	19.24	19.24		20.7
100	QPSK	136	66	19.24	19.24		20.7
100	QPSK	136	138	19.09	19.09		20.7
100	QPSK	270	0	19.15	19.15		20.7
100	16QAM	1	1	19.24	19.24		20.7
100	16QAM	1	1	19.28	19.28		20.7
100	16QAM	1	1	19.28	19.28		20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	64.668	65.000	65.032	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.35	19.29	19.33	20.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.35	19.27	19.34	20.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.34	19.24	19.30	20.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.34	19.24	19.30	20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.31	19.27	19.30	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.33	19.23	19.30	20.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.32	19.33	19.34	20.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.30	19.27	19.32	20.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.32	19.23	19.32	20.7
Channel							
Frequency (MHz)							
16	QPSK	1	1	19.32	19.28	19.30	20.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.34	19.30	19.31	20.7

Part27Q_n78(HPUe)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	19.57	19.57		
100	P1/2 BPSK	1	137	19.46	19.46		20.7
100	P1/2 BPSK	1	271	19.52	19.52		20.7
100	P1/2 BPSK	136	0	19.52	19.52		20.7
100	P1/2 BPSK	136	66	19.60	19.60		20.7
100	P1/2 BPSK	136	138	19.65	19.65		20.7
100	P1/2 BPSK	270	0	19.65	19.65		20.7
100	QPSK	1	1	19.72	19.72		
100	QPSK	1	137	19.81	19.81		20.7
100	QPSK	1	271	19.83	19.83		20.7
100	QPSK	136	0	19.83	19.83		20.7
100	QPSK	136	66	19.85	19.85		20.7
100	QPSK	136	138	19.86	19.86		20.7
100	QPSK	270	0	19.86	19.86		20.7
100	16QAM	1	1	19.92	19.92		20.7
100	16QAM	1	1	19.98	19.98		20.7
100	16QAM	1	1	19.97	19.97		20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	63.600	63.632	63.668	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.64	19.65	19.68	20.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.64	19.65	19.68	20.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.64	19.63	19.68	20.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.64	19.63	19.69	20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.63	19.60	19.59	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.68	19.61	19.68	20.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.69	19.67	19.66	20.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.70	19.60	19.68	20.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.72	19.64	19.70	20.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.83	19.59	19.63	20.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.83	19.62	19.67	20.7

Part27Q_n78(HPUe)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	P1/2 BPSK	1	1	19.52	19.52		
100	P1/2 BPSK	1	137	19.18	19.18		20.7
100	P1/2 BPSK	1	271	19.12	19.12		20.7
100	P1/2 BPSK	136	0	19.00	19.00		20.7
100	P1/2 BPSK	136	66	19.12	19.12		20.7
100	P1/2 BPSK	136	138	19.04	19.04		20.7
100	P1/2 BPSK	270	0	19.11	19.11		20.7
100	QPSK	1	1	19.28	19.28		
100	QPSK	1	137	19.23	19.23		20.7
100	QPSK	1	271	19.27	19.27		20.7
100	QPSK	136	0	19.24	19.24		20.7
100	QPSK	136	66	19.24	19.24		20.7
100	QPSK	136	138	19.09	19.09		20.7
100	QPSK	270	0	19.15	19.15		20.7
100	16QAM	1	1	19.24	19.24		20.7
100	16QAM	1	1	19.28	19.28		20.7
100	16QAM	1	1	19.28	19.28		20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	64.668	65.000	65.032	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.35	19.29	19.33	20.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.35	19.27	19.34	20.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.34	19.24	19.30	20.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.34	19.24	19.30	20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.31	19.27	19.30	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.33	19.23	19.30	20.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.32	19.33	19.34	20.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.30	19.27	19.32	20.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.32	19.23	19.32	20.7
Channel							
Frequency (MHz)							
16	QPSK	1	1	19.32	19.28	19.30	20.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.34	19.30	19.31	20.7









Part27Q_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.09	18.09				
100	Pi2 BPSK	1	137	17.88	17.88			19.2	
100	Pi2 BPSK	1	271	17.83	17.83			19.2	
100	Pi2 BPSK	136	0	17.78	17.83			19.2	
100	Pi2 BPSK	136	66	17.86	18.02			19.2	
100	Pi2 BPSK	136	138	17.86	17.84			19.2	
100	Pi2 BPSK	270	0	17.75	17.81			19.2	
100	QPSK	1	1	18.07	18.07				
100	QPSK	1	137	18.02	18.09			19.2	
100	QPSK	1	271	17.86	18.10			19.2	
100	QPSK	136	0	17.96	17.97			19.2	
100	QPSK	136	66	18.01	18.07			19.2	
100	QPSK	136	138	17.86	17.86			19.2	
100	QPSK	270	0	17.86	17.86			19.2	
100	16QAM	1	1	17.86	18.15			19.2	
100	16QAM	1	1	17.83	18.12			19.2	
100	256QAM	1	1	17.96	18.13			19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.09	18.14	18.14	18.14	19.2	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.97	18.08	18.08	18.08	19.2	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.86	18.02	18.02	18.02	19.2	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.00	18.00	18.00	18.00	19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.95	18.11	18.11	18.11	19.2	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.85	17.82	17.84	17.84	19.2	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.97	17.88	17.89	17.89	19.2	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.04	17.86	17.85	17.85	19.2	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.02	17.89	17.89	17.89	19.2	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.97	17.87	17.89	17.89	19.2	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.04	17.96	17.96	17.96	19.2	

Part270_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Media Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.09	18.09				
100	Pi2 BPSK	1	137	17.85	17.85			19.2	
100	Pi2 BPSK	1	271	17.87	17.87			19.2	
100	Pi2 BPSK	136	0	17.83	17.83			19.2	
100	Pi2 BPSK	136	66	18.02	18.02			19.2	
100	Pi2 BPSK	136	138	17.84	17.84			19.2	
100	Pi2 BPSK	270	0	17.81	17.81			19.2	
100	QPSK	1	1	18.07	18.07				
100	QPSK	1	137	18.09	18.09			19.2	
100	QPSK	1	271	18.10	18.10			19.2	
100	QPSK	136	0	17.97	17.97			19.2	
100	QPSK	136	66	18.07	18.07			19.2	
100	QPSK	136	138	17.88	17.88			19.2	
100	QPSK	270	0	17.83	17.83			19.2	
100	16QAM	1	1	18.15	18.15			19.2	
100	16QAM	1	1	18.12	18.12			19.2	
100	256QAM	1	1	18.13	18.13			19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.08	18.14	18.14	18.14	19.2	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.07	18.08	18.08	18.08	19.2	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.00	18.00	18.00	18.00	19.2	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.05	18.04	18.07	18.07	19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.05	18.11	18.11	18.11	19.2	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.08	18.12	18.07	18.07	19.2	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.08	18.12	18.08	18.08	19.2	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.02	18.06	18.06	18.06	19.2	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.04	18.11	18.11	18.11	19.2	
Channel									
Frequency (MHz)									
16	QPSK	1	1	18.05	18.08	18.08	18.08	19.2	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.08	18.10	18.10	18.10	19.2	

Part27Q_n78(HPUe)_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Media Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.01	18.01				
100	Pi2 BPSK	1	137	17.88	17.88			19.2	
100	Pi2 BPSK	1	271	17.83	17.83			19.2	
100	Pi2 BPSK	136	0	17.78	17.78			19.2	
100	Pi2 BPSK	136	66	17.86	17.86			19.2	
100	Pi2 BPSK	136	138	17.86	17.84			19.2	
100	Pi2 BPSK	270	0	17.75	17.75			19.2	
100	QPSK	1	1	18.07	18.07				
100	QPSK	1	137	18.02	18.02			19.2	
100	QPSK	1	271	17.86	18.10			19.2	
100	QPSK	136	0	17.96	17.96			19.2	
100	QPSK	136	66	18.01	18.07			19.2	
100	QPSK	136	138	17.86	17.86			19.2	
100	QPSK	270	0	17.86	17.86			19.2	
100	16QAM	1	1	17.86	18.15			19.2	
100	16QAM	1	1	17.83	18.12			19.2	
100	256QAM	1	1	17.96	18.13			19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.09	18.14	18.14	18.14	19.2	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.97	18.02	18.02	18.02	19.2	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.86	18.02	18.02	18.02	19.2	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.00	18.00	18.00	18.00	19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.95	18.11	18.11	18.11	19.2	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.85	17.82	17.84	17.84	19.2	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.87	17.88	17.89	17.89	19.2	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.04	17.86	17.85	17.85	19.2	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.02	17.89	17.89	17.89	19.2	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.97	17.87	17.89	17.89	19.2	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.04	17.96	17.96	17.96	19.2	

Part270_n78(HPUe)_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Media Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.01	18.01				
100	Pi2 BPSK	1	137	17.85	17.85			19.2	
100	Pi2 BPSK	1	271	17.87	17.87			19.2	
100	Pi2 BPSK	136	0	17.83	17.83			19.2	
100	Pi2 BPSK	136	66	18.02	18.02			19.2	
100	Pi2 BPSK	136	138	17.84	17.84			19.2	
100	Pi2 BPSK	270	0	17.81	17.81			19.2	
100	QPSK	1	1	18.07	18.07				
100	QPSK	1	137	18.09	18.09			19.2	
100	QPSK	1	271	18.10	18.10			19.2	
100	QPSK	136	0	17.97	17.97			19.2	
100	QPSK	136	66	18.07	18.07			19.2	
100	QPSK	136	138	17.88	17.88			19.2	
100	QPSK	270	0	17.83	17.83			19.2	
100	16QAM	1	1	18.15	18.15			19.2	
100	16QAM	1	1	18.12	18.12			19.2	
100	256QAM	1	1	18.13	18.13			19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.08	18.14	18.14	18.14	19.2	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.07	18.08	18.08	18.08	19.2	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.00	18.00	18.00	18.00	19.2	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.05	18.04	18.07	18.07	19.2	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.05	18.11	18.11	18.11	19.2	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.08	18.12	18.07	18.07	19.2	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.08	18.12	18.08	18.08	19.2	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.02	18.06	18.06	18.06	19.2	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.04	18.11	18.11	18.11	19.2	
Channel									
Frequency (MHz)									
16	QPSK	1	1	18.05	18.08	18.08	18.08	19.2	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.08	18.10	18.10	18.10	19.2	



Reduced Power Mode for DSI5

n2_Ant 5						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.
Channel						
Frequency (MHz)						
40	PV2 BPSK	1	1	18.40	18.52	18.50
40	PV2 BPSK	1	168	18.39	18.37	18.41
40	PV2 BPSK	1	214	18.34	18.36	18.34
40	PV2 BPSK	108	0	18.22	18.23	18.20
40	PV2 BPSK	108	54	18.20	18.38	18.28
40	PV2 BPSK	108	108	18.27	18.25	18.30
40	PV2 BPSK	216	0	18.20	18.20	18.20
40	QPSK	1	168	18.41	18.42	18.47
40	QPSK	1	214	18.41	18.51	18.47
40	QPSK	108	0	18.20	18.35	18.29
40	QPSK	108	54	18.20	18.48	18.27
40	QPSK	108	108	18.20	18.38	18.28
40	QPSK	216	0	18.24	18.38	18.38
40	16QAM	1	1	18.41	18.49	18.48
40	16QAM	1	1	18.41	18.50	18.49
40	256QAM	1	1	18.57	18.60	18.58
Channel						
Frequency (MHz)						
35	QPSK	1	1	18.39	18.43	18.49
Channel						
Frequency (MHz)						
30	QPSK	1	1	18.49	18.41	18.44
Channel						
Frequency (MHz)						
25	QPSK	1	1	18.41	18.49	18.48
Channel						
Frequency (MHz)						
20	QPSK	1	1	18.48	18.48	18.43
Channel						
Frequency (MHz)						
16	QPSK	1	1	18.43	18.53	18.45
Channel						
Frequency (MHz)						
10	QPSK	1	1	18.43	18.48	18.43
Channel						
Frequency (MHz)						
5	QPSK	1	1	18.39	18.42	18.46

n2_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.
Channel						
Frequency (MHz)						
40	PV2 BPSK	1	1	18.44	18.52	18.50
40	PV2 BPSK	1	168	18.39	18.37	18.41
40	PV2 BPSK	1	214	18.34	18.36	18.34
40	PV2 BPSK	108	0	18.22	18.23	18.20
40	PV2 BPSK	108	54	18.20	18.38	18.28
40	PV2 BPSK	108	108	18.27	18.25	18.30
40	PV2 BPSK	216	0	18.20	18.20	18.20
40	QPSK	1	168	18.41	18.42	18.47
40	QPSK	1	214	18.41	18.51	18.47
40	QPSK	108	0	18.20	18.35	18.29
40	QPSK	108	54	18.20	18.48	18.27
40	QPSK	108	108	18.20	18.38	18.28
40	QPSK	216	0	18.24	18.38	18.38
40	16QAM	1	1	18.41	18.49	18.48
40	16QAM	1	1	18.41	18.50	18.49
40	256QAM	1	1	18.50	18.45	18.51
Channel						
Frequency (MHz)						
35	QPSK	1	1	18.42	18.48	18.44
Channel						
Frequency (MHz)						
30	QPSK	1	1	18.43	18.55	18.51
Channel						
Frequency (MHz)						
25	QPSK	1	1	18.41	18.56	18.43
Channel						
Frequency (MHz)						
20	QPSK	1	1	18.47	18.48	18.43
Channel						
Frequency (MHz)						
16	QPSK	1	1	18.43	18.53	18.45
Channel						
Frequency (MHz)						
10	QPSK	1	1	18.43	18.48	18.43
Channel						
Frequency (MHz)						
5	QPSK	1	1	18.43	18.48	18.48

n2_Ant 6						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.
Channel						
Frequency (MHz)						
40	PV2 BPSK	1	1	18.04	18.11	18.05
40	PV2 BPSK	1	168	18.02	18.03	17.95
40	PV2 BPSK	1	214	18.04	17.97	18.06
40	PV2 BPSK	108	0	17.94	18.01	17.97
40	PV2 BPSK	108	54	17.96	18.08	18.03
40	PV2 BPSK	108	108	17.91	17.90	18.01
40	PV2 BPSK	216	0	17.96	18.04	18.00
40	QPSK	1	168	18.04	18.00	17.94
40	QPSK	1	214	17.98	18.03	17.90
40	QPSK	108	0	17.96	18.08	17.93
40	QPSK	108	54	18.03	18.07	18.05
40	QPSK	108	108	17.98	18.07	18.03
40	QPSK	216	0	17.93	18.10	18.00
40	16QAM	1	1	17.92	18.02	18.02
40	16QAM	1	1	18.03	18.10	18.02
40	256QAM	1	1	18.05	18.02	18.00
Channel						
Frequency (MHz)						
35	QPSK	1	1	17.99	18.07	18.00
Channel						
Frequency (MHz)						
30	QPSK	1	1	17.94	18.06	18.03
Channel						
Frequency (MHz)						
25	QPSK	1	1	17.90	17.95	17.98
Channel						
Frequency (MHz)						
20	QPSK	1	1	17.94	18.04	18.08
Channel						
Frequency (MHz)						
16	QPSK	1	1	17.96	18.03	18.01
Channel						
Frequency (MHz)						
10	QPSK	1	1	17.93	17.90	18.02
Channel						
Frequency (MHz)						
5	QPSK	1	1	17.94	18.04	17.92

n2_Ant 7						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.
Channel						
Frequency (MHz)						
40	PV2 BPSK	1	1	18.07	18.04	18.05
40	PV2 BPSK	1	168	18.03	18.03	18.07
40	PV2 BPSK	1	214	18.01	18.02	18.07
40	PV2 BPSK	108	0	18.00	18.04	18.06
40	PV2 BPSK	108	54	18.05	18.08	18.05
40	PV2 BPSK	108	108	18.07	18.02	18.07
40	PV2 BPSK	216	0	18.00	18.06	18.06
40	QPSK	1	168	18.06	18.02	18.01
40	QPSK	1	214	18.03	18.01	18.08
40	QPSK	108	0	18.02	18.09	18.06
40	QPSK	108	54	18.02	18.07	18.05
40	QPSK	108	108	18.04	18.03	18.06
40	QPSK	216	0	18.05	18.03	18.01
40	16QAM	1	1	18.04	18.05	18.05
40	16QAM	1	1	18.07	18.04	18.05
40	256QAM	1	1	18.10	18.00	18.04
Channel						
Frequency (MHz)						
35	QPSK	1	1	18.08	18.08	18.07
Channel						
Frequency (MHz)						
30	QPSK	1	1	18.04	18.08	18.02
Channel						
Frequency (MHz)						
25	QPSK	1	1	18.01	18.08	18.03
Channel						
Frequency (MHz)						
20	QPSK	1	1	18.01	18.02	18.00
Channel						
Frequency (MHz)						
16	QPSK	1	1	18.06	18.07	18.03
Channel						
Frequency (MHz)						
10	QPSK	1	1	18.03	18.01	18.03
Channel						
Frequency (MHz)						
5	QPSK	1	1	18.00	18.03	18.04



n5_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
20	P12 BPSK	1	1	23.40	23.43	23.37	24.9
20	P12 BPSK	1	53	23.34	23.30	23.30	24.9
20	P12 BPSK	1	104	23.37	23.32	23.25	24.9
20	P12 BPSK	50	0	22.90	23.05	23.04	24.9
20	P12 BPSK	50	26	23.30	23.29	23.30	24.9
20	P12 BPSK	50	56	22.95	22.91	22.90	24.9
20	P12 BPSK	100	1	23.20	23.34	23.07	24.9
20	QPSK	1	1	23.44	23.44	23.35	24.9
20	QPSK	1	53	23.37	23.31	23.20	24.9
20	QPSK	1	104	23.33	23.37	23.25	24.9
20	QPSK	50	0	22.88	23.00	22.88	24.4
20	QPSK	50	26	23.31	23.25	23.25	24.9
20	QPSK	50	56	22.81	22.82	22.80	24.4
20	QPSK	100	0	23.02	23.06	22.81	24.4
20	TDMA	1	1	22.88	23.00	22.87	24.4
20	TDMA	1	1	23.35	23.42	23.34	20.0
20	TDMA	1	1	19.30	19.50	19.40	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.26	23.33	23.30	24.9
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.33	23.40	23.20	24.9
Channel							
Frequency (MHz)							
1	QPSK	1	1	23.26	23.42	23.25	24.9

n5_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
20	P12 BPSK	1	1	20.82	20.84	20.89	22.2
20	P12 BPSK	1	53	20.86	20.83	20.81	22.2
20	P12 BPSK	1	104	20.81	20.88	20.77	22.2
20	P12 BPSK	50	0	20.87	20.89	20.79	22.2
20	P12 BPSK	50	26	20.87	20.88	20.82	22.2
20	P12 BPSK	50	56	20.82	20.81	20.80	22.2
20	P12 BPSK	100	0	20.73	20.90	20.80	22.2
20	QPSK	1	1	20.73	20.73	20.85	22.2
20	QPSK	1	53	20.77	20.90	20.78	22.2
20	QPSK	1	104	20.87	20.80	20.85	22.2
20	QPSK	50	0	20.80	20.83	20.80	22.2
20	QPSK	50	26	20.83	20.94	20.76	22.2
20	QPSK	50	56	20.78	20.90	20.78	22.2
20	QPSK	100	0	20.80	20.82	20.75	22.2
20	TDMA	1	1	20.74	20.88	20.80	22.2
20	TDMA	1	1	20.75	20.79	20.79	22.2
20	TDMA	1	1	19.20	19.40	19.38	20.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.88	20.83	20.87	22.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.75	20.90	20.78	22.2
Channel							
Frequency (MHz)							
1	QPSK	1	1	20.80	20.84	20.75	22.2

n7_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
50	P12 BPSK	1	1	21.22	21.33	21.24	22.2
50	P12 BPSK	1	135	21.22	21.25	21.23	22.2
50	P12 BPSK	1	268	21.26	21.28	21.20	22.2
50	P12 BPSK	135	0	21.32	21.31	21.29	22.2
50	P12 BPSK	135	68	21.21	21.29	21.22	22.2
50	P12 BPSK	135	135	21.29	21.29	21.29	22.2
50	P12 BPSK	270	0	21.21	21.28	21.23	22.2
50	QPSK	1	135	21.28	21.33	21.26	22.2
50	QPSK	1	268	21.33	21.29	21.30	22.2
50	QPSK	135	0	21.20	21.33	21.27	22.2
50	QPSK	135	68	21.27	21.35	21.30	22.2
50	QPSK	135	135	21.21	21.30	21.20	22.2
50	QPSK	270	0	21.24	21.32	21.28	22.2
50	TDMA	1	1	21.30	21.28	21.27	22.2
50	TDMA	1	1	21.02	21.15	21.14	22.2
50	TDMA	1	1	18.12	18.17	18.14	20.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.22	21.36	21.18	22.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	21.30	21.33	21.21	22.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.33	21.38	21.24	22.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.22	21.38	21.30	22.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.34	21.39	21.23	22.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.36	21.39	21.21	22.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.31	21.34	21.25	22.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.33	21.31	21.23	22.2

n7_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Take-up Int (dBm)
Channel							
Frequency (MHz)							
50	P12 BPSK	1	1	18.70	18.76	18.62	20.2
50	P12 BPSK	1	135	18.70	18.81	18.74	20.2
50	P12 BPSK	1	268	18.70	18.76	18.65	20.2
50	P12 BPSK	135	0	18.72	18.71	18.70	20.2
50	P12 BPSK	135	68	18.67	18.73	18.67	20.2
50	P12 BPSK	135	135	18.67	18.79	18.69	20.2
50	P12 BPSK	270	0	18.69	18.79	18.64	20.2
50	QPSK	1	135	18.71	18.73	18.64	20.2
50	QPSK	1	268	18.74	18.74	18.61	20.2
50	QPSK	135	0	18.68	18.73	18.65	20.2
50	QPSK	135	68	18.70	18.81	18.65	20.2
50	QPSK	135	135	18.69	18.79	18.68	20.2
50	QPSK	270	0	18.70	18.77	18.71	20.2
50	TDMA	1	1	18.70	18.76	18.74	20.2
50	TDMA	1	1	18.72	18.79	18.70	20.2
50	TDMA	1	1	18.08	18.18	18.00	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.69	18.66	18.70	20.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	18.64	18.75	18.67	20.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.72	18.76	18.71	20.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.63	18.69	18.63	20.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.61	18.62	18.67	20.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.63	18.71	18.61	20.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.63	18.67	18.62	20.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	18.55	18.66	18.60	20.2



n7_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up Int. (dBm)
Channel							
Frequency (MHz)							
50	PVQ BPSK	1	1	17.03	17.11	17.18	
50	PVQ BPSK	1	135	17.14	17.52	17.11	17.7
50	PVQ BPSK	1	268	17.14	17.24	17.16	
50	PVQ BPSK	135	0	17.03	17.23	17.19	17.7
50	PVQ BPSK	135	68	17.15	17.52	17.52	17.7
50	PVQ BPSK	135	135	17.03	17.19	17.09	17.7
50	QPSK	1	1	17.06	17.24	17.16	
50	QPSK	1	268	17.06	17.15	17.21	
50	QPSK	1	135	17.14	17.18	17.20	17.7
50	QPSK	1	268	17.06	17.15	17.20	
50	QPSK	135	0	17.11	17.11	17.11	17.7
50	QPSK	135	68	17.16	17.22	17.20	17.7
50	QPSK	135	135	17.10	17.20	17.18	17.7
50	QPSK	270	0	17.10	17.20	17.17	17.7
50	16QAM	1	1	17.08	17.10	17.19	17.7
50	16QAM	1	1	17.04	17.20	17.14	17.7
50	256QAM	1	1	17.06	17.21	17.16	17.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.12	17.23	17.19	17.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	17.15	17.24	17.20	17.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.03	17.10	17.12	17.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	17.08	17.21	17.18	17.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.16	17.24	17.20	17.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.04	17.15	17.07	17.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.05	17.14	17.13	17.7
Channel							
Frequency (MHz)							
5	QPSK	1	1	17.17	17.18	17.15	17.7

n7_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up Int. (dBm)
Channel							
Frequency (MHz)							
50	PVQ BPSK	1	1	20.25	20.38	20.21	
50	PVQ BPSK	1	135	20.31	20.38	20.28	21.2
50	PVQ BPSK	1	268	20.31	20.42	20.34	
50	PVQ BPSK	135	0	20.34	20.40	20.20	21.2
50	PVQ BPSK	135	68	20.32	20.38	20.31	21.2
50	PVQ BPSK	135	135	20.24	20.35	20.27	21.2
50	QPSK	1	1	20.25	20.33	20.21	
50	QPSK	1	268	20.31	20.42	20.28	
50	QPSK	1	135	20.37	20.40	20.24	21.2
50	QPSK	1	268	20.31	20.32	20.28	
50	QPSK	135	0	20.30	20.39	20.29	21.2
50	QPSK	135	68	20.35	20.41	20.33	21.2
50	QPSK	135	135	20.31	20.34	20.22	21.2
50	QPSK	270	0	20.27	20.30	20.27	21.2
50	16QAM	1	1	20.37	20.41	20.32	21.2
50	16QAM	1	1	20.30	20.42	20.21	21.2
50	256QAM	1	1	18.74	18.94	18.86	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.30	20.34	20.24	21.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	20.35	20.39	20.32	21.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.24	20.39	20.20	21.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.30	20.31	20.31	21.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.27	20.30	20.29	21.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.30	20.37	20.21	21.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.30	20.30	20.31	21.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	20.25	20.38	20.21	21.2

n12_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up Int. (dBm)
Channel							
Frequency (MHz)							
15	PVQ BPSK	1	1	22.49	22.53	22.54	
15	PVQ BPSK	1	40	22.51	22.56	22.57	24.4
15	PVQ BPSK	1	77	22.52	22.58	22.51	
15	PVQ BPSK	36	0	22.48	22.61	22.51	24.4
15	PVQ BPSK	36	22	22.55	22.64	22.57	24.4
15	PVQ BPSK	36	43	22.48	22.57	22.58	24.4
15	PVQ BPSK	75	0	22.44	22.61	22.51	
15	QPSK	1	40	22.49	22.52	22.51	24.4
15	QPSK	1	77	22.48	22.58	22.48	
15	QPSK	36	0	22.45	22.58	22.51	24.4
15	QPSK	36	22	22.57	22.64	22.58	24.4
15	QPSK	36	43	22.52	22.61	22.49	24.4
15	QPSK	75	0	22.53	22.57	22.52	24.4
15	16QAM	1	1	22.49	22.53	22.53	24.4
15	16QAM	1	1	21.04	21.15	21.11	22.9
15	256QAM	1	1	18.14	18.22	18.18	20.9
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.50	22.57	22.48	24.4
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.45	22.60	22.49	24.4

n12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Time-up Int. (dBm)
Channel							
Frequency (MHz)							
15	PVQ BPSK	1	1	22.44	22.58	22.47	
15	PVQ BPSK	1	40	22.43	22.50	22.48	24.2
15	PVQ BPSK	1	77	22.43	22.55	22.52	
15	PVQ BPSK	36	0	22.40	22.53	22.52	24.2
15	PVQ BPSK	36	22	22.42	22.49	22.47	24.2
15	PVQ BPSK	36	43	22.42	22.58	22.51	24.2
15	PVQ BPSK	75	0	22.45	22.61	22.51	
15	QPSK	1	40	22.38	22.54	22.48	24.2
15	QPSK	1	77	22.38	22.51	22.48	
15	QPSK	36	0	22.33	22.47	22.37	24.2
15	QPSK	36	22	22.47	22.49	22.45	24.2
15	QPSK	36	43	22.38	22.38	22.31	24.2
15	QPSK	75	0	22.35	22.38	22.27	24.2
15	16QAM	1	1	22.42	22.41	22.43	24.2
15	16QAM	1	1	20.85	20.88	20.90	22.7
15	256QAM	1	1	18.86	18.01	18.89	20.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.47	22.48	22.51	24.2
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.46	22.53	22.48	24.2



n25_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Take-up (dB)		
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.38	18.42	18.46	21.0		
40	PI2 BPSK	1	168	20.31	20.35	20.39			
40	PI2 BPSK	1	214	20.37	20.39	20.39			
40	PI2 BPSK	108	0	20.39	20.37	20.34	21.0		
40	PI2 BPSK	108	54	20.38	20.35	20.32	21.0		
40	PI2 BPSK	108	108	20.34	20.35	20.36	21.0		
40	PI2 BPSK	216	0	20.34	20.34	20.36			
40	QPSK	1	1	20.39	20.33	20.36	21.0		
40	QPSK	1	214	20.37	20.34	20.36			
40	QPSK	108	0	20.35	20.30	20.41	21.0		
40	QPSK	108	54	20.40	20.31	20.45	21.0		
40	QPSK	108	108	20.34	20.27	20.42	21.0		
40	QPSK	216	0	20.29	20.32	20.36			
40	16QAM	1	1	18.38	18.37	18.41	19.4		
40	16QAM	1	1	18.39	18.39	18.41	19.4		
40	256QAM	1	1	18.31	18.39	18.46	20.0		
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.33	20.32	20.42	21.0		
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.29	20.30	20.40	21.0		
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.29	20.29	20.38	21.0		
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.24	20.24	20.38	21.0		
Channel									
Frequency (MHz)									
16	QPSK	1	1	20.21	20.21	20.32	21.0		
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.17	20.29	20.34	21.0		
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.15	20.24	20.32	21.0		

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Take-up (dB)		
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.35	18.34	18.34	20.0		
40	PI2 BPSK	1	168	18.47	18.59	18.53			
40	PI2 BPSK	1	214	18.51	18.58	18.65			
40	PI2 BPSK	108	0	18.48	18.58	18.56	20.0		
40	PI2 BPSK	108	54	18.51	18.61	18.55	20.0		
40	PI2 BPSK	108	108	18.47	18.48	18.54	20.0		
40	PI2 BPSK	216	0	18.51	18.55	18.52			
40	QPSK	1	1	18.49	18.55	18.64	20.0		
40	QPSK	1	214	18.50	18.55	18.56			
40	QPSK	108	0	18.48	18.55	18.62	20.0		
40	QPSK	108	54	18.50	18.50	18.60	20.0		
40	QPSK	108	108	18.50	18.50	18.60	20.0		
40	QPSK	216	0	18.52	18.50	18.58			
40	16QAM	1	1	18.35	18.50	18.53	20.0		
40	16QAM	1	1	18.52	18.59	18.51	20.0		
40	256QAM	1	1	18.52	18.50	18.59	20.0		
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.48	18.52	18.58	20.0		
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.57	18.60	18.53	20.0		
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.56	18.62	18.52	20.0		
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.50	18.61	18.50	20.0		
Channel									
Frequency (MHz)									
16	QPSK	1	1	18.58	18.57	18.60	20.0		
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.48	18.52	18.55	20.0		
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.48	18.54	18.47	20.0		

n25_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Take-up (dB)		
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.50	18.49	18.51	19.4		
40	PI2 BPSK	1	168	18.48	18.42	18.51			
40	PI2 BPSK	1	214	18.44	18.53	18.55			
40	PI2 BPSK	108	0	18.44	18.39	18.48	19.4		
40	PI2 BPSK	108	54	18.48	18.40	18.46	19.4		
40	PI2 BPSK	108	108	18.43	18.34	18.49	19.4		
40	PI2 BPSK	216	0	18.29	18.39	18.43			
40	QPSK	1	1	18.49	18.48	18.46	19.4		
40	QPSK	1	214	18.40	18.30	18.30			
40	QPSK	108	0	18.43	18.40	18.40	19.4		
40	QPSK	108	54	18.47	18.46	18.53	19.4		
40	QPSK	108	108	18.42	18.34	18.49	19.4		
40	QPSK	216	0	18.38	18.39	18.52	19.4		
40	16QAM	1	1	18.35	18.37	18.47	19.4		
40	16QAM	1	1	18.39	18.39	18.41	19.4		
40	256QAM	1	1	18.31	18.49	18.51	19.4		
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.39	18.48	18.46	19.4		
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.49	18.40	18.44	19.4		
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.44	18.41	18.43	19.4		
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.41	18.40	18.40	19.4		
Channel									
Frequency (MHz)									
16	QPSK	1	1	18.41	18.48	18.39	19.4		
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.45	18.42	18.45	19.4		
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.35	18.44	18.45	19.4		

n25_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Take-up (dB)		
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.80	20.75	20.83	22.2		
40	PI2 BPSK	1	168	20.81	20.72	20.88			
40	PI2 BPSK	1	214	20.88	20.84	20.81			
40	PI2 BPSK	108	0	20.72	20.80	20.81	22.2		
40	PI2 BPSK	108	54	20.78	20.81	20.80	22.2		
40	PI2 BPSK	108	108	20.71	20.84	20.83	22.2		
40	PI2 BPSK	216	0	20.76	20.77	20.86			
40	QPSK	1	1	20.77	20.89	20.89	22.2		
40	QPSK	1	214	20.87	20.73	20.77			
40	QPSK	108	0	20.75	20.81	20.87	22.2		
40	QPSK	108	54	20.79	20.83	20.80	22.2		
40	QPSK	108	108	20.72	20.78	20.88	22.2		
40	QPSK	216	0	20.72	20.89	20.84	22.2		
40	16QAM	1	1	20.73	20.74	20.88	22.2		
40	16QAM	1	1	20.74	20.75	20.88	22.2		
40	256QAM	1	1	19.40	19.33	19.61	20.0		
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.81	20.84	20.85	22.2		
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.81	20.76	20.82	22.2		
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.73	20.80	20.77	22.2		
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.72	20.74	20.89	22.2		
Channel									
Frequency (MHz)									
16	QPSK	1	1	20.73	20.81	20.83	22.2		
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.75	20.77	20.78	22.2		
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.70	20.79	20.83	22.2		



n30_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
10	PI2 BPSK	1	1	20.31			22.2
10	PI2 BPSK	1	26	20.27			
10	PI2 BPSK	1	50	20.31			
10	PI2 BPSK	25	0	20.32			22.2
10	PI2 BPSK	25	14	20.30			22.2
10	PI2 BPSK	25	27	20.28			22.2
10	PI2 BPSK	25	0	20.32			
10	QPSK	1	1	20.31			22.2
10	QPSK	1	26	20.25			22.2
10	QPSK	1	50	20.25			
10	QPSK	25	0	20.30			22.2
10	QPSK	25	14	20.30			22.2
10	QPSK	25	27	20.32			22.2
10	QPSK	25	0	20.32			
10	16QAM	1	1	20.24			22.2
10	16QAM	1	1	20.35			22.2
10	256QAM	1	1	19.15			20.7
Channel							
Frequency (MHz)							
45	36000	45000	45000	2307.5	2310	2312.5	Time-up Int (dBm)
5	QPSK	1	1	20.31	20.37	20.27	22.2

n30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
10	PI2 BPSK	1	1	19.79			21.2
10	PI2 BPSK	1	26	19.89			
10	PI2 BPSK	1	50	19.85			
10	PI2 BPSK	25	0	19.80			21.2
10	PI2 BPSK	25	14	19.79			21.2
10	PI2 BPSK	25	27	19.84			21.2
10	PI2 BPSK	25	0	19.80			
10	QPSK	1	1	19.85			21.2
10	QPSK	1	26	19.82			21.2
10	QPSK	1	50	19.81			
10	QPSK	25	0	19.79			21.2
10	QPSK	25	14	19.80			21.2
10	QPSK	25	27	19.88			21.2
10	QPSK	25	0	19.88			
10	16QAM	1	1	19.88			21.2
10	16QAM	1	1	19.87			21.2
10	256QAM	1	1	18.75			19.7
Channel							
Frequency (MHz)							
45	36000	45000	45000	2307.5	2310	2312.5	Time-up Int (dBm)
5	QPSK	1	1	19.80	19.86	19.78	21.2

n66_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
45	PI2 BPSK	1	1	21.27	21.51	21.44	22.9
45	PI2 BPSK	1	50	21.40	21.54	21.40	
45	PI2 BPSK	1	240	21.40	21.53	21.42	
45	PI2 BPSK	120	0	21.41	21.48	21.42	22.9
45	PI2 BPSK	120	60	21.44	21.48	21.47	22.9
45	PI2 BPSK	120	120	21.40	21.49	21.51	22.9
45	PI2 BPSK	240	0	21.42	21.45	21.47	
45	QPSK	1	1	21.51	21.57	21.46	22.9
45	QPSK	1	120	21.42	21.58	21.51	22.9
45	QPSK	1	240	21.45	21.52	21.46	
45	QPSK	120	0	21.39	21.50	21.42	22.9
45	QPSK	120	60	21.47	21.58	21.51	22.9
45	QPSK	120	120	21.41	21.48	21.41	22.9
45	QPSK	240	0	21.45	21.51	21.49	
45	16QAM	1	1	21.40	21.52	21.46	22.9
45	16QAM	1	1	21.51	21.58	21.51	22.9
45	256QAM	1	1	18.45	18.55	18.47	20.9
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.43	21.53	21.48	22.9
40	QPSK	1	1	21.50	21.60	21.55	Time-up Int (dBm)
Channel							
Frequency (MHz)							
35	QPSK	1	1	21.51	21.49	21.48	22.9
35	QPSK	1	1	21.50	21.60	21.55	Time-up Int (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.50	21.53	21.49	22.9
30	QPSK	1	1	21.51	21.53	21.53	Time-up Int (dBm)
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.49	21.45	21.43	22.9
25	QPSK	1	1	21.49	21.45	21.43	Time-up Int (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.44	21.46	21.43	22.9
20	QPSK	1	1	21.44	21.46	21.43	Time-up Int (dBm)
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.43	21.44	21.43	22.9
15	QPSK	1	1	21.43	21.44	21.43	Time-up Int (dBm)
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.42	21.47	21.44	22.9
10	QPSK	1	1	21.42	21.47	21.44	Time-up Int (dBm)
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.45	21.37	21.40	22.9

n66_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)
Channel							
Frequency (MHz)							
45	PI2 BPSK	1	1	22.03	22.19	22.03	23.2
45	PI2 BPSK	1	120	22.00	22.15	22.05	
45	PI2 BPSK	1	240	22.07	22.14	22.07	
45	PI2 BPSK	120	0	22.05	22.08	22.08	23.2
45	PI2 BPSK	120	60	22.01	22.08	22.07	23.2
45	PI2 BPSK	120	120	21.72	21.68	21.61	23.2
45	PI2 BPSK	240	0	21.68	21.69	21.68	
45	QPSK	1	1	22.10	22.12	22.08	23.2
45	QPSK	1	120	22.12	22.13	22.13	23.2
45	QPSK	1	240	22.10	22.10	22.08	
45	QPSK	120	0	22.04	22.11	21.98	23.2
45	QPSK	120	60	22.14	22.18	22.09	23.2
45	QPSK	120	120	22.13	22.15	22.07	23.2
45	QPSK	240	0	22.13	22.17	22.05	
45	16QAM	1	1	22.11	22.21	22.03	23.2
45	16QAM	1	1	22.44	22.54	22.02	22.7
45	256QAM	1	1	19.52	19.62	19.55	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.08	22.18	22.05	23.2
40	QPSK	1	1	22.09	22.09	22.05	Time-up Int (dBm)
Channel							
Frequency (MHz)							
35	QPSK	1	1	22.03	22.17	21.99	23.2
35	QPSK	1	1	22.03	22.17	21.99	Time-up Int (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.03	22.12	22.04	23.2
30	QPSK	1	1	22.07	22.17	22.04	Time-up Int (dBm)
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.09	22.17	22.04	23.2
25	QPSK	1	1	22.09	22.17	22.04	Time-up Int (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.05	22.09	22.05	23.2
20	QPSK	1	1	22.05	22.09	22.05	Time-up Int (dBm)
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.14	22.15	22.07	23.2
15	QPSK	1	1	22.14	22.15	22.07	Time-up Int (dBm)
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.04	22.07	22.05	23.2
10	QPSK	1	1	22.04	22.07	22.05	Time-up Int (dBm)
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.14	22.15	22.05	23.2



n66_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
45	PV2 BPSK	1	1	18.94	19.11	18.89	20.2		
45	PV2 BPSK	1	150	18.94	19.08	18.98	20.2		
45	PV2 BPSK	1	240	18.85	18.51	18.97	20.2		
45	PV2 BPSK	150	0	18.89	19.07	18.91	20.2		
45	PV2 BPSK	150	60	18.88	18.65	18.90	20.2		
45	PV2 BPSK	150	150	18.90	18.57	18.95	20.2		
45	PV2 BPSK	240	0	18.97	19.24	18.99	20.2		
45	QPSK	1	240	18.92	18.30	18.90	20.2		
45	QPSK	1	150	18.88	19.09	18.90	20.2		
45	QPSK	1	240	18.90	18.30	18.90	20.2		
45	QPSK	150	0	18.85	18.07	18.83	20.2		
45	QPSK	150	60	18.95	18.10	18.92	20.2		
45	QPSK	150	150	18.92	18.27	18.98	20.2		
45	QPSK	240	0	18.94	18.03	18.93	20.2		
45	16QAM	1	1	18.94	19.01	18.87	20.2		
45	16QAM	1	1	18.92	19.01	18.87	20.2		
45	256QAM	1	1	18.88	18.06	18.90	20.2		
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.92	17.46	17.92	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.88	18.59	18.95	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.88	18.50	18.87	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.95	18.02	18.89	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.90	18.07	18.94	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.97	18.21	18.99	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.90	18.50	18.90	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.94	18.88	18.87	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.96	18.03	18.87	Time-up Int (dBm)		

n66_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
45	PV2 BPSK	1	1	21.14	21.21	21.13	22.4		
45	PV2 BPSK	1	150	21.15	21.23	21.01	22.4		
45	PV2 BPSK	1	240	21.16	21.24	21.01	22.4		
45	PV2 BPSK	150	0	21.04	21.21	21.01	22.4		
45	PV2 BPSK	150	60	21.11	21.10	21.01	22.4		
45	PV2 BPSK	150	150	21.16	21.18	21.02	22.4		
45	PV2 BPSK	240	0	21.07	21.11	21.11	22.4		
45	QPSK	1	240	21.05	21.05	21.05	22.4		
45	QPSK	1	150	21.17	21.18	21.16	22.4		
45	QPSK	1	240	21.05	21.12	21.05	22.4		
45	QPSK	150	0	21.13	21.16	21.00	22.4		
45	QPSK	150	60	21.11	21.23	21.09	22.4		
45	QPSK	150	150	21.15	21.00	21.08	22.4		
45	QPSK	240	0	21.12	21.15	21.05	22.4		
45	16QAM	1	1	21.14	21.22	21.05	22.4		
45	16QAM	1	1	21.10	21.10	21.11	22.4		
45	256QAM	1	1	18.91	18.84	18.64	20.9		
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.04	21.13	21.14	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
35	QPSK	1	1	21.13	21.18	21.14	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.05	21.05	21.05	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.12	21.16	21.05	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.06	21.23	21.05	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.04	21.24	21.05	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.12	21.15	21.09	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.05	21.11	21.15	Time-up Int (dBm)		

n71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
35	PV2 BPSK	1	1	21.06			25.2		
35	PV2 BPSK	1	60	21.05			25.2		
35	PV2 BPSK	1	180	21.08			25.2		
35	PV2 BPSK	90	0	21.01			24.1		
35	PV2 BPSK	90	45	21.04			25.2		
35	PV2 BPSK	90	90	21.01			24.7		
35	PV2 BPSK	180	0	21.00			25.2		
35	QPSK	1	1	21.07			25.2		
35	QPSK	1	90	21.01			25.2		
35	QPSK	1	180	21.03			24.2		
35	QPSK	90	0	21.04			24.2		
35	QPSK	90	45	21.01			25.2		
35	QPSK	90	90	21.05			24.2		
35	QPSK	180	0	21.00			25.2		
35	16QAM	1	1	21.01			24.2		
35	16QAM	1	1	20.79			22.7		
35	256QAM	1	1	18.92			20.7		
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.07	21.45	21.41	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.23	21.39	21.33	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.10	21.30	21.23	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.02	21.34	21.38	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.11	21.23	21.30	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.24	21.33	21.31	Time-up Int (dBm)		

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
35	PV2 BPSK	1	1	21.03			24.4		
35	PV2 BPSK	1	60	21.02			24.4		
35	PV2 BPSK	1	180	21.07			24.4		
35	PV2 BPSK	90	0	21.00			23.9		
35	PV2 BPSK	90	45	21.03			24.4		
35	PV2 BPSK	90	90	21.00			23.9		
35	PV2 BPSK	180	0	21.00			24.4		
35	QPSK	1	90	21.01			24.4		
35	QPSK	1	180	21.03			23.4		
35	QPSK	90	0	21.04			23.4		
35	QPSK	90	45	21.01			24.4		
35	QPSK	90	90	21.04			23.4		
35	QPSK	180	0	21.01			24.4		
35	16QAM	1	1	21.02			23.4		
35	16QAM	1	1	19.87			21.9		
35	256QAM	1	1	18.91			19.9		
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.28	22.89	22.76	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.24	22.77	22.70	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.22	22.69	22.67	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.22	22.77	22.68	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.21	22.75	22.64	Time-up Int (dBm)		
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.22	22.79	22.63	Time-up Int (dBm)		





n38_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	18.09	18.09	18.09	
40	PUSBPSK	1	53	18.44	18.44	18.44	20.9
40	PUSBPSK	1	104	18.83	18.83	18.83	20.9
40	PUSBPSK	50	1	18.95	18.97	18.97	20.9
40	PUSBPSK	50	28	18.42	18.47	18.41	20.9
40	PUSBPSK	50	56	18.39	18.42	18.39	20.9
40	PUSBPSK	100	0	18.48	18.53	18.51	20.9
40	QPSK	1	1	18.71	18.78	18.71	
40	QPSK	1	53	18.47	18.48	18.42	20.9
40	QPSK	1	104	18.41	18.47	18.40	20.9
40	QPSK	50	0	18.85	18.89	18.84	20.9
40	QPSK	50	28	18.48	18.47	18.48	20.9
40	QPSK	50	56	18.95	18.98	18.91	20.9
40	QPSK	100	0	18.88	18.93	18.84	20.9
40	8QAM	1	1	18.52	18.54	18.51	20.9
40	8QAM	1	1	18.53	18.53	18.54	20.9
40	25QAM	1	1	18.46	18.48	18.42	20.9
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.85	18.88	18.83	20.9
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.83	18.87	18.86	20.9
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.80	18.80	18.80	Turn-up limit
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.83	18.83	18.83	Turn-up limit
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.87	18.87	18.84	20.9

n38_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	18.22	18.26	18.18	
40	PUSBPSK	1	53	18.55	18.55	18.55	20.2
40	PUSBPSK	1	104	18.92	18.11	18.01	20.2
40	PUSBPSK	50	1	18.95	18.97	18.97	20.2
40	PUSBPSK	50	28	18.50	18.08	18.03	20.2
40	PUSBPSK	50	56	18.84	18.90	18.84	20.2
40	PUSBPSK	100	0	18.41	18.15	18.07	20.2
40	QPSK	1	1	18.71	18.23	18.21	
40	QPSK	1	53	18.15	18.13	18.04	20.2
40	QPSK	1	104	18.11	18.16	18.08	20.2
40	QPSK	50	0	18.54	18.59	18.50	20.2
40	QPSK	50	28	18.11	18.20	18.11	20.2
40	QPSK	50	56	18.92	18.93	18.86	20.2
40	QPSK	100	0	18.50	18.13	18.07	20.2
40	8QAM	1	1	18.62	18.67	18.67	20.2
40	8QAM	1	1	18.54	18.10	18.05	20.2
40	25QAM	1	1	18.10	18.20	18.17	20.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.18	18.15	18.09	20.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.17	18.24	18.07	20.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.17	18.21	18.11	20.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.22	18.13	18.13	20.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.18	18.24	18.07	20.2

n38_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	18.96	18.96	18.94	
40	PUSBPSK	1	53	18.58	18.75	18.86	17.7
40	PUSBPSK	1	104	18.58	18.81	18.87	17.7
40	PUSBPSK	50	1	18.86	18.93	18.93	17.7
40	PUSBPSK	50	28	18.82	18.81	18.80	17.7
40	PUSBPSK	50	56	18.81	18.81	18.87	17.7
40	PUSBPSK	100	0	18.83	18.88	18.84	17.7
40	QPSK	1	1	18.81	18.01	18.01	
40	QPSK	1	53	18.79	18.77	18.74	17.7
40	QPSK	1	104	18.71	18.71	18.65	17.7
40	QPSK	50	0	18.83	18.83	18.79	17.7
40	QPSK	50	28	18.85	18.85	18.85	17.7
40	QPSK	50	56	18.85	18.88	18.87	17.7
40	QPSK	100	0	18.79	18.80	18.78	17.7
40	8QAM	1	1	18.84	18.84	18.79	17.7
40	8QAM	1	1	18.84	18.83	18.88	17.7
40	25QAM	1	1	18.92	18.96	18.81	17.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.81	18.82	18.80	17.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.84	18.84	18.80	17.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.85	18.85	18.83	17.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.87	18.84	18.81	17.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.91	18.91	18.95	17.7

n38_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
40	PUSBPSK	1	1	18.92	18.97	18.92	
40	PUSBPSK	1	53	18.52	18.38	18.25	21.4
40	PUSBPSK	1	104	18.24	18.31	18.23	21.4
40	PUSBPSK	50	1	18.74	18.78	18.78	21.4
40	PUSBPSK	50	28	18.43	18.45	18.42	21.4
40	PUSBPSK	50	56	18.19	18.22	18.19	21.4
40	PUSBPSK	100	0	18.42	18.48	18.41	21.4
40	QPSK	1	1	18.51	18.83	18.51	
40	QPSK	1	53	18.35	18.41	18.37	21.4
40	QPSK	1	104	18.28	18.33	18.28	21.4
40	QPSK	50	0	18.39	18.45	18.37	21.4
40	QPSK	50	28	18.48	18.51	18.47	21.4
40	QPSK	50	56	18.28	18.35	18.28	21.4
40	QPSK	100	0	18.38	18.42	18.38	21.4
40	8QAM	1	1	18.35	18.41	18.35	21.4
40	8QAM	1	1	18.45	18.48	18.45	21.4
40	25QAM	1	1	18.88	18.90	18.82	20.9
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.44	18.51	18.45	21.4
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.46	18.53	18.46	21.4
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.46	18.50	18.46	21.4
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.48	18.54	18.49	21.4
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.49	18.49	18.50	21.4



FCC_n41_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq)	Power Middle Ch.1 (Freq)	Power High Ch.1 (Freq)	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
150	Pi2 BPSK	1	1	2546.01	2549.99	2549	
150	Pi2 BPSK	1	137	20.25	20.88	20.88	22.2
150	Pi2 BPSK	1	271	20.72	21.02	20.95	22.2
150	Pi2 BPSK	155	69	20.28	20.58	20.64	22.2
150	Pi2 BPSK	155	69	20.47	20.80	20.75	22.2
150	Pi2 BPSK	155	138	20.51	20.84	20.82	22.2
150	Pi2 BPSK	279	0	20.28	20.58	20.64	22.2
150	QPSK	1	1	2547.1	2549.1	2549	
150	QPSK	1	137	20.27	20.87	20.86	22.2
150	QPSK	1	271	20.69	20.89	20.86	22.2
150	QPSK	155	69	20.52	20.82	20.79	22.2
150	QPSK	155	69	20.55	20.85	20.82	22.2
150	QPSK	155	138	20.51	20.84	20.82	22.2
150	QPSK	279	0	20.43	20.74	20.72	22.2
150	8QAM	1	1	20.87	20.86	20.81	22.2
150	8QAM	1	1	20.52	20.82	20.79	22.2
150	8QAM	1	1	20.28	20.80	20.85	22.2
150	256QAM	1	1	2549.01	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
90	QPSK	1	1	2549	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	2548.02	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	2543.01	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	2539.02	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	2535.03	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
45	QPSK	1	1	2533.04	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	2531.05	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	2529.06	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	2527.07	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	2525.08	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	2523.09	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	2521.10	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	2519.11	2549.99	2549.99	22.2

FCC_n41(HPUE)_Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq)	Power Middle Ch.1 (Freq)	Power High Ch.1 (Freq)	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
150	Pi2 BPSK	1	1	2546.01	2549.99	2549	
150	Pi2 BPSK	1	137	20.25	20.88	20.88	22.2
150	Pi2 BPSK	1	271	20.72	21.02	20.95	22.2
150	Pi2 BPSK	155	69	20.28	20.58	20.64	22.2
150	Pi2 BPSK	155	69	20.47	20.80	20.75	22.2
150	Pi2 BPSK	155	138	20.51	20.84	20.82	22.2
150	Pi2 BPSK	279	0	20.28	20.58	20.64	22.2
150	QPSK	1	1	2547.1	2549.1	2549	
150	QPSK	1	137	20.27	20.87	20.86	22.2
150	QPSK	1	271	20.69	20.89	20.86	22.2
150	QPSK	155	69	20.52	20.82	20.79	22.2
150	QPSK	155	69	20.55	20.85	20.82	22.2
150	QPSK	155	138	20.51	20.84	20.82	22.2
150	QPSK	279	0	20.43	20.74	20.72	22.2
150	8QAM	1	1	20.87	20.86	20.81	22.2
150	8QAM	1	1	20.52	20.82	20.79	22.2
150	256QAM	1	1	2549.01	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
90	QPSK	1	1	2549	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	2548.02	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
70	QPSK	1	1	2543.01	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
60	QPSK	1	1	2539.02	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	2535.03	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
45	QPSK	1	1	2533.04	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	2531.05	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
35	QPSK	1	1	2529.06	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	2527.07	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	2525.08	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	2523.09	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	2521.10	2549.99	2549.99	22.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	2519.11	2549.99	2549.99	22.2

FCC_n41_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq)	Power Middle Ch.1 (Freq)	Power High Ch.1 (Freq)	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
150	Pi2 BPSK	1	1	2546.01	2549.99	2549	
150	Pi2 BPSK	1	137	18.06	18.26	18.22	20.7
150	Pi2 BPSK	1	271	18.59	18.27	18.26	20.7
150	Pi2 BPSK	155	69	18.06	18.23	18.21	20.7
150	Pi2 BPSK	155	69	18.05	18.23	18.21	20.7
150	Pi2 BPSK	155	138	18.07	18.24	18.21	20.7
150	Pi2 BPSK	279	0	18.06	18.23	18.21	20.7
150	QPSK	1	1	2547.1	2549.1	2549	
150	QPSK	1	137	18.09	18.27	18.24	20.7
150	QPSK	1	271	18.12	18.26	18.25	20.7
150	QPSK	155	69	18.07	18.23	18.21	20.7
150	QPSK	155	69	18.06	18.23	18.21	20.7
150	QPSK	155	138	18.07	18.24	18.21	20.7
150	QPSK	279	0	18.05	18.23	18.23	20.7
150	8QAM	1	1	18.06	18.27	18.27	20.7
150	8QAM	1	1	18.09	18.24	18.23	20.7
150	256QAM	1	1	2549.01	2549.99	2549.99	20.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.09	18.27	18.28	20.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.04	18.24	18.23	20.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.08	18.22	18.21	20.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.03	18.23	18.22	20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.08	18.23	18.23	20.7
Channel							
Frequency (MHz)							
45	QPSK	1	1	18.04	18.23	18.21	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.12	18.23	18.22	20.7
Channel							
Frequency (MHz)							
35	QPSK	1	1	18.06	18.23	18.23	20.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.11	18.25	18.21	20.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.13	18.26	18.22	20.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.05	18.28	18.25	20.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.05	18.21	18.17	20.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.10	18.27	18.23	20.7

FCC_n41(HPUE)_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Freq)	Power Middle Ch.1 (Freq)	Power High Ch.1 (Freq)	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
150	Pi2 BPSK	1	1	2546.01	2549.99	2549	
150	Pi2 BPSK	1	137	18.06	18.26	18.22	20.7
150	Pi2 BPSK	1	271	18.59	18.27	18.26	20.7
150	Pi2 BPSK	155	69	18.06	18.23	18.21	20.7
150	Pi2 BPSK	155	69	18.05	18.23	18.21	20.7
150	Pi2 BPSK	155	138	18.07	18.24	18.21	20.7
150	Pi2 BPSK	279	0	18.06	18.23	18.21	20.7
150	QPSK	1	1	2547.1	2549.1	2549	
150	QPSK	1	137	18.09	18.27	18.24	20.7
150	QPSK	1	271	18.12	18.26	18.25	20.7
150	QPSK	155	69	18.07	18.23	18.21	20.7
150	QPSK	155	69	18.06	18.23	18.21	20.7
150	QPSK	155	138	18.07	18.24	18.21	20.7
150	QPSK	279	0	18.05	18.23	18.23	20.7
150	8QAM	1	1	18.06	18.27	18.27	20.7
150	8QAM	1	1	18.09	18.24	18.23	20.7
150	256QAM	1	1	2549.01	2549.99	2549.99	20.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.09	18.27	18.28	20.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.04	18.24	18.23	20.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.08	18.22	18.21	20.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.03	18.23	18.22	20.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.08	18.23	18.23	20.7
Channel							
Frequency (MHz)							
45	QPSK	1	1	18.04	18.23	18.21	20.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.12	18.23	18.22	20.7
Channel							
Frequency (MHz)							
35	QPSK	1					



FCC_n41_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. (MHz)	Power Middle Ch.1 Freq. (MHz)	Power High Ch.1 Freq. (MHz)	Turn-up limit (dBm)
Channel							
Frequency (MHz)				5660.01	5992.99	5940	
100	PUSBPSK	1	1	56.83	58.71	58.87	
100	PUSBPSK	1	1	58.83	58.54	58.31	17.7
100	PUSBPSK	1	271	58.83	58.58	58.4	
100	PUSBPSK	135	69	58.83	58.54	58.4	17.7
100	PUSBPSK	135	69	58.84	58.07	58.06	17.7
100	PUSBPSK	135	138	58.87	58.50	58.51	17.7
100	PUSBPSK	270	0	58.83	58.54	58.4	17.7
100	QPSK	1	1	58.14	58.18	58.18	
100	QPSK	1	137	58.86	58.04	58.88	17.7
100	QPSK	1	271	58.80	58.07	58.99	
100	QPSK	135	69	58.81	58.04	58.83	17.7
100	QPSK	135	69	58.86	58.12	58.82	17.7
100	QPSK	135	138	58.86	58.04	58.80	17.7
100	QPSK	270	0	58.80	58.03	58.88	
100	8QAM	1	1	58.86	58.80	58.88	17.7
100	8QAM	1	1	58.88	58.13	58.82	17.7
100	256QAM	1	1	58.85	58.88	58.81	17.7
Channel							
Frequency (MHz)				5941	5992.99	5844.98	
90	QPSK	1	1	58.07	58.11	58.02	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
80	QPSK	1	1	58.88	58.11	58.97	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
70	QPSK	1	1	58.88	58.85	58.88	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
60	QPSK	1	1	58.85	58.85	58.87	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
50	QPSK	1	1	58.85	58.83	58.87	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
45	QPSK	1	1	58.84	58.83	58.83	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
40	QPSK	1	1	58.85	58.83	58.87	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
36	QPSK	1	1	58.80	58.12	58.81	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
30	QPSK	1	1	58.82	58.10	58.99	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
25	QPSK	1	1	58.81	58.11	58.84	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
20	QPSK	1	1	58.89	58.07	58.83	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
15	QPSK	1	1	58.82	58.10	58.89	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
10	QPSK	1	1	58.89	58.08	58.86	17.7

FCC_n41(HPUe)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. (MHz)	Power Middle Ch.1 Freq. (MHz)	Power High Ch.1 Freq. (MHz)	Turn-up limit (dBm)
Channel							
Frequency (MHz)				5660.01	5992.99	5940	
100	PUSBPSK	1	1	58.83	58.11	58.87	
100	PUSBPSK	1	1	58.83	58.34	58.33	17.7
100	PUSBPSK	1	271	58.83	58.58	58.4	
100	PUSBPSK	135	69	58.83	58.34	58.4	17.7
100	PUSBPSK	135	69	58.84	58.07	58.06	17.7
100	PUSBPSK	135	138	58.87	58.50	58.51	17.7
100	PUSBPSK	270	0	58.83	58.34	58.4	17.7
100	QPSK	1	1	58.14	58.18	58.18	
100	QPSK	1	137	58.86	58.04	58.88	17.7
100	QPSK	1	271	58.80	58.07	58.99	
100	QPSK	135	69	58.81	58.04	58.83	17.7
100	QPSK	135	69	58.86	58.12	58.82	17.7
100	QPSK	135	138	58.86	58.04	58.80	17.7
100	QPSK	270	0	58.80	58.03	58.88	
100	8QAM	1	1	58.86	58.80	58.88	17.7
100	8QAM	1	1	58.88	58.13	58.82	17.7
100	256QAM	1	1	58.85	58.88	58.81	17.7
Channel							
Frequency (MHz)				5941	5992.99	5844.98	
90	QPSK	1	1	58.07	58.11	58.02	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
80	QPSK	1	1	58.88	58.11	58.97	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
70	QPSK	1	1	58.88	58.85	58.88	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
60	QPSK	1	1	58.85	58.85	58.87	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
50	QPSK	1	1	58.85	58.83	58.87	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
45	QPSK	1	1	58.84	58.83	58.83	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
40	QPSK	1	1	58.85	58.83	58.87	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
36	QPSK	1	1	58.80	58.12	58.81	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
30	QPSK	1	1	58.82	58.10	58.99	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
25	QPSK	1	1	58.81	58.11	58.84	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
20	QPSK	1	1	58.89	58.07	58.83	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
15	QPSK	1	1	58.82	58.10	58.89	17.7
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
10	QPSK	1	1	58.89	58.08	58.86	17.7

FCC_n41_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. (MHz)	Power Middle Ch.1 Freq. (MHz)	Power High Ch.1 Freq. (MHz)	Turn-up limit (dBm)
Channel							
Frequency (MHz)				5660.01	5992.99	5940	
100	PUSBPSK	1	1	21.87	21.45	21.81	
100	PUSBPSK	1	1	21.87	21.45	21.43	23.2
100	PUSBPSK	1	271	21.83	21.54	21.38	
100	PUSBPSK	135	69	21.84	21.41	21.33	23.2
100	PUSBPSK	135	69	21.45	21.51	21.42	23.2
100	PUSBPSK	135	138	21.37	21.30	21.35	23.2
100	PUSBPSK	270	0	21.38	21.41	21.38	23.2
100	QPSK	1	1	21.71	21.74	21.83	
100	QPSK	1	137	21.88	21.61	21.54	23.2
100	QPSK	1	271	21.83	21.68	21.50	
100	QPSK	135	69	21.59	21.60	21.38	23.2
100	QPSK	135	69	21.61	21.68	21.50	23.2
100	QPSK	135	138	21.47	21.51	21.43	23.2
100	QPSK	270	0	21.48	21.51	21.41	
100	8QAM	1	1	21.86	21.52	21.32	23.2
100	8QAM	1	1	21.29	21.50	21.37	23.2
100	256QAM	1	1	21.32	21.46	21.41	22.7
Channel							
Frequency (MHz)				5941	5992.99	5844.98	
90	QPSK	1	1	21.58	21.64	21.53	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
80	QPSK	1	1	21.84	21.68	21.54	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
70	QPSK	1	1	21.82	21.62	21.51	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
60	QPSK	1	1	21.59	21.63	21.43	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
50	QPSK	1	1	21.59	21.60	21.38	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
45	QPSK	1	1	21.63	21.62	21.58	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
40	QPSK	1	1	21.60	21.50	21.52	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
36	QPSK	1	1	21.58	21.68	21.52	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
30	QPSK	1	1	21.60	21.60	21.53	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
25	QPSK	1	1	21.63	21.67	21.58	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
20	QPSK	1	1	21.59	21.65	21.49	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
15	QPSK	1	1	21.68	21.67	21.58	23.2
Channel							
Frequency (MHz)				5993.01	5992.99	5992.99	
10	QPSK	1	1	21.66	21.62	21.54	23.2

FCC_n41(HPUe)_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. (MHz)	Power Middle Ch.1 Freq. (MHz)	Power High Ch.1 Freq. (MHz)	Turn-up limit (dBm)
Channel							
Frequency (MHz)				5660.01	5992.99	5940	
100	PUSBPSK	1	1	21.87	21.41	21.81	
100	PUSBPSK	1	1	21.87	21.48	21.43	23.2
100	PUSBPSK	1	271	21.83	21.54	21.38	



Part96_n48_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	3500	3634.99	3679.98	
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	2900	2939	2978	
40	PV2 BPSK	53	53	1931	2022	2113	21.2
40	PV2 BPSK	1	104	1977	1980	1989	
40	PV2 BPSK	50	0	1971	1970	1970	21.2
40	PV2 BPSK	50	28	1986	1984	1985	21.2
40	PV2 BPSK	50	56	1978	1980	1980	21.2
40	PV2 BPSK	100	0	1980	1980	1980	21.2
40	QPSK	1	1	2036	2038	2039	
40	QPSK	1	53	1986	2032	2037	21.2
40	QPSK	1	104	1984	2029	1990	
40	QPSK	50	0	1981	1984	1986	21.2
40	QPSK	50	28	1985	1987	1987	21.2
40	QPSK	50	56	1979	1986	1989	21.2
40	QPSK	100	0	1981	1988	1996	21.2
40	16QAM	1	1	1987	1988	1991	21.2
40	16QAM	1	1	1988	2011	2030	21.2
40	256QAM	1	1	1987	1972	1969	20.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	3652.02	3634.99	3634.99	21.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	1833	2040	1930	21.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	3550.01	3634.99	3690	21.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	3557.52	3634.99	3692.49	21.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	3500	3634.99	3683.32	21.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	1930	2030	2010	21.2

Part96_n48_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	3075	3634.99	3679.98	
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	1839	1834	1839	
40	PV2 BPSK	1	33	1835	1839	1838	17.2
40	PV2 BPSK	1	104	1831	1830	1831	
40	PV2 BPSK	50	0	1836	1836	1836	17.2
40	PV2 BPSK	50	28	1838	1835	1837	17.2
40	PV2 BPSK	50	56	1833	1837	1835	17.2
40	PV2 BPSK	100	0	1832	1837	1837	17.2
40	QPSK	1	1	1832	1830	1831	
40	QPSK	1	53	1828	1831	1830	17.2
40	QPSK	1	104	1830	1837	1831	
40	QPSK	50	0	1831	1835	1835	17.2
40	QPSK	50	28	1830	1835	1834	17.2
40	QPSK	50	56	1832	1832	1834	17.2
40	QPSK	100	0	1830	1836	1839	17.2
40	16QAM	1	1	1832	1836	1836	17.2
40	16QAM	1	1	1837	1837	1838	17.2
40	256QAM	1	1	1833	1836	1832	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	3652.02	3634.99	3634.99	17.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	3550.01	3634.99	3690	17.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	3557.52	3634.99	3692.49	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	3500	3634.99	3683.32	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	1836	1832	1830	17.2

Part96_n48_Ant 11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	3370	3634.99	3679.98	
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	1847	1834	1833	
40	PV2 BPSK	1	33	1835	1831	1836	17.2
40	PV2 BPSK	1	104	1842	1832	1848	
40	PV2 BPSK	50	0	1828	1836	1831	17.2
40	PV2 BPSK	50	28	1835	1848	1846	17.2
40	PV2 BPSK	50	56	1831	1849	1836	17.2
40	PV2 BPSK	100	0	1828	1836	1840	17.2
40	QPSK	1	1	1829	1839	1838	
40	QPSK	1	53	1845	1830	1833	17.2
40	QPSK	1	104	1830	1839	1839	
40	QPSK	50	0	1830	1839	1844	17.2
40	QPSK	50	28	1830	1841	1841	17.2
40	QPSK	50	56	1838	1835	1841	17.2
40	QPSK	100	0	1841	1840	1845	17.2
40	16QAM	1	1	1842	1840	1840	17.2
40	16QAM	1	1	1848	1834	1837	17.2
40	256QAM	1	1	1835	1839	1837	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	3652.02	3634.99	3634.99	17.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	3550.01	3634.99	3690	17.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	3557.52	3634.99	3692.49	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	3500	3634.99	3683.32	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	1830	1834	1831	17.2

Part96_n48_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Take-up limit (dBm)
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	3370	3634.99	3679.98	
Channel							
Frequency (MHz)							
40	PV2 BPSK	1	1	1836	1834	1836	
40	PV2 BPSK	1	33	1837	1832	1837	15.7
40	PV2 BPSK	1	104	1831	1835	1831	
40	PV2 BPSK	50	0	1834	1830	1830	15.7
40	PV2 BPSK	50	28	1836	1830	1836	15.7
40	PV2 BPSK	50	56	1831	1839	1836	15.7
40	PV2 BPSK	100	0	1837	1834	1834	15.7
40	QPSK	1	1	1831	1831	1831	
40	QPSK	1	53	1838	1830	1830	15.7
40	QPSK	1	104	1836	1836	1836	
40	QPSK	50	0	1832	1838	1837	15.7
40	QPSK	50	28	1836	1836	1836	15.7
40	QPSK	50	56	1834	1834	1841	15.7
40	QPSK	100	0	1832	1830	1838	15.7
40	16QAM	1	1	1836	1836	1836	15.7
40	16QAM	1	1	1836	1836	1837	15.7
40	256QAM	1	1	1830	1837	1830	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	3652.02	3634.99	3634.99	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	3550.01	3634.99	3690	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	3557.52	3634.99	3692.49	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	3500	3634.99	3683.32	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	1832	1834	1833	15.7



Part27Q_n77_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.89	18.89	18.89	
100	PV2 BPSK	1	137	18.82	18.82	18.82	19.7
100	PV2 BPSK	1	271	18.56	18.56	18.56	19.7
100	PV2 BPSK	135	0	18.82	18.82	18.82	19.7
100	PV2 BPSK	135	66	18.80	18.80	18.80	19.7
100	PV2 BPSK	135	138	18.40	18.40	18.40	19.7
100	PV2 BPSK	270	0	18.53	18.53	18.53	19.7
100	QPSK	1	1	18.77	18.77	18.77	
100	QPSK	1	137	18.70	18.70	18.70	19.7
100	QPSK	1	271	18.66	18.66	18.66	19.7
100	QPSK	135	0	18.84	18.84	18.84	19.7
100	QPSK	135	66	18.89	18.89	18.89	19.7
100	QPSK	135	138	18.05	18.05	18.05	19.7
100	QPSK	270	0	18.53	18.53	18.53	19.7
100	64QAM	1	1	18.82	18.82	18.82	19.7
100	64QAM	1	1	18.89	18.89	18.89	19.7
100	256QAM	1	1	18.89	18.89	18.89	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.62	18.62	18.62	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.40	18.40	18.40	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.40	18.40	18.40	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.47	18.47	18.47	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.11	18.11	18.11	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.10	18.10	18.10	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.54	18.54	18.54	19.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.70	18.70	18.70	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.88	18.88	18.88	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.69	18.69	18.69	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.82	18.84	18.82	19.7

Part27O_n77_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.88	18.88	18.88	
100	PV2 BPSK	1	137	18.23	18.18	17.85	19.7
100	PV2 BPSK	1	271	18.18	18.09	17.87	19.7
100	PV2 BPSK	135	0	18.02	17.97	17.76	19.7
100	PV2 BPSK	135	66	18.20	18.09	17.86	19.7
100	PV2 BPSK	135	138	18.04	18.05	17.76	19.7
100	PV2 BPSK	270	0	18.08	17.84	17.72	19.7
100	QPSK	1	1	18.44	18.31	17.85	
100	QPSK	1	137	18.36	18.23	17.81	19.7
100	QPSK	1	271	18.31	18.19	17.75	19.7
100	QPSK	135	0	18.16	18.05	17.84	19.7
100	QPSK	135	66	18.29	18.17	17.77	19.7
100	QPSK	135	138	18.18	18.12	17.68	19.7
100	QPSK	270	0	18.13	18.07	17.65	19.7
100	64QAM	1	1	18.56	18.24	17.66	19.7
100	64QAM	1	1	18.32	18.23	17.79	19.7
100	256QAM	1	1	18.29	18.19	17.79	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.36	18.21	17.75	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.34	18.20	17.74	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.32	18.20	17.75	19.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.35	18.26	17.74	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.32	18.23	17.83	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.35	18.21	17.80	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.31	18.22	17.77	19.7
Channel							
Frequency (MHz)							
28	QPSK	1	1	18.37	18.24	17.83	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.31	18.26	17.76	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.30	18.18	17.76	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.33	18.21	17.81	19.7

Part27Q_n77(HPUE)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.89	18.89	18.89	
100	PV2 BPSK	1	137	18.82	18.82	18.82	19.7
100	PV2 BPSK	1	271	18.56	18.56	18.56	19.7
100	PV2 BPSK	135	0	18.82	18.82	18.82	19.7
100	PV2 BPSK	135	66	18.80	18.80	18.80	19.7
100	PV2 BPSK	135	138	18.40	18.40	18.40	19.7
100	PV2 BPSK	270	0	18.53	18.53	18.53	19.7
100	QPSK	1	1	18.77	18.77	18.77	
100	QPSK	1	137	18.70	18.70	18.70	19.7
100	QPSK	1	271	18.66	18.66	18.66	19.7
100	QPSK	135	0	18.84	18.84	18.84	19.7
100	QPSK	135	66	18.89	18.89	18.89	19.7
100	QPSK	135	138	18.05	18.05	18.05	19.7
100	QPSK	270	0	18.53	18.53	18.53	19.7
100	64QAM	1	1	18.82	18.82	18.82	19.7
100	64QAM	1	1	18.89	18.89	18.89	19.7
100	256QAM	1	1	18.89	18.89	18.89	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.62	18.62	18.62	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.40	18.40	18.40	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.40	18.40	18.40	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.47	18.47	18.47	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.11	18.11	18.11	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.10	18.10	18.10	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.54	18.54	18.54	19.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.70	18.70	18.70	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.88	18.88	18.88	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.69	18.69	18.69	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.82	18.84	18.82	19.7

Part27O_n77(HPUE)_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.88	18.88	18.88	
100	PV2 BPSK	1	137	18.23	18.18	17.85	19.7
100	PV2 BPSK	1	271	18.18	18.09	17.87	19.7
100	PV2 BPSK	135	0	18.02	17.97	17.76	19.7
100	PV2 BPSK	135	66	18.20	18.09	17.86	19.7
100	PV2 BPSK	135	138	18.04	18.05	17.76	19.7
100	PV2 BPSK	270	0	18.08	17.84	17.72	19.7
100	QPSK	1	1	18.44	18.31	17.85	
100	QPSK	1	137	18.36	18.23	17.81	19.7
100	QPSK	1	271	18.31	18.19	17.75	19.7
100	QPSK	135	0	18.16	18.05	17.84	19.7
100	QPSK	135	66	18.29	18.17	17.77	19.7
100	QPSK	135	138	18.18	18.12	17.68	19.7
100	QPSK	270	0	18.13	18.07	17.65	19.7
100	64QAM	1	1	18.56	18.24	17.66	19.7
100	64QAM	1	1	18.32	18.23	17.79	19.7
100	256QAM	1	1	18.29	18.19	17.79	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.36	18.21	17.75	19.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.34	18.20	17.74	19.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.32	18.20	17.75	19.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.35	18.26	17.74	19.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.32	18.23	17.83	19.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.35	18.21	17.80	19.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.31	18.22	17.77	19.7
Channel							
Frequency (MHz)							
28	QPSK	1	1	18.37	18.24	17.83	19.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.31	18.26	17.76	19.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.30	18.18	17.76	19.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.33	18.21	17.81	19.7



Part27Q_n77_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.63	14.66	14.68	15.7
100	PV2 BPSK	1	137	14.42	14.45	14.47	15.7
100	PV2 BPSK	1	271	14.27	14.30	14.32	15.7
100	PV2 BPSK	156	0	14.42	14.45	14.47	15.7
100	PV2 BPSK	156	66	14.57	14.60	14.62	15.7
100	PV2 BPSK	156	138	14.46	14.49	14.51	15.7
100	PV2 BPSK	270	0	14.44	14.47	14.49	15.7
100	QPSK	1	1	14.71	14.74	14.76	15.7
100	QPSK	1	137	14.57	14.60	14.62	15.7
100	QPSK	1	271	14.50	14.53	14.55	15.7
100	QPSK	156	0	14.50	14.53	14.55	15.7
100	QPSK	156	66	14.65	14.68	14.70	15.7
100	QPSK	156	138	14.54	14.57	14.59	15.7
100	QPSK	270	0	14.52	14.55	14.57	15.7
100	8QAM	1	1	14.56	14.59	14.61	15.7
100	8QAM	1	137	14.57	14.60	14.62	15.7
100	256QAM	1	1	14.63	14.66	14.68	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	83300	83332	83369	Time-up limit (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	3495	3499.98	3504.99	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	1443	1446	1448	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	1443	1446	1448	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	1444	1444	1445	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	1450	1450	1450	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	1440	1440	1458	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	83134	83332	83632	Time-up limit (dBm)
Channel							
Frequency (MHz)							
40	QPSK	1	1	1442	1446	1442	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	1458	1460	1467	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	83684	83332	83682	Time-up limit (dBm)
Channel							
Frequency (MHz)							
25	QPSK	1	1	1463	1456	1463	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	1482	1458	1474	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	1459	1459	1462	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	1488	1466	1458	15.7

Part27O_n77_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.88	14.88	14.79	15.7
100	PV2 BPSK	1	137	14.84	14.58	14.51	15.7
100	PV2 BPSK	1	271	14.79	14.82	14.51	15.7
100	PV2 BPSK	156	0	14.76	14.60	14.48	15.7
100	PV2 BPSK	156	66	14.81	14.56	14.54	15.7
100	PV2 BPSK	156	138	14.82	14.48	14.44	15.7
100	PV2 BPSK	270	0	14.76	14.67	14.47	15.7
100	QPSK	1	1	15.01	14.75	14.50	15.7
100	QPSK	1	137	14.86	14.70	14.66	15.7
100	QPSK	1	271	14.84	14.69	14.66	15.7
100	QPSK	156	0	14.82	14.59	14.80	15.7
100	QPSK	156	66	14.86	14.61	14.67	15.7
100	QPSK	156	138	14.85	14.62	14.65	15.7
100	QPSK	270	0	14.80	14.59	14.61	15.7
100	8QAM	1	1	14.84	14.79	14.79	15.7
100	8QAM	1	137	14.85	14.67	14.74	15.7
100	256QAM	1	1	14.85	14.64	14.70	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	84059	83900	83932	Time-up limit (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	1482	1482	1475	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	8434	8434	8434	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	1481	1480	1478	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	1493	1493	1493	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	1489	1489	1474	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	1497	1488	1474	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	1485	1488	1488	15.7
Channel							
Frequency (MHz)							
28	QPSK	1	1	84734	83900	83986	Time-up limit (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	1490	1488	1474	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	1489	1489	1489	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	1488	1480	1475	15.7

Part27Q_n77(HPUe)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.69	14.69	14.69	15.7
100	PV2 BPSK	1	137	14.48	14.48	14.48	15.7
100	PV2 BPSK	1	271	14.47	14.47	14.47	15.7
100	PV2 BPSK	156	0	14.46	14.46	14.46	15.7
100	PV2 BPSK	156	66	14.67	14.67	14.67	15.7
100	PV2 BPSK	156	138	14.46	14.46	14.46	15.7
100	PV2 BPSK	270	0	14.44	14.44	14.44	15.7
100	QPSK	1	1	14.71	14.71	14.71	15.7
100	QPSK	1	137	14.57	14.57	14.57	15.7
100	QPSK	1	271	14.60	14.60	14.60	15.7
100	QPSK	156	0	14.55	14.55	14.55	15.7
100	QPSK	156	66	14.76	14.76	14.76	15.7
100	QPSK	156	138	14.55	14.55	14.55	15.7
100	QPSK	270	0	14.55	14.55	14.55	15.7
100	8QAM	1	1	14.56	14.56	14.56	15.7
100	8QAM	1	137	14.57	14.57	14.57	15.7
100	256QAM	1	1	14.63	14.63	14.63	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	83300	83332	83369	Time-up limit (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	3495	3499.98	3504.99	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	1443	1446	1448	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	1443	1446	1448	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	1444	1444	1445	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	1450	1450	1450	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	1440	1440	1458	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	83134	83332	83632	Time-up limit (dBm)
Channel							
Frequency (MHz)							
40	QPSK	1	1	1442	1446	1442	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	1458	1460	1467	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	83684	83332	83682	Time-up limit (dBm)
Channel							
Frequency (MHz)							
25	QPSK	1	1	1463	1456	1463	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	1482	1458	1474	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	1459	1459	1462	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	1468	1466	1458	15.7

Part27O_n77(HPUe)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.89	14.89	14.79	15.7
100	PV2 BPSK	1	137	14.84	14.58	14.51	15.7
100	PV2 BPSK	1	271	14.79	14.82	14.51	15.7
100	PV2 BPSK	156	0	14.76	14.60	14.48	15.7
100	PV2 BPSK	156	66	14.81	14.56	14.54	15.7
100	PV2 BPSK	156	138	14.82	14.48	14.44	15.7
100	PV2 BPSK	270	0	14.76	14.67	14.47	15.7
100	QPSK	1	1	15.01	14.75	14.50	15.7
100	QPSK	1	137	14.86	14.70	14.66	15.7
100	QPSK	1	271	14.84	14.69	14.66	15.7
100	QPSK	156	0	14.82	14.59	14.80	15.7
100	QPSK	156	66	14.86	14.61	14.67	15.7
100	QPSK	156	138	14.85	14.62	14.65	15.7
100	QPSK	270	0	14.80	14.59	14.61	15.7
100	8QAM	1	1	14.84	14.79	14.79	15.7
100	8QAM	1	137	14.85	14.67	14.74	15.7
100	256QAM	1	1	14.85	14.64	14.70	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	84059	83900	83932	Time-up limit (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	1482	1482	1475	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	8434	8434	8434	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	1481	1480	1478	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	1493	1493	1493	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	1489	1489	1474	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	1497	1488	1474	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	1485	1488	1488	15.7
Channel							
Frequency (MHz)							
28	QPSK	1	1	84734	83900	83986	Time-up limit (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	1490	1488	1474	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	1489	1489	1489	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	1488	1480	1475	15.7





Part27Q_n77_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.41	14.42	14.43	
100	PV2 BPSK	1	1	14.42	14.43	14.44	15.7
100	PV2 BPSK	1	271	14.42	14.43	14.44	15.7
100	PV2 BPSK	135	66	14.43	14.44	14.45	15.7
100	PV2 BPSK	135	138	14.43	14.44	14.45	15.7
100	PV2 BPSK	270	0	14.43	14.44	14.45	15.7
100	QPSK	1	1	14.43	14.44	14.45	15.7
100	QPSK	1	137	14.43	14.44	14.45	15.7
100	QPSK	1	271	14.43	14.44	14.45	15.7
100	QPSK	135	66	14.43	14.44	14.45	15.7
100	QPSK	135	138	14.43	14.44	14.45	15.7
100	QPSK	270	0	14.43	14.44	14.45	15.7
100	64QAM	1	1	14.43	14.44	14.45	15.7
100	64QAM	1	1	14.43	14.44	14.45	15.7
100	256QAM	1	1	14.43	14.44	14.45	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.42	14.43	14.44	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.44	14.45	14.46	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.43	14.44	14.45	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.42	14.43	14.44	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.41	14.42	14.43	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.41	14.42	14.43	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.41	14.42	14.43	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.41	14.42	14.43	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.41	14.42	14.43	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.40	14.41	14.42	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.40	14.41	14.42	15.7

Part27O_n77_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.71	14.72	14.73	
100	PV2 BPSK	1	137	14.71	14.72	14.73	15.7
100	PV2 BPSK	1	271	14.71	14.72	14.73	15.7
100	PV2 BPSK	135	66	14.72	14.73	14.74	15.7
100	PV2 BPSK	135	138	14.72	14.73	14.74	15.7
100	PV2 BPSK	270	0	14.72	14.73	14.74	15.7
100	QPSK	1	1	14.71	14.72	14.73	15.7
100	QPSK	1	137	14.71	14.72	14.73	15.7
100	QPSK	1	271	14.71	14.72	14.73	15.7
100	QPSK	135	66	14.72	14.73	14.74	15.7
100	QPSK	135	138	14.72	14.73	14.74	15.7
100	QPSK	270	0	14.72	14.73	14.74	15.7
100	64QAM	1	1	14.72	14.73	14.74	15.7
100	64QAM	1	1	14.72	14.73	14.74	15.7
100	256QAM	1	1	14.72	14.73	14.74	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.69	14.70	14.71	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.70	14.71	14.72	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.69	14.70	14.71	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.67	14.68	14.69	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.67	14.68	14.69	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.70	14.71	14.72	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.70	14.71	14.72	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.73	14.74	14.75	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.68	14.69	14.70	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.67	14.68	14.69	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.66	14.67	14.68	15.7

Part27Q_n77(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.51	14.52	14.53	
100	PV2 BPSK	1	137	14.51	14.52	14.53	15.7
100	PV2 BPSK	1	271	14.51	14.52	14.53	15.7
100	PV2 BPSK	135	66	14.52	14.53	14.54	15.7
100	PV2 BPSK	135	138	14.52	14.53	14.54	15.7
100	PV2 BPSK	270	0	14.52	14.53	14.54	15.7
100	QPSK	1	1	14.51	14.52	14.53	15.7
100	QPSK	1	137	14.51	14.52	14.53	15.7
100	QPSK	1	271	14.51	14.52	14.53	15.7
100	QPSK	135	66	14.52	14.53	14.54	15.7
100	QPSK	135	138	14.52	14.53	14.54	15.7
100	QPSK	270	0	14.52	14.53	14.54	15.7
100	64QAM	1	1	14.52	14.53	14.54	15.7
100	64QAM	1	1	14.52	14.53	14.54	15.7
100	256QAM	1	1	14.52	14.53	14.54	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.42	14.43	14.44	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.43	14.44	14.45	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.42	14.43	14.44	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.42	14.43	14.44	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.42	14.43	14.44	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.43	14.44	14.45	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.41	14.42	14.43	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.43	14.44	14.45	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.45	14.46	14.47	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.49	14.50	14.51	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.40	14.41	14.42	15.7

Part27O_n77(HPUe)_Ant 12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq)	Power Middle Ch. 1 (Freq)	Power High Ch. 1 (Freq)	Time-up limit (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	14.71	14.72	14.73	
100	PV2 BPSK	1	137	14.71	14.72	14.73	15.7
100	PV2 BPSK	1	271	14.71	14.72	14.73	15.7
100	PV2 BPSK	135	66	14.72	14.73	14.74	15.7
100	PV2 BPSK	135	138	14.72	14.73	14.74	15.7
100	PV2 BPSK	270	0	14.72	14.73	14.74	15.7
100	QPSK	1	1	14.71	14.72	14.73	15.7
100	QPSK	1	137	14.71	14.72	14.73	15.7
100	QPSK	1	271	14.71	14.72	14.73	15.7
100	QPSK	135	66	14.72	14.73	14.74	15.7
100	QPSK	135	138	14.72	14.73	14.74	15.7
100	QPSK	270	0	14.72	14.73	14.74	15.7
100	64QAM	1	1	14.72	14.73	14.74	15.7
100	64QAM	1	1	14.72	14.73	14.74	15.7
100	256QAM	1	1	14.72	14.73	14.74	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.69	14.70	14.71	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.70	14.71	14.72	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.69	14.70	14.71	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.67	14.68	14.69	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.67	14.68	14.69	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.70	14.71	14.72	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.70	14.71	14.72	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.73	14.74	14.75	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.73	14.74	14.75	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.77	14.78	14.79	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.66	14.67	14.68	15.7





Part27Q_n78_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	Ch. Data Rate (S)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.87	18.87	18.87	-	-	-
100	Pi2 BPSK	1	137	18.46	18.46	18.46	19.7	0.0	0.11
100	Pi2 BPSK	1	271	18.50	18.50	18.50	-	-	-
100	Pi2 BPSK	135	0	18.52	18.52	18.52	19.7	0.0	0.00
100	Pi2 BPSK	135	69	18.50	18.50	18.50	19.7	0.0	0.00
100	Pi2 BPSK	135	138	18.49	18.49	18.49	19.7	0.0	0.01
100	Pi2 BPSK	270	0	18.48	18.48	18.48	19.7	0.0	0.00
100	QPSK	1	1	18.72	18.72	18.72	-	-	-
100	QPSK	1	137	18.81	18.81	18.81	19.7	0.0	0.11
100	QPSK	1	271	18.83	18.83	18.83	-	-	-
100	QPSK	135	0	18.57	18.57	18.57	19.7	0.0	0.00
100	QPSK	135	69	18.56	18.56	18.56	19.7	0.0	0.00
100	QPSK	135	138	18.56	18.56	18.56	19.7	0.0	0.00
100	QPSK	270	0	18.53	18.53	18.53	19.7	0.0	0.00
100	8QAM	1	1	18.62	18.62	18.62	-	-	-
100	8QAM	1	137	18.58	18.58	18.58	19.7	0.0	0.00
100	25QAM	1	1	18.57	18.57	18.57	19.7	0.0	0.00
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.64	18.66	18.68	19.7	0.0	0.04
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.44	18.48	18.52	19.7	0.0	0.00
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.60	18.67	18.68	19.7	0.0	0.00
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.70	18.60	18.50	19.7	0.0	0.12
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.62	18.54	18.70	19.7	0.0	0.06
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.62	18.59	18.62	19.7	0.0	0.00
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.63	18.62	18.61	19.7	0.0	0.00

Part27O_n78_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	Ch. Data Rate (S)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.20	18.20	18.20	-	-	-
100	Pi2 BPSK	1	137	18.15	18.15	18.15	19.7	0.0	0.11
100	Pi2 BPSK	1	271	18.12	18.12	18.12	-	-	-
100	Pi2 BPSK	135	0	18.20	18.20	18.20	19.7	0.0	0.00
100	Pi2 BPSK	135	69	18.14	18.14	18.14	19.7	0.0	0.00
100	Pi2 BPSK	135	138	18.24	18.24	18.24	19.7	0.0	0.01
100	Pi2 BPSK	270	0	18.11	18.11	18.11	19.7	0.0	0.00
100	QPSK	1	1	18.22	18.22	18.22	-	-	-
100	QPSK	1	137	18.21	18.21	18.21	19.7	0.0	0.11
100	QPSK	1	271	18.27	18.27	18.27	-	-	-
100	QPSK	135	0	18.15	18.15	18.15	19.7	0.0	0.00
100	QPSK	135	69	18.16	18.16	18.16	19.7	0.0	0.00
100	QPSK	135	138	18.09	18.09	18.09	19.7	0.0	0.00
100	QPSK	270	0	18.18	18.18	18.18	19.7	0.0	0.00
100	8QAM	1	1	18.20	18.20	18.20	-	-	-
100	8QAM	1	137	18.16	18.16	18.16	19.7	0.0	0.00
100	25QAM	1	1	18.26	18.26	18.26	19.7	0.0	0.00
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.16	18.20	18.33	19.7	0.0	0.04
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.10	18.17	18.24	19.7	0.0	0.00
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.14	18.24	18.30	19.7	0.0	0.00
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.14	18.24	18.30	19.7	0.0	0.00
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.14	18.24	18.30	19.7	0.0	0.00
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.14	18.24	18.30	19.7	0.0	0.00
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.10	18.13	18.14	19.7	0.0	0.00
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.16	18.22	18.12	19.7	0.0	0.12
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.12	18.14	18.70	19.7	0.0	0.06
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.12	18.20	18.30	19.7	0.0	0.00
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.14	18.30	18.31	19.7	0.0	0.00

Part27Q_n78(HPIUE)_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	Ch. Data Rate (S)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.67	18.67	18.67	-	-	-
100	Pi2 BPSK	1	137	18.46	18.46	18.46	19.7	0.0	0.11
100	Pi2 BPSK	1	271	18.50	18.50	18.50	-	-	-
100	Pi2 BPSK	135	0	18.52	18.52	18.52	19.7	0.0	0.00
100	Pi2 BPSK	135	69	18.50	18.50	18.50	19.7	0.0	0.00
100	Pi2 BPSK	135	138	18.49	18.49	18.49	19.7	0.0	0.01
100	Pi2 BPSK	270	0	18.48	18.48	18.48	19.7	0.0	0.00
100	QPSK	1	1	18.72	18.72	18.72	-	-	-
100	QPSK	1	137	18.81	18.81	18.81	19.7	0.0	0.11
100	QPSK	1	271	18.83	18.83	18.83	-	-	-
100	QPSK	135	0	18.57	18.57	18.57	19.7	0.0	0.00
100	QPSK	135	69	18.56	18.56	18.56	19.7	0.0	0.00
100	QPSK	135	138	18.56	18.56	18.56	19.7	0.0	0.00
100	QPSK	270	0	18.53	18.53	18.53	19.7	0.0	0.00
100	8QAM	1	1	18.66	18.66	18.66	-	-	-
100	8QAM	1	137	18.58	18.58	18.58	19.7	0.0	0.00
100	25QAM	1	1	18.57	18.57	18.57	19.7	0.0	0.00
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.64	18.66	18.68	19.7	0.0	0.04
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.44	18.48	18.52	19.7	0.0	0.00
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.64	18.68	18.72	19.7	0.0	0.00
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.60	18.67	18.68	19.7	0.0	0.00
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.70	18.60	18.50	19.7	0.0	0.12
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.62	18.54	18.70	19.7	0.0	0.06
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.62	18.59	18.62	19.7	0.0	0.00
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.63	18.62	18.61	19.7	0.0	0.00

Part27O_n78(HPIUE)_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	Ch. Data Rate (S)
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.20	18.20	18.20	-	-	-
100	Pi2 BPSK	1	137	18.15	18.15	18.15	19.7	0.0	0.11
100	Pi2 BPSK	1	271	18.12	18.12	18.12	-	-	-
100	Pi2 BPSK	135	0	18.20	18.20	18.20	19.7	0.0	0.00
100	Pi2 BPSK	135	69	18.14	18.14	18.14	19.7	0.0	0.00
100	Pi2 BPSK	135	138	18.24	18.24	18.24	19.7	0.0	0.01
100	Pi2 BPSK	270	0	18.11	18.11	18.11	19.7	0.0	0.00
100	QPSK	1	1	18.22	18.22	18.22	-	-	-
100	QPSK	1	137	18.21	18.21	18.21	19.7	0.0	0.11
100	QPSK	1	271	18.27	18.27	18.27	-	-	-
100	QPSK	135	0	18.15	18.15	18.15	19.7	0.0	0.00
100	QPSK	135	69	18.16	18.16	18.16	19.7	0.0	0.00
100	QPSK	135	138	18.09	18.09	18.09	19.7	0.0	0.00
100	QPSK	270	0	18.18	18.18	18.18	19.7	0.0	0.00
100	8QAM	1	1	18.20	18.20	18.20	-	-	-
100	8QAM	1	137	18.16	18.16	18.16	19.7	0.0	0.00
100	25QAM	1	1	18.26					



Part27Q_n78_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi4 BPSK	1	1	14.43	14.43	14.38	15.7
100	Pi4 BPSK	1	137	14.29	14.29	14.25	15.7
100	Pi4 BPSK	1	271	14.46	14.46	14.40	15.7
100	Pi4 BPSK	135	0	14.20	14.20	14.15	15.7
100	Pi4 BPSK	135	69	14.38	14.38	14.32	15.7
100	Pi4 BPSK	135	138	14.23	14.23	14.18	15.7
100	Pi4 BPSK	270	0	14.25	14.25	14.20	15.7
100	QPSK	1	1	14.58	14.58	14.53	15.7
100	QPSK	1	137	14.43	14.43	14.38	15.7
100	QPSK	1	271	14.51	14.51	14.46	15.7
100	QPSK	135	0	14.28	14.28	14.23	15.7
100	QPSK	135	69	14.32	14.32	14.27	15.7
100	QPSK	135	138	14.45	14.45	14.40	15.7
100	QPSK	270	0	14.28	14.28	14.23	15.7
100	8QAM	1	1	14.48	14.48	14.43	15.7
100	8QAM	1	137	14.50	14.50	14.45	15.7
100	8QAM	1	271	14.47	14.47	14.42	15.7
100	256QAM	1	1	14.47	14.47	14.42	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.45	14.45	14.38	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.49	14.47	14.31	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.43	14.43	14.37	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.50	14.50	14.44	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.43	14.44	14.33	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.43	14.44	14.40	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.39	14.44	14.35	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.47	14.51	14.33	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.39	14.45	14.30	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.43	14.51	14.34	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.40	14.49	14.40	15.7

Part27O_n78_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi4 BPSK	1	1	14.50	14.50	14.45	15.7
100	Pi4 BPSK	1	137	14.46	14.46	14.40	15.7
100	Pi4 BPSK	1	271	14.40	14.40	14.35	15.7
100	Pi4 BPSK	135	0	14.50	14.50	14.45	15.7
100	Pi4 BPSK	135	69	14.58	14.58	14.52	15.7
100	Pi4 BPSK	135	138	14.39	14.39	14.34	15.7
100	Pi4 BPSK	270	0	14.30	14.30	14.25	15.7
100	QPSK	1	1	14.33	14.33	14.28	15.7
100	QPSK	1	137	14.59	14.59	14.54	15.7
100	QPSK	1	271	14.49	14.49	14.44	15.7
100	QPSK	135	0	14.52	14.52	14.47	15.7
100	QPSK	135	69	14.56	14.56	14.51	15.7
100	QPSK	135	138	14.51	14.51	14.46	15.7
100	QPSK	270	0	14.53	14.53	14.48	15.7
100	8QAM	1	1	14.50	14.50	14.45	15.7
100	8QAM	1	137	14.52	14.52	14.47	15.7
100	8QAM	1	271	14.48	14.48	14.43	15.7
100	256QAM	1	1	14.48	14.48	14.43	15.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.45	14.43	14.41	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.52	14.50	14.42	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.43	14.44	14.43	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.47	14.50	14.42	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.43	14.50	14.43	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.43	14.50	14.43	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.45	14.54	14.43	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.51	14.65	14.49	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.49	14.63	14.58	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.47	14.60	14.64	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.54	14.64	14.63	15.7

Part27Q_n78(HPUe)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi4 BPSK	1	1	14.40	14.40	14.35	15.7
100	Pi4 BPSK	1	137	14.25	14.25	14.20	15.7
100	Pi4 BPSK	1	271	14.40	14.40	14.35	15.7
100	Pi4 BPSK	135	0	14.20	14.20	14.15	15.7
100	Pi4 BPSK	135	69	14.38	14.38	14.32	15.7
100	Pi4 BPSK	135	138	14.23	14.23	14.18	15.7
100	Pi4 BPSK	270	0	14.25	14.25	14.20	15.7
100	QPSK	1	1	14.58	14.58	14.53	15.7
100	QPSK	1	137	14.43	14.43	14.38	15.7
100	QPSK	1	271	14.51	14.51	14.46	15.7
100	QPSK	135	0	14.28	14.28	14.23	15.7
100	QPSK	135	69	14.32	14.32	14.27	15.7
100	QPSK	135	138	14.45	14.45	14.40	15.7
100	QPSK	270	0	14.28	14.28	14.23	15.7
100	8QAM	1	1	14.48	14.48	14.43	15.7
100	8QAM	1	137	14.50	14.50	14.45	15.7
100	8QAM	1	271	14.47	14.47	14.42	15.7
100	256QAM	1	1	14.47	14.47	14.42	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.45	14.43	14.38	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.49	14.47	14.31	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.43	14.43	14.37	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.50	14.50	14.44	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.43	14.44	14.33	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.43	14.44	14.40	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.39	14.44	14.35	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.47	14.51	14.33	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.39	14.45	14.30	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.43	14.51	14.34	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.40	14.49	14.40	15.7

Part27O_n78(HPUe)_Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)							
100	Pi4 BPSK	1	1	14.45	14.45	14.40	15.7
100	Pi4 BPSK	1	137	14.40	14.40	14.35	15.7
100	Pi4 BPSK	1	271	14.40	14.40	14.35	15.7
100	Pi4 BPSK	135	0	14.50	14.50	14.45	15.7
100	Pi4 BPSK	135	69	14.58	14.58	14.52	15.7
100	Pi4 BPSK	135	138	14.39	14.39	14.34	15.7
100	Pi4 BPSK	270	0	14.30	14.30	14.25	15.7
100	QPSK	1	1	14.33	14.33	14.28	15.7
100	QPSK	1	137	14.59	14.59	14.54	15.7
100	QPSK	1	271	14.49	14.49	14.44	15.7
100	QPSK	135	0	14.52	14.52	14.47	15.7
100	QPSK	135	69	14.56	14.56	14.51	15.7
100	QPSK	135	138	14.51	14.51	14.46	15.7
100	QPSK	270	0	14.53	14.53	14.48	15.7
100	8QAM	1	1	14.50	14.50	14.45	15.7
100	8QAM	1	137	14.52	14.52	14.47	15.7
100	8QAM	1	271	14.48	14.48	14.43	15.7
100	256QAM	1	1	14.48	14.48	14.43	15.7
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.45	14.43	14.41	15.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.52	14.50	14.42	15.7
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.43	14.44	14.43	15.7
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.47	14.50	14.42	15.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.43	14.50	14.43	15.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.43	14.50	14.43	15.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.45	14.54	14.43	15.7
Channel							
Frequency (MHz)							
25	QPSK	1	1	14.51	14.65	14.59	15.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.49	14.63	14.58	15.7
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.47	14.60	14.64	15.7
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.54	14.64	14.63	15.7



Part27Q_n78_Ant 11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.08	18.08	18.08	
100	PV2 BPSK	1	137	18.04	18.04	18.04	17.2
100	PV2 BPSK	1	271	18.80	18.80	18.80	
100	PV2 BPSK	135	0	15.92	15.92	15.92	17.2
100	PV2 BPSK	135	66	15.97	15.97	15.97	17.2
100	PV2 BPSK	135	138	15.85	15.85	15.85	17.2
100	PV2 BPSK	270	0	15.87	15.87	15.87	17.2
100	QPSK	1	1	18.15	18.15	18.15	
100	QPSK	1	137	18.10	18.10	18.10	17.2
100	QPSK	1	271	18.90	18.90	18.90	
100	QPSK	135	0	15.99	15.99	15.99	17.2
100	QPSK	135	66	16.04	16.04	16.04	17.2
100	QPSK	135	138	15.99	15.99	15.99	17.2
100	QPSK	270	0	15.98	15.98	15.98	17.2
100	8QAM	1	1	18.08	18.08	18.08	17.2
100	8QAM	1	1	18.05	18.05	18.05	17.2
100	256QAM	1	1	18.06	18.06	18.06	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	63.900	63.900	63.900	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	3495	3499.98	3504.99	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.05	18.04	18.03	17.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	3485.01	3490.98	3514.98	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
70	QPSK	1	1	63.900	63.900	63.900	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.05	18.07	18.07	17.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	63.934	63.932	63.932	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
40	QPSK	1	1	63.900	63.932	63.966	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.10	18.10	18.07	17.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	63.934	63.932	63.932	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.05	18.10	18.01	17.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.05	18.00	18.02	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.05	18.08	18.01	17.2

Part27O_n78_Ant 11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.11	18.11	18.11	
100	PV2 BPSK	1	137	18.04	18.04	18.04	17.2
100	PV2 BPSK	1	271	18.80	18.80	18.80	
100	PV2 BPSK	135	0	15.98	15.98	15.98	17.2
100	PV2 BPSK	135	66	16.10	16.10	16.10	17.2
100	PV2 BPSK	135	138	15.94	15.94	15.94	17.2
100	PV2 BPSK	270	0	15.85	15.85	15.85	17.2
100	QPSK	1	1	18.25	18.25	18.25	
100	QPSK	1	137	18.13	18.13	18.13	17.2
100	QPSK	1	271	19.00	19.00	19.00	
100	QPSK	135	0	16.09	16.09	16.09	17.2
100	QPSK	135	66	16.14	16.14	16.14	17.2
100	QPSK	135	138	16.09	16.09	16.09	17.2
100	QPSK	270	0	16.08	16.08	16.08	17.2
100	8QAM	1	1	18.10	18.10	18.10	17.2
100	8QAM	1	1	18.07	18.07	18.07	17.2
100	256QAM	1	1	18.14	18.14	18.14	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	64.000	64.000	64.000	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	3485.01	3490.98	3495.98	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.04	18.03	18.00	17.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	3475.01	3480.98	3499.98	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
70	QPSK	1	1	64.000	64.000	64.000	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
60	QPSK	1	1	63.934	63.932	63.932	17.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	63.900	63.900	63.900	17.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	63.966	63.966	63.966	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.07	18.18	18.07	17.2
Channel							
Frequency (MHz)							
28	QPSK	1	1	63.900	63.900	63.900	17.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.00	18.18	18.05	17.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.05	18.13	18.15	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.08	18.16	18.15	17.2

Part27Q_n78(HPUe)_Ant 11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.04	18.04	18.04	
100	PV2 BPSK	1	137	18.89	18.89	18.89	17.2
100	PV2 BPSK	1	271	15.82	15.82	15.82	17.2
100	PV2 BPSK	135	0	15.97	15.97	15.97	17.2
100	PV2 BPSK	135	66	15.85	15.85	15.85	17.2
100	PV2 BPSK	135	138	15.94	15.94	15.94	17.2
100	PV2 BPSK	270	0	15.87	15.87	15.87	17.2
100	QPSK	1	1	18.15	18.15	18.15	
100	QPSK	1	137	18.10	18.10	18.10	17.2
100	QPSK	1	271	18.90	18.90	18.90	
100	QPSK	135	0	15.99	15.99	15.99	17.2
100	QPSK	135	66	16.04	16.04	16.04	17.2
100	QPSK	135	138	15.99	15.99	15.99	17.2
100	QPSK	270	0	15.98	15.98	15.98	17.2
100	8QAM	1	1	18.05	18.05	18.05	17.2
100	8QAM	1	1	18.02	18.02	18.02	17.2
100	256QAM	1	1	18.06	18.06	18.06	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	64.000	64.000	64.000	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	3485.01	3490.98	3495.98	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.04	18.04	18.03	17.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	3485.01	3490.98	3514.98	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
70	QPSK	1	1	64.000	64.000	64.000	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
60	QPSK	1	1	63.966	63.966	63.966	17.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	63.900	63.900	63.900	17.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	63.900	63.932	63.966	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.10	18.10	18.07	17.2
Channel							
Frequency (MHz)							
25	QPSK	1	1	63.934	63.932	63.932	17.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.05	18.10	18.01	17.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.05	18.00	18.02	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.05	18.08	18.01	17.2

Part27O_n78(HPUe)_Ant 11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
100	PV2 BPSK	1	1	18.11	18.11	18.11	
100	PV2 BPSK	1	137	18.04	18.04	18.04	17.2
100	PV2 BPSK	1	271	18.80	18.80	18.80	
100	PV2 BPSK	135	0	15.98	15.98	15.98	17.2
100	PV2 BPSK	135	66	16.10	16.10	16.10	17.2
100	PV2 BPSK	135	138	15.94	15.94	15.94	17.2
100	PV2 BPSK	270	0	15.85	15.85	15.85	17.2
100	QPSK	1	1	18.25	18.25	18.25	
100	QPSK	1	137	18.13	18.13	18.13	17.2
100	QPSK	1	271	19.00	19.00	19.00	
100	QPSK	135	0	16.09	16.09	16.09	17.2
100	QPSK	135	66	16.14	16.14	16.14	17.2
100	QPSK	135	138	16.09	16.09	16.09	17.2
100	QPSK	270	0	16.08	16.08	16.08	17.2
100	8QAM	1	1	18.10	18.10	18.10	17.2
100	8QAM	1	1	18.07	18.07	18.07	17.2
100	256QAM	1	1	18.14	18.14	18.14	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	64.000	64.000	64.000	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	3485.01	3490.98	3495.98	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.04	18.03	18.00	17.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	3475.01	3480.98	3499.98	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
70	QPSK	1	1	64.000	64.000	64.000	Take-up Int. (dBm)
Channel							
Frequency (MHz)							
60	QPSK	1	1	63.934	63.932	63.932	17.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	63.900	63.900	63.900	17.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	63.966	63.966	63.966	17.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.07	18.18	18.07	17.2
Channel							
Frequency (MHz)							
28	QPSK	1	1	63.900	63.900	63.900	17.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.00	18.18	18.05	17.2
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.05	18.13	18.15	17.2
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.08	18.16	18.15	17.2



Bluetooth_Default/DSI 4/5			Ant 1					
Mode	Channel	Frequency (MHz)	Average power (dBm)					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	13.60	15.00	7.30	9.00	7.30	9.00
	CH 39	2441	12.70	14.00	6.50	9.00	6.50	9.00
	CH 78	2480	12.30	14.00	6.40	9.00	6.40	9.00
Tune-up Limit								

BLE_Default			Ant 1			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	125Kbps	500Kbps
LE	CH 00	2402	13.30		8.20	8.10
	CH 19	2440	12.70		7.60	7.50
	CH 39	2480	12.40		7.40	7.30
Tune-up Limit			15		9	9

BLE_Default			Ant 1			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			2Mbps			
LE	CH 01	2404		13.40		
	CH 19	2440		12.60		
	CH 38	2478		12.30		
Tune-up Limit				15		

Bluetooth_Default/DSI 4			Ant 10					
Mode	Channel	Frequency (MHz)	Average power (dBm)					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	17.50	18.50	12.30	13.50	12.30	13.50
	CH 39	2441	17.50	18.50	12.60	13.50	12.50	13.50
	CH 78	2480	17.50	18.50	12.30	13.50	12.20	13.50
Tune-up Limit								

Bluetooth_DSI 5			Ant 10					
Mode	Channel	Frequency (MHz)	Average power (dBm)					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	16.20	17.00	11.20	12.00	11.10	12.00
	CH 39	2441	15.90	17.00	11.10	12.00	11.00	12.00
	CH 78	2480	15.50	17.00	10.40	12.00	10.30	12.00
Tune-up Limit								

BLE_Default			Ant 10			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	125Kbps	500Kbps
LE	CH 00	2402	16.60		7.10	6.90
	CH 19	2440	16.60		7.20	7.10
	CH 38	2480	16.40		7.10	7.10
Tune-up Limit			18		9	9

BLE_Default			Ant 10			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			2Mbps			
LE	CH 01	2404		17.00		
	CH 19	2440		17.10		
	CH 38	2478		17.00		
Tune-up Limit				18.5		

Bluetooth_Default/DSI 4			Ant 13					
Mode	Channel	Frequency (MHz)	Average power (dBm)					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	18.60	20.00	13.60	15.50	13.70	15.50
	CH 39	2441	18.60	20.00	13.70	15.50	13.60	15.50
	CH 78	2480	18.30	20.00	13.70	15.50	13.70	15.50
Tune-up Limit								

Bluetooth_DSI 5			Ant 13					
Mode	Channel	Frequency (MHz)	Average power (dBm)					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	16.30	18.00	11.50	13.50	11.80	13.50
	CH 39	2441	16.40	18.00	11.70	13.50	11.60	13.50
	CH 78	2480	16.10	18.00	11.50	13.50	11.60	13.50
Tune-up Limit								

BLE_Default			Ant 13			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	125Kbps	500Kbps
LE	CH 00	2402	17.10		10.10	10.00
	CH 19	2440	16.80		9.50	9.40
	CH 39	2480	16.80		9.50	9.40
Tune-up Limit			18.5		11	11

BLE_Default			Ant 13			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			2Mbps			
LE	CH 01	2404		17.80		
	CH 19	2440		17.30		
	CH 38	2478		17.20		
Tune-up Limit				19		

**<2.4GHz WLAN>**

Mode	Channel	Frequency (MHz)	Req.14.1		Req. 14.5		Req. 14.6		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 1Mbps	1	2412	21.00	22.5	17.62	19.0	19.56	21.0	100.00
	6	2437	20.50	22.5	17.54	19.0	19.56	21.0	100.00
	11	2462	20.50	22.5	17.22	19.0	19.32	21.0	100.00
802.11g 6Mbps	1	2412	20.70	22.5	18.0	19.0	19.5	21.0	98.98
	6	2437	20.70	22.5	18.0	19.0	19.5	21.0	98.98
	11	2462	20.70	22.5	18.0	19.0	19.5	21.0	98.98
802.11n HT20 MCS0	1	2412	20.50	22.5	18.0	19.0	19.5	21.0	100.00
	6	2437	20.50	22.5	18.0	19.0	19.5	21.0	100.00
	11	2462	20.50	22.5	18.0	19.0	19.5	21.0	100.00
802.11n HT40 MCS0	3	2422	20.50	22.5	18.0	19.0	19.5	21.0	100.00
	6	2437	20.50	22.5	18.0	19.0	19.5	21.0	100.00
	9	2452	20.50	22.5	18.0	19.0	19.5	21.0	100.00
802.11ac VHT20 MCS0	1	2412	21.0	22.5	18.0	19.0	19.5	21.0	100.00
	6	2437	21.0	22.5	18.0	19.0	19.5	21.0	100.00
	11	2462	21.0	22.5	18.0	19.0	19.5	21.0	100.00
802.11ac VHT40 MCS0	3	2422	Not Required	22.5	Not Required	19.0	19.0	19.5	100.00
	6	2437	Not Required	22.5	Not Required	19.0	19.0	19.5	100.00
	9	2452	Not Required	22.5	Not Required	19.0	19.0	19.5	100.00
802.11ax HE20 MCS0	1	2412	20.50	22.5	18.0	19.0	19.5	21.0	100.00
	6	2437	20.50	22.5	18.0	19.0	19.5	21.0	100.00
	9	2452	20.50	22.5	18.0	19.0	19.5	21.0	100.00
802.11ax HE40 MCS0	3	2422	20.10	22.6	18.0	19.0	19.5	21.0	100.00
	6	2437	20.30	22.6	18.0	19.0	19.5	21.0	100.00
	9	2452	20.30	22.6	18.0	19.0	19.5	21.0	100.00
802.11be EHT20 MCS0	1	2412	18.80	18.5	18.5	18.5	18.5	18.5	100.00
	6	2437	18.70	18.5	18.5	18.5	18.5	18.5	100.00
	11	2462	18.70	18.5	18.5	18.5	18.5	18.5	100.00
802.11be EHT40 MCS0	3	2422	18.60	17.5	17.5	17.5	17.5	17.5	100.00
	6	2437	18.20	17.5	17.5	17.5	17.5	17.5	100.00
	9	2452	18.80	17.5	17.5	17.5	17.5	17.5	100.00

Mode	Channel	Frequency (MHz)	Req.14.1		Req. 14.5		Req. 14.6		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 1Mbps	1	2412	21.20	22.5	17.15	18.5	18.24	19.8	100.00
	6	2437	21.00	22.5	17.12	18.5	18.24	19.8	100.00
	11	2462	21.00	22.5	16.94	18.5	18.19	19.8	100.00
802.11g 6Mbps	1	2412	21.20	22.5	18.0	19.0	19.5	21.0	98.63
	6	2437	21.00	22.5	18.0	19.0	19.5	21.0	98.63
	11	2462	21.00	22.5	18.0	19.0	19.5	21.0	98.63
802.11n HT20 MCS0	1	2412	21.30	22.5	18.5	19.5	19.5	21.0	100.00
	6	2437	21.30	22.5	18.5	19.5	19.5	21.0	100.00
	11	2462	21.10	22.5	18.5	19.5	19.5	21.0	100.00
802.11n HT40 MCS0	3	2422	20.50	22.5	18.5	19.5	19.5	21.0	100.00
	6	2437	20.50	22.5	18.5	19.5	19.5	21.0	100.00
	9	2452	20.50	22.5	18.5	19.5	19.5	21.0	100.00
802.11ac VHT20 MCS0	1	2412	21.0	22.5	18.5	19.5	19.5	21.0	100.00
	6	2437	21.0	22.5	18.5	19.5	19.5	21.0	100.00
	11	2462	21.0	22.5	18.5	19.5	19.5	21.0	100.00
802.11ac VHT40 MCS0	3	2422	Not Required	22.5	Not Required	19.0	19.0	19.5	100.00
	6	2437	Not Required	22.5	Not Required	19.0	19.0	19.5	100.00
	9	2452	Not Required	22.5	Not Required	19.0	19.0	19.5	100.00
802.11ax HE20 MCS0	1	2412	20.30	22.5	18.5	19.5	19.5	21.0	100.00
	6	2437	20.30	22.5	18.5	19.5	19.5	21.0	100.00
	9	2452	20.30	22.5	18.5	19.5	19.5	21.0	100.00
802.11ax HE40 MCS0	3	2422	20.40	22.6	18.5	19.5	19.5	21.0	100.00
	6	2437	20.30	22.6	18.5	19.5	19.5	21.0	100.00
	9	2452	20.40	22.6	18.5	19.5	19.5	21.0	100.00
802.11be EHT20 MCS0	1	2412	17.20	18.5	18.5	18.5	18.5	18.5	100.00
	6	2437	17.00	18.5	18.5	18.5	18.5	18.5	100.00
	11	2462	18.00	18.5	18.5	18.5	18.5	18.5	100.00
802.11be EHT40 MCS0	3	2422	16.20	17.5	17.5	17.5	17.5	17.5	100.00
	6	2437	16.20	17.5	17.5	17.5	17.5	17.5	100.00
	9	2452	16.30	17.5	17.5	17.5	17.5	17.5	100.00

**<5.2GHz WLAN>**

Mode	Channel	Frequency (MHz)	Req.14.1		Req. 14.5		Req. 14.6		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	36	5180	18.16	20.0	18.0	17.0	17.0	14.0	98.56
	40	5200	19.61	21.0	18.0	17.0	17.0	14.0	98.56
	44	5220	19.79	21.0	18.0	17.0	17.0	14.0	98.56
802.11n HT20 MCS0	48	5240	19.68	21.0	18.0	17.0	17.0	14.0	100.00
	52	5260	17.66	18.5	18.0	17.0	17.0	14.0	100.00
	40	5200	19.70	21.0	18.0	17.0	17.0	14.0	100.00
802.11n HT40 MCS0	44	5220	19.78	21.0	18.0	17.0	17.0	14.0	100.00
	48	5240	19.62	21.0	18.0	17.0	17.0	14.0	100.00
	45	5245	19.52	21.0	18.0	17.0	17.0	14.0	100.00
802.11ac VHT20 MCS0	38	5190	17.03	18.5	18.0	17.0	17.0	14.0	100.00
	42	5210	18.11	21.0	18.0	17.0	17.0	14.0	100.00
	36	5180	19.82	21.0	18.0	17.0	17.0	14.0	100.00
802.11ac VHT40 MCS0	40	5200	21.0	21.0	18.0	17.0	17.0	14.0	100.00
	44	5220	Not Required	21.0	18.0	17.0	17.0	14.0	100.00
	48	5240	Not Required	21.0	18.0	17.0	17.0	14.0	100.00
802.11ax HE20 MCS0	40	5200	18.0	18.0	18.0	17.0	17.0	14.0	100.00
	44	5220	18.0	18.0	18.0	17.0	17.0	14.0	100.00
	48	5240	18.0	18.0	18.0	17.0	17.0	14.0	100.00
802.11ax HE40 MCS0	38	5190	16.00	17.0	17.0	17.0	17.0	14.0	100.00
	42	5210	18.08	21.0	18.0	17.0	17.0	14.0	100.00
	46	5230	19.58	21.0	18.0	17.0	17.0	14.0	100.00
802.11ax HE80 MCS0	42	5210	16.50	18.5	18.0	17.0	17.0	14.0	100.00
	36	5180	16.82	18.5	18.0	17.0	17.0	14.0	100.00
	40	5200	16.70	18.5	18.0	17.0	17.0	14.0	100.00
802.11be EHT20 MCS0	44	5220	18.94	18.5	18.0	17.0	17.0	14.0	100.00
	48	5240	18.98	18.5	18.0	17.0	17.0	14.0	100.00
	38	5190	18.12	18.5	18.0	17.0	17.0	14.0	100.00
802.11be EHT40 MCS0	46	5230	16.96	18.5	18.0	17.0	17.0	14.0	100.00
	45	5230	16.60	18.5	18.0	17.0	17.0	14.0	100.00
	42	5210	16.60	18.5	18.0	17.0	17.0	14.0	100.00

Mode	Channel	Frequency (MHz)	Req.14.1		Req. 14.5		Req. 14.6		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps	38	5190	19.58	21.0	19.58	21.0	14.0	14.0	98.57
	40	5200	19.61	21.0	19.58	21.0	14.0	14.0	98.57
	44	5220	19.60	21.0	19.60	21.0	14.0	14.0	98.57
802.11n HT20 MCS0	48	5240	19.74	21.0	19.74	21.0	14.0	14.0	100.00
	52	5260	18.61	21.0	18.61	21.0	14.0	14.0	100.00
	40	5200	19.62	21.0	19.62	21.0	14.0	14.0	100.00
802.11n HT40 MCS0	44	5220	19.59	21.0	19.59	21.0	14.0	14.0	100.00
	48	5240	19.61	21.0	19.61	21.0	14.0	14.0	100.00
	45	5245	19.52	21.0	19.52	21.0	14.0	14.0	100.00
802.11ac VHT20 MCS0	36	5180	19.77	21.0	19.77	21.0	14.0	14.0	100.00
	40	5200	21.0	21.0	21.0	21.0	14.0	14.0	100.00
	44	5220	Not Required	21.0	18.0	17.0	14.0	100.00	
802.11ac VHT40 MCS0	48	5240	Not Required	21.0	18.0	17.0	14.0	100.00	
	40	5200	21.0	21.0	18.0	17.0	14.0	100.00	
	44	5220	Not Required	21.0	18.0	17.0	14.0	100.00	
802.11ax HE20 MCS0	40	5200	18.0	18.0	18.0	17.0	17.0	14.0	100.00
	44	5220	18.0	18.0	18.0	17.0	17.0	14.0	100.00
	48	5240	18.0	18.0	18.0	17.0	17.0	14.0	100.00
802.11ax HE40 MCS0	38	5190	16.01	17.0	18.0	17.0</			

		Default												For DMR 5				For DMR 4				Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit				
2.4GHz WLAN	802.11b Mbps	1	2412	21.00	22.5	21.20	22.5	21.11	22.6	16.06	17.5	16.27	17.5	16.16	20.5	17.26	18.5	17.33	18.6	20.31	21.5	100.00		
		6	2437	20.90	22.5	21.10	22.5	21.01	22.6	15.94	17.5	16.15	17.5	16.06	20.5	16.98	18.5	17.25	18.5	20.13	21.5	100.00		
		11	2462	20.90	22.5	21.10	22.5	21.06	22.6	15.72	17.5	16.15	17.5	16.06	20.5	16.73	18.5	16.73	18.5	19.80	21.5	100.00		
	802.11g Mbps	1	2412	17.80	19.5	17.90	19.5	20.86	22.0	17.5	17.5	17.5	17.5	17.5	20.5	18.5	18.5	18.5	18.5	18.5	21.5	99.04		
		6	2437	17.80	19.5	17.90	19.5	20.91	22.0	17.5	17.5	17.5	17.5	17.5	20.5	18.5	18.5	18.5	18.5	18.5	21.5	100.00		
		11	2462	17.80	19.5	17.90	19.5	20.91	22.0	17.5	17.5	17.5	17.5	17.5	20.5	18.5	18.5	18.5	18.5	18.5	21.5	100.00		
	2.4GHz WLAN	802.11a-VHT40 MCS0	3	2422	16.10	18.0	16.30	18.0	19.21	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00		
			6	2437	16.10	18.0	16.30	18.0	19.26	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00		
			9	2462	16.00	18.0	16.40	18.0	19.21	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00		
		2.4GHz WLAN	802.11ac-VHT20 MCS0	3	2422	16.00	18.0	16.30	18.0	19.21	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00	
				6	2437	16.00	18.0	16.30	18.0	19.26	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00	
				9	2462	16.00	18.0	16.40	18.0	19.21	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00	
2.4GHz WLAN			802.11ac-VHT40 MCS0	3	2422	16.00	18.0	16.30	18.0	19.21	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00	
				6	2437	16.00	18.0	16.30	18.0	19.26	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00	
				9	2462	16.00	18.0	16.40	18.0	19.21	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00	
			2.4GHz WLAN	802.11ac-HE20 MCS0	3	2422	16.00	18.0	16.30	18.0	19.26	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00
					6	2437	16.00	18.0	16.30	18.0	19.31	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00
					9	2462	16.00	18.0	16.40	18.0	19.26	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00
	2.4GHz WLAN			802.11ac-HE40 MCS0	3	2422	16.00	18.0	16.30	18.0	19.31	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00
					6	2437	16.00	18.0	16.30	18.0	19.36	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00
					9	2462	16.00	18.0	16.40	18.0	19.31	21.0	17.5	17.5	17.5	17.5	20.5	18.0	18.0	18.0	18.0	18.0	21.0	100.00
		2.4GHz WLAN		802.11be-EHT20 MCS0	1	2412	16.80	18.5	17.20	18.5	20.01	21.5	17.5	17.5	17.5	17.5	20.5	18.5	18.5	18.5	18.5	18.5	21.5	100.00
					6	2437	16.90	18.5	17.30	18.5	19.96	21.5	17.5	17.5	17.5	17.5	20.5	18.5	18.5	18.5	18.5	18.5	21.5	100.00
					11	2462	16.70	18.5	16.90	18.5	19.81	21.5	17.5	17.5	17.5	17.5	20.5	18.5	18.5	18.5	18.5	21.5	100.00	
2.4GHz WLAN				802.11be-EHT40 MCS0	3	2422	16.00	17.5	16.20	17.5	19.11	20.5	17.5	17.5	17.5	17.5	20.5	17.5	17.5	17.5	17.5	17.5	20.5	100.00
					6	2437	16.00	17.5	16.20	17.5	19.11	20.5	17.5	17.5	17.5	17.5	20.5	17.5	17.5	17.5	17.5	17.5	20.5	100.00
					9	2462	15.80	17.5	16.30	17.5	19.07	20.5	17.5	17.5	17.5	17.5	20.5	17.5	17.5	17.5	17.5	20.5	100.00	

		Default												For DMR 5				For DMR 4				Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit				
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.50	18.5	17.30	18.5	19.97	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	98.57			
		40	5200	16.60	18.5	17.40	18.5	19.74	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00			
		44	5220	16.76	18.5	16.51	18.5	19.65	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00			
	5.2GHz WLAN	802.11a-VHT40 MCS0	40	5200	16.60	18.5	17.40	18.5	19.74	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00		
			44	5220	16.76	18.5	16.51	18.5	19.68	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00		
			48	5240	16.73	18.5	16.65	18.5	19.70	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00		
		5.2GHz WLAN	802.11a-HE20 MCS0	36	5180	16.57	18.5	17.40	18.5	20.09	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00	
				40	5200	16.63	18.5	16.60	18.5	19.64	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00	
				44	5220	16.82	18.5	16.73	18.5	19.67	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00	
			5.2GHz WLAN	802.11a-HE40 MCS0	36	5180	16.57	18.5	17.40	18.5	19.73	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					40	5200	16.63	18.5	16.62	18.5	19.68	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					44	5220	16.82	18.5	16.71	18.5	19.68	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
5.2GHz WLAN				802.11be-EHT20 MCS0	36	5180	16.50	18.5	17.42	18.5	20.05	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					40	5200	16.62	18.5	16.52	18.5	19.68	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					44	5220	16.82	18.5	16.82	18.5	19.68	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
	5.2GHz WLAN			802.11be-EHT40 MCS0	36	5180	16.50	18.5	17.42	18.5	20.17	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					40	5200	16.70	18.5	16.62	18.5	19.67	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					44	5220	16.94	18.5	16.57	18.5	19.77	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	19.0	100.00	
		5.2GHz WLAN		802.11be-EHT80 MCS0	36	5180	16.56	18.5	16.64	18.5	19.81	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					40	5200	16.96	18.5	16.64	18.5	19.81	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00
					44	5220	16.96	18.5	16.64	18.5	19.81	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00

		Default												For DMR 5				For DMR 4				Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.3GHz WLAN	802.11a 6Mbps	52	5260	16.70	18.5	16.73	18.5	19.75	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	98.57	
		56	5280	17.11	18.5	17.53	18.5	20.34	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0	16.0	16.0	16.0	19.0	100.00	
		60	5300	17.75	18.5	16.70	18.5	20.27	21.5	14.0	14.0	14.0	14.0	17.0	16.0	16.0						