

Full & Default Power

GSM850_Ant 0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.54	32.47	32.45	33.50	23.54	23.47	23.45	24.50
GPRS 1 Tx slot	32.52	32.41	32.31	33.50	23.52	23.41	23.31	24.50
GPRS 2 Tx slots	31.73	31.65	31.58	32.50	25.73	25.65	25.58	26.50
GPRS 3 Tx slots	29.93	29.91	29.84	30.50	25.67	25.65	25.58	26.24
GPRS 4 Tx slots	28.71	28.74	28.73	29.50	25.71	25.74	25.73	26.50
EDGE 1 Tx slot	26.95	27.28	27.34	28.50	17.95	18.28	18.34	19.50
EDGE 2 Tx slots	25.82	26.23	26.26	27.50	19.82	20.23	20.26	21.50
EDGE 3 Tx slots	23.76	24.08	24.15	25.50	19.50	19.82	19.89	21.24
EDGE 4 Tx slots	22.73	22.89	23.12	24.50	19.73	19.89	20.12	21.50

GSM1900_Ant 0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	610		512	661	610	
Frequency (MHz)	1850.2	1890	1893.6		1850.2	1890	1893.6	
GSM 1 Tx slot	29.72	29.74	29.82	30.50	20.72	20.74	20.82	21.50
GPRS 1 Tx slot	29.74	29.72	29.79	30.50	20.74	20.72	20.79	21.50
GPRS 2 Tx slots	28.91	28.94	28.99	29.50	22.91	22.94	22.99	23.50
GPRS 3 Tx slots	27.13	27.17	27.23	27.50	22.87	22.91	22.97	23.24
GPRS 4 Tx slots	26.08	26.14	26.04	26.50	23.08	23.14	23.04	23.50
EDGE 1 Tx slot	26.37	26.11	26.06	26.50	17.37	17.11	17.06	17.50
EDGE 2 Tx slots	25.33	25.09	24.95	25.50	19.33	19.09	18.95	19.50
EDGE 3 Tx slots	23.21	23.08	23.01	23.50	18.95	18.82	18.75	19.24
EDGE 4 Tx slots	22.10	21.95	21.94	22.50	19.10	18.95	18.94	19.50

Band TX Channel	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			WCDMA V_Ant 0			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513	4132	4182	4233		
Rx Channel	9652	9800	9938		1537	1638	1738	4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	826.4	836.4	846.6		
3GPP Rel 99 AMR 12.2Kbps	23.69	23.60	23.65	24.00	23.40	23.31	23.16	24.00	23.23	23.34	23.23	24.00
3GPP Rel 99 RMC 12.2Kbps	23.67	23.74	23.66	24.00	23.42	23.44	23.31	24.00	23.35	23.36	23.28	24.00
3GPP Rel 6 HSDPA Subtest-1	22.73	22.41	22.58	23.00	22.19	22.34	22.22	23.00	22.27	22.28	22.23	23.00
3GPP Rel 6 HSDPA Subtest-2	22.71	22.56	22.58	23.00	22.32	22.35	22.26	23.00	22.29	22.26	22.25	23.00
3GPP Rel 6 HSDPA Subtest-3	22.30	22.11	22.10	22.50	21.85	21.87	21.79	22.50	21.85	21.83	21.78	22.50
3GPP Rel 6 HSDPA Subtest-4	22.21	22.11	22.11	22.50	21.81	21.84	21.69	22.50	21.80	21.75	21.73	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.64	22.30	22.43	23.00	22.15	22.32	22.19	23.00	22.25	22.23	22.12	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	22.57	22.42	22.51	23.00	22.26	22.29	22.24	23.00	22.14	22.18	22.20	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	22.15	22.05	22.00	22.50	21.76	21.77	21.79	22.50	21.76	21.82	21.68	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	22.06	22.03	22.03	22.50	21.66	21.75	21.61	22.50	21.66	21.65	21.68	22.50
3GPP Rel 6 HSUPA Subtest-1	20.70	20.57	20.57	22.00	20.37	20.33	20.25	22.00	20.29	20.26	20.24	22.00
3GPP Rel 6 HSUPA Subtest-2	20.67	20.58	20.60	21.00	20.38	20.30	20.28	21.00	20.27	20.26	20.24	21.00
3GPP Rel 6 HSUPA Subtest-3	21.70	21.56	21.61	22.00	21.38	21.36	21.25	22.00	21.27	21.26	21.22	22.00
3GPP Rel 6 HSUPA Subtest-4	20.27	20.17	20.11	21.00	19.93	19.80	19.75	21.00	19.79	19.77	19.73	21.00
3GPP Rel 6 HSUPA Subtest-5	21.70	21.50	21.60	23.00	21.40	21.30	21.20	23.00	21.30	21.20	21.20	23.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.18	20.10	20.15	20.50	19.83	19.84	19.75	20.50	19.74	19.73	19.73	20.50

Table for Band 5_Ant 0. Columns: BW (MHz), Modulation, RE, RB Offset, Power Lh, Power Mh, Power Ph, Timestep, MPR (dB). Includes sub-tables for Channel Frequency (MHz) and Channel (2045, 20925, 20929).

Table for Band 5_Ant 4. Columns: BW (MHz), Modulation, RE, RB Offset, Power Lh, Power Mh, Power Ph, Timestep, MPR (dB). Includes sub-tables for Channel Frequency (MHz) and Channel (2045, 20925, 20929).

Table for Band 7_Ant 1. Columns: BW (MHz), Modulation, RE, RB Offset, Power Lh, Power Mh, Power Ph, Timestep, MPR (dB). Includes sub-tables for Channel Frequency (MHz) and Channel (20935, 21360, 21378).

Table for Band 7_Ant 4. Columns: BW (MHz), Modulation, RE, RB Offset, Power Lh, Power Mh, Power Ph, Timestep, MPR (dB). Includes sub-tables for Channel Frequency (MHz) and Channel (20935, 21360, 21378).

Table for Band 12 Ant 0, containing columns for BW (MHz), Modulation, RE size, RB offset, Power Low Ch, Power High Ch, Timeup (min), and MPR (dB). Includes sub-tables for Channel and Frequency (MHz).

Table for Band 12 Ant 4, containing columns for BW (MHz), Modulation, RE size, RB offset, Power Low Ch, Power High Ch, Timeup (min), and MPR (dB). Includes sub-tables for Channel and Frequency (MHz).

Table for Band 13 Ant 0, containing columns for BW (MHz), Modulation, RE size, RB offset, Power Low Ch, Power High Ch, Timeup (min), and MPR (dB). Includes sub-tables for Channel and Frequency (MHz).

Table for Band 13 Ant 4, containing columns for BW (MHz), Modulation, RE size, RB offset, Power Low Ch, Power High Ch, Timeup (min), and MPR (dB). Includes sub-tables for Channel and Frequency (MHz).



Band 38_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)		37650	38000	38160				
		2590	2595	2610				
20	QPSK	1	0	23.43	23.46	23.39	24	0
20	QPSK	1	49	23.31	23.44	23.36	24	0
20	QPSK	1	99	23.37	23.42	23.31	24	0
20	QPSK	50	0	22.37	22.45	22.47	23	1
20	QPSK	50	24	22.36	22.34	22.37	23	1
20	QPSK	50	50	22.34	22.34	22.39	23	1
20	QPSK	100	0	22.33	22.40	22.38	23	1
20	16QAM	1	0	22.27	22.31	22.38	23	1
20	16QAM	1	49	22.36	22.44	22.43	23	1
20	16QAM	1	99	22.43	22.45	22.47	23	1
20	16QAM	50	0	21.57	21.30	21.36	22	2
20	16QAM	50	24	21.37	21.40	21.43	22	2
20	16QAM	50	50	21.34	21.44	21.41	22	2
20	16QAM	100	0	21.35	21.34	21.37	22	2
20	64QAM	1	0	20.99	20.99	21.07	21	3
20	64QAM	1	49	21.12	21.11	21.22	21	3
20	64QAM	1	99	21.17	21.18	21.22	21	3
20	64QAM	50	0	20.34	20.34	20.39	21	3
20	64QAM	50	24	20.33	20.36	20.35	21	3
20	64QAM	50	50	20.33	20.39	20.39	21	3
20	64QAM	100	0	20.34	20.35	20.44	21	3
20	256QAM	1	0	17.62	17.77	17.69	19	5
20	256QAM	1	49	17.54	17.63	17.67	19	5
20	256QAM	1	99	17.61	17.73	17.60	19	5
20	256QAM	50	0	17.49	17.68	17.56	19	5
20	256QAM	50	24	17.51	17.71	17.68	19	5
20	256QAM	50	50	17.53	17.66	17.66	19	5
20	256QAM	100	0	17.50	17.74	17.65	19	5
Channel								
Frequency (MHz)		37725	38000	38175				
		2595	2595	2612.5				
15	QPSK	1	0	23.40	23.32	23.28	24	0
15	QPSK	1	37	23.18	23.38	23.21	24	0
15	QPSK	1	74	23.28	23.31	23.27	24	0
15	QPSK	38	0	22.28	22.42	22.29	23	1
15	QPSK	38	24	22.21	22.42	22.32	23	1
15	QPSK	38	39	22.29	22.28	22.32	23	1
15	QPSK	75	0	22.28	22.28	22.31	23	1
15	16QAM	1	0	22.16	22.29	22.35	23	1
15	16QAM	1	37	22.35	22.29	22.37	23	1
15	16QAM	1	74	22.25	22.37	22.32	23	1
15	16QAM	38	0	21.23	21.26	21.28	22	2
15	16QAM	38	20	21.25	21.36	21.30	22	2
15	16QAM	38	39	21.27	21.39	21.29	22	2
15	16QAM	75	0	21.32	21.32	21.29	22	2
15	64QAM	1	0	20.93	20.88	21.05	21	3
15	64QAM	1	37	21.05	21.09	21.13	21	3
15	64QAM	1	74	21.05	21.09	21.13	21	3
15	64QAM	38	0	20.33	20.25	20.32	21	3
15	64QAM	38	20	20.21	20.28	20.31	21	3
15	64QAM	38	39	20.21	20.32	20.35	21	3
15	64QAM	75	0	20.20	20.27	20.35	21	3
15	256QAM	1	0	17.61	17.76	17.62	19	5
15	256QAM	1	37	17.40	17.63	17.45	19	5
15	256QAM	1	74	17.51	17.61	17.65	19	5
15	256QAM	38	0	17.47	17.64	17.47	19	5
15	256QAM	38	20	17.46	17.62	17.58	19	5
15	256QAM	38	39	17.48	17.63	17.60	19	5
15	256QAM	75	0	17.46	17.73	17.61	19	5
Channel								
Frequency (MHz)		37800	38000	38200				
		2575	2595	2615				
10	QPSK	1	0	23.32	23.41	23.35	24	0
10	QPSK	1	25	23.24	23.41	23.21	24	0
10	QPSK	1	49	23.25	23.30	23.20	24	0
10	QPSK	25	0	22.33	22.42	22.27	23	1
10	QPSK	25	12	22.31	22.23	22.30	23	1
10	QPSK	25	25	22.20	22.28	22.24	23	1
10	QPSK	50	0	22.26	22.32	22.21	23	1
10	16QAM	1	0	22.17	22.20	22.31	23	1
10	16QAM	1	25	22.24	22.31	22.40	23	1
10	16QAM	1	49	22.32	22.33	22.43	23	1
10	16QAM	25	0	21.23	21.23	21.24	22	2
10	16QAM	25	12	21.22	21.23	21.28	22	2
10	16QAM	25	25	21.21	21.21	21.30	22	2
10	16QAM	50	0	21.17	21.17	21.33	21	3
10	64QAM	1	0	20.98	20.98	21.15	21	3
10	64QAM	1	25	20.98	20.91	20.92	21	3
10	64QAM	1	49	21.04	21.05	21.07	21	3
10	64QAM	25	0	20.13	20.11	20.23	20	3
10	64QAM	25	12	20.28	20.29	20.23	20	3
10	64QAM	25	25	20.29	20.21	20.21	20	3
10	256QAM	1	0	17.71	17.81	17.67	19	5
10	256QAM	1	25	17.63	17.63	17.61	19	5
10	256QAM	1	49	17.62	17.69	17.62	19	5
10	256QAM	25	0	17.69	17.72	17.62	19	5
10	256QAM	25	12	17.64	17.63	17.66	19	5
10	256QAM	25	25	17.65	17.68	17.69	19	5
10	256QAM	50	0	17.67	17.67	17.60	19	5
Channel								
Frequency (MHz)		39675	40148	40620	41093	41565		
		2498.5	2548.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.34	23.28	23.34	23.25	23.43
5	QPSK	1	12	23.26	23.23	23.28	23.29	23.33
5	QPSK	1	24	23.18	23.26	23.22	23.27	23.19
5	QPSK	12	0	22.21	22.35	22.42	22.41	22.34
5	QPSK	12	7	22.21	22.34	22.28	22.35	22.31
5	QPSK	12	13	22.27	22.19	22.24	22.27	22.28
5	QPSK	25	0	22.24	22.16	22.33	22.32	22.25
5	16QAM	1	0	22.21	22.14	22.32	22.34	22.30
5	16QAM	1	12	22.18	22.25	22.37	22.37	22.25
5	16QAM	1	24	22.19	22.17	22.37	22.37	22.23
5	16QAM	12	0	21.25	21.14	21.33	21.37	21.27
5	16QAM	12	7	21.20	21.12	21.18	21.32	21.22
5	16QAM	12	13	21.27	21.29	21.21	21.32	21.26
5	16QAM	25	0	21.21	21.16	21.21	21.29	21.22
5	64QAM	1	0	20.88	20.78	20.91	20.86	20.89
5	64QAM	1	12	21.04	20.84	20.99	21.18	20.91
5	64QAM	1	24	20.94	20.92	21.00	21.16	21.00
5	64QAM	12	0	20.12	20.09	20.19	20.25	20.34
5	64QAM	12	7	20.21	20.27	20.34	20.25	20.24
5	64QAM	12	13	20.16	20.25	20.29	20.35	20.27
5	64QAM	25	0	20.26	20.24	20.22	20.18	20.18
5	256QAM	1	0	17.67	17.76	17.69	17.60	17.66
5	256QAM	1	12	17.58	17.66	17.63	17.69	17.57
5	256QAM	1	24	17.57	17.72	17.67	17.75	17.50
5	256QAM	12	0	17.74	17.77	17.66	17.71	17.56
5	256QAM	12	7	17.57	17.73	17.68	17.63	17.60
5	256QAM	12	13	17.59	17.76	17.57	17.64	17.62
5	256QAM	25	0	17.72	17.71	17.63	17.74	17.67

Band 41_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)		39750	40165	40620	41093	41490		
		2590	2545	2593	2633	2680		
20	QPSK	1	0	23.37	23.40	23.47	24	0
20	QPSK	1	49	23.33	23.30	23.39	24	0
20	QPSK	1	99	23.32	23.36	23.36	24	0
20	QPSK	50	0	22.34	22.38	22.47	23	1
20	QPSK	50	24	22.32	22.24	22.34	23	1
20	QPSK	50	50	22.31	22.30	22.37	23	1
20	QPSK	100	0	22.28	22.28	22.38	23	1
20	16QAM	1	0	22.28	22.20	22.35	23	1
20	16QAM	1	49	22.28	22.34	22.44	23	1
20	16QAM	1	99	22.34	22.32	22.50	23	1
20	16QAM	50	0	21.28	21.27	21.34	22	2
20	16QAM	50	24	21.33	21.25	21.33	21.47	21.35
20	16QAM	50	50	21.30	21.30	21.34	21.42	21.34
20	16QAM	100	0	21.29	21.27	21.35	21.	



Appendix E

Band 48_Ant 5											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				85340	85820	59100	58540				
Frequency (MHz)				3280	3608	3611	3680				
20	QPSK	1	0	22.07	22.75	22.65	22.72				
20	QPSK	1	49	22.58	22.73	22.61	22.71	24	0		
20	QPSK	1	99	22.61	22.71	22.64	22.61				
20	QPSK	50	0	21.86	21.67	21.59	21.63				
20	QPSK	50	24	21.50	21.63	21.49	21.58	23	1		
20	QPSK	50	80	21.48	21.60	21.49	21.51				
20	QPSK	100	0	21.59	21.63	21.51	21.60				
20	16QAM	1	0	21.49	21.56	21.52	21.42				
20	16QAM	1	49	21.56	21.68	21.59	21.55	23	1		
20	16QAM	1	99	21.56	21.64	21.51	21.57				
20	16QAM	50	0	20.46	20.59	20.53	20.45				
20	16QAM	50	24	20.52	20.62	20.50	20.47	22	2		
20	16QAM	50	50	20.60	20.65	20.58	20.64				
20	16QAM	100	0	20.61	20.65	20.64	20.51				
20	64QAM	1	0	20.18	20.26	20.25	20.25				
20	64QAM	1	49	20.31	20.38	20.29	20.25	22	2		
20	64QAM	1	99	20.18	20.33	20.21	20.19				
20	64QAM	50	0	19.80	19.65	19.51	19.59				
20	64QAM	50	24	19.80	19.67	19.58	19.56	21	3		
20	64QAM	50	50	19.64	19.71	19.65	19.62				
20	64QAM	100	0	19.55	19.64	19.62	19.57				
20	256QAM	1	0	17.47	17.49	17.34	17.44	19	5		
20	256QAM	1	49	17.53	17.41	17.32	17.28				
20	256QAM	1	99	17.27	17.37	17.28	17.35				
20	256QAM	50	0	17.37	17.40	17.37	17.38	19	5		
20	256QAM	50	24	17.33	17.38	17.33	17.25				
20	256QAM	50	50	17.38	17.45	17.34	17.31				
20	256QAM	100	0	17.35	17.38	17.31	17.27				
Channel				85310	85820	58100	56805				
Frequency (MHz)				3557.5	3608	3612	3692.5				
15	QPSK	1	0	22.58	22.77	22.53	22.69				
15	QPSK	1	37	22.48	22.66	22.47	22.63	24	0		
15	QPSK	1	74	22.51	22.64	22.61	22.53				
15	QPSK	38	0	21.62	21.64	21.46	21.58				
15	QPSK	38	20	21.48	21.54	21.38	21.45	23	1		
15	QPSK	38	39	21.38	21.49	21.48	21.43				
15	QPSK	75	0	21.58	21.53	21.41	21.54				
15	16QAM	1	0	21.46	21.44	21.49	21.34				
15	16QAM	1	37	21.53	21.67	21.54	21.44	23	1		
15	16QAM	1	74	21.42	21.62	21.37	21.51				
15	16QAM	38	0	20.35	20.49	20.40	20.39				
15	16QAM	38	20	20.45	20.53	20.48	20.42	22	2		
15	16QAM	38	39	20.59	20.64	20.46	20.49				
15	16QAM	75	0	20.60	20.53	20.61	20.42				
15	64QAM	1	0	20.10	20.19	20.13	20.23				
15	64QAM	1	37	20.17	20.23	20.20	20.20	22	2		
15	64QAM	1	74	20.07	20.28	20.13	20.10				
15	64QAM	38	0	19.49	19.54	19.48	19.56				
15	64QAM	38	20	19.65	19.65	19.48	19.45	21	3		
15	64QAM	38	39	19.56	19.57	19.64	19.58				
15	16QAM	75	0	19.42	19.59	19.52	19.49				
15	256QAM	1	0	17.36	17.39	17.32	17.29				
15	256QAM	1	37	17.24	17.34	17.22	17.16	19	5		
15	256QAM	1	74	17.19	17.31	17.20	17.25				
15	256QAM	38	0	17.23	17.38	17.32	17.29				
15	256QAM	38	20	17.25	17.34	17.21	17.19	19	5		
15	256QAM	38	39	17.27	17.31	17.26	17.23				
15	256QAM	75	0	17.24	17.33	17.17	17.13				
Channel				55290	55915	56105	56900				
Frequency (MHz)				3555	3607.5	3612.5	3695				
10	QPSK	1	0	22.63	22.71	22.50	22.67				
10	QPSK	1	25	22.43	22.65	22.46	22.63	24	0		
10	QPSK	1	49	22.53	22.67	22.60	22.52				
10	QPSK	25	0	21.80	21.52	21.46	21.61				
10	QPSK	25	12	21.47	21.52	21.45	21.46	23	1		
10	QPSK	25	25	21.33	21.53	21.44	21.40				
10	QPSK	50	0	21.67	21.51	21.49	21.51				
10	16QAM	1	0	21.42	21.46	21.39	21.37				
10	16QAM	1	25	21.54	21.53	21.51	21.53	23	1		
10	16QAM	1	49	21.47	21.58	21.42	21.45				
10	16QAM	25	0	20.31	20.44	20.48	20.39				
10	16QAM	25	12	20.47	20.60	20.49	20.41	22	2		
10	16QAM	25	25	20.47	20.55	20.44	20.55				
10	16QAM	50	0	20.60	20.60	20.59	20.39				
10	64QAM	1	0	20.16	20.19	20.22	20.21				
10	64QAM	1	25	20.18	20.32	20.18	20.11	22	2		
10	64QAM	1	49	20.12	20.22	20.07	20.04				
10	64QAM	25	0	19.50	19.58	19.39	19.54				
10	64QAM	25	12	19.48	19.54	19.56	19.53	21	3		
10	16QAM	25	25	19.38	19.60	19.52	19.49				
10	64QAM	50	0	19.43	19.51	19.51	19.53				
10	256QAM	1	0	17.45	17.39	17.29	17.33	19	5		
10	256QAM	1	25	17.28	17.36	17.30	17.20				
10	256QAM	1	49	17.22	17.36	17.25	17.26				
10	256QAM	25	0	17.35	17.39	17.27	17.34				
10	256QAM	25	12	17.20	17.36	17.19	17.23	19	5		
10	256QAM	25	25	17.32	17.36	17.28	17.23				
10	256QAM	50	0	17.24	17.32	17.30	17.17				
Channel				55265	55810	56170	56715				
Frequency (MHz)				3552.5	3607	3613	3697.5				
5	QPSK	1	0	22.81	22.70	22.56	22.80				
5	QPSK	1	12	22.53	22.60	22.48	22.65	24	0		
5	QPSK	1	24	22.58	22.61	22.58	22.49				
5	QPSK	12	0	21.51	21.54	21.53	21.58				
5	QPSK	12	7	21.42	21.50	21.41	21.48	23	1		
5	QPSK	12	13	21.40	21.55	21.37	21.39				
5	QPSK	25	0	21.67	21.54	21.43	21.48				
5	16QAM	1	0	21.37	21.47	21.47	21.36				
5	16QAM	1	12	21.48	21.60	21.47	21.47	23	1		
5	16QAM	1	24	21.52	21.50	21.43	21.45				
5	16QAM	12	0	20.33	20.58	20.42	20.37				
5	16QAM	12	7	20.43	20.60	20.47	20.44	22	2		
5	16QAM	12	13	20.55	20.54	20.43	20.61				
5	16QAM	25	0	20.58	20.62	20.57	20.36				
5	64QAM	1	0	20.14	20.12	20.10	20.13				
5	64QAM	1	12	20.29	20.26	20.21	20.11	22	2		
5	64QAM	1	24	20.07	20.21	20.20	20.15				
5	64QAM	12	0	19.48	19.57	19.43	19.49				
5	16QAM	12	7	19.49	19.66	19.44	19.48	21	3		
5	64QAM	12	13	19.58	19.65	19.55	19.61				
5	64QAM	25	0	19.51	19.49	19.50	19.45				
5	256QAM	1	0	17.32	17.48	17.29	17.29				
5	256QAM	1	12	17.31	17.32	17.18	17.22	19	5		
5	256QAM	1	24	17.20	17.25	17.25	17.23				
5	256QAM	12	0	1							

Reduced Power Mode for EC12

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.54	32.47	32.45	33.50	23.54	23.47	23.45	24.50
GPRS 1 Tx slot	32.52	32.41	32.31	33.50	23.52	23.41	23.31	24.50
GPRS 2 Tx slots	31.73	31.65	31.58	32.50	25.73	25.65	25.58	26.50
GPRS 3 Tx slots	29.93	29.91	29.84	30.50	25.67	25.65	25.58	26.24
GPRS 4 Tx slots	28.71	28.74	28.73	29.50	25.71	25.74	25.73	26.50
EDGE 1 Tx slot	28.95	27.28	27.34	28.50	17.95	18.28	18.34	19.50
EDGE 2 Tx slots	25.82	26.23	26.26	27.50	19.82	20.23	20.26	21.50
EDGE 3 Tx slots	23.76	24.08	24.15	25.50	19.50	19.82	19.89	21.24
EDGE 4 Tx slots	22.73	22.89	23.12	24.50	19.73	19.89	20.12	21.50

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1650.2	1680	1693.6		1650.2	1680	1693.6	
Frequency (MHz)	1650.2	1680	1693.6		1650.2	1680	1693.6	
GSM 1 Tx slot	29.72	29.74	29.82	30.50	20.72	20.74	20.82	21.50
GPRS 1 Tx slot	29.74	29.72	29.79	30.50	20.74	20.72	20.79	21.50
GPRS 2 Tx slots	27.60	27.63	27.56	28.50	21.60	21.63	21.56	22.50
GPRS 3 Tx slots	25.71	25.83	25.74	26.50	21.45	21.57	21.48	22.24
GPRS 4 Tx slots	24.42	24.57	24.48	25.50	21.42	21.57	21.48	22.50
EDGE 1 Tx slot	26.37	26.11	26.06	26.50	17.37	17.11	17.06	17.50
EDGE 2 Tx slots	25.33	25.09	24.95	25.50	19.33	19.09	18.95	19.50
EDGE 3 Tx slots	23.21	23.08	23.01	23.50	18.95	18.82	18.75	19.24
EDGE 4 Tx slots	22.10	21.95	21.94	22.50	19.10	18.95	18.94	19.50

Band	TX Channel	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			WCDMA V_Ant 0			Tune-up Limit (dBm)	
		962	9400	9538		1312	1413	1513	4132	4182	4233		
	Rx Channel	962	9800	9938		1537	1638	1739	4357	4407	4458		
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.69	23.60	23.65	24.00	23.40	23.31	23.16	24.00	23.23	23.34	23.23	24.00
3GPP Rel 99	RMG 12.2Kbps	23.67	23.74	23.66	24.00	23.42	23.44	23.31	24.00	23.35	23.36	23.28	24.00
3GPP Rel 6	HSDPA Subtest-1	22.73	22.41	22.58	23.00	22.19	22.34	22.22	23.00	22.27	22.28	22.23	23.00
3GPP Rel 6	HSDPA Subtest-2	22.71	22.56	22.58	23.00	22.32	22.35	22.26	23.00	22.29	22.26	22.25	23.00
3GPP Rel 6	HSDPA Subtest-3	22.30	22.11	22.10	22.50	21.85	21.87	21.79	22.50	21.85	21.83	21.78	22.50
3GPP Rel 6	HSDPA Subtest-4	22.21	22.11	22.11	22.50	21.81	21.84	21.69	22.50	21.80	21.75	21.73	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.64	22.30	22.43	23.00	22.15	22.32	22.19	23.00	22.25	22.23	22.12	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.57	22.42	22.51	23.00	22.26	22.29	22.24	23.00	22.14	22.18	22.20	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	22.15	22.05	22.00	22.50	21.78	21.77	21.78	22.50	21.76	21.82	21.68	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	22.06	22.03	22.03	22.50	21.68	21.75	21.61	22.50	21.66	21.66	21.68	22.50
3GPP Rel 6	HSUPA Subtest-1	20.70	20.57	20.57	22.00	20.37	20.33	20.25	22.00	20.29	20.26	20.24	22.00
3GPP Rel 6	HSUPA Subtest-2	20.67	20.58	20.60	21.00	20.36	20.30	20.28	21.00	20.27	20.26	20.24	21.00
3GPP Rel 6	HSUPA Subtest-3	21.70	21.56	21.61	22.00	21.38	21.36	21.25	22.00	21.27	21.26	21.22	22.00
3GPP Rel 6	HSUPA Subtest-4	20.27	20.17	20.11	21.00	19.93	19.80	19.75	21.00	19.79	19.77	19.73	21.00
3GPP Rel 6	HSUPA Subtest-5	21.70	21.50	21.60	23.00	21.40	21.30	21.20	23.00	21.30	21.20	21.20	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.18	20.10	20.15	20.50	19.83	19.84	19.75	20.50	19.74	19.73	19.73	20.50



Table with columns: Channel, Modulation, RB, RB Offset, Power, Power Ch./Freq, Power Hch./Freq, Turn-on (min), MPR (dB). Sub-headers: Band 2_Ant 0, Band 2_Ant 4, Band 4_Ant 0, Band 4_Ant 4. Includes data for 20, 30, 40, 50, 60, 70, 80, 90, 100 MHz and 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 sub-carriers.

Table with columns: Channel, Modulation, RB, RB Offset, Power, Power Ch./Freq, Power Hch./Freq, Turn-on (min), MPR (dB). Sub-headers: Band 2_Ant 0, Band 2_Ant 4, Band 4_Ant 0, Band 4_Ant 4. Includes data for 20, 30, 40, 50, 60, 70, 80, 90, 100 MHz and 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 sub-carriers.

Table with columns: Channel, Modulation, RB, RB Offset, Power, Power Ch./Freq, Power Hch./Freq, Turn-on (min), MPR (dB). Sub-headers: Band 4_Ant 0, Band 4_Ant 4. Includes data for 20, 30, 40, 50, 60, 70, 80, 90, 100 MHz and 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 sub-carriers.

Table with columns: Channel, Modulation, RB, RB Offset, Power, Power Ch./Freq, Power Hch./Freq, Turn-on (min), MPR (dB). Sub-headers: Band 4_Ant 0, Band 4_Ant 4. Includes data for 20, 30, 40, 50, 60, 70, 80, 90, 100 MHz and 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 sub-carriers.



Band 5_Ant 0												
BW (MHz)	Modulation	RE	RB Offset	Power Ld Ch / Freq	Power Made Ch / Freq	Power High Ch / Freq	Timecup	MRR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.55	22.55	22.55						
10	QPSK	1	25	22.67	22.61	22.61	24	0				
10	QPSK	1	49	22.79	22.71	22.71						
10	QPSK	25	0	22.71	22.65	22.65						
10	QPSK	25	12	22.62	22.52	22.52	23	1				
10	QPSK	25	25	22.53	22.47	22.47						
10	QPSK	50	0	22.47	22.43	22.43						
10	HQAM	1	0	22.33	22.27	22.28	23	1				
10	HQAM	1	25	22.23	22.21	22.16						
10	HQAM	1	49	22.29	22.26	22.17						
10	HQAM	25	0	21.62	21.65	21.60						
10	HQAM	25	12	21.61	21.61	21.59	22	2				
10	HQAM	25	25	21.50	21.51	21.50						
10	HQAM	50	0	21.32	21.33	21.30						
10	HQAM	50	1	21.19	21.13	21.15	22	2				
10	HQAM	1	49	21.10	21.17	21.12						
10	HQAM	25	0	20.95	20.95	19.99						
10	HQAM	25	12	20.91	20.91	19.99	21	3				
10	HQAM	25	25	20.82	20.83	19.99						
10	SSBAM	1	0	18.50	18.50	18.42						
10	SSBAM	1	25	18.42	18.43	18.36	19	5				
10	SSBAM	1	49	18.47	18.47	18.38						
10	SSBAM	25	0	18.41	18.47	18.29						
10	SSBAM	25	12	18.38	18.44	18.37	19	5				
10	SSBAM	25	25	18.54	18.49	18.38						
10	SSBAM	50	0	18.41	18.54	18.40						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.88	23.01	23.08						
5	QPSK	1	12	22.91	22.95	22.88	24	0				
5	QPSK	1	25	22.98	22.98	22.88						
5	QPSK	12	0	21.98	21.93	21.92						
5	QPSK	12	7	21.97	21.87	21.96	23	1				
5	QPSK	12	14	21.92	21.86	21.90						
5	QPSK	25	0	21.88	21.95	21.86						
5	HQAM	1	0	22.17	22.21	22.10	23	1				
5	HQAM	1	24	22.27	22.29	22.02						
5	HQAM	12	0	21.61	21.61	20.86						
5	HQAM	12	7	21.65	21.65	20.86	22	2				
5	HQAM	12	13	21.60	21.62	20.97						
5	HQAM	25	0	20.97	20.97	20.89						
5	HQAM	25	7	21.08	21.18	21.10	22	2				
5	HQAM	1	12	21.00	21.08	20.95	22	2				
5	HQAM	1	24	21.10	21.16	21.00						
5	HQAM	12	7	20.92	20.93	19.95						
5	HQAM	12	13	20.90	20.90	19.97	21	3				
5	HQAM	12	13	19.92	19.90	19.87						
5	SSBAM	1	0	18.42	18.52	18.34						
5	SSBAM	1	12	18.26	18.40	18.22	19	5				
5	SSBAM	1	24	18.34	18.34	18.27						
5	SSBAM	12	0	18.39	18.40	18.23						
5	SSBAM	12	7	18.38	18.38	18.24	19	5				
5	SSBAM	12	13	18.44	18.37	18.34						
5	SSBAM	25	0	18.33	18.42	18.28						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.60	22.61	22.62						
3	QPSK	1	8	22.56	22.55	22.58	24	0				
3	QPSK	1	16	22.53	22.54	22.58						
3	QPSK	8	0	21.63	22.02	21.91						
3	QPSK	8	4	21.68	21.69	21.69	23	1				
3	QPSK	8	11	21.67	21.68	21.68						
3	QPSK	16	0	21.68	21.95	21.95						
3	HQAM	1	0	22.08	22.22	22.28	23	1				
3	HQAM	1	14	22.24	22.14	22.15						
3	HQAM	8	0	20.96	21.00	20.87						
3	HQAM	8	4	20.99	21.01	20.98	22	2				
3	HQAM	8	7	21.00	20.94	20.85						
3	HQAM	15	0	20.94	21.00	20.86						
3	HQAM	1	0	21.11	21.18	21.12						
3	HQAM	1	8	21.02	21.04	21.07	22	2				
3	HQAM	1	16	21.13	21.12	21.05						
3	HQAM	8	0	19.90	19.90	19.87	21	3				
3	SSBAM	1	0	18.42	18.52	18.28						
3	SSBAM	1	8	18.26	18.40	18.27	19	5				
3	SSBAM	1	16	18.32	18.38	18.32						
3	SSBAM	8	0	18.32	18.43	18.28						
3	SSBAM	8	4	18.42	18.42	18.33	19	5				
3	SSBAM	8	7	18.50	18.47	18.33						
3	SSBAM	15	0	18.40	18.44	18.27						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.78	22.83	22.93						
1.4	QPSK	1	3	22.70	22.80	22.72	24	0				
1.4	QPSK	1	5	22.71	22.75	22.86						
1.4	QPSK	3	0	22.85	22.87	22.85						
1.4	QPSK	3	1	22.83	22.87	22.75	23	1				
1.4	QPSK	3	2	22.82	22.80	22.77						
1.4	QPSK	6	0	21.88	21.91	21.77	23	1				
1.4	HQAM	1	0	22.13	22.10	22.07						
1.4	HQAM	1	3	22.02	21.99	22.01						
1.4	HQAM	1	5	22.13	21.97	22.02	23	1				
1.4	HQAM	3	0	21.92	21.89	21.84						
1.4	HQAM	3	1	21.83	21.77	21.84						
1.4	HQAM	3	2	21.84	21.84	21.72	22	2				
1.4	HQAM	6	0	20.92	20.90	20.82						
1.4	HQAM	6	0	20.98	21.11	20.99						
1.4	HQAM	1	3	20.94	21.03	20.94	22	2				
1.4	HQAM	1	5	20.90	20.95	20.89						
1.4	HQAM	3	0	20.91	20.91	20.83						
1.4	HQAM	3	1	20.77	20.76	20.71	21	3				
1.4	HQAM	3	0	19.91	19.79	19.80						
1.4	SSBAM	1	0	18.43	18.44	18.18						
1.4	SSBAM	1	3	18.26	18.32	18.19	19	5				
1.4	SSBAM	1	5	18.17	18.32	18.14						
1.4	SSBAM	3	0	18.13	18.29	18.06						
1.4	SSBAM	3	1	18.20	18.27	18.24	19	5				
1.4	SSBAM	3	2	18.34	18.26	18.16						
1.4	SSBAM	6	0	18.13	18.27	18.28	19	5				

Band 5_Ant 4												
BW (MHz)	Modulation	RE	RB Offset	Power Ld Ch / Freq	Power Made Ch / Freq	Power High Ch / Freq	Timecup	MRR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.01	21.08	21.02						
10	QPSK	1	25	20.85	20.99	20.83	22	2				
10	QPSK	1	49	20.92	20.98	20.83						
10	QPSK	25	0	20.85	21.00	20.90						
10	QPSK	25	12	20.91	20.90	20.96	22	2				
10	QPSK	25	25	20.82	20.95	20.97						
10	QPSK	50	0	20.89	20.84	20.92						
10	HQAM	1	0	20.81	20.92	20.93	22	2				
10	HQAM	1	25	20.88	20.84	21.04						
10	HQAM	1	49	20.89	20.83	21.00						
10	HQAM	25	0	20.83	21.04	21.00						
10	HQAM	25	12	20.89	21.03	20.83	22	0.2				
10	HQAM	25	25	20.91	21.04	20.94						
10	HQAM	50	0	20.86	21.02	20.91						
10	HQAM	50	1	20.92	20.95	20.97						
10	HQAM	1	49	20.87	20.93	21.01	22	0.2				
10	HQAM	1	25	20.96	21.07	21.01						
10	HQAM	25	0	20.98	20.94	20.92						
10	HQAM	25	12	20.90	20.91	19.99	21	1.2				
10	HQAM	25	25	20.87	20.93	19.99						
10	SSBAM	1	0	18.50	18.52	18.43						
10	SSBAM	1	25	18.46	18.51	18.39	19	5.2				
10	SSBAM	1	49	18.42	18.41	18.31						
10	SSBAM	25	0	18.50	18.41	18.31						
10	SSBAM	25	12	18.38	18.44	18.31	19	3.2				
10	SSBAM	25	25	18.46	18.40	18.42						
10	SSBAM	50	0	18.42	18.43	18.30						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.86	21.03	20.98						
5	QPSK	1	12	20.78	20.86	20.79	22	2				
5	QPSK	1	24	20.81	20.91	20.98						
5	QPSK	12	0	20.83	20.88	20.95						
5	QPSK	12	7	20.82	20.88	20.82	22	2				
5	QPSK	12	14	20.81	20.88	20.88						
5	HQAM	1	0	20.72	20.80	20.80	22	2				
5	HQAM	1	12	20.82	20.88	20.92						
5	HQAM	1	24	20.88	20.91	20.90						
5	HQAM	12	0	20.84	20.83	21.01						
5	HQAM	12	7	20.97	21.00	20.99	22	0.2				
5	HQAM	12	13	20.90	20.97	20.94						
5	HQAM	25	0	20.97	21.00	20.99						
5	HQAM	25	7	21.08	21.04	20.99	22	0.2				
5	HQAM	1	12	21.00	20.98	20.92	22	0.2				
5	HQAM	1	24	21.02	20.95	20.94						
5	HQAM	12	7	20.92	19.90	19.95	21	1.2				
5	HQAM	12	13	19.97	19.95	19.88						
5	SSBAM	1	0	18.42	18.52	18.35						
5	SSBAM	1	12	18.45	18.47	18.27	19	5.2				
5	SSBAM	1	24	18.38	18.38	18.30						
5	SSBAM	12	0	18.44								



Table with columns: BW (MHz), Modulation, RB (MHz), RB Offset, Power Low Ch. (Freq.), Power Mid Ch. (Freq.), Power High Ch. (Freq.), Tuneup (min), MPR (dB). Contains data for Band 12 Ant 0.

Table with columns: BW (MHz), Modulation, RB (MHz), RB Offset, Power Low Ch. (Freq.), Power Mid Ch. (Freq.), Power High Ch. (Freq.), Tuneup (min), MPR (dB). Contains data for Band 12 Ant 4.

Table with columns: BW (MHz), Modulation, RB (MHz), RB Offset, Power Low Ch. (Freq.), Power Mid Ch. (Freq.), Power High Ch. (Freq.), Tuneup (min), MPR (dB). Contains data for Band 13 Ant 0.

Table with columns: BW (MHz), Modulation, RB (MHz), RB Offset, Power Low Ch. (Freq.), Power Mid Ch. (Freq.), Power High Ch. (Freq.), Tuneup (min), MPR (dB). Contains data for Band 13 Ant 4.



Band 14_Ant 0										
BW (MHz)	Modulation	RE Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MFR (dB)		
Channel 7350										
Frequency (MHz)										
10	QPSK	1	0	22.89						
10	QPSK	1	25	22.95			24	0		
10	QPSK	1	49	22.97						
10	QPSK	25	0	21.86						
10	QPSK	25	12	21.91			23	1		
10	QPSK	25	25	21.94						
10	QPSK	50	0	21.83						
10	HSFDM	1	0	22.24						
10	HSFDM	1	25	22.17			23	1		
10	HSFDM	1	49	22.13						
10	HSFDM	25	0	20.86						
10	HSFDM	25	12	20.89						
10	HSFDM	25	25	20.92			22	2		
10	HSFDM	50	0	20.94						
10	HSFDM	50	1	21.14						
10	HSFDM	1	25	21.10			22	2		
10	HSFDM	1	49	21.09						
10	HSFDM	25	0	19.94						
10	HSFDM	25	12	19.92						
10	HSFDM	25	25	19.95			21	3		
10	SSBQAM	1	0	18.41						
10	SSBQAM	1	25	18.38			19	5		
10	SSBQAM	1	49	18.36						
10	SSBQAM	25	0	18.33						
10	SSBQAM	25	12	18.38			19	5		
10	SSBQAM	25	25	18.27						
10	SSBQAM	50	0	18.38						
Channel 7350										
5	QPSK	1	0	22.98	22.90	22.93				
5	QPSK	1	12	22.88	22.94	22.91	24	0		
5	QPSK	1	24	22.82	22.96	22.88				
5	QPSK	12	0	21.81	21.84	21.88				
5	QPSK	12	7	21.83	21.83	21.76	23	1		
5	QPSK	12	13	21.81	21.82	21.80				
5	QPSK	25	0	21.88	21.85	21.83				
5	HSFDM	1	0	22.13	22.21	22.10				
5	HSFDM	1	12	22.03	22.03	22.11	23	1		
5	HSFDM	1	24	22.01	22.00	22.04				
5	HSFDM	12	0	20.85	20.81	20.88				
5	HSFDM	12	7	20.84	20.89	20.78				
5	HSFDM	12	13	20.84	20.80	20.78	22	2		
5	HSFDM	25	0	20.93	20.85	20.81				
5	HSFDM	1	12	21.09	21.12	21.11				
5	HSFDM	1	24	21.07	20.95	21.02	22	2		
5	HSFDM	12	0	20.83	20.82	20.84				
5	HSFDM	12	7	19.77	19.89	19.81	21	3		
5	HSFDM	12	13	19.85	19.81	19.79				
5	SSBQAM	1	0	18.29	18.34	18.26				
5	SSBQAM	1	12	18.34	18.25	18.27	19	5		
5	SSBQAM	1	24	18.34	18.27	18.26				
5	SSBQAM	12	0	18.21	18.18	18.23				
5	SSBQAM	12	7	18.36	18.33	18.23	19	5		
5	SSBQAM	12	13	18.12	18.16	18.17				
5	SSBQAM	25	0	18.25	18.29	18.23				

Band 14_Ant 4										
BW (MHz)	Modulation	RE Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MFR (dB)		
Channel 7350										
Frequency (MHz)										
10	QPSK	1	0	20.59						
10	QPSK	1	25	20.40			21.7	0		
10	QPSK	1	49	20.34						
10	QPSK	25	0	20.53						
10	QPSK	25	12	20.44			21.7	0		
10	QPSK	25	25	20.43						
10	QPSK	50	0	20.46						
10	HSFDM	1	0	20.46						
10	HSFDM	1	25	20.41			21.7	0		
10	HSFDM	1	49	20.51						
10	HSFDM	25	0	20.44						
10	HSFDM	25	12	20.46			21.7	0		
10	HSFDM	25	25	20.41						
10	HSFDM	50	0	20.44						
10	HSFDM	50	1	20.51						
10	HSFDM	1	25	20.54			21.7	0		
10	HSFDM	1	49	20.45						
10	HSFDM	25	0	19.95						
10	HSFDM	25	12	19.94			21	0.7		
10	HSFDM	25	25	19.92						
10	HSFDM	50	0	19.93						
10	SSBQAM	1	0	18.45						
10	SSBQAM	1	25	18.32			19	2.7		
10	SSBQAM	1	49	18.30						
10	SSBQAM	25	0	18.43						
10	SSBQAM	25	12	18.42			19	2.7		
10	SSBQAM	25	25	18.41						
10	SSBQAM	50	0	18.39						
Channel 7350										
5	QPSK	1	0	20.48	20.44	20.51				
5	QPSK	1	12	20.31	20.38	20.35	21.7	0		
5	QPSK	1	24	20.45	20.45	20.52				
5	QPSK	12	0	20.40	20.42	20.39				
5	QPSK	12	7	20.43	20.35	20.34	21.7	0		
5	QPSK	12	13	20.40	20.35	20.37				
5	QPSK	25	0	20.38	20.33	20.32				
5	HSFDM	1	0	20.33	20.32	20.40				
5	HSFDM	1	12	20.31	20.39	20.34	21.7	0		
5	HSFDM	1	24	20.39	20.50	20.43				
5	HSFDM	12	0	20.43	20.37	20.35				
5	HSFDM	12	7	20.39	20.28	20.38				
5	HSFDM	12	13	20.29	20.35	20.35	21.7	0		
5	HSFDM	25	0	20.31	20.31	20.29				
5	HSFDM	1	12	20.36	20.44	20.37				
5	HSFDM	1	24	20.39	20.32	20.51	21.7	0		
5	HSFDM	12	0	20.32	20.39	20.39				
5	HSFDM	12	7	19.82	19.91	19.87	21	0.7		
5	HSFDM	12	13	19.87	19.89	19.82				
5	HSFDM	25	0	19.86	19.85	19.80				
5	SSBQAM	1	0	18.40	18.40	18.44				
5	SSBQAM	1	12	18.36	18.24	18.27	19	2.7		
5	SSBQAM	1	24	18.35	18.33	18.32				
5	SSBQAM	12	0	18.23	18.24	18.29				
5	SSBQAM	12	7	18.38	18.39	18.39	19	2.7		
5	SSBQAM	12	13	18.40	18.26	18.32				
5	SSBQAM	25	0	18.38	18.29	18.31				

Band 17_Ant 0										
BW (MHz)	Modulation	RE Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MFR (dB)		
Channel 23790										
Frequency (MHz)										
10	QPSK	1	0	23.03	23.09	23.03				
10	QPSK	1	25	23.00	22.99	22.97	24	0		
10	QPSK	1	49	23.03	22.99	22.95				
10	QPSK	25	0	21.81	21.88	21.86				
10	QPSK	25	12	21.88	21.86	21.83	23	1		
10	QPSK	25	25	21.88	21.78	21.85				
10	QPSK	50	0	21.84	21.88	21.87				
10	HSFDM	1	0	22.16	22.10	22.13				
10	HSFDM	1	25	22.13	22.15	22.15	23	1		
10	HSFDM	1	49	22.18	22.11	22.16				
10	HSFDM	25	0	20.93	20.93	20.98				
10	HSFDM	25	12	20.92	20.93	20.94				
10	HSFDM	25	25	20.95	20.94	20.94	22	2		
10	HSFDM	50	0	20.95	20.97	20.97				
10	HSFDM	50	1	21.11	20.99	21.08				
10	HSFDM	1	25	21.12	21.09	21.11	22	2		
10	HSFDM	1	49	21.12	21.11	21.13				
10	HSFDM	25	0	19.91	19.94	19.97				
10	HSFDM	25	12	19.95	19.98	19.93	21	3		
10	HSFDM	25	25	19.95	19.98	19.98				
10	SSBQAM	1	0	17.98	18.03	17.94				
10	SSBQAM	1	25	17.96	17.86	17.90	19	5		
10	SSBQAM	1	49	17.93	17.89	17.89				
10	SSBQAM	25	0	17.97	17.94	17.79				
10	SSBQAM	25	12	17.98	17.83	17.83	19	5		
10	SSBQAM	25	25	17.91	18.00	17.90				
10	SSBQAM	50	0	17.88	17.89	17.88				
Channel 23790										
5	QPSK	1	0	22.90	22.84	22.98				
5	QPSK	1	12	22.98	22.86	22.86	24	0		
5	QPSK	1	24	22.98	22.84	22.93				
5	QPSK	12	0	21.78	21.86	21.84				
5	QPSK	12	7	21.82	21.85	21.84	23	1		
5	QPSK	12	13	21.73	21.81	21.84				
5	QPSK	25	0	21.80	21.84	21.79				
5	HSFDM	1	0	22.11	21.96	22.09				
5	HSFDM	1	12	22.07	22.13	22.00	23	1		
5	HSFDM	1	24	22.07	22.05	22.05				
5	HSFDM	12	0	20.76	20.82	20.91				
5	HSFDM	12	7	20.80	20.85	20.85				
5	HSFDM	12	13	20.91	20.79	20.79	22	2		
5	HSFDM	25	0	20.96	20.85	20.88				
5	HSFDM	1	12	21.01	20.98	21.02				
5	HSFDM	1	24	21.02	20.98	21.05	22	2		
5	HSFDM	12	0	20.88	20.97	21.01				
5	HSFDM	12	7	19.87	19.89	19.90				
5	HSFDM	12	13	19.82	19.82	19.86	21	3		
5	HSFDM	25	0	19.83	19.8					

Band 25_Ant 0														
Band	Modulation	RB Size	RB Offset	Power Ld Ch / Freq	Power Mld Ch / Freq	Power Hgt Ch / Freq	Turnup Int. (sec)	MFR (dB)						
									Channel	20MHz	30MHz	40MHz	MFR (dB)	
									Frequency (MHz)	1860	1880	1900	81.5	
20	QPSK	1	0	23.14	23.20	23.16								
20	QPSK	1	49	23.09	23.15	23.08	24	0						
20	QPSK	50	0	22.93	22.98	22.95								
20	QPSK	50	49	22.84	22.88	22.81								
20	QPSK	50	0	22.74	22.78	22.71								
20	QPSK	50	24	22.14	22.15	22.20								
20	QPSK	50	49	22.13	22.17	22.25								
20	QPSK	100	0	22.15	22.20	22.13								
20	16QAM	1	0	22.48	22.43	22.43								
20	16QAM	1	49	22.44	22.43	22.44								
20	16QAM	1	99	22.36	22.41	22.44								
20	16QAM	50	0	21.22	21.23	21.21								
20	16QAM	50	24	21.17	21.15	21.23								
20	16QAM	50	50	21.19	21.13	21.24								
20	16QAM	100	0	21.21	21.19	21.20								
20	16QAM	100	49	21.13	21.37	21.28								
20	16QAM	1	49	21.39	21.31	21.38								
20	16QAM	1	99	21.28	21.32	21.31								
20	16QAM	50	0	20.22	20.22	20.23								
20	16QAM	50	24	20.23	20.16	20.21								
20	16QAM	50	50	20.22	20.14	20.24								
20	16QAM	100	0	20.25	20.20	20.24								
20	16QAM	100	49	17.90	17.93	17.91								
20	256QAM	1	49	17.90	17.92	17.95								
20	256QAM	1	99	17.88	17.94	17.92								
20	256QAM	50	0	17.80	17.89	17.82								
20	256QAM	50	24	17.78	17.82	17.88								
20	256QAM	50	50	17.80	17.80	17.85								
20	256QAM	100	0	17.78	17.87	17.80								
Channel														
									20MHz	30MHz	40MHz	Turnup Int. (sec)	MFR (dB)	
									Frequency (MHz)	1860	1880	1900		
16	QPSK	1	0	23.07	23.19	23.17								
16	QPSK	1	37	23.06	23.13	23.05								
16	QPSK	1	74	23.02	23.04	23.07								
16	QPSK	36	0	22.10	22.19	22.12								
16	QPSK	36	20	22.12	22.03	22.10								
16	QPSK	36	39	22.18	22.10	22.15								
16	QPSK	75	0	22.00	22.15	22.04								
16	16QAM	1	0	22.33	22.39	22.35								
16	16QAM	1	37	22.43	22.32	22.38								
16	16QAM	1	74	22.24	22.28	22.29								
16	16QAM	36	0	21.18	21.10	21.08								
16	16QAM	36	20	21.07	21.01	21.02								
16	16QAM	36	39	21.11	21.01	21.16								
16	16QAM	75	0	21.13	21.11	21.14								
16	16QAM	75	20	21.41	21.36	21.32								
16	16QAM	75	37	21.33	21.16	21.25								
16	16QAM	1	74	21.14	21.30	21.22								
16	16QAM	36	0	20.12	20.12	20.15								
16	16QAM	36	20	20.09	20.10	20.18								
16	16QAM	36	39	20.16	20.11	20.23								
16	16QAM	50	0	20.23	20.17	20.23								
16	16QAM	50	24	17.88	17.89	17.78								
16	16QAM	50	37	17.77	17.80	17.71								
16	16QAM	50	50	17.77	17.86	17.73								
16	16QAM	75	0	17.74	17.78	17.75								
16	16QAM	75	20	17.78	17.80	17.73								
16	16QAM	75	39	17.76	17.78	17.75								
16	256QAM	1	49	17.87	17.83	17.88								
Channel														
									20MHz	30MHz	40MHz	Turnup Int. (sec)	MFR (dB)	
									Frequency (MHz)	1860	1880	1900		
10	QPSK	1	0	23.06	23.19	23.04								
10	QPSK	1	25	23.02	23.06	23.03								
10	QPSK	49	0	23.04	23.03	23.06								
10	QPSK	25	0	22.18	22.21	22.16								
10	QPSK	25	12	22.11	22.00	22.09								
10	QPSK	25	24	22.22	22.13	22.18								
10	QPSK	50	0	22.02	22.14	22.03								
10	16QAM	1	0	22.42	22.42	22.34								
10	16QAM	1	25	22.42	22.36	22.28								
10	16QAM	1	49	22.26	22.28	22.28								
10	16QAM	25	0	21.12	21.21	21.13								
10	16QAM	25	12	21.02	21.02	21.07								
10	16QAM	25	24	21.12	21.03	21.19								
10	16QAM	50	0	21.20	21.16	21.17								
10	16QAM	50	12	21.38	21.35	21.24								
10	16QAM	50	25	21.36	21.25	21.28								
10	16QAM	1	49	21.13	21.11	21.29								
10	16QAM	25	0	20.08	20.14	20.08								
10	16QAM	25	12	20.17	20.06	20.14								
10	16QAM	25	24	20.13	20.16	20.21								
10	16QAM	50	0	17.83	17.89	17.78								
10	16QAM	50	12	17.89	17.81	17.78								
10	16QAM	50	24	17.81	17.83	17.85								
10	16QAM	50	37	17.79	17.74	17.78								
10	16QAM	75	0	17.85	17.86	17.80								
10	16QAM	75	12	17.88	17.78	17.82								
10	16QAM	75	25	17.71	17.82	17.71								
10	16QAM	75	37	17.78	17.84	17.84								
Channel														
									20MHz	30MHz	40MHz	Turnup Int. (sec)	MFR (dB)	
									Frequency (MHz)	1860	1880	1900		
5	QPSK	1	0	23.08	23.19	23.04								
5	QPSK	1	12	23.07	23.10	23.04								
5	QPSK	24	0	23.04	23.03	23.06								
5	QPSK	12	0	22.16	22.24	22.16								
5	QPSK	12	7	22.21	22.12	22.13								
5	QPSK	12	14	22.18	22.14	22.14								
5	QPSK	25	0	22.04	22.08	22.01								
5	16QAM	1	0	22.41	22.37	22.39								
5	16QAM	1	12	22.31	22.39	22.36								
5	16QAM	1	24	22.27	22.38	22.40								
5	16QAM	12	0	21.16	21.11	21.12								
5	16QAM	12	7	21.08	21.10	21.09								
5	16QAM	12	13	21.06	21.01	21.14								
5	16QAM	25	0	21.10	21.09	21.19								
5	16QAM	25	7	21.38	21.25	21.21								
5	16QAM	25	12	21.35	21.20	21.26								
5	16QAM	1	24	21.14	21.24	21.26								
5	16QAM	12	0	20.21	20.15	20.18								
5	16QAM	12	7	20.11	20.09	20.20								
5	16QAM	12	13	20.12	20.11	20.10								
5	16QAM	25	0	17.87	17.92	17.79								
5	16QAM	25	7	17.89	17.84	17.87								
5	16QAM	25	12	17.77	17.85	17.75								
5	16QAM	25	13	17.78	17.84	17.78								
5	16QAM	25	13	17.74	17.84	17.72								
5	16QAM	25	0	17.87	17.84	17.80								
Channel														
									20MHz	30MHz	40MHz	Turnup Int. (sec)	MFR (dB)	
									Frequency (MHz)	1860	1880	1900		
3	QPSK	1	0	23.08	23.12	23.05								
3	QPSK	1	8	23.08	23.10	22.95								
3	QPSK	14	0	22.83	22.83	22.83								
3	QPSK	8	4	22.13	22.00	22.14								
3	QPSK	8	7	22.18	22.02	22.02								
3	QPSK	15	0	22.12	22.11	22.06								
3	16QAM	1	0	22.40	22.40	22.33								
3	16QAM	1	24	22.36	22.33	22.33								



Table with columns: Band 38_Ant 1, Freq (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Turn-up, MPR (dB)

Table with columns: Band 41_Ant 1, Freq (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Turn-up, MPR (dB)

Table with columns: Band 41 (HPUE)_Ant 1, Freq (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Turn-up, MPR (dB)

Table with columns: Band 48_Ant 5, Freq (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Turn-up, MPR (dB)

Reduced Power Mode for ECI3

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8	33.00	22.76	22.83	22.78	24.00
GSM 1 Tx slot	31.76	31.83	31.76	33.00	22.71	22.85	22.72	24.00
GPRS 1 Tx slot	31.71	31.85	31.72	33.00	22.71	22.85	22.72	24.00
GPRS 2 Tx slots	28.93	29.08	29.05	30.00	22.93	23.08	23.05	24.00
GPRS 3 Tx slots	28.99	27.13	28.99	28.00	22.73	22.87	22.73	23.74
GPRS 4 Tx slots	25.87	25.92	25.91	27.00	22.87	22.92	22.91	24.00
EDGE 1 Tx slot	28.95	27.28	27.34	28.50	17.95	18.28	18.34	19.50
EDGE 2 Tx slots	25.82	26.23	26.26	27.50	19.82	20.23	20.26	21.50
EDGE 3 Tx slots	23.76	24.08	24.15	25.50	19.50	19.82	19.89	21.24
EDGE 4 Tx slots	22.73	22.89	23.12	24.50	19.73	19.89	20.12	21.50

GSM1600_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1652.2	1660	1669.6		1652.2	1660	1669.6	
Frequency (MHz)	1652.2	1660	1669.6	29.00	19.03	19.11	19.13	20.00
GSM 1 Tx slot	28.03	28.11	28.13	29.00	19.03	19.13	19.10	20.00
GPRS 1 Tx slot	28.03	28.13	28.10	29.00	19.03	19.13	19.10	20.00
GPRS 2 Tx slots	25.14	25.17	25.12	26.00	19.14	19.17	19.12	20.00
GPRS 3 Tx slots	23.30	23.40	23.33	24.00	19.04	19.14	19.07	19.74
GPRS 4 Tx slots	21.94	22.07	22.00	23.00	18.94	19.07	19.00	20.00
EDGE 1 Tx slot	26.37	26.11	26.06	26.50	17.37	17.11	17.06	17.50
EDGE 2 Tx slots	25.33	25.09	24.95	25.50	19.33	19.09	18.95	19.50
EDGE 3 Tx slots	23.21	23.08	23.01	23.50	18.95	18.82	18.75	19.24
EDGE 4 Tx slots	22.10	21.95	21.94	22.50	19.10	18.95	18.94	19.50

Band	WCDMA II_Ant 0	Tune-up Limit (dBm)	WCDMA IV_Ant 0			WCDMA V_Ant 0			Tune-up Limit (dBm)				
			1312	1413	1513	4132	4182	4233					
TX Channel	9662	9400	9638	1537	1638	1739	4357	4407	4458				
Rx Channel	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	17.39	17.49	17.45	18.50	18.22	18.35	18.29	19.50	20.90	20.91	20.86	22.00
3GPP Rel 99	RMG 12.2Kbps	17.50	17.60	17.51	18.50	18.34	18.46	18.44	19.50	20.94	20.97	20.93	22.00
3GPP Rel 6	HSDPA Subtest-1	17.57	17.47	17.44	18.00	18.32	18.42	18.36	19.00	20.92	20.83	20.88	21.50
3GPP Rel 6	HSDPA Subtest-2	17.57	17.47	17.42	18.00	18.26	18.42	18.33	19.00	20.89	20.88	20.84	21.50
3GPP Rel 6	HSDPA Subtest-3	17.56	17.51	17.48	18.00	18.22	18.31	18.35	19.00	20.83	20.86	20.85	21.50
3GPP Rel 6	HSDPA Subtest-4	17.49	17.48	17.38	18.00	18.27	18.40	18.32	19.00	20.88	20.89	20.86	21.50
3GPP Rel 6	DC-HSDPA Subtest-1	17.43	17.34	17.29	18.00	18.31	18.41	18.34	19.00	20.89	20.74	20.83	21.50
3GPP Rel 6	DC-HSDPA Subtest-2	17.55	17.44	17.40	18.00	18.13	18.28	18.23	19.00	20.83	20.83	20.80	21.50
3GPP Rel 6	DC-HSDPA Subtest-3	17.41	17.42	17.36	18.00	18.31	18.32	18.24	19.00	20.77	20.84	20.83	21.50
3GPP Rel 6	DC-HSDPA Subtest-4	17.38	17.46	17.30	18.00	18.26	18.27	18.21	19.00	20.75	20.77	20.74	21.50
3GPP Rel 6	HSUPA Subtest-1	17.52	17.46	17.33	18.00	18.25	18.45	18.28	19.00	20.84	20.73	20.79	21.50
3GPP Rel 6	HSUPA Subtest-2	17.47	17.34	17.36	18.00	18.33	18.41	18.35	19.00	20.09	19.91	19.88	21.00
3GPP Rel 6	HSUPA Subtest-3	17.51	17.32	17.37	18.00	18.23	18.35	18.30	19.00	20.74	20.84	20.78	21.50
3GPP Rel 6	HSUPA Subtest-4	17.49	17.39	17.30	18.00	18.24	18.40	18.25	19.00	19.98	20.01	19.96	21.00
3GPP Rel 6	HSUPA Subtest-5	17.43	17.41	17.31	18.00	18.32	18.37	18.24	19.00	20.81	20.85	20.82	21.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.50	17.43	17.39	18.00	18.22	18.39	18.21	19.00	19.74	19.73	19.73	20.50

Reduced Power Mode for ECI4

GSM850_Ant 0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.54	32.47	32.45	33.50	23.54	23.47	23.45	24.50
GPRS 1 Tx slot	32.52	32.41	32.31	33.50	23.52	23.41	23.31	24.50
GPRS 2 Tx slots	31.73	31.65	31.58	32.50	25.73	25.65	25.58	26.50
GPRS 3 Tx slots	29.93	29.91	29.84	30.50	25.67	25.65	25.58	26.24
GPRS 4 Tx slots	28.71	28.74	28.73	29.50	25.71	25.74	25.73	26.50
EDGE 1 Tx slot	26.95	27.28	27.34	28.50	17.95	18.28	18.34	19.50
EDGE 2 Tx slots	25.82	26.23	26.26	27.50	19.82	20.23	20.26	21.50
EDGE 3 Tx slots	23.76	24.08	24.15	25.50	19.50	19.82	19.89	21.24
EDGE 4 Tx slots	22.73	22.89	23.12	24.50	19.73	19.89	20.12	21.50

GSM1900_Ant 0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1852.2	1860	1869.8		1852.2	1860	1869.8	
GSM 1 Tx slot	29.72	29.74	29.82	30.50	20.72	20.74	20.82	21.50
GPRS 1 Tx slot	29.74	29.72	29.79	30.50	20.74	20.72	20.79	21.50
GPRS 2 Tx slots	28.91	28.94	28.99	29.50	22.91	22.94	22.99	23.50
GPRS 3 Tx slots	27.13	27.17	27.23	27.50	22.87	22.91	22.97	23.24
GPRS 4 Tx slots	26.08	26.14	26.04	26.50	23.08	23.14	23.04	23.50
EDGE 1 Tx slot	26.37	26.11	26.06	26.50	17.37	17.11	17.06	17.50
EDGE 2 Tx slots	25.33	25.09	24.95	25.50	19.33	19.09	18.95	19.50
EDGE 3 Tx slots	23.21	23.08	23.01	23.50	18.95	18.82	18.75	19.24
EDGE 4 Tx slots	22.10	21.95	21.94	22.50	19.10	18.95	18.94	19.50

Band TX Channel	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			WCDMA V_Ant 0			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513	4132	4182	4233		
Rx Channel	9652	9800	9938		1537	1638	1738	4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	826.4	836.4	846.6		
3GPP Rel 99 AMR 12.2Kbps	23.69	23.60	23.65	24.00	23.40	23.31	23.16	24.00	23.23	23.34	23.23	24.00
3GPP Rel 99 RMC 12.2Kbps	23.67	23.74	23.66	24.00	23.42	23.44	23.31	24.00	23.35	23.36	23.28	24.00
3GPP Rel 6 HSDPA Subtest-1	22.73	22.41	22.58	23.00	22.19	22.34	22.22	23.00	22.27	22.28	22.23	23.00
3GPP Rel 6 HSDPA Subtest-2	22.71	22.56	22.58	23.00	22.32	22.35	22.26	23.00	22.29	22.26	22.25	23.00
3GPP Rel 6 HSDPA Subtest-3	22.30	22.11	22.10	22.50	21.85	21.87	21.79	22.50	21.85	21.83	21.78	22.50
3GPP Rel 6 HSDPA Subtest-4	22.21	22.11	22.11	22.50	21.81	21.84	21.69	22.50	21.80	21.75	21.73	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.64	22.30	22.43	23.00	22.15	22.32	22.19	23.00	22.25	22.23	22.12	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	22.57	22.42	22.51	23.00	22.28	22.29	22.24	23.00	22.14	22.16	22.20	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	22.15	22.05	22.00	22.50	21.76	21.77	21.76	22.50	21.76	21.82	21.68	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	22.08	22.03	22.03	22.50	21.68	21.75	21.61	22.50	21.66	21.65	21.68	22.50
3GPP Rel 6 HSUPA Subtest-1	20.70	20.57	20.57	22.00	20.37	20.33	20.25	22.00	20.29	20.26	20.24	22.00
3GPP Rel 6 HSUPA Subtest-2	20.67	20.58	20.60	21.00	20.36	20.30	20.28	21.00	20.27	20.26	20.24	21.00
3GPP Rel 6 HSUPA Subtest-3	21.70	21.56	21.61	22.00	21.38	21.36	21.25	22.00	21.27	21.26	21.22	22.00
3GPP Rel 6 HSUPA Subtest-4	20.27	20.17	20.11	21.00	19.93	19.80	19.75	21.00	19.79	19.77	19.73	21.00
3GPP Rel 6 HSUPA Subtest-5	21.70	21.60	21.60	23.00	21.40	21.30	21.20	23.00	21.30	21.20	21.20	23.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	20.18	20.10	20.15	20.50	19.83	19.84	19.75	20.50	19.74	19.73	19.73	20.50

Table with 10 columns: BW (MHz), Modulation, RE (Hz), RB (Hz), Power Low Ch (Freq), Power Mid Ch (Freq), Power High Ch (Freq), Tuneup (int (dB)), MPR (dB). Includes sub-headers for Band 12 Ant 0 and various frequency channels.

Table with 10 columns: BW (MHz), Modulation, RE (Hz), RB (Hz), Power Low Ch (Freq), Power Mid Ch (Freq), Power High Ch (Freq), Tuneup (int (dB)), MPR (dB). Includes sub-headers for Band 12 Ant 4 and various frequency channels.

Table with 10 columns: BW (MHz), Modulation, RE (Hz), RB (Hz), Power Low Ch (Freq), Power Mid Ch (Freq), Power High Ch (Freq), Tuneup (int (dB)), MPR (dB). Includes sub-headers for Band 13 Ant 0 and various frequency channels.

Table with 10 columns: BW (MHz), Modulation, RE (Hz), RB (Hz), Power Low Ch (Freq), Power Mid Ch (Freq), Power High Ch (Freq), Tuneup (int (dB)), MPR (dB). Includes sub-headers for Band 13 Ant 4 and various frequency channels.



Band 14_Ant 0									
BW (MHz)	Modulation	RE Res.	RB Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Timeup (min)	MFR (dB)	
Channel									
2350									
Frequency (MHz)									
10	QPSK	1	0	22.99			24	0	
10	QPSK	1	25	22.99					
10	QPSK	1	49	22.97					
10	QPSK	25	0	21.86					
10	QPSK	25	12	21.91			23	1	
10	QPSK	25	25	21.94					
10	QPSK	50	0	21.83					
10	HQAM	1	0	22.24			23	1	
10	HQAM	1	25	22.17					
10	HQAM	1	49	22.13					
10	HQAM	25	0	20.96					
10	HQAM	25	12	20.99					
10	HQAM	25	25	20.92			22	2	
10	HQAM	50	0	20.94					
10	HQAM	1	0	21.14					
10	HQAM	1	25	21.10			22	2	
10	HQAM	1	49	21.09					
10	HQAM	25	0	19.94					
10	HQAM	25	12	19.92			21	3	
10	HQAM	25	25	19.91					
10	HQAM	50	0	19.94					
10	SSBQAM	1	0	18.41					
10	SSBQAM	1	25	18.38			19	5	
10	SSBQAM	1	49	18.36					
10	SSBQAM	25	0	18.33					
10	SSBQAM	25	12	18.38			19	5	
10	SSBQAM	25	25	18.27					
10	SSBQAM	50	0	18.38					
Channel									
2350									
Frequency (MHz)									
5	QPSK	1	0	22.98	22.90	22.93	24	0	
5	QPSK	1	12	22.98	22.94	22.91			
5	QPSK	1	24	22.82	22.96	22.86			
5	QPSK	12	0	21.81	21.84	21.88			
5	QPSK	12	7	21.83	21.83	21.76	23	1	
5	QPSK	12	13	21.81	21.82	21.90			
5	QPSK	25	0	21.89	21.85	21.83			
5	HQAM	1	0	22.13	22.21	22.10	23	1	
5	HQAM	1	12	22.03	22.03	22.11			
5	HQAM	1	24	22.01	22.00	22.04			
5	HQAM	12	0	20.85	20.81	20.86			
5	HQAM	12	7	20.84	20.88	20.78	22	2	
5	HQAM	12	13	20.84	20.80	20.78			
5	HQAM	25	0	20.93	20.85	20.81			
5	HQAM	1	0	21.06	21.12	21.11	22	2	
5	HQAM	1	12	21.07	20.95	21.02			
5	HQAM	1	24	21.02	21.00	20.94			
5	HQAM	12	7	19.77	19.89	19.81	21	3	
5	HQAM	12	13	19.85	19.81	19.79			
5	SSBQAM	1	0	18.29	18.34	18.27	19	5	
5	SSBQAM	1	12	18.24	18.35	18.32			
5	SSBQAM	1	24	18.24	18.27	18.26			
5	SSBQAM	12	0	18.21	18.18	18.23			
5	SSBQAM	12	7	18.26	18.33	18.23	19	5	
5	SSBQAM	12	13	18.12	18.16	18.17			
5	SSBQAM	25	0	18.25	18.29	18.23			

Band 14_Ant 4									
BW (MHz)	Modulation	RE Res.	RB Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Timeup (min)	MFR (dB)	
Channel									
2350									
Frequency (MHz)									
10	QPSK	1	0	22.95			24	0	
10	QPSK	1	25	22.94					
10	QPSK	1	49	22.93					
10	QPSK	25	0	21.86					
10	QPSK	25	12	21.95			23	1	
10	QPSK	25	25	21.92					
10	QPSK	50	0	21.83					
10	HQAM	1	0	22.24			23	1	
10	HQAM	1	25	22.15					
10	HQAM	1	49	22.15					
10	HQAM	25	0	20.95					
10	HQAM	25	12	20.92			22	2	
10	HQAM	25	25	20.92					
10	HQAM	50	0	20.95					
10	HQAM	1	0	21.16					
10	HQAM	1	25	21.11			22	2	
10	HQAM	1	49	21.10					
10	HQAM	25	0	19.95					
10	HQAM	25	12	19.94			21	3	
10	HQAM	25	25	19.92					
10	HQAM	50	0	19.93					
10	SSBQAM	1	0	18.45					
10	SSBQAM	1	25	18.32			19	5	
10	SSBQAM	1	49	18.36					
10	SSBQAM	25	0	18.43					
10	SSBQAM	25	12	18.42			19	5	
10	SSBQAM	25	25	18.41					
10	SSBQAM	50	0	18.39					
Channel									
2350									
Frequency (MHz)									
5	QPSK	1	0	22.89	22.82	22.94	24	0	
5	QPSK	1	12	22.83	22.84	22.80			
5	QPSK	1	24	22.81	22.78	22.84			
5	QPSK	12	0	21.82	21.88	21.83			
5	QPSK	12	7	21.90	21.87	21.92	23	1	
5	QPSK	12	13	21.77	21.81	21.87			
5	HQAM	1	0	21.84	21.88	21.83			
5	HQAM	1	12	22.17	22.17	22.09	23	1	
5	HQAM	1	24	22.10	22.04	22.14			
5	HQAM	12	0	20.91	20.87	20.82			
5	HQAM	12	7	20.87	20.84	20.82	22	2	
5	HQAM	12	13	20.84	20.77	20.90			
5	HQAM	25	0	20.84	20.81	20.81			
5	HQAM	1	0	21.15	21.03	21.03	22	2	
5	HQAM	1	12	21.00	21.01	21.08			
5	HQAM	1	24	21.05	20.95	20.89			
5	HQAM	12	7	19.82	19.91	19.87	21	3	
5	HQAM	12	13	19.85	19.85	19.90			
5	SSBQAM	1	0	18.40	18.40	18.44	19	5	
5	SSBQAM	1	12	18.36	18.24	18.27			
5	SSBQAM	1	24	18.35	18.33	18.32			
5	SSBQAM	12	0	18.30	18.34	18.29			
5	SSBQAM	12	7	18.26	18.29	18.39	19	5	
5	SSBQAM	12	13	18.40	18.26	18.32			
5	SSBQAM	25	0	18.38	18.29	18.31			

Band 17_Ant 0									
BW (MHz)	Modulation	RE Res.	RB Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Timeup (min)	MFR (dB)	
Channel									
2350									
Frequency (MHz)									
10	QPSK	1	0	23.01	23.06	23.01	24	0	
10	QPSK	1	25	23.00	22.99	22.97			
10	QPSK	1	49	23.01	22.90	22.95			
10	QPSK	25	0	21.81	21.88	21.90			
10	QPSK	25	12	21.88	21.96	21.93	23	1	
10	QPSK	25	25	21.88	21.76	21.85			
10	QPSK	50	0	21.84	21.86	21.87			
10	HQAM	1	0	22.18	22.10	22.13	23	1	
10	HQAM	1	25	22.13	22.15	22.15			
10	HQAM	1	49	22.18	22.11	22.16			
10	HQAM	25	0	20.93	20.83	20.88			
10	HQAM	25	12	20.92	20.93	20.94	22	2	
10	HQAM	25	25	20.95	20.94	20.94			
10	HQAM	50	0	20.95	20.87	20.97			
10	HQAM	1	0	21.11	20.99	21.08	22	2	
10	HQAM	1	25	21.11	21.09	21.11			
10	HQAM	1	49	21.12	21.11	21.13			
10	HQAM	25	0	19.91	19.94	19.97	21	3	
10	HQAM	25	12	19.95	19.98	19.93			
10	HQAM	25	25	19.96	19.95	19.94			
10	HQAM	50	0	19.95	19.98	19.98			
10	SSBQAM	1	0	17.99	18.03	17.94	19	5	
10	SSBQAM	1	25	17.96	17.85	17.90			
10	SSBQAM	1	49	17.93	17.88	17.90			
10	SSBQAM	25	0	17.97	17.94	17.79	19	5	
10	SSBQAM	25	12	17.96	17.83	17.83			
10	SSBQAM	25	25	17.91	18.00	17.90			
10	SSBQAM	50	0	17.88	17.88	17.88			
Channel									
2350									
Frequency (MHz)									
5	QPSK	1	0	22.90	22.84	22.98	24	0	
5	QPSK	1	12	22.98	22.96	22.86			
5									



Band 25_Ant 0									
BW	Modulation	RB Size	RB Offset	Power Lch / Freq	Power Mch / Freq	Power Hch / Freq	Turnup Int. (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.14	23.20	23.14	24	0	
20	QPSK	1	0	23.09	23.15	23.08	24	0	
20	QPSK	1	0	23.13	23.19	23.13	24	0	
20	QPSK	50	0	22.24	22.28	22.23	23	1	
20	QPSK	50	24	22.14	22.15	22.20	23	1	
20	QPSK	50	24	22.23	22.23	22.23	23	1	
20	QPSK	100	0	22.15	22.20	22.13	23	1	
20	16QAM	1	0	22.48	22.43	22.43	23	1	
20	16QAM	1	0	22.44	22.43	22.44	23	1	
20	16QAM	1	99	22.36	22.41	22.44	23	1	
20	16QAM	50	0	21.22	21.23	21.21	22	2	
20	16QAM	50	24	21.17	21.15	21.23	22	2	
20	16QAM	50	50	21.19	21.13	21.24	22	2	
20	16QAM	100	0	21.21	21.19	21.20	22	2	
20	16QAM	1	0	21.33	21.37	21.36	22	2	
20	16QAM	1	49	21.39	21.31	21.38	22	2	
20	16QAM	1	99	21.28	21.32	21.31	22	2	
20	16QAM	50	0	20.22	20.22	20.22	21	3	
20	16QAM	50	24	20.23	20.16	20.21	21	3	
20	16QAM	50	24	20.22	20.14	20.24	21	3	
20	16QAM	100	0	20.25	20.20	20.24	21	3	
20	256QAM	1	0	17.90	17.93	17.91	19	5	
20	256QAM	1	49	17.86	17.86	17.85	19	5	
20	256QAM	1	99	17.87	17.84	17.85	19	5	
20	256QAM	50	0	17.80	17.89	17.82	19	5	
20	256QAM	50	24	17.78	17.82	17.88	19	5	
20	256QAM	50	24	17.80	17.82	17.88	19	5	
20	256QAM	100	0	17.78	17.87	17.80	19	5	
Channel									
Frequency (MHz)									
16	QPSK	1	0	23.07	23.19	23.17	24	0	
16	QPSK	1	0	23.06 <td>23.13<td>23.06<td>24</td><td>0</td><td></td></td></td>	23.13 <td>23.06<td>24</td><td>0</td><td></td></td>	23.06 <td>24</td> <td>0</td> <td></td>	24	0	
16	QPSK	74	0	22.84	22.84	22.84	23	1	
16	QPSK	36	0	22.10	22.19	22.12	23	1	
16	QPSK	36	20	22.12	22.03	22.10	23	1	
16	QPSK	36	20	22.13	22.13	22.13	23	1	
16	QPSK	75	0	22.00	22.15	22.04	23	1	
16	16QAM	1	0	22.33	22.39	22.35	23	1	
16	16QAM	1	0	22.43	22.32	22.32	23	1	
16	16QAM	1	74	22.24	22.39	22.29	23	1	
16	16QAM	36	0	21.18	21.10	21.08	22	2	
16	16QAM	36	20	21.07	21.01	21.07	22	2	
16	16QAM	36	20	21.11	21.01	21.16	22	2	
16	16QAM	75	0	21.13	21.11	21.14	22	2	
16	16QAM	74	0	21.41	21.36	21.44	22	2	
16	16QAM	1	37	21.33	21.16	21.20	22	2	
16	16QAM	1	74	21.14	21.30	21.22	22	2	
16	16QAM	36	0	20.12	20.12	20.12	21	3	
16	16QAM	36	20	20.09	20.10	20.18	21	3	
16	16QAM	36	20	20.16	20.11	20.21	21	3	
16	16QAM	100	0	20.23	20.17	20.23	21	3	
16	256QAM	1	0	17.88	17.89	17.78	19	5	
16	256QAM	1	37	17.81	17.80	17.71	19	5	
16	256QAM	1	74	17.77	17.81	17.71	19	5	
16	256QAM	36	0	17.73	17.88	17.71	19	5	
16	256QAM	36	20	17.78	17.88	17.88	19	5	
16	256QAM	36	20	17.78	17.88	17.71	19	5	
16	256QAM	75	0	17.78	17.82	17.71	19	5	
16	256QAM	75	0	17.87	17.93	17.88	19	5	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.06	23.19	23.04	24	0	
10	QPSK	1	0	23.02	23.08	23.03	24	0	
10	QPSK	1	49	23.04	23.03	23.04	24	0	
10	QPSK	25	0	22.18	22.21	22.16	23	1	
10	QPSK	25	12	22.11	22.00	22.09	23	1	
10	QPSK	25	12	22.22	22.13	22.23	23	1	
10	QPSK	50	0	22.02	22.14	22.03	23	1	
10	16QAM	1	0	22.42	22.42	22.34	23	1	
10	16QAM	1	25	22.42	22.36	22.28	23	1	
10	16QAM	1	49	22.28	22.39	22.28	23	1	
10	16QAM	25	0	21.12	21.21	21.13	22	2	
10	16QAM	25	12	21.02	21.02	21.07	22	2	
10	16QAM	25	12	21.08	21.12	21.24	22	2	
10	16QAM	25	12	21.13	21.03	21.19	22	2	
10	16QAM	50	0	21.20	21.16	21.17	22	2	
10	16QAM	50	24	21.38	21.35	21.24	22	2	
10	16QAM	1	25	21.36	21.25	21.28	22	2	
10	16QAM	1	49	21.13	21.17	21.29	22	2	
10	16QAM	1	20	20.08	20.14	20.08	21	3	
10	16QAM	25	12	20.17	20.06	20.14	21	3	
10	16QAM	25	12	20.21	20.09	20.14	21	3	
10	16QAM	50	0	20.13	20.16	20.21	21	3	
10	256QAM	1	0	17.83	17.89	17.78	19	5	
10	256QAM	1	25	17.89	17.81	17.78	19	5	
10	256QAM	1	49	17.81	17.83	17.88	19	5	
10	256QAM	25	0	17.70	17.74	17.78	19	5	
10	256QAM	25	12	17.88	17.88	17.88	19	5	
10	256QAM	25	12	17.71	17.82	17.71	19	5	
10	256QAM	50	0	17.77	17.84	17.84	19	5	
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.08	23.19	23.04	24	0	
5	QPSK	1	0	23.07	23.10	23.04	24	0	
5	QPSK	1	12	23.07	23.10	23.04	24	0	
5	QPSK	1	49	23.04	23.03	23.04	24	0	
5	QPSK	12	0	22.16	22.24	22.16	23	1	
5	QPSK	12	7	22.01	22.12	22.13	23	1	
5	QPSK	12	7	22.19	22.04	22.24	23	1	
5	QPSK	25	0	22.04	22.08	22.01	23	1	
5	16QAM	1	0	22.41	22.37	22.39	23	1	
5	16QAM	1	12	22.41	22.39	22.36	23	1	
5	16QAM	1	24	22.27	22.38	22.40	23	1	
5	16QAM	12	0	21.16	21.11	21.12	22	2	
5	16QAM	12	7	21.08	21.10	21.08	22	2	
5	16QAM	12	13	21.06	21.01	21.14	22	2	
5	16QAM	25	0	21.10	21.08	21.19	22	2	
5	16QAM	25	0	21.38	21.25	21.21	22	2	
5	16QAM	1	12	21.35	21.20	21.38	22	2	
5	16QAM	1	24	21.14	21.24	21.28	22	2	
5	16QAM	12	0	20.21	20.16	20.18	21	3	
5	16QAM	12	7	20.11	20.09	20.20	21	3	
5	16QAM	12	13	20.12	20.11	20.10	21	3	
5	16QAM	25	0	20.12	20.17	20.16	21	3	
5	16QAM	25	12	20.17	20.13	20.22	21	3	
5	256QAM	1	0	17.87	17.89	17.79	19	5	
5	256QAM	1	12	17.87	17.84	17.81	19	5	
5	256QAM	12	0	17.77	17.85	17.75	19	5	
5	256QAM	12	7	17.82	17.82	17.82	19	5	
5	256QAM	12	13	17.74	17.84	17.72	19	5	
5	256QAM	25	0	17.87	17.84	17.80	19	5	
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.08	23.19	23.04	24	0	
3	QPSK	1	0	23.08	23.12	23.04	24	0	
3	QPSK	1	8	23.08	23.10	23.06	24	0	
3	QPSK	1	14	23.04	23.03	23.04	24	0	
3	QPSK	3	0	22.21	22.23	22.12	23	1	
3	QPSK	3	4	22.13	22.00	22.14	23	1	
3	QPSK	3	7	22.19	22.02	22.24	23	1	
3	QPSK	15	0	22.12	22.11	22.06	23	1	
3	16QAM	1	0	22.40	22.40	22.33	23	1	
3	16QAM	1	3	22.38	22.33	22.33	23	1	
3	16QAM	1	14	22.21	22.33	22.42	23	1	
3	16QAM	3	0	21.09	21.11	21.19	22	2	
3	16QAM	3	4	21.02	21.00	21.08	22	2	
3	16QAM	3	7	21.15	21.05	21.11	22	2	
3	16QAM	15	0	21.14	21.04	21.14	22	2	
3	16QAM	1	0	21.08	21.02	21.08	22	2	
3	16QAM	1	8	21.32	21.24	21.38	22	2	
3	16QAM	1	14	21.18	21.25	21.19	22	2	
3	16QAM	3	0	20.10	20.11	20.14	21	3	
3	16QAM	3	4	20.14	20.09	20.12	21	3	
3	16QAM	3	7	20.08	20.08	20.17	21	3	
3	16QAM	15	0	20.12	20.13	20.14	21	3	
3	256QAM	1	0	17.87	17.89	17.88	19	5	
3	256QAM	1	8	17.83	17.84	17.81	19	5	
3	256QAM	1	14	17.89	17.88	17.88	19	5	
3	256QAM	3	0	17.76	17.80	17.75	19	5	
3	256QAM	3	4	17.81	17.88	17.88	19	5	
3	256QAM	3	7	17.71	17.88	17.73	19	5	
3	256QAM	15	0	17.76	17.83	17.77	19	5	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.97	22.94	22.97	24	0	
1.4	QPSK	1	0	22.93	22.92	22.94	24	0	
1.4	QPSK	1	5						

Band 26(FCC)_Ant 4										
BW MHz	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turn-up Int (dB)	MFR (dB)		
Channel 26765 26765 26765										
Frequency MHz 26765 26765 26765										
15	QPSK	1	0	23.27	23.28	23.29				
15	QPSK	1	37	23.26	23.24	23.19	24	0		
15	QPSK	1	74	23.20	23.20	23.21				
15	QPSK	36	0	23.25	23.31	23.21				
15	QPSK	36	20	22.20	22.24	22.19	23	1		
15	QPSK	36	56	22.24	22.22	22.23				
15	QPSK	75	0	22.26	22.28	22.25				
15	16QAM	1	0	22.45	22.45	22.50				
15	16QAM	1	37	22.49	22.49	22.49	23	1		
15	16QAM	1	74	22.48	22.40	22.41				
15	16QAM	36	0	21.32	21.23	21.25				
15	16QAM	36	20	21.30	21.26	21.33				
15	16QAM	36	56	21.24	21.22	21.21	22	2		
15	16QAM	75	0	21.29	21.24	21.27				
15	16QAM	75	0	21.33	21.41	21.36				
15	64QAM	1	37	21.44	21.41	21.39	22	2		
15	64QAM	1	74	21.39	21.33	21.31				
15	64QAM	36	0	20.33	20.23	20.27				
15	64QAM	36	20	20.30	20.25	20.22	21	3		
15	64QAM	36	56	20.25	20.23	20.22				
15	64QAM	75	0	20.29	20.26	20.26				
15	256QAM	1	0	18.38	18.42	18.33				
15	256QAM	1	37	18.36	18.39	18.24	19	5		
15	256QAM	1	74	18.31	18.34	18.34				
15	256QAM	36	0	18.33	18.40	18.19				
15	256QAM	36	20	18.33	18.39	18.18	19	5		
15	256QAM	36	56	18.33	18.27	18.21				
15	256QAM	75	0	18.33	18.39	18.28				
Channel 26766 26766 26766										
Frequency MHz 26766 26766 26766										
15	QPSK	1	0	23.13	23.17	23.21				
15	QPSK	1	25	23.18	23.20	23.11	24	0		
15	QPSK	1	49	23.18	23.13	23.15				
15	QPSK	25	0	22.25	22.18	22.16				
15	QPSK	25	12	22.08	22.23	22.12	23	1		
15	QPSK	25	25	22.15	22.15	22.15				
15	QPSK	50	0	22.21	22.16	22.23				
15	16QAM	1	0	22.32	22.33	22.36				
15	16QAM	1	25	22.36	22.41	22.38	23	1		
15	16QAM	1	49	22.42	22.28	22.36				
15	16QAM	25	0	21.26	21.17	21.11				
15	16QAM	25	12	21.20	21.20	21.19	22	2		
15	16QAM	25	25	21.21	21.13	21.07				
15	16QAM	50	0	21.25	21.13	21.16				
15	16QAM	50	0	21.21	21.40	21.36				
15	64QAM	1	25	21.40	21.28	21.36	22	2		
15	64QAM	1	49	21.34	21.29	21.23				
15	64QAM	25	0	20.28	20.16	20.25				
15	64QAM	25	12	20.24	20.16	20.10	21	3		
15	64QAM	25	25	20.22	20.22	20.27				
15	64QAM	50	0	20.28	20.15	20.15				
15	256QAM	1	0	18.27	18.33	18.28				
15	256QAM	1	25	18.27	18.21	18.11	19	5		
15	256QAM	1	49	18.24	18.31	18.21				
15	256QAM	25	0	18.27	18.29	18.09				
15	256QAM	25	12	18.29	18.25	18.15	19	5		
15	256QAM	25	25	18.31	18.17	18.22				
15	256QAM	50	0	18.27	18.31	18.26				
Channel 26767 26767 26767										
Frequency MHz 26767 26767 26767										
15	QPSK	1	0	23.20	23.18	23.11				
15	QPSK	1	12	23.11	23.14	23.10	24	0		
15	QPSK	1	24	23.17	23.07	23.08				
15	QPSK	12	0	22.22	22.16	22.20				
15	QPSK	12	7	22.13	22.11	22.15	23	1		
15	QPSK	12	13	22.12	22.18	22.17				
15	QPSK	25	0	22.14	22.16	22.12				
15	16QAM	1	0	22.34	22.36	22.45				
15	16QAM	1	12	22.39	22.36	22.38	23	1		
15	16QAM	1	24	22.34	22.29	22.28				
15	16QAM	12	0	21.24	21.16	21.17				
15	16QAM	12	7	21.17	21.13	21.12	22	2		
15	16QAM	12	13	21.12	21.17	21.19				
15	16QAM	25	0	21.21	21.16	21.17				
15	64QAM	1	0	21.19	21.36	21.31				
15	64QAM	1	12	21.29	21.36	21.32	22	2		
15	64QAM	1	24	21.26	21.20	21.16				
15	64QAM	12	0	20.28	20.13	20.14				
15	64QAM	12	7	20.18	20.23	20.13	21	3		
15	64QAM	12	13	20.22	20.10	20.09				
15	64QAM	25	0	20.29	20.12	20.12				
15	256QAM	1	0	18.35	18.32	18.22				
15	256QAM	1	12	18.36	18.26	18.18	19	5		
15	256QAM	1	24	18.30	18.20	18.12				
15	256QAM	12	0	18.26	18.36	18.10				
15	256QAM	12	7	18.26	18.25	18.17	19	5		
15	256QAM	12	13	18.22	18.21	18.15				
15	256QAM	25	0	18.21	18.35	18.21				
Channel 26768 26768 26768										
Frequency MHz 26768 26768 26768										
1.4	QPSK	1	0	23.11	23.02	23.12				
1.4	QPSK	1	3	23.15	23.09	22.94	24	0		
1.4	QPSK	1	6	23.17	23.09	23.04				
1.4	QPSK	3	0	23.04	23.12	23.05				
1.4	QPSK	3	1	22.93	23.00	22.93	23	1		
1.4	QPSK	3	3	23.13	23.06	22.91				
1.4	QPSK	6	0	22.05	22.14	22.09	22	1		
1.4	16QAM	1	0	22.27	22.33	22.34				
1.4	16QAM	1	3	22.30	22.37	22.29				
1.4	16QAM	1	6	22.32	22.15	22.26	23	1		
1.4	16QAM	3	0	22.11	21.97	22.05				
1.4	16QAM	3	1	22.16	22.09	21.92				
1.4	16QAM	3	3	22.12	22.08	22.02				
1.4	16QAM	6	0	21.12	21.00	21.01	22	2		
1.4	64QAM	1	0	21.11	21.26	21.17				
1.4	64QAM	1	3	21.19	21.20	21.17				
1.4	64QAM	1	6	21.11	21.19	21.07	22	2		
1.4	64QAM	3	0	21.14	21.01	21.00				
1.4	64QAM	3	1	21.20	21.03	21.04				
1.4	64QAM	3	3	21.04	20.98	21.01				
1.4	64QAM	6	0	20.16	20.15	19.98	21	3		
1.4	256QAM	1	0	18.29	18.31	18.11				
1.4	256QAM	1	3	18.28	18.24	18.04	19	5		
1.4	256QAM	1	6	18.15	18.11	17.98				
1.4	256QAM	3	0	18.20	18.22	17.96				
1.4	256QAM	3	1	18.20	18.13	18.06				
1.4	256QAM	3	3	18.22	17.99	18.00				
1.4	256QAM	6	0	18.17	18.26	18.04	19	5		

Band 30_Ant 1										
BW MHz	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turn-up Int (dB)	MFR (dB)		
Channel 27010 27010 27010										
Frequency MHz 27010 27010 27010										
15	QPSK	1	0	23.34						
15	QPSK	1	25	23.27			24	0		
15	QPSK	1	49	23.31						
15	QPSK	25	0	23.27						
15	QPSK	25	12	22.22			23	1		
15	QPSK	25	25	22.22						
15	QPSK	50	0	22.24						
15	16QAM	1	0	22.47						
15	16QAM	1	25	22.38			23	1		
15	16QAM	1	49	22.43						
15	16QAM	25	0	21.25						
15	16QAM	25	12	21.21						
15	16QAM	25	25	21.20			22	2		
15	16QAM	50	0	21.22						
15	64QAM	1	0	21.44						
15	64QAM	1	25	21.32			22	2		
15	64QAM	1	49	21.36						
15	64QAM	25	0	20.24						
15	64QAM	25	12	20.21			21	3		
15	64QAM	25	25	20.24						
15	64QAM	50	0	20.21						
15	256QAM	1	0	17.84						
15	256QAM	1	25	17.89			19	5		
15	256QAM	1	49	17.91						
15	256QAM	25	0	17.81						
15	256QAM	25	12	17.79			19	5		
15	256QAM	25	25	17.73						
15	256QAM	50	0	17.73						
Channel 27011 27011 27011										
Frequency MHz 27011 27011 27011										
15	QPSK	1	0	23.32	23.22	23.26				
15	QPSK	1	12	23.12	23.15	23.19	24	0		
15	QPSK	1	24	23.07	23.08	23.23				
15	QPSK	12	0	22.17	22.17	22.20				
15	QPSK	12	7	22.19	22.08	22.19	23	1		
15	QPSK	12	13	22.20	22.21	22.11				
15	QPSK	25	0	22.21	22.12	22.09				
15	16QAM	1	0	22.33	22.32	22.34				</



Table for Band 66_Ant 0. Columns include BW (MHz), Modulation, RE, RB, Power, and various frequency bands. It lists parameters for multiple channels and antennas.

Table for Band 66_Ant 4. Columns include BW (MHz), Modulation, RE, RB, Power, and various frequency bands. It lists parameters for multiple channels and antennas.

Table for Band 71_Ant 0. Columns include BW (MHz), Modulation, RE, RB, Power, and various frequency bands. It lists parameters for multiple channels and antennas.

Table for Band 71_Ant 4. Columns include BW (MHz), Modulation, RE, RB, Power, and various frequency bands. It lists parameters for multiple channels and antennas.

Band 38_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
				37650	38000	38160						
				2590	2595	2610						
20	QPSK	1	0	23.43	23.46	23.39						
20	QPSK	1	49	23.31	23.44	23.36						
20	QPSK	1	99	23.37	23.42	23.31						
20	QPSK	50	0	22.37	22.45	22.41						
20	QPSK	50	24	22.36	22.34	22.37						
20	QPSK	50	50	22.34	22.34	22.39						
20	QPSK	100	0	22.33	22.40	22.38						
20	16QAM	1	0	22.27	22.31	22.38						
20	16QAM	1	49	22.36	22.44	22.43						
20	16QAM	1	99	22.43	22.45	22.47						
20	16QAM	50	0	21.37	21.30	21.38						
20	16QAM	50	24	21.32	21.40	21.43						
20	16QAM	50	50	21.34	21.44	21.41						
20	16QAM	100	0	21.35	21.34	21.37						
20	64QAM	1	0	20.99	20.99	21.07						
20	64QAM	1	49	21.12	21.11	21.22						
20	64QAM	1	99	21.19	21.17	21.18						
20	64QAM	50	0	20.34	20.34	20.39						
20	64QAM	50	24	20.33	20.36	20.35						
20	64QAM	50	50	20.33	20.39	20.39						
20	64QAM	100	0	20.34	20.35	20.44						
20	256QAM	1	0	17.62	17.77	17.69						
20	256QAM	1	49	17.54	17.63	17.67						
20	256QAM	1	99	17.61	17.73	17.60						
20	256QAM	50	0	17.49	17.68	17.56						
20	256QAM	50	24	17.51	17.71	17.68						
20	256QAM	50	50	17.53	17.66	17.68						
20	256QAM	100	0	17.50	17.74	17.65						
Channel												
				37725	38000	38175						
				2595	2595	2612.5						
15	QPSK	1	0	23.40	23.32	23.26						
15	QPSK	1	37	23.18	23.38	23.21						
15	QPSK	1	74	23.28	23.31	23.27						
15	QPSK	38	0	22.26	22.42	22.29						
15	QPSK	38	29	22.29	22.42	22.32						
15	QPSK	38	59	22.29	22.28	22.32						
15	QPSK	75	0	22.28	22.28	22.31						
15	16QAM	1	0	22.16	22.29	22.35						
15	16QAM	1	37	22.35	22.29	22.37						
15	16QAM	1	74	22.29	22.32	22.32						
15	16QAM	38	0	21.23	21.26	21.28						
15	16QAM	38	20	21.25	21.36	21.30						
15	16QAM	38	39	21.27	21.39	21.28						
15	16QAM	75	0	21.32	21.32	21.29						
15	64QAM	1	0	20.93	20.88	21.05						
15	64QAM	1	37	21.05	21.09	21.13						
15	64QAM	38	0	20.33	20.25	20.32						
15	64QAM	38	20	20.21	20.28	20.31						
15	64QAM	38	39	20.21	20.32	20.35						
15	64QAM	75	0	20.20	20.27	20.35						
15	256QAM	1	0	17.61	17.76	17.62						
15	256QAM	1	37	17.40	17.53	17.65						
15	256QAM	1	74	17.51	17.61	17.65						
15	256QAM	38	0	17.47	17.64	17.61						
15	256QAM	38	20	17.46	17.62	17.58						
15	256QAM	38	39	17.48	17.65	17.62						
15	256QAM	75	0	17.46	17.73	17.61						
Channel												
				37800	38000	38200						
				2575	2595	2615						
10	QPSK	1	0	23.32	23.41	23.33						
10	QPSK	1	25	23.24	23.41	23.21						
10	QPSK	1	49	23.25	23.30	23.20						
10	QPSK	25	0	22.33	22.42	22.27						
10	QPSK	25	12	22.31	22.23	22.30						
10	QPSK	25	25	22.20	22.28	22.24						
10	QPSK	50	0	22.26	22.32	22.21						
10	16QAM	1	0	22.17	22.20	22.31						
10	16QAM	1	25	22.24	22.31	22.40						
10	16QAM	1	49	22.32	22.33	22.33						
10	16QAM	25	0	21.23	21.23	21.24						
10	16QAM	25	12	21.22	21.33	21.28						
10	16QAM	25	25	21.21	21.21	21.30						
10	16QAM	50	0	21.17	21.17	21.33						
10	64QAM	1	0	20.78	20.80	20.98						
10	64QAM	1	25	20.98	20.91	21.02						
10	64QAM	1	49	21.04	21.05	21.07						
10	64QAM	25	0	20.13	20.11	20.23						
10	64QAM	25	12	20.28	20.29	20.23						
10	64QAM	25	25	20.28	20.21	20.21						
10	64QAM	50	0	20.24	20.26	20.25						
10	256QAM	1	0	17.71	17.81	17.67						
10	256QAM	1	25	17.63	17.63	17.61						
10	256QAM	1	49	17.62	17.69	17.59						
10	256QAM	25	0	17.69	17.72	17.62						
10	256QAM	25	12	17.64	17.63	17.55						
10	256QAM	25	25	17.65	17.69	17.61						
10	256QAM	50	0	17.67	17.67	17.60						
Channel												
				39675	40148	40620						
				2498.5	2548.8	2593						
5	QPSK	1	0	23.34	23.28	23.34						
5	QPSK	1	12	23.26	23.23	23.28						
5	QPSK	1	24	23.18	23.26	23.22						
5	QPSK	12	0	22.21	22.35	22.42						
5	QPSK	12	7	22.21	22.34	22.28						
5	QPSK	12	13	22.27	22.19	22.24						
5	QPSK	25	0	22.24	22.16	22.33						
5	16QAM	1	0	22.21	22.14	22.32						
5	16QAM	1	12	22.18	22.25	22.37						
5	16QAM	1	24	22.19	22.17	22.37						
5	16QAM	12	0	21.25	21.14	21.33						
5	16QAM	12	7	21.20	21.12	21.32						
5	16QAM	12	13	21.27	21.29	21.21						
5	16QAM	25	0	21.21	21.16	21.21						
5	64QAM	1	0	20.88	20.78	20.91						
5	64QAM	1	12	21.04	20.84	20.99						
5	64QAM	1	24	20.94	20.92	21.00						
5	64QAM	12	0	20.12	20.09	20.19						
5	64QAM	12	7	20.21	20.27	20.34						
5	64QAM	12	13	20.16	20.25	20.29						
5	64QAM	25	0	20.28	20.24	20.22						
5	256QAM	1	0	17.67	17.76	17.69						
5	256QAM	1	12	17.58	17.63	17.69						
5	256QAM	1	24	17.57	17.72	17.67						
5	256QAM	12	0	17.72	17.76	17.68						
5	256QAM	12	7	17.57	17.73	17.68						
5	256QAM	12	13	17.59	17.76	17.64						
5	256QAM	25	0	17.72	17.71	17.63						

Band 41_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
				39750	40165	40620						
				2590	2595	2603						
20	QPSK	1	0	23.37	23.40	23.37						
20	QPSK	1	49	23.33	23.30	23.39						
20	QPSK	1	99	23.32	23.36	23.31						
20	QPSK	50	0	22.34	22.38	22.47						
20	QPSK	50	24	22.32	22.24	22.34						
20	QPSK	50	50	22.31	22.30	22.37						
20	QPSK	100	0	22.28	22.28	22.36						
20	16QAM	1	0	22.28	22.20	22.35						
20	16QAM	1	49	22.28	22.34	22.44						
20	16QAM	1	99	22.34	22.32	22.50						
20	16QAM	50	0	21.28	21.27	21.34						
20	16QAM	50	24	21.33	21.25	21.33						
20	16QAM	50	50	21.30	21.30	21.34						
20	16QAM	100	0	21.29	21.27	21.35						
20	64QAM	1	0	20.93	20.93	21.01						
20	64QAM	1	49	21.06	20.96	21.13						
20	64QAM	1	99	21.01	21.07	21.14						
20	64QAM	50	0	20.23	20.21	20.30						
20	64QAM	50	24	20.29	20.32	20.35						
20	64QAM	50	50	20.31	20.27	20.34						
20	64QAM	100	0	20.27	20.29	20.34						
20	256QAM	1	0	17.80	17.87	17.79						
20	256QAM	1	49	17.68	17.74	17.70						
20	256QAM	1	99	17.72	17.81	17.64						
20	256QAM	50	0	17.75	17.83	17.73						
20	256QAM	50	24	17.72	17.77	17.69						
20	256QAM	50	50	17.67	17.77	17.64						
20	256QAM	100	0	17.78	17.73	17.67						

Band 48_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Modula Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				55340	55800	56100	56640			
Frequency (MHz)				3260	3600	3844	3900			
20	QPSK	1	0	22.07	22.75	22.65	22.72			
20	QPSK	1	49	22.58	22.73	22.61	22.71	24	0	
20	QPSK	1	99	22.61	22.71	22.64	22.61			
20	QPSK	50	0	21.86	21.67	21.59	21.63			
20	QPSK	50	24	21.50	21.63	21.49	21.58	23	1	
20	QPSK	50	80	21.48	21.60	21.49	21.51			
20	QPSK	100	0	21.59	21.63	21.51	21.60			
20	16QAM	1	0	21.49	21.56	21.52	21.42			
20	16QAM	1	49	21.56	21.68	21.59	21.55	23	1	
20	16QAM	1	99	21.56	21.64	21.51	21.57			
20	16QAM	50	0	20.46	20.59	20.53	20.45			
20	16QAM	50	24	20.52	20.62	20.50	20.47	22	2	
20	16QAM	50	50	20.60	20.65	20.58	20.64			
20	16QAM	100	0	20.61	20.65	20.64	20.51			
20	64QAM	1	0	20.18	20.26	20.25	20.25			
20	64QAM	1	49	20.31	20.38	20.29	20.25	22	2	
20	64QAM	1	99	20.18	20.32	20.21	20.19			
20	64QAM	50	0	19.80	19.65	19.51	19.59			
20	64QAM	50	24	19.60	19.67	19.58	19.56	21	3	
20	64QAM	50	50	19.64	19.71	19.65	19.62			
20	64QAM	100	0	19.55	19.64	19.62	19.57			
20	256QAM	1	0	17.47	17.49	17.34	17.44	19	5	
20	256QAM	1	49	17.53	17.41	17.32	17.28			
20	256QAM	1	99	17.27	17.37	17.28	17.35			
20	256QAM	50	0	17.37	17.40	17.37	17.38	19	5	
20	256QAM	50	24	17.33	17.38	17.33	17.25			
20	256QAM	50	50	17.36	17.45	17.34	17.31			
20	256QAM	100	0	17.35	17.38	17.31	17.27			
Channel				55310	55820	56160	56665			
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	22.58	22.77	22.53	22.69	24	0	
15	QPSK	1	37	22.48	22.66	22.47	22.63			
15	QPSK	1	74	22.51	22.64	22.61	22.53			
15	QPSK	38	0	21.62	21.64	21.46	21.58	23	1	
15	QPSK	38	20	21.46	21.54	21.38	21.45			
15	QPSK	38	39	21.38	21.49	21.48	21.43			
15	QPSK	75	0	21.58	21.53	21.41	21.54			
15	16QAM	1	0	21.46	21.44	21.49	21.34	23	1	
15	16QAM	1	37	21.53	21.67	21.54	21.44			
15	16QAM	1	74	21.42	21.62	21.37	21.51			
15	16QAM	38	0	20.35	20.49	20.40	20.39	22	2	
15	16QAM	38	20	20.45	20.53	20.48	20.42			
15	16QAM	38	39	20.59	20.64	20.46	20.49			
15	16QAM	75	0	20.60	20.53	20.61	20.42			
15	64QAM	1	0	20.10	20.19	20.13	20.23	22	2	
15	64QAM	1	37	20.17	20.25	20.20	20.20			
15	64QAM	1	74	20.07	20.28	20.13	20.10			
15	64QAM	38	0	19.49	19.54	19.48	19.56	21	3	
15	64QAM	38	20	19.65	19.65	19.48	19.45			
15	64QAM	38	39	19.56	19.57	19.64	19.58			
15	16QAM	75	0	19.42	19.59	19.52	19.49	19	5	
15	256QAM	1	0	17.36	17.39	17.32	17.29			
15	256QAM	1	37	17.24	17.34	17.22	17.16			
15	256QAM	1	74	17.19	17.31	17.20	17.25			
15	256QAM	38	0	17.23	17.38	17.32	17.29	19	5	
15	256QAM	38	20	17.25	17.34	17.21	17.19			
15	256QAM	38	39	17.27	17.31	17.26	17.23			
15	256QAM	75	0	17.24	17.33	17.17	17.13			
Channel				55290	55815	56165	56690			
Frequency (MHz)				3555	3607.5	3642.5	3695			
10	QPSK	1	0	22.63	22.71	22.50	22.67	24	0	
10	QPSK	1	25	22.43	22.65	22.46	22.63			
10	QPSK	1	49	22.53	22.67	22.60	22.52			
10	QPSK	25	0	21.80	21.82	21.46	21.61	23	1	
10	QPSK	25	12	21.47	21.52	21.45	21.46			
10	QPSK	25	25	21.33	21.53	21.44	21.40			
10	QPSK	50	0	21.67	21.51	21.49	21.51	23	1	
10	16QAM	1	0	21.42	21.46	21.39	21.37			
10	16QAM	1	25	21.54	21.53	21.51	21.53			
10	16QAM	1	49	21.47	21.58	21.42	21.45			
10	16QAM	25	0	20.31	20.44	20.48	20.39	22	2	
10	16QAM	25	12	20.47	20.60	20.49	20.41			
10	16QAM	25	25	20.47	20.55	20.44	20.55			
10	16QAM	50	0	20.60	20.60	20.59	20.39			
10	64QAM	1	0	20.16	20.19	20.22	20.21	22	2	
10	64QAM	1	25	20.18	20.32	20.18	20.11			
10	64QAM	1	49	20.12	20.22	20.07	20.04			
10	64QAM	25	0	19.60	19.58	19.39	19.54	21	3	
10	64QAM	25	12	19.48	19.54	19.56	19.53			
10	16QAM	25	25	19.38	19.60	19.52	19.49			
10	64QAM	50	0	19.43	19.51	19.51	19.53			
10	256QAM	1	0	17.45	17.39	17.29	17.33	19	5	
10	256QAM	1	25	17.28	17.36	17.30	17.20			
10	256QAM	1	49	17.22	17.36	17.25	17.26			
10	256QAM	25	0	17.35	17.39	17.27	17.34	19	5	
10	256QAM	25	12	17.20	17.36	17.19	17.23			
10	256QAM	25	25	17.32	17.36	17.28	17.23			
10	256QAM	50	0	17.24	17.32	17.30	17.17			
Channel				55265	55810	56170	56715			
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	22.81	22.70	22.56	22.60	24	0	
5	QPSK	1	12	22.53	22.60	22.48	22.65			
5	QPSK	1	24	22.58	22.61	22.58	22.49			
5	QPSK	12	0	21.51	21.54	21.53	21.58	23	1	
5	QPSK	12	7	21.42	21.50	21.41	21.48			
5	QPSK	12	13	21.40	21.55	21.37	21.39			
5	QPSK	25	0	21.67	21.54	21.43	21.48	23	1	
5	16QAM	1	0	21.37	21.47	21.47	21.36			
5	16QAM	1	12	21.48	21.60	21.47	21.47			
5	16QAM	1	24	21.52	21.50	21.43	21.45	22	2	
5	16QAM	12	0	20.33	20.58	20.42	20.37			
5	16QAM	12	7	20.43	20.60	20.47	20.44			
5	16QAM	12	13	20.55	20.54	20.43	20.61			
5	16QAM	25	0	20.58	20.62	20.57	20.36	22	2	
5	64QAM	1	0	20.14	20.12	20.10	20.13			
5	64QAM	1	12	20.29	20.26	20.21	20.11			
5	64QAM	1	24	20.07	20.21	20.20	20.15			
5	64QAM	12	0	19.48	19.57	19.43	19.49	21	3	
5	16QAM	12	7	19.49	19.66	19.44	19.48			
5	64QAM	12	13	19.56	19.65	19.55	19.61			
5	64QAM	25	0	19.51	19.49	19.50	19.45			
5	256QAM	1	0	17.32	17.48	17.29	17.29	19	5	
5	256QAM	1	12	17.31	17.32	17.18	17.22			
5	256QAM	1	24	17.20	17.25	17.25	17.23			
5	256QAM	12	0	17.27	17.33	17.24	17.34	19	5	
5	256QAM	12	7	17.27	17.26	17.24	17.12			
5	256QAM	12	13	17.32	17.34	17.33	17.23			
5	256QAM	25	0	17.22	17.31	17.23	17.17			

Reduced Power Mode for EC17

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8	33.00	22.76	22.83	22.78	24.00
GSM 1 Tx slot	31.76	31.83	31.78	33.00	22.71	22.85	22.72	24.00
GPRS 1 Tx slot	31.71	31.85	31.72	33.00	22.71	22.85	22.72	24.00
GPRS 2 Tx slots	28.93	29.08	29.05	30.00	22.93	23.08	23.05	24.00
GPRS 3 Tx slots	28.99	27.13	28.99	28.00	22.73	22.87	22.73	23.74
GPRS 4 Tx slots	25.87	25.92	25.91	27.00	22.87	22.92	22.91	24.00
EDGE 1 Tx slot	28.95	27.28	27.34	28.50	17.95	18.28	18.34	19.50
EDGE 2 Tx slots	25.82	26.23	26.26	27.50	19.82	20.23	20.26	21.50
EDGE 3 Tx slots	23.76	24.08	24.15	25.50	19.50	19.82	19.89	21.24
EDGE 4 Tx slots	22.73	22.89	23.12	24.50	19.73	19.89	20.12	21.50

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1852.2	1900	1932.6		1852.2	1900	1932.6	
Frequency (MHz)	1852.2	1900	1932.6	27.50	17.76	17.72	17.69	18.50
GSM 1 Tx slot	26.76	26.72	26.69	27.50	17.76	17.72	17.69	18.50
GPRS 1 Tx slot	26.79	26.72	26.73	27.50	17.79	17.72	17.73	18.50
GPRS 2 Tx slots	23.72	23.70	23.69	24.50	17.72	17.70	17.69	18.50
GPRS 3 Tx slots	21.93	21.95	21.94	22.50	17.67	17.69	17.68	18.24
GPRS 4 Tx slots	20.58	20.68	20.54	21.50	17.58	17.68	17.54	18.50
EDGE 1 Tx slot	26.37	26.11	26.06	26.50	17.37	17.11	17.06	17.50
EDGE 2 Tx slots	23.62	23.61	23.56	24.00	17.62	17.61	17.56	18.00
EDGE 3 Tx slots	21.89	21.82	21.85	22.00	17.63	17.56	17.59	17.74
EDGE 4 Tx slots	20.33	20.35	20.31	21.00	17.33	17.35	17.31	18.00

Band	WCDMA II_Ant 0	Tune-up Limit (dBm)	WCDMA IV_Ant 0			WCDMA V_Ant 0			Tune-up Limit (dBm)				
			1312	1413	1513	4132	4182	4233					
TX Channel	9662	9400	9638	1312	1413	1513	4132	4182	4233				
Rx Channel	9662	9800	9938	1537	1638	1739	4357	4407	4458				
Frequency (MHz)	1852.4	1980	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	16.05	15.92	15.98	17.00	17.20	17.20	18.50	20.90	20.91	20.86	22.00	
3GPP Rel 99	AMR 12.2Kbps	15.98	16.10	16.01	17.00	17.24	17.35	17.29	18.50	20.94	20.97	20.93	22.00
3GPP Rel 6	HSDPA Subtest-1	16.07	15.86	15.92	16.50	17.15	17.22	17.31	18.00	20.92	20.83	20.88	21.50
3GPP Rel 6	HSDPA Subtest-2	16.04	15.92	15.99	16.50	17.14	17.28	17.32	18.00	20.89	20.88	20.84	21.50
3GPP Rel 6	HSDPA Subtest-3	16.04	15.92	15.90	16.50	17.17	17.32	17.27	18.00	20.83	20.86	20.85	21.50
3GPP Rel 6	HSDPA Subtest-4	16.00	15.95	15.86	16.50	17.23	17.33	17.28	18.00	20.88	20.89	20.86	21.50
3GPP Rel 6	DC-HSDPA Subtest-1	15.94	15.82	15.86	16.50	17.11	17.11	17.18	18.00	20.89	20.74	20.83	21.50
3GPP Rel 6	DC-HSDPA Subtest-2	16.00	15.87	15.91	16.50	17.06	17.16	17.19	18.00	20.83	20.83	20.80	21.50
3GPP Rel 6	DC-HSDPA Subtest-3	15.96	15.79	15.88	16.50	17.02	17.20	17.14	18.00	20.77	20.84	20.83	21.50
3GPP Rel 6	DC-HSDPA Subtest-4	15.93	15.92	15.72	16.50	17.22	17.27	17.26	18.00	20.76	20.77	20.74	21.50
3GPP Rel 6	HSUPA Subtest-1	16.03	15.84	15.86	16.50	17.10	17.20	17.17	18.00	20.84	20.73	20.79	21.50
3GPP Rel 6	HSUPA Subtest-2	16.03	15.78	15.97	16.50	17.00	17.21	17.21	18.00	20.09	19.91	19.98	21.00
3GPP Rel 6	HSUPA Subtest-3	15.94	15.77	15.88	16.50	17.11	17.07	17.18	18.00	20.74	20.84	20.78	21.50
3GPP Rel 6	HSUPA Subtest-4	16.02	15.83	15.91	16.50	17.12	17.21	17.24	18.00	19.98	20.01	19.96	21.00
3GPP Rel 6	HSUPA Subtest-5	16.00	15.79	15.83	16.50	17.03	17.24	17.18	18.00	20.81	20.85	20.82	21.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.93	15.94	15.71	16.50	17.18	17.30	17.13	18.00	19.74	19.73	19.73	20.50

Band 2_Ant 0									
RV (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-use (min)	MTR (dB)	MPR (dB)
Channel 1									
Fransing (MHz)									
20	QPSK	1	0	15.07	15.13	15.00			
20	QPSK	1	49	15.99	16.04	15.92	17	0	
20	QPSK	1	97	16.91	16.97	16.80	17	0	
20	QPSK	50	0	15.07	15.00	15.02			
20	QPSK	50	24	15.93	16.03	15.99	17	0	
20	QPSK	50	48	16.85	16.95	16.80	17	0	
20	QPSK	100	0	15.84	15.99	15.84			
20	HQDM	1	0	15.98	15.99	15.98			
20	HQDM	1	49	15.95	15.91	15.78	17	0	
20	HQDM	1	99	15.97	16.01	15.91	17	0	
20	HQDM	50	0	15.86	15.96	15.83			
20	HQDM	50	24	15.99	16.04	15.94	17	0	
20	HQDM	50	48	16.98	17.08	16.84	17	0	
20	HQDM	100	0	15.80	15.83	15.85			
20	HQDM	100	0	15.99	15.99	15.99			
20	HQDM	1	99	15.88	15.94	15.85	17	0	
20	HQDM	1	99	15.97	16.00	15.97			
20	HQDM	50	50	15.98	15.97	15.94	17	0	
20	HQDM	50	50	15.99	15.99	15.98			
20	HQDM	50	99	15.88	15.94	15.85	17	0	
20	HQDM	50	99	15.97	16.00	15.97			
20	HQDM	100	0	15.88	15.98	15.97			
20	ZSSVM	1	0	15.88	15.98	15.97	17	0	
20	ZSSVM	1	99	15.94	16.02	15.84			
20	ZSSVM	50	0	15.84	15.94	15.92			
20	ZSSVM	50	24	15.90	16.01	15.92	17	0	
20	ZSSVM	50	48	16.96	17.06	16.87	17	0	
20	ZSSVM	100	0	15.80	15.83	15.85			
20	ZSSVM	100	0	15.99	15.99	15.99			
20	ZSSVM	100	0	15.84	15.94	15.83			
Channel 2									
Fransing (MHz)									
15	QPSK	1	0	15.95	16.11	16.07			
15	QPSK	1	37	15.92	15.84	15.87	17	0	
15	QPSK	1	74	15.85	15.85	15.85	17	0	
15	QPSK	36	0	15.96	15.96	15.96			
15	QPSK	36	20	15.88	15.88	15.91	17	0	
15	QPSK	36	40	15.85	15.87	15.77	17	0	
15	QPSK	75	0	15.82	15.88	15.79			
15	HQDM	1	0	15.92	15.87	15.94			
15	HQDM	1	37	15.83	15.82	15.82	17	0	
15	HQDM	1	74	15.90	15.90	15.88	17	0	
15	HQDM	36	0	15.85	15.88	15.88			
15	HQDM	36	20	15.81	15.89	15.80	17	0	
15	HQDM	36	40	15.89	16.04	15.96	17	0	
15	HQDM	75	0	15.77	15.81	15.80			
15	HQDM	75	0	15.83	15.82	15.82			
15	HQDM	1	37	15.74	15.93	15.79	17	0	
15	HQDM	1	74	15.93	15.99	15.84	17	0	
15	HQDM	36	20	15.94	15.97	15.89	17	0	
15	HQDM	36	40	15.87	15.89	15.88			
15	HQDM	75	0	15.78	15.89	15.88			
15	ZSSVM	1	0	15.78	15.89	15.88	17	0	
15	ZSSVM	1	97	15.97	16.03	16.01			
15	ZSSVM	36	0	15.88	15.91	15.78	17	0	
15	ZSSVM	36	20	15.87	15.87	15.89			
15	ZSSVM	36	40	15.86	15.85	15.76	17	0	
15	ZSSVM	75	0	15.86	15.85	15.76			
15	ZSSVM	75	0	15.82	15.88	15.79			
Channel 3									
Fransing (MHz)									
10	QPSK	1	0	15.96	16.11	15.96			
10	QPSK	1	25	15.89	16.01	15.84	17	0	
10	QPSK	1	50	15.82	15.82	15.82	17	0	
10	QPSK	25	0	15.98	15.91	15.98			
10	QPSK	25	12	15.86	16.00	15.94	17	0	
10	QPSK	25	25	15.85	15.97	15.78	17	0	
10	QPSK	50	0	15.73	15.85	15.78			
10	HQDM	1	0	15.91	15.85	15.73			
10	HQDM	1	25	15.82	15.82	15.88	17	0	
10	HQDM	1	49	15.87	15.98	15.76	17	0	
10	HQDM	25	0	15.75	15.89	15.76			
10	HQDM	25	12	15.89	16.01	15.91	17	0	
10	HQDM	25	25	15.89	15.91	15.82	17	0	
10	HQDM	50	0	15.79	15.85	15.87			
10	HQDM	50	12	15.85	15.89	15.82	17	0	
10	HQDM	1	25	15.91	15.95	15.89			
10	HQDM	1	25	15.82	16.06	15.84	17	0	
10	HQDM	25	12	15.79	15.85	15.87			
10	HQDM	25	25	15.85	15.89	15.82	17	0	
10	HQDM	50	0	15.74	15.89	15.87			
10	HQDM	50	12	15.81	15.89	15.82	17	0	
10	HQDM	1	25	15.91	15.95	15.89			
10	HQDM	1	25	15.82	16.06	15.84	17	0	
10	HQDM	25	12	15.79	15.85	15.87			
10	HQDM	25	25	15.85	15.89	15.82	17	0	
10	HQDM	50	0	15.74	15.89	15.87			
10	HQDM	50	12	15.81	15.89	15.82	17	0	
10	HQDM	1	25	15.91	15.95	15.89			
10	HQDM	1	25	15.82	16.06	15.84	17	0	
10	HQDM	25	12	15.79	15.85	15.87			
10	HQDM	25	25	15.85	15.89	15.82	17	0	
10	HQDM	50	0	15.74	15.89	15.87			
10	HQDM	50	12	15.81	15.89	15.82	17	0	
10	ZSSVM	1	0	15.74	15.89	15.87			
10	ZSSVM	1	25	15.91	15.95	15.89			
10	ZSSVM	1	25	15.82	16.06	15.84	17	0	
10	ZSSVM	25	12	15.79	15.85	15.87			
10	ZSSVM	25	25	15.85	15.89	15.82	17	0	
10	ZSSVM	50	0	15.80	15.84	15.72			
Channel 4									
Fransing (MHz)									
5	QPSK	1	0	15.99	16.01	15.99			
5	QPSK	1	12	15.88	16.03	15.84	17	0	
5	QPSK	1	25	15.83	15.83	15.83	17	0	
5	QPSK	12	0	15.91	15.98	15.98			
5	QPSK	12	7	15.84	16.02	15.87	17	0	
5	QPSK	12	14	15.84	16.02	15.87	17	0	
5	QPSK	25	0	15.88	15.81	15.76			
5	HQDM	1	0	15.95	15.85	15.73			
5	HQDM	1	12	15.79	15.81	15.77	17	0	
5	HQDM	1	24	15.84	15.88	15.78			
5	HQDM	12	0	15.78	15.83	15.80			
5	HQDM	12	7	15.74	15.83	15.88	17	0	
5	HQDM	12	14	15.84	16.08	15.95	17	0	
5	HQDM	25	0	15.76	15.80	15.82			
5	HQDM	25	7	15.84	15.87	15.74	17	0	
5	HQDM	25	14	15.74	15.89	15.72	17	0	
5	HQDM	1	24	15.92	15.89	15.89			
5	HQDM	1	24	15.84	15.83	15.81	17	0	
5	HQDM	12	7	15.89	15.94	15.90			
5	HQDM	12	14	15.87	15.89	15.89			
5	ZSSVM	1	0	15.77	15.80	15.94			
5	ZSSVM	1	12	15.87	15.89	15.89			
5	ZSSVM	1	24	15.91	15.89	15.86			
5	ZSSVM	12	0	15.77	15.80	15.94			
5	ZSSVM	12	7	15.87	15.87	15.74	17	0	
5	ZSSVM	12	14	15.91	15.90	15.79	17	0	
5	ZSSVM	25	0	15.82	15.81	15.72			
5	ZSSVM	25	0	15.80	15.84	15.72			
Channel 5									
Fransing (MHz)									
3	QPSK	1	0	15.94	16.02	15.99			
3	QPSK	1	8	15.88	16.07	15.88	17	0	
3	QPSK	1	16	15.82	15.82	15.82	17	0	
3	QPSK	8	0	15.90	15.99	15.95			
3	QPSK	8	4	15.84	16.02	15.95	17	0	
3	QPSK	8	8	15.85	16.07	15.86	17	0	
3	QPSK	16	0	15.77	15.87	15.78			
3	HQDM	1	0	15.95	15.81	15.83			
3	HQDM	1	8	15.89	15.99	15.78	17	0	
3	HQDM	1	16	15.84	15.88	15.78	17	0	
3	HQDM	8	0	15.86	15.91	15.73			
3	HQDM	8	4	15.84	15.93	15.81	17	0	
3	HQDM	8	8	15.83	15.98	15.83	17	0	
3	HQDM	16	0	15.80	15.82	15.86			
3	HQDM	16	0	15.97	15.13	13.92	14	0	
3	HQDM	1	16	15.89	15.99	15.85	17	0	
3	HQDM	8	0	15.86	15.98	15.86			
3	HQDM	8	4	15.84	15.93	15.81	17	0	
3	HQDM	8	8	15.83	15.98	15.83	17	0	
3	HQDM	16	0	15.80	15.82	15.86			
3	HQDM	16	0	15.97	15.13	13.92	14	0	
3	HQDM	1	16	15.89	15.99	15.85	17	0	
3	HQDM	8	0	15.86	15.98	15.86			
3	HQDM	8	4	15.84	15.93	15.81	17	0	
3	HQDM	8	8	15.83	15.98	15.83	17	0	
3	HQDM	16	0	15.80	15.82	15.86			
3	HQDM	16	0	15.97	15.13	13.92	14	0	
3	HQDM	1	16	15.89	15.99	15.85	17	0	
3	HQDM	8	0	15.86	15.98	15.86			
3	HQDM	8	4	15.84	15.93	15.81	17	0	
3	HQDM	8	8	15.83	15.98	15.83	17	0	
3	HQDM	16	0	15.80	15.82	15.86			
3	HQDM	16	0	15.97	15.13	13.92	14	0	
3	ZSSVM	1	0	15.94	16.02	15.99			
3	ZSSVM	1	8	15.					



Band 5_Ant 0										
BW (MHz)	Modulation	RE Cstx	RB Cstx	Power Lb Ch / Freq	Power Mde Ch / Freq	Power Hb Ch / Freq	Txupn Int (dBm)	MFR (dB)		
Channel Frequency (MHz)										
				2100	2100	2100				
10	QPSK	1	0	21.00	21.00	21.00				
10	QPSK	1	25	21.06	21.07	21.04	22	0		
10	QPSK	1	49	21.12	21.14	21.04				
10	QPSK	25	0	21.06	21.03	21.02				
10	QPSK	25	12	20.98	21.00	20.98				
10	QPSK	25	25	20.92	20.98	20.97	22	0		
10	QPSK	50	0	21.02	21.04	20.93				
10	HQAM	1	0	20.95	20.98	20.94				
10	HQAM	1	25	20.97	21.02	20.92	22	0		
10	HQAM	1	49	20.97	20.98	20.95				
10	HQAM	25	0	20.92	20.97	20.99				
10	HQAM	25	12	20.70	20.90	20.88				
10	HQAM	25	25	20.90	20.94	20.88	22	0		
10	HQAM	50	0	20.90	20.94	20.87				
10	HQAM	50	1	20.90	20.96	20.91				
10	HQAM	1	25	20.79	20.92	20.79	22	0		
10	HQAM	1	49	20.90	21.02	21.01				
10	HQAM	25	0	19.95	19.97	19.98				
10	HQAM	25	12	20.07	20.98	20.91				
10	HQAM	25	25	19.84	19.99	19.87	21	1		
10	SSB-M	1	0	17.99	18.04	17.99				
10	SSB-M	1	25	17.98	18.03	17.91	19	3		
10	SSB-M	1	49	17.98	18.03	18.00				
10	SSB-M	25	0	17.99	18.04	17.99				
10	SSB-M	25	12	17.98	17.99	17.99	19	3		
10	SSB-M	25	25	17.98	17.97	17.96				
10	SSB-M	50	0	17.99	18.00	17.99				
Channel Frequency (MHz)										
				2092	2092	2092				
5	QPSK	1	0	21.00	21.05	21.01				
5	QPSK	1	12	20.99	20.98	20.95	22	0		
5	QPSK	1	25	20.93	20.91	20.92				
5	QPSK	12	0	20.94	20.97	20.99				
5	QPSK	12	7	20.77	20.99	20.97	22	0		
5	QPSK	25	0	20.98	21.01	20.78				
5	HQAM	1	0	20.81	20.96	20.85				
5	HQAM	1	24	20.87	20.91	20.82	22	0		
5	HQAM	1	24	20.90	20.88	20.89				
5	HQAM	12	0	20.93	20.83	20.75				
5	HQAM	12	13	20.75	20.85	20.78				
5	HQAM	12	13	20.89	20.88	20.76	22	0		
5	HQAM	25	0	20.86	20.88	20.85				
5	HQAM	25	12	20.85	20.90	20.78				
5	HQAM	1	12	20.89	20.82	20.84	22	0		
5	HQAM	1	24	20.84	20.94	20.94				
5	HQAM	12	0	19.95	19.98	19.75				
5	HQAM	12	13	19.95	19.94	19.93	21	1		
5	SSB-M	1	0	17.99	17.99	17.91				
5	SSB-M	1	12	17.98	17.98	17.76	19	3		
5	SSB-M	1	24	17.98	17.93	17.89				
5	SSB-M	12	0	17.99	18.00	17.92				
5	SSB-M	12	7	17.97	17.97	17.74	19	3		
5	SSB-M	12	13	17.78	17.96	17.81				
5	SSB-M	25	0	17.98	17.91	17.91				
Channel Frequency (MHz)										
				2084	2084	2084				
3	QPSK	1	0	21.00	21.02	21.04				
3	QPSK	1	8	21.00	20.99	21.00	22	0		
3	QPSK	1	16	20.94	20.95	20.96				
3	QPSK	8	0	20.89	20.89	20.99				
3	QPSK	8	4	20.79	20.96	20.94	22	0		
3	HQAM	1	0	20.92	20.92	20.89				
3	HQAM	1	14	20.94	20.93	20.83				
3	HQAM	1	14	20.93	20.85	20.94				
3	HQAM	8	0	20.83	20.92	20.86				
3	HQAM	8	4	20.84	20.91	20.85				
3	HQAM	8	7	20.89	20.92	20.83	22	0		
3	HQAM	15	0	20.79	20.84	20.83				
3	HQAM	1	0	20.89	20.92	20.83				
3	HQAM	1	8	20.94	20.77	20.74	22	0		
3	HQAM	1	14	20.76	21.01	20.89				
3	HQAM	8	0	19.93	19.93	19.83				
3	HQAM	8	4	19.92	19.99	19.92	21	1		
3	SSB-M	1	0	17.99	17.99	17.92				
3	SSB-M	1	8	17.98	17.98	17.81	19	3		
3	SSB-M	1	14	17.98	17.97	17.86				
3	SSB-M	8	0	17.99	17.99	17.89				
3	SSB-M	8	4	17.98	17.88	17.81	19	3		
3	SSB-M	8	7	17.84	17.88	17.87				
3	SSB-M	15	0	17.94	17.87	17.83				
Channel Frequency (MHz)										
				2077	2077	2077				
1.4	QPSK	1	0	21.00	21.09	20.97				
1.4	QPSK	1	3	20.94	21.05	21.02	22	0		
1.4	QPSK	1	6	20.76	20.97	20.93				
1.4	QPSK	3	0	20.88	21.00	20.94				
1.4	QPSK	3	1	20.71	20.89	20.91				
1.4	QPSK	3	3	20.77	20.84	20.83				
1.4	QPSK	6	0	20.97	21.01	20.83	22	0		
1.4	HQAM	1	0	20.82	20.87	20.82				
1.4	HQAM	1	3	20.86	20.97	20.87				
1.4	HQAM	1	6	20.84	20.92	20.82	22	0		
1.4	HQAM	3	0	20.89	20.97	20.87				
1.4	HQAM	3	1	20.74	20.83	20.86				
1.4	HQAM	3	3	20.81	20.89	20.76				
1.4	HQAM	6	0	20.84	20.90	20.86	22	0		
1.4	HQAM	6	0	20.89	20.93	20.85				
1.4	HQAM	1	3	20.77	20.83	20.84				
1.4	HQAM	1	6	20.96	20.98	20.87	22	0		
1.4	HQAM	3	0	20.84	20.92	20.79				
1.4	HQAM	3	1	20.63	20.73	20.55				
1.4	SSB-M	1	0	17.99	18.00	17.78				
1.4	SSB-M	1	3	17.98	17.98	17.77	19	3		
1.4	SSB-M	1	6	17.99	17.97	17.76				
1.4	SSB-M	3	0	17.99	17.95	17.75				
1.4	SSB-M	3	1	17.99	17.89	17.83	19	3		
1.4	SSB-M	3	3	17.99	17.89	17.88				
1.4	SSB-M	6	0	17.92	17.95	17.84				
1.4	SSB-M	6	5	17.89	17.87	17.91	19	3		

Band 5_Ant 4										
BW (MHz)	Modulation	RE Cstx	RB Cstx	Power Lb Ch / Freq	Power Mde Ch / Freq	Power Hb Ch / Freq	Txupn Int (dBm)	MFR (dB)		
Channel Frequency (MHz)										
				2084	2084	2084				
10	QPSK	1	0	20.14	20.18	20.17				
10	QPSK	1	25	20.02	20.04	19.91	21.2	0		
10	QPSK	1	49	20.02	20.05	19.92				
10	QPSK	25	0	20.05	20.13	20.03				
10	QPSK	25	12	19.97	20.05	19.92	21.2	0		
10	QPSK	25	25	19.92	20.01	19.92				
10	HQAM	1	0	20.03	20.08	20.07				
10	HQAM	1	25	19.98	20.05	19.95	21.2	0		
10	HQAM	1	49	20.08	20.09	20.04				
10	HQAM	25	0	19.92	20.04	19.93				
10	HQAM	25	12	20.00	20.12	20.00				
10	HQAM	25	25	20.07	20.12	19.99	21.2	0		
10	HQAM	50	0	19.98	20.11	20.01				
10	HQAM	50	1	20.02	20.05	19.94				
10	HQAM	1	25	20.07	20.14	20.05	21.2	0		
10	HQAM	1	49	20.05	20.08	19.92				
10	HQAM	25	0	20.13	20.14	20.08				
10	HQAM	25	12	20.04	20.07	19.92				
10	HQAM	25	25	20.01	20.08	19.98	21	0.2		
10	HQAM	50	0	20.05	20.09	20.04				
10										



Band 12 Ant 0										
BW (MHz)	Modulation	RE Rate	RB Cnt	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tuneup Int (min)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.00	21.07	21.13				
10	QPSK	1	25	22.69	22.67	22.66	24	0		
10	QPSK	8	49	22.92	22.93	22.94				
10	QPSK	25	0	21.07	21.07	21.06				
10	QPSK	25	12	21.97	21.99	21.87	23	1		
10	QPSK	25	25	21.07	21.03	21.02				
10	QPSK	50	0	21.91	21.95	21.86				
10	HQAM	1	0	22.11	22.11	22.09	23	1		
10	HQAM	1	49	22.22	22.19	22.16				
10	HQAM	25	0	20.90	20.89	20.86				
10	HQAM	25	12	20.92	20.91	20.82	22	2		
10	HQAM	25	25	20.93	20.94	20.94				
10	HQAM	50	0	20.95	20.94	20.95				
10	HQAM	50	1	21.01	21.03	20.99				
10	HQAM	1	25	21.04	21.10	21.05	22	2		
10	HQAM	1	49	21.16	21.11	21.15				
10	HQAM	25	0	19.89	19.90	19.92				
10	HQAM	25	12	19.91	19.90	19.95	21	3		
10	HQAM	25	25	19.92	19.95	19.96				
10	HQAM	50	0	19.95	19.95	19.95				
10	SSQAM	1	0	18.01	18.13	18.07				
10	SSQAM	1	25	17.88	18.08	18.00	19	5		
10	SSQAM	1	49	17.88	18.00	17.99				
10	SSQAM	25	0	17.94	18.06	17.93				
10	SSQAM	25	12	17.94	18.01	18.01	19	5		
10	SSQAM	25	25	17.88	18.09	17.93				
10	SSQAM	50	0	17.99	18.10	18.01				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.88	22.93	22.97				
5	QPSK	1	12	22.89	22.93	22.85	24	0		
5	QPSK	1	24	22.89	22.93	22.85				
5	QPSK	12	0	21.80	21.83	21.90				
5	QPSK	12	7	21.78	21.83	21.85	23	1		
5	QPSK	12	25	21.82	21.82	21.83				
5	QPSK	25	0	21.89	21.88	21.81				
5	HQAM	1	0	21.86	22.01	22.07	23	1		
5	HQAM	1	24	22.07	22.07	22.12				
5	HQAM	1	24	22.13	22.07	22.12				
5	HQAM	12	0	20.87	20.79	20.85				
5	HQAM	12	7	20.89	20.89	20.82	22	2		
5	HQAM	12	13	20.81	20.88	20.86				
5	HQAM	25	0	20.88	20.89	20.91				
5	HQAM	25	12	20.84	20.94	20.84	22	2		
5	HQAM	1	12	20.92	21.00	21.02	22	2		
5	HQAM	1	24	21.05	21.05	21.01				
5	HQAM	12	7	19.82	19.82	19.89	21	3		
5	HQAM	12	13	19.84	19.85	19.91				
5	HQAM	12	13	19.79	19.88	19.90				
5	SSQAM	1	0	18.00	18.02	17.97				
5	SSQAM	1	12	17.86	17.89	17.89	19	5		
5	SSQAM	1	24	17.74	17.87	17.85				
5	SSQAM	12	0	17.89	17.89	17.87				
5	SSQAM	12	7	17.89	17.92	17.86	19	5		
5	SSQAM	12	13	17.91	18.01	17.92				
5	SSQAM	25	0	17.88	18.08	17.92				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.92	22.93	22.91				
3	QPSK	1	8	22.89	22.91	22.85	24	0		
3	QPSK	1	14	22.89	22.91	22.85				
3	QPSK	8	0	21.91	21.84	21.82				
3	QPSK	8	4	21.89	21.84	21.74	23	1		
3	QPSK	8	12	21.92	21.92	21.93				
3	QPSK	16	0	21.78	21.82	21.84				
3	HQAM	1	0	22.07	21.97	22.01	23	1		
3	HQAM	1	14	22.10	22.11	22.04				
3	HQAM	1	14	22.10	22.05	22.05				
3	HQAM	8	0	20.75	20.85	20.88				
3	HQAM	8	4	20.88	20.83	20.88	22	2		
3	HQAM	8	7	20.89	20.84	20.87				
3	HQAM	15	0	20.91	20.92	20.84				
3	HQAM	1	0	20.90	20.89	20.92				
3	HQAM	1	8	21.01	20.98	20.92	22	2		
3	HQAM	1	14	21.05	21.00	21.01				
3	HQAM	8	0	19.93	19.98	19.90	21	3		
3	HQAM	8	4	19.87	19.88	19.86				
3	HQAM	15	0	19.95	19.89	19.91				
3	SSQAM	1	0	17.91	18.02	18.02				
3	SSQAM	1	8	17.78	17.94	17.92	19	5		
3	SSQAM	1	14	17.88	17.87	17.84				
3	SSQAM	8	0	17.89	18.04	17.94				
3	SSQAM	8	4	17.89	18.00	17.95	19	5		
3	SSQAM	8	7	17.83	18.07	17.92				
3	SSQAM	15	0	17.88	18.06	17.97				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.83	22.86	22.76				
1.4	QPSK	1	3	22.78	22.83	22.82	24	0		
1.4	QPSK	1	5	22.83	22.75	22.84				
1.4	QPSK	3	0	22.73	22.76	22.71				
1.4	QPSK	3	1	22.78	22.66	22.67	23	1		
1.4	QPSK	3	3	22.71	22.68	22.80				
1.4	QPSK	6	0	21.68	21.73	21.63	23	1		
1.4	HQAM	1	0	21.86	21.93	21.84				
1.4	HQAM	1	3	21.88	21.92	21.92				
1.4	HQAM	1	5	22.09	22.05	21.88	23	1		
1.4	HQAM	3	0	21.71	21.61	21.84				
1.4	HQAM	3	1	21.79	21.79	21.77				
1.4	HQAM	3	3	21.78	21.77	21.81				
1.4	HQAM	6	0	20.77	20.66	20.74	22	2		
1.4	HQAM	1	0	20.90	20.91	20.88				
1.4	HQAM	1	3	20.78	20.93	20.85				
1.4	HQAM	1	5	20.88	20.89	21.05	22	2		
1.4	HQAM	3	0	20.95	20.77	20.83				
1.4	HQAM	3	1	20.78	20.69	20.86				
1.4	HQAM	6	0	19.97	19.79	19.77	21	3		
1.4	SSQAM	1	0	17.82	17.87	17.79				
1.4	SSQAM	1	3	17.77	17.86	17.72	19	5		
1.4	SSQAM	1	5	17.83	17.77	17.78				
1.4	SSQAM	3	0	17.86	17.88	17.78				
1.4	SSQAM	3	1	17.78	17.82	17.85				
1.4	SSQAM	3	3	17.72	17.89	17.76				
1.4	SSQAM	6	0	17.89	17.88	17.81	19	5		

Band 12 Ant 4										
BW (MHz)	Modulation	RE Rate	RB Cnt	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tuneup Int (min)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.20	21.21	21.28				
10	QPSK	1	25	21.28	21.30	21.20	22	2		
10	QPSK	8	49	21.13	21.28	21.20				
10	QPSK	25	0	21.21	21.28	21.24				
10	QPSK	25	12	21.14	21.27	21.23	22	2		
10	QPSK	25	25	21.08	21.21	21.02				
10	QPSK	50	0	21.19	21.19	21.12				
10	HQAM	1	0	21.14	21.17	21.15	22	2		
10	HQAM	1	25	20.91	21.01	20.92				
10	HQAM	1	49	21.04	21.16	21.15				
10	HQAM	25	0	20.92	21.08	20.95				
10	HQAM	25	12	20.92	21.11	20.99	22	0.2		
10	HQAM	25	25	21.12	21.20	21.05				
10	HQAM	50	0	21.14	21.20	21.14				
10	HQAM	50	1	21.22	21.15	21.13				
10	HQAM	1	25	21.05	21.12	21.10	22	0.2		
10	HQAM	1	49	21.09	21.18	21.07				
10	HQAM	25	0	19.99	20.08	20.00				
10	HQAM	25	12	19.98						

Band 14_Ant 0									
BW (MHz)	Modulation	RE Res.	RB Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Timeup (min)	MFR (dB)	MFR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.85					
10	QPSK	1	25	21.84			23	0	
10	QPSK	1	49	21.79					
10	QPSK	25	0	21.80					
10	QPSK	25	12	21.85			23	0	
10	QPSK	25	25	21.83					
10	QPSK	50	0	21.86					
10	HQAM	1	0	21.87			23	0	
10	HQAM	1	25	21.84					
10	HQAM	1	49	21.88					
10	HQAM	25	0	20.95					
10	HQAM	25	12	20.98					
10	HQAM	25	25	20.91			22	1	
10	HQAM	50	0	20.93					
10	HQAM	1	0	21.01					
10	HQAM	1	25	21.92			22	1	
10	HQAM	1	49	20.99					
10	HQAM	25	0	19.91					
10	HQAM	25	12	19.98			21	2	
10	HQAM	25	25	19.86					
10	HQAM	50	0	19.92					
10	SSBAM	1	0	18.38					
10	SSBAM	1	25	18.59			19	4	
10	SSBAM	1	49	18.38					
10	SSBAM	25	0	18.28					
10	SSBAM	25	12	18.24			19	4	
10	SSBAM	25	25	18.24					
10	SSBAM	50	0	18.33					
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.84	21.81	21.89			
5	QPSK	1	12	21.73	21.79	21.77	23	0	
5	QPSK	1	24	21.66	21.76	21.69			
5	QPSK	12	0	21.87	21.89	21.86			
5	QPSK	12	7	21.72	21.84	21.74	23	0	
5	QPSK	12	13	21.77	21.75	21.78			
5	QPSK	25	0	21.80	21.83	21.79			
5	HQAM	1	0	21.78	21.79	21.84	23	0	
5	HQAM	1	12	21.80	21.81	21.82			
5	HQAM	1	24	21.78	21.81	21.75			
5	HQAM	12	0	20.84	20.93	20.87			
5	HQAM	12	7	20.95	20.72	20.85	22	1	
5	HQAM	12	13	20.87	20.82	20.88			
5	HQAM	25	0	20.86	20.87	20.82			
5	HQAM	1	0	20.95	20.99	20.85			
5	HQAM	1	12	20.89	20.87	20.87	22	1	
5	HQAM	1	24	20.94	20.85	20.87			
5	HQAM	12	0	19.79	19.79	19.87			
5	HQAM	12	7	19.87	19.75	19.82	21	2	
5	HQAM	12	13	19.74	19.69	19.78			
5	SSBAM	1	0	18.30	18.27	18.17			
5	SSBAM	1	12	18.25	18.27	18.17	19	4	
5	SSBAM	1	24	18.10	18.14	18.18			
5	SSBAM	12	0	18.27	18.18	18.25			
5	SSBAM	12	7	18.06	18.20	18.11			
5	SSBAM	12	13	18.13	18.14	18.08	19	4	
5	SSBAM	25	0	18.32	18.24	18.18			

Band 14_Ant 4									
BW (MHz)	Modulation	RE Res.	RB Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Timeup (min)	MFR (dB)	MFR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	30.72					
10	QPSK	1	25	30.69			21.7	0	
10	QPSK	1	49	30.55					
10	QPSK	25	0	30.84					
10	QPSK	25	12	30.82			21.7	0	
10	QPSK	25	25	30.69					
10	QPSK	50	0	30.55					
10	HQAM	1	0	30.83			21.7	0	
10	HQAM	1	25	30.85					
10	HQAM	1	49	30.89					
10	HQAM	25	0	30.86					
10	HQAM	25	12	30.88					
10	HQAM	25	25	30.89			21.7	0	
10	HQAM	50	0	30.85					
10	HQAM	1	0	30.92					
10	HQAM	1	25	30.59			21.7	0	
10	HQAM	1	49	30.83					
10	HQAM	25	0	19.83					
10	HQAM	25	12	19.89			21	0.7	
10	HQAM	25	25	19.84					
10	HQAM	50	0	19.97					
10	SSBAM	1	0	18.18					
10	SSBAM	1	25	18.55			19	2.7	
10	SSBAM	1	49	17.84					
10	SSBAM	25	0	18.02					
10	SSBAM	25	12	17.97			19	2.7	
10	SSBAM	25	25	17.97					
10	SSBAM	50	0	18.02					
Channel									
Frequency (MHz)									
5	QPSK	1	0	30.60	30.89	30.59			
5	QPSK	1	12	30.47	30.45	30.54	21.7	0	
5	QPSK	1	24	30.48	30.54	30.51			
5	QPSK	12	0	30.57	30.59	30.60			
5	QPSK	12	7	30.59	30.52	30.47	21.7	0	
5	QPSK	12	13	30.45	30.45	30.54			
5	QPSK	25	0	30.41	30.45	30.45			
5	HQAM	1	0	30.46	30.48	30.41	21.7	0	
5	HQAM	1	12	30.63	30.53	30.53			
5	HQAM	1	24	30.51	30.57	30.46			
5	HQAM	12	0	30.52	30.57	30.84			
5	HQAM	12	7	30.49	30.54	30.46	21.7	0	
5	HQAM	12	13	30.53	30.58	30.48			
5	HQAM	25	0	30.50	30.41	30.54			
5	HQAM	1	0	30.50	30.53	30.53			
5	HQAM	1	12	30.54	30.46	30.47	21.7	0	
5	HQAM	1	24	30.44	30.50	30.50			
5	HQAM	12	0	19.73	19.82	19.82			
5	HQAM	12	7	19.80	19.87	19.79	21	0.7	
5	HQAM	12	13	19.86	19.72	19.82			
5	SSBAM	1	0	17.99	18.03	17.95			
5	SSBAM	1	12	17.97	18.00	18.03	19	2.7	
5	SSBAM	1	24	17.84	17.82	17.85			
5	SSBAM	12	0	17.80	17.87	17.90			
5	SSBAM	12	7	17.96	18.00	17.97			
5	SSBAM	12	13	17.95	17.83	17.84	19	2.7	
5	SSBAM	25	0	17.96	17.91	17.98			

Band 17_Ant 0									
BW (MHz)	Modulation	RE Res.	RB Offset	Power Low Ch. (Freq)	Power Mid Ch. (Freq)	Power High Ch. (Freq)	Timeup (min)	MFR (dB)	MFR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.03	23.06	23.03			
10	QPSK	1	25	23.00	22.99	22.97	24	0	
10	QPSK	1	49	23.03	22.90	22.95			
10	QPSK	25	0	21.81	21.88	21.96			
10	QPSK	25	12	21.88	21.96	21.93	23	1	
10	QPSK	25	25	21.88	21.76	21.85			
10	QPSK	50	0	21.94	21.98	21.87			
10	HQAM	1	0	22.18	22.10	22.13	23	1	
10	HQAM	1	25	22.13	22.15	22.15			
10	HQAM	1	49	22.18	22.11	22.16			
10	HQAM	25	0	20.93	20.93	20.98			
10	HQAM	25	12	20.92	20.93	20.94			
10	HQAM	25	25	20.95	20.94	20.94	22	2	
10	HQAM	50	0	20.95	20.97	20.97			
10	HQAM	1	0	21.11	20.99	21.08			
10	HQAM	1	25	21.12	21.09	21.11	22	2	
10	HQAM	1	49	21.12	21.11	21.13			
10	HQAM	25	0	19.91	19.94	19.97			
10	HQAM	25	12	19.95	19.98	19.93	21	3	
10	HQAM	25	25	19.95	19.96	19.95			
10	HQAM	50	0	19.95	19.98	19.95			
10	SSBAM	1	0	17.90	18.03	17.94			
10	SSBAM	1	25	17.96	17.86	17.90	19	5	
10	SSBAM	1	49	17.93	17.88	17.90			
10	SSBAM	25	0	17.97	17.84	17.79			
10	SSBAM	25	12	17.96	17.83	17.83	19	5	
10	SSBAM	25	25	17.97	18.00	17.90			
10	SSBAM	50	0	17.80	17.88	17.86			
Channel									
Frequency (MHz)									
5	QPSK	1	0						



Band 25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Lch / Freq.	Power Mch / Freq.	Power Hch / Freq.	Turnup Int. (sec)	MFR (dB)	
Channel 1									
Frequency (MHz)									
20	QPSK	1	0	16.01	16.05	16.10			
20	QPSK	1	49	16.09	16.10	16.10	17	0	
20	QPSK	50	0	16.04	16.09	16.10			
20	QPSK	50	24	16.00	16.11	16.14	17	0	
20	QPSK	100	0	16.00	16.07	16.10			
20	16QAM	1	0	16.00	16.03	16.06			
20	16QAM	1	49	16.05	16.06	16.06	17	0	
20	16QAM	1	99	16.02	16.10	16.10			
20	16QAM	50	0	16.02	16.03	16.03			
20	16QAM	50	24	16.01	16.10	16.10	17	0	
20	16QAM	100	0	16.00	16.07	16.10			
20	84QAM	1	49	16.07	16.11	16.14	17	0	
20	84QAM	1	99	16.01	16.08	16.14			
20	84QAM	50	24	16.00	16.08	16.10	17	0	
20	84QAM	50	30	16.07	16.01	16.08			
20	84QAM	100	0	16.03	16.09	16.10			
20	256QAM	1	0	16.00	16.07	16.10			
20	256QAM	1	49	16.05	16.08	16.10	17	0	
20	256QAM	50	0	16.05	16.08	16.10			
20	256QAM	50	24	16.01	16.10	16.10	17	0	
20	256QAM	100	0	16.03	16.08	16.10			
Channel 2									
Frequency (MHz)									
16	QPSK	1	0	16.01	16.03	16.02			
16	QPSK	1	37	16.03	16.05	16.06	17	0	
16	QPSK	74	0	16.01	16.01	16.02			
16	QPSK	36	0	16.07	16.08	16.03			
16	QPSK	36	20	16.04	16.14	16.06	17	0	
16	QPSK	75	0	16.07	16.08	16.03			
16	QPSK	75	0	16.10	16.02	16.01			
16	16QAM	1	0	16.04	16.07	16.03			
16	16QAM	1	37	16.06	16.01	16.02	17	0	
16	16QAM	1	74	16.02	16.06	16.10			
16	16QAM	36	0	16.06	16.10	16.10			
16	16QAM	36	20	16.01	16.08	16.10	17	0	
16	16QAM	75	0	16.02	16.03	16.03			
16	16QAM	75	0	16.05	16.08	16.06			
16	84QAM	1	37	16.03	16.09	16.07	17	0	
16	84QAM	1	74	16.01	16.09	16.03			
16	84QAM	36	39	16.02	16.03	16.06			
16	84QAM	75	0	16.07	16.08	16.07			
16	84QAM	75	0	16.02	16.08	16.06			
16	84QAM	100	0	16.03	16.09	16.10			
16	84QAM	100	0	16.03	16.09	16.10			
16	256QAM	1	0	16.02	16.09	16.10			
16	256QAM	1	37	16.05	16.09	16.03	17	0	
16	256QAM	36	39	16.02	16.03	16.06			
16	256QAM	75	0	16.07	16.08	16.07			
16	256QAM	75	0	16.02	16.08	16.06			
Channel 3									
Frequency (MHz)									
10	QPSK	1	0	16.00	16.00	16.01			
10	QPSK	1	25	16.05	16.09	16.10	17	0	
10	QPSK	49	0	16.04	16.08	16.10			
10	QPSK	25	0	16.04	16.08	16.10			
10	QPSK	25	12	16.04	16.14	16.03	17	0	
10	QPSK	50	0	16.00	16.08	16.10			
10	QPSK	50	0	16.10	16.04	16.06			
10	16QAM	1	0	16.02	16.01	16.06			
10	16QAM	1	25	16.06	16.09	16.10	17	0	
10	16QAM	1	49	16.10	16.06	16.14			
10	16QAM	25	0	16.07	16.10	16.06			
10	16QAM	25	12	16.04	16.14	16.03	17	0	
10	16QAM	50	0	16.00	16.08	16.10			
10	16QAM	50	0	16.10	16.04	16.06			
10	84QAM	1	25	16.01	16.08	16.10	17	0	
10	84QAM	1	49	16.04	16.08	16.10			
10	84QAM	25	12	16.03	16.08	16.10	17	0	
10	84QAM	25	12	16.03	16.08	16.10			
10	84QAM	50	0	16.04	16.08	16.10			
10	84QAM	50	0	16.04	16.08	16.10			
10	256QAM	1	25	16.01	16.09	16.03	17	0	
10	256QAM	1	49	16.04	16.07	16.03			
10	256QAM	25	0	16.01	16.09	16.03			
10	256QAM	25	12	16.04	16.09	16.03	17	0	
10	256QAM	25	12	16.04	16.09	16.03			
10	256QAM	50	0	16.04	16.08	16.10			
10	256QAM	50	0	16.04	16.08	16.10			
Channel 4									
Frequency (MHz)									
5	QPSK	1	0	16.00	16.04	16.06			
5	QPSK	1	12	16.00	16.03	16.10	17	0	
5	QPSK	12	0	16.07	16.07	16.07			
5	QPSK	12	0	16.07	16.08	16.01			
5	QPSK	12	7	16.08	16.10	16.10	17	0	
5	QPSK	12	13	16.07	16.01	16.02			
5	QPSK	25	0	16.07	16.06	16.10			
5	16QAM	1	0	16.02	16.03	16.03			
5	16QAM	12	0	16.08	16.10	16.10	17	0	
5	16QAM	1	24	16.06	16.10	16.10			
5	16QAM	12	0	16.00	16.07	16.10			
5	16QAM	12	7	16.09	16.07	16.10	17	0	
5	16QAM	12	13	16.05	16.10	16.06			
5	16QAM	25	0	16.04	16.09	16.10			
5	84QAM	1	24	16.06	16.01	16.06	17	0	
5	84QAM	1	12	16.00	16.09	16.03			
5	84QAM	12	7	16.05	16.07	16.03	17	0	
5	84QAM	12	13	16.06	16.03	16.10			
5	84QAM	25	0	16.02	16.04	16.10			
5	256QAM	1	0	16.03	16.06	16.06			
5	256QAM	1	24	16.00	16.09	16.03	17	0	
5	256QAM	12	0	16.01	16.09	16.03			
5	256QAM	12	7	16.05	16.07	16.03	17	0	
5	256QAM	12	13	16.03	16.10	16.06			
5	256QAM	25	0	16.05	16.04	16.10			
Channel 5									
Frequency (MHz)									
3	QPSK	1	0	16.00	16.06	16.03			
3	QPSK	1	8	16.00	16.07	16.01	17	0	
3	QPSK	14	0	16.07	16.01	16.03			
3	QPSK	8	4	16.00	16.10	16.10			
3	QPSK	15	0	16.07	16.06	16.03			
3	16QAM	1	0	16.02	16.01	16.03			
3	16QAM	1	14	16.08	16.10	16.10	17	0	
3	16QAM	8	0	16.01	16.10	16.10			
3	16QAM	8	4	16.00	16.10	16.10			
3	16QAM	15	0	16.02	16.01	16.03			
3	16QAM	15	0	16.09	16.01	16.03	17	0	
3	84QAM	1	8	16.05	16.09	16.10			
3	84QAM	1	14	16.06	16.10	16.10	17	0	
3	84QAM	8	4	16.03	16.02	16.10			
3	84QAM	15	0	16.05	16.10	16.10			
3	256QAM	1	0	16.09	16.07	16.03			
3	256QAM	1	14	16.08	16.01	16.03	17	0	
3	256QAM	8	0	16.00	16.10	16.03			
3	256QAM	8	4	16.00	16.10	16.03	17	0	
3	256QAM	15	0	16.07	16.09	16.03			
Channel 6									
Frequency (MHz)									
1.4	QPSK	1	0	16.01	16.02	16.05			
1.4	QPSK	1	3	16.04	16.05	16.06	17	0	
1.4	QPSK	3	0	16.05	16.08	16.06			
1.4	QPSK	3	1	16.07	16.08	16.10			
1.4	QPSK	3	1	16.03	16.03	16.03			
1.4	16QAM	6	0	16.06	16.06	16.10	17	0	
1.4	16QAM	1	0	16.07	16.10	16.10			
1.4	16QAM	3	0	16.04	16.09	16.10			
1.4	16QAM	3	1	16.08	16.03	16.10	17	0	
1.4	16QAM	3	1	16.04	16.04	16.10			
1.4	16QAM	6	0	16.06	16.06	16.10			
1.4	16QAM	15	0	16.02	16.09	16.10			
1.4	84QAM	1	3	16.08	16.03	16.10	17	0	
1.4	84QAM	3	0	16.01	16.09	16.10			



Band 26(FCC)_Ant 4									
BW MHz	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MFR (dB)	
Channel									
Frequency MHz				20.15	20.15	20.15			
15	QPSK	1	0	20.03	20.14	20.12	21.2	0	
15	QPSK	1	37	20.05	20.07	20.03			
15	QPSK	1	74	20.07	20.09	20.05			
15	QPSK	36	0	20.07	20.10	20.05			
15	QPSK	36	20	19.94	20.02	19.94	21.2	0	
15	QPSK	36	39	19.98	20.03	19.98			
15	QPSK	75	0	19.98	20.06	19.98			
15	16QAM	1	0	20.00	20.07	20.01	21.2	0	
15	16QAM	1	37	20.01	20.03	19.99			
15	16QAM	1	74	20.09	20.12	19.98			
15	16QAM	36	0	19.98	20.02	19.98			
15	16QAM	36	20	19.97	20.05	19.99	21.2	0	
15	16QAM	36	39	19.87	20.02	19.98			
15	16QAM	75	0	20.05	20.12	20.00			
15	84QAM	1	37	20.08	20.09	20.02	21.2	0	
15	84QAM	1	74	20.09	20.14	20.04			
15	84QAM	36	0	19.91	20.05	19.91			
15	84QAM	36	20	20.00	20.05	19.95	21	0.2	
15	84QAM	36	39	19.97	20.11	20.10			
15	84QAM	75	0	20.09	20.13	20.00			
15	256QAM	1	0	18.14	18.15	18.05			
15	256QAM	1	37	17.93	18.08	17.99	19	2.2	
15	256QAM	1	74	18.17	18.19	18.11			
15	256QAM	36	0	17.99	18.07	17.98			
15	256QAM	36	39	18.14	18.18	18.14	19	2.2	
15	256QAM	36	75	18.04	18.10	17.98			
15	256QAM	75	0	18.02	18.08	17.97			
Channel									
Frequency MHz				20.140	20.090	20.090			
10	QPSK	1	0	20.03	20.14	20.12	21.2	0	
10	QPSK	1	25	19.90	19.97	19.91			
10	QPSK	1	49	20.12	20.04	19.97			
10	QPSK	25	0	20.06	20.04	19.97			
10	QPSK	25	12	19.79	19.87	19.85	21.2	0	
10	QPSK	25	25	19.98	20.00	19.94			
10	QPSK	50	0	19.92	20.00	19.84			
10	16QAM	1	0	19.90	20.04	19.88	21.2	0	
10	16QAM	1	25	19.90	20.00	19.90			
10	16QAM	1	49	20.07	20.02	19.87			
10	16QAM	25	0	19.85	19.88	19.86	21.2	0	
10	16QAM	25	12	19.92	19.90	19.85			
10	16QAM	25	25	19.78	19.95	19.98			
10	16QAM	50	0	19.98	20.02	20.00			
10	84QAM	1	0	19.92	20.07	19.91	21.2	0	
10	84QAM	1	25	20.05	19.95	19.95			
10	84QAM	1	49	20.02	19.96	19.97			
10	84QAM	25	0	20.02	19.96	19.97	21	0.2	
10	84QAM	25	12	19.93	19.93	19.94			
10	84QAM	25	25	20.04	20.02	19.97			
10	256QAM	1	0	18.05	18.02	17.90			
10	256QAM	1	25	17.85	18.04	17.81	19	2.2	
10	256QAM	1	49	18.15	18.14	18.11			
10	256QAM	25	0	17.90	17.98	17.95			
10	256QAM	25	12	17.94	18.08	17.84	19	2.2	
10	256QAM	50	0	17.99	18.08	17.89			
Channel									
Frequency MHz				20.115	20.090	20.090			
5	QPSK	1	0	20.12	20.06	20.02	21.2	0	
5	QPSK	1	12	19.93	20.05	20.02			
5	QPSK	1	24	19.97	20.02	20.01			
5	QPSK	12	0	19.97	20.03	20.01			
5	QPSK	12	7	19.92	19.87	19.90	21.2	0	
5	QPSK	12	14	19.88	19.98	19.90			
5	QPSK	25	0	19.84	19.96	19.95			
5	16QAM	1	0	19.88	20.06	19.86	21.2	0	
5	16QAM	1	12	19.92	19.96	19.84			
5	16QAM	1	24	19.98	20.05	19.89			
5	16QAM	12	0	19.92	19.97	19.83	21.2	0	
5	16QAM	12	7	19.87	19.91	19.85			
5	16QAM	12	13	19.74	19.94	19.98			
5	16QAM	25	0	19.95	20.10	20.00			
5	84QAM	1	0	19.94	20.06	19.94	21.2	0	
5	84QAM	1	12	20.03	20.08	19.97			
5	84QAM	1	24	19.95	20.12	19.98			
5	84QAM	12	0	19.85	19.97	19.78	21.2	0	
5	84QAM	12	7	19.91	19.92	19.91			
5	84QAM	12	13	19.92	20.02	19.99			
5	84QAM	25	0	19.99	19.95	19.95	21	0.2	
5	256QAM	1	0	18.11	18.09	17.92			
5	256QAM	1	12	17.88	17.97	17.78	19	2.2	
5	256QAM	1	24	18.14	18.14	18.11			
5	256QAM	12	0	17.87	17.95	17.84			
5	256QAM	12	7	18.09	18.07	18.01	19	2.2	
5	256QAM	12	13	17.93	18.08	17.97			
5	256QAM	25	0	17.92	18.05	17.84			
Channel									
Frequency MHz				20.105	20.085	20.090			
1.4	QPSK	1	0	20.06	20.07	20.14	21.2	0	
1.4	QPSK	1	8	19.91	20.03	19.90			
1.4	QPSK	1	14	19.94	20.10	19.90			
1.4	QPSK	8	0	19.97	20.09	20.02			
1.4	QPSK	8	4	19.82	19.87	19.91	21.2	0	
1.4	QPSK	8	7	19.94	19.92	19.85			
1.4	QPSK	15	0	19.92	20.00	19.92			
1.4	16QAM	1	0	19.92	19.96	19.94	21.2	0	
1.4	16QAM	1	8	19.85	19.97	19.85			
1.4	16QAM	1	14	20.03	20.05	19.90			
1.4	16QAM	8	0	19.92	19.94	19.78	21.2	0	
1.4	16QAM	8	4	19.87	19.95	19.92			
1.4	16QAM	8	7	19.78	19.88	19.94			
1.4	16QAM	15	0	19.99	20.01	19.90			
1.4	84QAM	1	0	19.97	19.99	19.84	21.2	0	
1.4	84QAM	1	8	20.04	19.99	19.98			
1.4	84QAM	1	14	20.04	20.12	19.92			
1.4	84QAM	8	0	19.78	19.85	19.90	21	0.2	
1.4	84QAM	8	4	19.90	20.02	19.92			
1.4	84QAM	8	7	19.85	19.99	20.08			
1.4	84QAM	15	0	19.98	20.05	19.95			
1.4	256QAM	1	0	17.99	18.12	18.00			
1.4	256QAM	1	8	17.78	18.04	17.95	19	2.2	
1.4	256QAM	1	14	18.11	18.17	18.05			
1.4	256QAM	8	0	17.94	18.05	17.84			
1.4	256QAM	8	4	18.02	18.07	18.10	19	2.2	
1.4	256QAM	8	7	18.03	18.03	17.93			
1.4	256QAM	15	0	17.89	18.04	17.83			
Channel									
Frequency MHz				20.097	20.085	20.090			
1.4	QPSK	1	0	20.00	20.16	20.13	21.2	0	
1.4	QPSK	1	5	20.01	20.04	20.00			
1.4	QPSK	3	0	19.95	19.99	19.98			
1.4	QPSK	3	1	19.90	19.90	19.93			
1.4	QPSK	3	3	19.96	20.02	19.86	21.2	0	
1.4	16QAM	1	0	19.85	19.94	19.87			
1.4	16QAM	1	3	19.99	19.92	19.85			
1.4	16QAM	1	5	19.97	20.00	19.84	21.2	0	
1.4	16QAM	3	0	19.88	19.90	19.80			
1.4	16QAM	3	1	19.88	19.95	19.82			
1.4	16QAM	3	3	19.78	19.95	19.91			
1.4	16QAM	6	0	19.89	20.08	19.90	21.2	0	
1.4	84QAM	1	0	20.01	20.11	20.00			
1.4	84QAM	1	3	20.02	19.99	20.01			
1.4	84QAM	1	5	20.03	19.99	19.90	21.2	0	
1.4	84QAM	3	0	19.88	19.94	19.85			
1.4	84QAM	3	1	19.99	19.97	19.88			
1.4	84QAM	3	3	19.90	19.99	19.91	21	0.2	
1.4	84QAM	6	0	20.06	20.03	19.91			
1.4	256QAM	1	0	18.03	18.04	17.93			
1.4	256QAM	1	5	17.86	18.04				

Band 38_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.10	20.13	20.17						
20	QPSK	1	49	19.98	20.05	19.97	21.4	0				
20	QPSK	1	99	20.05	20.07	19.96						
20	QPSK	50	0	19.99	20.10	20.01						
20	QPSK	50	24	19.97	20.06	20.01	21.4	0				
20	QPSK	50	50	19.95	19.98	19.98						
20	QPSK	100	0	19.98	20.08	20.02						
20	16QAM	1	0	20.00	20.06	19.96						
20	16QAM	1	49	19.93	19.96	19.90	21.4	0				
20	16QAM	1	99	19.93	20.07	20.05						
20	16QAM	50	0	19.94	20.02	19.94						
20	16QAM	50	24	19.90	20.05	19.92	21.4	0				
20	16QAM	50	50	19.98	20.06	19.98						
20	16QAM	100	0	19.86	19.96	19.85						
20	64QAM	1	0	19.61	19.73	19.60	21.4	0				
20	64QAM	1	49	19.72	19.80	19.69						
20	64QAM	1	99	19.59	19.71	19.60						
20	64QAM	50	0	19.67	19.74	19.63						
20	64QAM	50	24	19.66	19.72	19.58	21	0.4				
20	64QAM	50	50	19.73	19.75	19.71						
20	64QAM	100	0	19.74	19.80	19.75						
20	256QAM	1	0	17.72	17.80	17.85	19	2.4				
20	256QAM	1	49	17.68	17.73	17.69						
20	256QAM	1	99	17.70	17.79	17.78						
20	256QAM	50	0	17.55	17.68	17.64						
20	256QAM	50	24	17.66	17.69	17.60	19	2.4				
20	256QAM	50	50	17.64	17.76	17.70						
20	256QAM	100	0	17.63	17.72	17.67						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.05	20.08	20.06						
15	QPSK	1	37	19.87	20.03	19.93	21.4	0				
15	QPSK	1	74	20.02	19.99	19.83						
15	QPSK	38	0	19.84	19.95	19.96	21.4	0				
15	QPSK	38	29	19.87	19.93	19.86						
15	QPSK	38	59	19.78	19.83	19.80						
15	QPSK	75	0	19.91	19.97	19.98						
15	16QAM	1	0	19.89	19.94	19.92						
15	16QAM	1	37	19.86	19.95	19.78	21.4	0				
15	16QAM	1	74	19.92	19.92	19.80						
15	16QAM	38	0	19.87	19.95	19.95	21.4	0				
15	16QAM	38	20	19.85	19.92	19.84						
15	16QAM	38	39	19.85	19.98	19.91						
15	16QAM	75	0	19.82	19.91	19.71						
15	64QAM	1	0	19.55	19.58	19.57	21.4	0				
15	64QAM	1	37	19.62	19.70	19.61						
15	64QAM	1	74	19.56	19.61	19.48						
15	64QAM	38	0	19.65	19.65	19.61						
15	64QAM	38	20	19.65	19.62	19.54	21	0.4				
15	64QAM	38	39	19.61	19.65	19.63						
15	64QAM	75	0	19.72	19.65	19.61						
15	256QAM	1	0	17.67	17.72	17.56	19	2.4				
15	256QAM	1	37	17.67	17.67	17.59						
15	256QAM	1	74	17.61	17.69	17.63						
15	256QAM	38	0	17.52	17.64	17.54						
15	256QAM	38	20	17.54	17.57	17.49	19	2.4				
15	256QAM	38	39	17.57	17.72	17.56						
15	256QAM	75	0	17.48	17.59	17.52						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.05	19.99	19.97						
10	QPSK	1	25	19.86	19.97	19.89	21.4	0				
10	QPSK	1	49	19.92	19.99	19.82						
10	QPSK	25	0	19.82	20.04	19.96	21.4	0				
10	QPSK	25	12	19.88	19.94	19.87						
10	QPSK	25	25	19.70	19.95	19.85						
10	QPSK	50	0	19.87	20.07	19.97						
10	16QAM	1	0	19.98	19.96	19.95	21.4	0				
10	16QAM	1	25	19.87	19.92	19.82						
10	16QAM	25	0	19.90	19.91	19.76						
10	16QAM	25	12	19.82	19.94	19.84	21.4	0				
10	16QAM	25	25	19.97	20.01	19.88						
10	16QAM	50	0	19.83	19.92	19.84						
10	64QAM	1	0	19.58	19.71	19.56	21.4	0				
10	64QAM	1	25	19.71	19.70	19.57						
10	64QAM	1	49	19.48	19.58	19.56						
10	64QAM	25	0	19.52	19.63	19.49						
10	64QAM	25	12	19.61	19.71	19.44	21	0.4				
10	64QAM	25	25	19.61	19.74	19.56						
10	64QAM	50	0	19.67	19.72	19.68						
10	256QAM	1	0	17.68	17.67	17.60	19	2.4				
10	256QAM	1	25	17.67	17.67	17.66						
10	256QAM	1	49	17.68	17.67	17.60						
10	256QAM	25	0	17.49	17.61	17.49						
10	256QAM	25	12	17.52	17.74	17.60	19	2.4				
10	256QAM	25	25	17.61	17.71	17.54						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.07	20.11	19.96	21.4	0				
5	QPSK	1	12	19.86	19.92	19.95						
5	QPSK	1	24	19.91	19.94	19.91						
5	QPSK	12	0	19.84	20.05	19.87	21.4	0				
5	QPSK	12	7	19.84	19.94	19.95						
5	QPSK	12	13	19.70	19.83	19.86						
5	QPSK	25	0	19.87	19.98	19.91						
5	16QAM	1	0	19.98	20.02	19.94	21.4	0				
5	16QAM	1	12	19.93	19.97	19.86						
5	16QAM	1	24	19.87	20.02	20.04						
5	16QAM	12	0	19.91	19.89	19.85						
5	16QAM	12	7	19.78	19.95	19.83	21.4	0				
5	16QAM	12	13	19.96	19.91	19.94						
5	64QAM	1	0	19.54	19.62	19.45	21	0.4				
5	64QAM	1	12	19.62	19.67	19.59						
5	64QAM	1	24	19.48	19.63	19.57						
5	64QAM	12	0	19.61	19.66	19.61						
5	64QAM	12	7	19.55	19.59	19.45	21	0.4				
5	64QAM	12	13	19.58	19.73	19.68						
5	64QAM	25	0	19.70	19.68	19.64						
5	256QAM	1	0	17.65	17.77	17.53	19	2.4				
5	256QAM	1	12	17.59	17.70	17.57						
5	256QAM	1	24	17.66	17.67	17.56						
5	256QAM	12	0	17.58	17.67	17.56	19	2.4				
5	256QAM	12	7	17.58	17.59	17.52						
5	256QAM	12	13	17.61	17.65	17.50	19	2.4				
5	256QAM	25	0	17.52	17.65	17.47						

Band 41_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.16	20.17	20.17						
20	QPSK	1	49	20.03	20.02	20.09	20.01	20.33				
20	QPSK	1	99	20.01	19.94	20.10	19.93	20.24				
20	QPSK	50	0	20.11	20.05	20.29	20.02	20.26				
20	QPSK	50	24	20.08	19.96	20.03	19.91	20.23				
20	QPSK	50	50	20.03	19.94	20.10	19.92	20.15				
20	QPSK	100	0	19.97	20.00	20.25	19.97	20.23				
20	16QAM	1	0	20.00	19.94	20.03	19.95	20.26				
20	16QAM	1	49	19.98	20.03	20.02	19.93	20.25				
20	16QAM	1	99	19.98	20.07	20.08	19.98	20.17				
20	16QAM	50	0	20.07	20.05	20.14	19.96	20.26				
20	16QAM	50	24	20.04	19.95	20.10	19.95	20.27				
20	16QAM	50	50	20.09	20.01	20.14	19.87	20.26				
20	16QAM	100	0	20.07	20.05	20.06	19.88	20.24				
20	64QAM	1	0	19.76	19.62	19.65	19.73	19.68				
20	64QAM	1	49	19.66	19.67	19.76	19.65	19.72				
20	64QAM	1	99	19.71	19.67	19.83	19.72	19.66				
20	64QAM	50	0	19.65	19.73	19.65	19.65	19.68				
20	64QAM	50	24	19.71	19.67	19.62	19.76	19.66				
20	64QAM	50	50	19.63	19.72	19.72	19.67	19.63				
20	64QAM	100	0	19.70	19.75	19.65	19.63	19.66				
20	256QAM											

Band 48_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Low Middle Ch / Freq.	Power High Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55300	55830	56150	56680			
Frequency (MHz)				3550	3603	3644	3697			
20	QPSK	1	0	14.95	15.00	14.92	15.00			
20	QPSK	1	49	14.86	14.97	14.67	14.97	16		0
20	QPSK	1	99	14.94	14.95	14.62	14.87			
20	QPSK	50	0	14.95	15.03	14.70	15.01			
20	QPSK	50	24	14.90	14.94	14.63	14.92	16		0
20	QPSK	50	50	14.82	14.90	14.67	14.97			
20	QPSK	100	0	14.92	15.00	14.62	14.90			
20	16QAM	1	0	14.87	15.00	14.88	14.93			
20	16QAM	1	49	14.86	15.02	14.65	14.84	16		0
20	16QAM	1	99	14.84	14.94	14.62	14.89			
20	16QAM	50	0	14.92	14.97	14.64	14.91			
20	16QAM	50	24	14.93	14.96	14.65	14.84	16		0
20	16QAM	50	50	14.83	15.03	14.71	14.96			
20	16QAM	100	0	14.96	14.94	14.62	14.93			
20	64QAM	1	0	14.88	14.90	14.73	14.94			
20	64QAM	1	49	14.84	15.03	14.68	14.95	16		0
20	64QAM	1	99	14.82	14.92	14.67	14.95			
20	64QAM	50	0	14.86	15.03	14.66	14.85			
20	64QAM	50	24	14.94	14.90	14.68	14.92	16		0
20	64QAM	50	50	14.88	14.92	14.65	14.90			
20	64QAM	100	0	14.84	15.00	14.70	14.94			
20	256QAM	1	0	14.95	14.88	14.65	14.91			
20	256QAM	1	49	14.86	15.01	14.65	14.85	16		0
20	256QAM	1	99	14.83	14.92	14.67	14.92			
20	256QAM	50	0	14.85	14.95	14.63	14.86			
20	256QAM	50	24	14.96	15.00	14.73	14.89	16		0
20	256QAM	50	50	14.96	14.96	14.60	14.86			
20	256QAM	100	0	14.87	14.90	14.67	14.95			
Channel				55315	55820	56160	56665			
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	14.97	15.07	14.80	15.01			
15	QPSK	1	37	14.78	14.93	14.59	14.86	16		0
15	QPSK	1	74	14.82	14.81	14.59	14.79			
15	QPSK	36	0	14.86	14.99	14.60	14.87			
15	QPSK	36	20	14.82	14.78	14.58	14.87	16		0
15	QPSK	36	39	14.80	14.85	14.52	14.84			
15	QPSK	75	0	14.82	14.96	14.52	14.89			
15	16QAM	1	0	14.81	14.88	14.54	14.78			
15	16QAM	1	37	14.77	15.01	14.60	14.78	16		0
15	16QAM	1	74	14.73	14.83	14.58	14.76			
15	16QAM	36	0	14.90	14.86	14.62	14.85			
15	16QAM	36	20	14.79	14.98	14.65	14.79	16		0
15	16QAM	36	39	14.77	15.01	14.61	14.92			
15	16QAM	75	0	14.91	14.84	14.50	14.83			
15	64QAM	1	0	14.78	14.78	14.66	14.81			
15	64QAM	1	37	14.80	14.97	14.65	14.93	16		0
15	64QAM	1	74	14.82	14.87	14.55	14.92			
15	64QAM	36	0	14.74	14.91	14.63	14.83			
15	64QAM	36	20	14.68	14.75	14.53	14.81	16		0
15	64QAM	36	39	14.81	14.78	14.61	14.88			
15	64QAM	75	0	14.75	14.97	14.56	14.84			
15	256QAM	1	0	14.81	14.78	14.51	14.85			
15	256QAM	1	37	14.90	14.92	14.58	14.73	16		0
15	256QAM	1	74	14.82	14.84	14.60	14.89			
15	256QAM	36	0	14.74	14.88	14.59	14.72			
15	256QAM	36	20	14.62	14.89	14.67	14.78	16		0
15	256QAM	36	39	14.84	14.93	14.55	14.75			
15	256QAM	75	0	14.75	14.75	14.62	14.82			
Channel				55290	55815	56165	56660			
Frequency (MHz)				3555	3607.5	3642.5	3695			
10	QPSK	1	0	14.97	14.99	14.82	15.02			
10	QPSK	1	25	14.78	14.96	14.57	14.95	16		0
10	QPSK	1	49	14.79	14.89	14.54	14.73			
10	QPSK	25	0	14.82	14.96	14.62	14.97			
10	QPSK	25	12	14.78	14.92	14.53	14.80	16		0
10	QPSK	25	25	14.80	14.79	14.59	14.84			
10	QPSK	50	0	14.88	14.88	14.55	14.82			
10	16QAM	1	0	14.86	14.87	14.56	14.82			
10	16QAM	1	25	14.71	14.92	14.55	14.77	16		0
10	16QAM	1	49	14.81	14.89	14.58	14.77			
10	16QAM	25	0	14.86	14.93	14.50	14.86			
10	16QAM	25	12	14.85	14.91	14.65	14.78	16		0
10	16QAM	25	25	14.80	14.92	14.64	14.86			
10	16QAM	50	0	14.94	14.92	14.58	14.90			
10	64QAM	1	0	14.81	14.84	14.66	14.82			
10	64QAM	1	25	14.73	14.93	14.64	14.94	16		0
10	64QAM	1	49	14.78	14.85	14.56	14.92			
10	64QAM	25	0	14.75	14.92	14.60	14.79			
10	64QAM	25	12	14.79	14.86	14.58	14.77	16		0
10	64QAM	25	25	14.80	14.80	14.54	14.86			
10	64QAM	50	0	14.69	14.97	14.58	14.90			
10	256QAM	1	0	14.86	14.83	14.56	14.88			
10	256QAM	1	25	14.84	14.95	14.55	14.78	16		0
10	256QAM	1	49	14.71	14.87	14.57	14.77			
10	256QAM	25	0	14.81	14.87	14.53	14.77			
10	256QAM	25	12	14.83	14.86	14.61	14.82	16		0
10	256QAM	25	25	14.83	14.82	14.54	14.82			
10	256QAM	50	0	14.78	14.88	14.56	14.85			
Channel				55265	55810	56170	56715			
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	14.85	15.00	14.87	15.02			
5	QPSK	1	12	14.84	14.88	14.56	14.82	16		0
5	QPSK	1	24	14.89	14.83	14.50	14.77			
5	QPSK	12	0	14.84	14.95	14.61	15.00			
5	QPSK	12	7	14.82	14.87	14.62	14.78	16		0
5	QPSK	12	13	14.80	14.84	14.52	14.83			
5	QPSK	25	0	14.90	14.95	14.52	14.88			
5	16QAM	1	0	14.77	14.85	14.56	14.84			
5	16QAM	1	12	14.73	14.92	14.56	14.77	16		0
5	16QAM	1	24	14.83	14.89	14.61	14.85			
5	16QAM	12	0	14.83	14.88	14.63	14.79			
5	16QAM	12	7	14.84	14.94	14.57	14.75	16		0
5	16QAM	12	13	14.77	14.88	14.56	14.92			
5	64QAM	1	0	14.83	14.92	14.57	14.86			
5	64QAM	1	12	14.78	14.86	14.66	14.88	16		0
5	64QAM	1	24	14.80	15.02	14.54	14.91			
5	64QAM	1	24	14.90	14.87	14.60	14.92			
5	64QAM	12	0	14.74	14.98	14.52	14.73			
5	64QAM	12	7	14.87	14.86	14.55	14.85	16		0
5	64QAM	12	13	14.77	14.88	14.53	14.75			
5	64QAM	25	0	14.75	14.98	14.62	14.79			
5	256QAM	1	0	14.93	14.75	14.52	14.89			
5	256QAM	1	12	14.82	14.95	14.64	14.75	16		0
5	256QAM	1	24	14.81	14.86	14.59	14.81			
5	256QAM	12	0	14.79	14.90	14.58	14.79			
5	256QAM	12	7	14.95	14.89	14.68	14.76	16		0
5	256QAM	12	13	14.87	14.88	14.57	14.84			
5	256QAM	25	0	14.73	14.82	14.60	14.92			

Reduced Power Mode for ECI10

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.54	32.47	32.45	33.50	23.54	23.47	23.45	24.50
GPRS 1 Tx slot	32.52	32.41	32.31	33.50	23.52	23.41	23.31	24.50
GPRS 2 Tx slots	31.73	31.65	31.58	32.50	25.73	25.65	25.58	26.50
GPRS 3 Tx slots	29.93	29.91	29.84	30.50	25.67	25.65	25.58	26.24
GPRS 4 Tx slots	28.71	28.74	28.73	29.50	25.71	25.74	25.73	26.50
EDGE 1 Tx slot	28.95	27.28	27.34	28.50	17.95	18.28	18.34	19.50
EDGE 2 Tx slots	25.82	26.23	26.26	27.50	19.82	20.23	20.26	21.50
EDGE 3 Tx slots	23.76	24.08	24.15	25.50	19.50	19.82	19.89	21.24
EDGE 4 Tx slots	22.73	22.89	23.12	24.50	19.73	19.89	20.12	21.50

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1650.2	1660	1669.6		1650.2	1660	1669.6	
Frequency (MHz)	1650.2	1660	1669.6		1650.2	1660	1669.6	
GSM 1 Tx slot	29.72	29.74	29.82	30.50	20.72	20.74	20.82	21.50
GPRS 1 Tx slot	29.74	29.72	29.79	30.50	20.74	20.72	20.79	21.50
GPRS 2 Tx slots	27.60	27.63	27.56	28.50	21.60	21.63	21.56	22.50
GPRS 3 Tx slots	25.71	25.83	25.74	26.50	21.45	21.57	21.48	22.24
GPRS 4 Tx slots	24.52	24.67	24.58	25.50	21.52	21.67	21.58	22.50
EDGE 1 Tx slot	26.37	26.11	26.06	26.50	17.37	17.11	17.06	17.50
EDGE 2 Tx slots	25.33	25.09	24.95	25.50	19.33	19.09	18.95	19.50
EDGE 3 Tx slots	23.21	23.08	23.01	23.50	18.95	18.82	18.75	19.24
EDGE 4 Tx slots	22.10	21.95	21.94	22.50	19.10	18.95	18.94	19.50

Band	WCDMA II_Ant 0	Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 0			Tune-up Limit (dBm)			
			1312	1413	1513		4132	4182	4233				
TX Channel	9662	9400	9538										
Rx Channel	9662	9800	9938										
Frequency (MHz)	1852.4	1880	1907.6										
3GPP Rel 99	AMR 12.2Kbps	20.43	20.52	20.37	21.50	21.24	21.42	21.25	22.50	23.23	23.34	23.23	24.00
3GPP Rel 99	RMG 12.2Kbps	20.54	20.60	20.46	21.50	21.37	21.47	21.40	22.50	23.35	23.36	23.28	24.00
3GPP Rel 6	HSDPA Subtest-1	20.58	20.43	20.41	21.00	21.38	21.43	21.35	22.00	22.27	22.28	22.23	23.00
3GPP Rel 6	HSDPA Subtest-2	20.50	20.33	20.32	21.00	21.32	21.44	21.36	22.00	22.29	22.26	22.25	23.00
3GPP Rel 6	HSDPA Subtest-3	20.52	20.33	20.35	21.00	21.35	21.41	21.43	22.00	21.85	21.83	21.78	22.50
3GPP Rel 6	HSDPA Subtest-4	20.48	20.44	20.45	21.00	21.28	21.42	21.40	22.00	21.80	21.75	21.73	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	20.54	20.34	20.31	21.00	21.35	21.35	21.24	22.00	22.25	22.23	22.12	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	20.50	20.40	20.37	21.00	21.21	21.40	21.32	22.00	22.14	22.18	22.20	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	20.51	20.38	20.34	21.00	21.27	21.38	21.33	22.00	21.76	21.82	21.68	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	20.46	20.41	20.36	21.00	21.14	21.27	21.26	22.00	21.66	21.56	21.68	22.50
3GPP Rel 6	HSUPA Subtest-1	20.55	20.46	20.44	21.00	21.26	21.38	21.30	22.00	20.29	20.26	20.24	22.00
3GPP Rel 6	HSUPA Subtest-2	20.52	20.56	20.45	21.00	20.29	20.41	20.24	21.00	20.27	20.26	20.24	21.00
3GPP Rel 6	HSUPA Subtest-3	20.57	20.47	20.46	21.00	21.29	21.37	21.32	22.00	21.27	21.26	21.22	22.00
3GPP Rel 6	HSUPA Subtest-4	20.53	20.37	20.34	21.00	19.84	19.91	19.83	21.00	19.79	19.77	19.73	21.00
3GPP Rel 6	HSUPA Subtest-5	20.47	20.50	20.50	21.00	21.30	21.40	21.30	22.00	21.30	21.20	21.20	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.08	20.00	20.05	20.50	19.83	19.84	19.75	20.50	19.74	19.73	19.73	20.50



Band 2_Ant 0										
RF (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Time-up (min)	MTR (dB)		
Channel 1										
Fransing (MHz)										
20	QPSK	1	0	20.05	20.09	20.10				
20	QPSK	1	49	19.93	20.01	19.95		21	0	
20	QPSK	1	98	19.81	19.97	19.90				
20	QPSK	50	0	20.04	20.07	20.04				
20	QPSK	50	24	19.92	19.97	20.04		21	0	
20	QPSK	50	49	19.81	19.97	19.90				
20	QPSK	100	0	19.92	20.01	19.93				
20	HQAM	1	0	19.97	19.97	19.92		21	0	
20	HQAM	1	49	19.86	19.96	19.93				
20	HQAM	1	98	19.75	19.90	19.83				
20	HQAM	50	0	20.06	20.02	20.02				
20	HQAM	50	24	19.93	19.97	20.05		21	0	
20	HQAM	50	49	19.84	19.98	20.01				
20	HQAM	100	0	19.94	20.03	20.01				
20	HQAM	100	0	19.97	19.98	19.93				
20	HQAM	1	99	20.03	20.04	19.93		21	0	
20	HQAM	1	99	19.89	19.92	19.93				
20	HQAM	50	50	19.99	19.99	19.93		21	0	
20	HQAM	50	50	19.85	19.97	20.01				
20	HQAM	100	0	19.95	20.04	20.06				
20	HQAM	100	0	19.91	19.93	19.92				
20	ZSSBAM	1	0	17.85	17.84	17.82		19	2	
20	ZSSBAM	1	49	17.78	17.84	17.82				
20	ZSSBAM	1	98	17.71	17.81	17.83				
20	ZSSBAM	50	0	17.82	17.82	17.80		19	2	
20	ZSSBAM	50	24	17.74	17.84	17.80				
20	ZSSBAM	50	49	17.66	17.84	17.80				
20	ZSSBAM	100	0	17.85	17.84	17.81				
Channel 2										
Fransing (MHz)										
15	QPSK	1	0	20.02	20.07	19.95				
15	QPSK	1	47	19.92	20.00	19.90		21	0	
15	QPSK	1	94	19.81	19.91	19.83				
15	QPSK	36	0	19.97	19.97	20.00				
15	QPSK	36	20	19.91	19.98	20.03		21	0	
15	QPSK	36	40	19.81	19.98	19.93				
15	QPSK	78	0	19.79	20.00	19.78				
15	HQAM	1	0	19.92	19.95	19.95				
15	HQAM	1	47	19.83	19.97	19.87				
15	HQAM	1	74	19.74	19.94	19.83				
15	HQAM	36	0	19.93	20.00	19.90		21	0	
15	HQAM	36	20	19.88	20.05	20.00				
15	HQAM	36	40	19.85	20.05	20.00				
15	HQAM	78	0	19.84	19.95	19.97				
15	HQAM	78	0	19.89	19.92	19.90				
15	HQAM	1	77	19.83	19.94	19.83		21	0	
15	HQAM	1	74	19.72	19.91	19.80				
15	HQAM	36	36	19.86	19.94	19.86				
15	HQAM	36	56	19.87	19.98	19.91		21	0	
15	HQAM	36	56	19.75	19.93	19.86				
15	HQAM	78	78	19.85	19.95	19.85				
15	HQAM	78	78	19.71	17.74	17.78		19	2	
15	HQAM	78	78	17.86	17.86	17.86				
15	ZSSBAM	1	0	17.80	17.83	17.83				
15	ZSSBAM	1	47	17.71	17.86	17.83				
15	ZSSBAM	1	94	17.63	17.86	17.83				
15	ZSSBAM	36	0	17.80	17.87	17.80				
15	ZSSBAM	36	20	17.72	17.87	17.83				
15	ZSSBAM	36	40	17.65	17.87	17.83				
15	ZSSBAM	78	0	17.81	17.83	17.83				
Channel 3										
Fransing (MHz)										
10	QPSK	1	0	19.99	20.05	19.84				
10	QPSK	1	25	19.80	19.99	19.84		21	0	
10	QPSK	1	50	19.68	19.99	19.84				
10	QPSK	25	0	19.92	19.98	20.00				
10	QPSK	25	12	19.86	19.90	19.92		21	0	
10	QPSK	25	25	19.76	19.90	19.84				
10	QPSK	50	0	19.89	19.92	19.88				
10	HQAM	1	0	19.85	19.96	19.84		21	0	
10	HQAM	1	49	19.76	19.94	19.84				
10	HQAM	1	98	19.64	19.88	19.81				
10	HQAM	25	0	19.93	19.98	20.01				
10	HQAM	25	12	19.79	19.94	19.88				
10	HQAM	25	25	19.65	19.90	19.84				
10	HQAM	50	0	19.95	19.93	19.86		21	0	
10	HQAM	50	12	19.84	19.98	19.86				
10	HQAM	50	25	19.71	19.94	19.85				
10	HQAM	1	99	19.91	19.95	19.84		21	0	
10	HQAM	1	99	19.79	19.93	19.80				
10	HQAM	25	12	19.87	19.98	19.90		21	0	
10	HQAM	25	12	19.73	17.83	17.78		19	2	
10	HQAM	25	12	17.77	17.82	17.78				
10	ZSSBAM	1	0	17.77	17.85	17.81				
10	ZSSBAM	1	49	17.69	17.85	17.81				
10	ZSSBAM	1	99	17.61	17.84	17.83				
10	ZSSBAM	25	0	17.81	17.74	17.83				
Channel 4										
Fransing (MHz)										
5	QPSK	1	0	20.00	20.04	19.98				
5	QPSK	1	12	19.83	19.91	19.82		21	0	
5	QPSK	1	24	19.65	19.80	19.80				
5	QPSK	12	0	19.96	20.02	19.94				
5	QPSK	12	7	19.80	19.93	19.89		21	0	
5	QPSK	12	14	19.67	19.93	19.86				
5	QPSK	25	0	19.88	19.99	19.87				
5	HQAM	1	0	19.90	19.95	19.88		21	0	
5	HQAM	1	49	19.86	19.99	19.86				
5	HQAM	1	98	19.84	19.97	19.88				
5	HQAM	12	0	20.02	20.01	19.99				
5	HQAM	12	7	19.83	19.94	19.96				
5	HQAM	12	14	19.60	19.92	19.88				
5	HQAM	25	0	19.94	20.00	19.88		21	0	
5	HQAM	25	7	19.84	19.98	19.93				
5	HQAM	25	14	19.63	19.92	19.80				
5	HQAM	1	24	19.93	19.93	19.84		21	0	
5	HQAM	1	24	19.87	19.96	19.86				
5	HQAM	12	7	19.90	19.92	19.91		21	0	
5	HQAM	12	7	19.78	17.89	17.86		19	2	
5	HQAM	12	7	17.86	17.86	17.86				
5	ZSSBAM	1	0	17.80	17.89	17.87				
5	ZSSBAM	1	49	17.71	17.89	17.87				
5	ZSSBAM	1	98	17.63	17.89	17.87				
5	ZSSBAM	12	0	17.82	17.82	17.82				
5	ZSSBAM	12	7	17.73	17.82	17.88				
5	ZSSBAM	12	14	17.65	17.82	17.88				
5	ZSSBAM	25	0	17.81	17.81	17.88				
Channel 5										
Fransing (MHz)										
1.4	QPSK	1	0	20.05	20.03	19.98				
1.4	QPSK	1	3	19.92	19.96	19.94		21	0	
1.4	QPSK	1	6	19.84	19.94	19.84				
1.4	QPSK	3	0	20.02	19.93	19.96				
1.4	QPSK	3	1	19.90	19.85	19.98		21	0	
1.4	QPSK	3	1	19.89	19.85	19.90				
1.4	QPSK	6	0	19.86	19.99	19.84		21	0	
1.4	HQAM	1	0	19.91	19.95	19.84				
1.4	HQAM	1	3	19.87	19.97	19.86				
1.4	HQAM	1	6	19.83	19.93	19.87		21	0	
1.4	HQAM	3	0	20.01	19.98	20.00				
1.4	HQAM	3	1	19.87	19.95	19.90				
1.4	HQAM	3	1	19.81	20.01	19.98		21	0	
1.4	HQAM	6	0	19.95	19.97	19.87				
1.4	HQAM	6	1	19.93	19.94	19.91				
1.4	HQAM	1	3	20.02	19.91	19.81				
1.4	HQAM	1	3	19.86	19.91	19.78		21	0	
1.										



Band 13_Ant 0										
BW (MHz)	Modulation	RE Ch.	RB Ch.	Power Lk. (dB)	Power Mdn. Ch. (dB)	Power Hk. Ch. (dB)	Tuneup (dB)	MPR (dB)		
Channel 2350										
Frequency (MHz)										
10	QPSK	1	0	23.04						
10	QPSK	1	25	23.03			24	0		
10	QPSK	1	49	23.03						
10	QPSK	25	0	21.86						
10	QPSK	25	12	21.85			23	1		
10	QPSK	25	25	21.82						
10	QPSK	50	0	21.85						
10	HQAM	1	0	21.89			23	1		
10	HQAM	1	49	22.17						
10	HQAM	25	0	20.91						
10	HQAM	25	12	20.94						
10	HQAM	25	25	20.92			22	2		
10	HQAM	50	0	20.94						
10	HQAM	1	0	21.01						
10	HQAM	1	25	21.98			22	2		
10	HQAM	1	49	21.14						
10	HQAM	25	0	19.92						
10	HQAM	25	12	19.95			21	3		
10	HQAM	25	25	19.94						
10	SSBQAM	1	0	18.37						
10	SSBQAM	1	49	18.28			19	5		
10	SSBQAM	1	49	18.25						
10	SSBQAM	25	0	18.30						
10	SSBQAM	25	12	18.24			19	5		
10	SSBQAM	25	25	18.26						
10	SSBQAM	50	0	18.25						
Channel 2355										
Frequency (MHz)										
5	QPSK	1	0	22.84	22.87	22.92				
5	QPSK	1	12	22.89	22.92	22.91	24	0		
5	QPSK	1	24	22.82	22.88	22.90				
5	QPSK	12	0	21.84	21.85	21.90				
5	QPSK	12	7	21.80	21.83	21.93	23	1		
5	QPSK	12	13	21.88	21.85	21.77				
5	QPSK	25	0	21.82	21.82	21.89				
5	HQAM	1	0	21.84	21.84	21.89	23	1		
5	HQAM	1	12	22.01	22.05	22.10				
5	HQAM	1	24	22.10	22.15	22.11				
5	HQAM	12	0	20.87	20.90	20.80				
5	HQAM	12	7	20.89	20.86	20.82	22	2		
5	HQAM	12	13	20.82	20.84	20.80				
5	HQAM	25	0	20.75	20.88	20.87				
5	HQAM	1	0	21.01	21.01	21.05				
5	HQAM	1	12	21.07	21.03	21.07	22	2		
5	HQAM	1	24	21.07	20.99	21.01				
5	HQAM	12	0	19.82	19.90	19.87				
5	HQAM	12	7	19.87	19.89	19.94	21	3		
5	HQAM	12	13	19.81	19.85	19.86				
5	SSBQAM	1	0	18.20	18.23	18.24				
5	SSBQAM	1	12	18.22	18.20	18.20	19	5		
5	SSBQAM	1	24	18.10	18.20	18.13				
5	SSBQAM	12	0	18.10	18.18	18.22				
5	SSBQAM	12	7	18.10	18.23	18.29	19	5		
5	SSBQAM	12	13	18.15	18.18	18.14				
5	SSBQAM	25	0	18.20	18.22	18.12				

Band 14_Ant 0										
BW (MHz)	Modulation	RE Ch.	RB Ch.	Power Lk. (dB)	Power Mdn. Ch. (dB)	Power Hk. Ch. (dB)	Tuneup (dB)	MPR (dB)		
Channel 2355										
Frequency (MHz)										
10	QPSK	1	0	22.89						
10	QPSK	1	25	22.85			24	0		
10	QPSK	1	49	22.87						
10	QPSK	25	0	21.86						
10	QPSK	25	12	21.81			23	1		
10	QPSK	25	25	21.84						
10	QPSK	50	0	21.83						
10	HQAM	1	0	22.24			23	1		
10	HQAM	1	49	22.17						
10	HQAM	25	0	20.86						
10	HQAM	25	12	20.89						
10	HQAM	25	25	20.92			22	2		
10	HQAM	50	0	20.94						
10	HQAM	1	0	21.14						
10	HQAM	1	25	21.10			22	2		
10	HQAM	1	49	21.09						
10	HQAM	25	0	19.94						
10	HQAM	25	12	19.92			21	3		
10	HQAM	25	25	19.91						
10	HQAM	50	0	19.94						
10	SSBQAM	1	0	18.41						
10	SSBQAM	1	25	18.38			19	5		
10	SSBQAM	1	49	18.36						
10	SSBQAM	25	0	18.33						
10	SSBQAM	25	12	18.38			19	5		
10	SSBQAM	25	25	18.27						
10	SSBQAM	50	0	18.38						
Channel 2360										
Frequency (MHz)										
5	QPSK	1	0	22.88	22.80	22.93				
5	QPSK	1	12	22.88	22.84	22.91	24	0		
5	QPSK	1	24	22.82	22.88	22.86				
5	QPSK	12	0	21.81	21.84	21.88				
5	QPSK	12	7	21.83	21.83	21.76	23	1		
5	QPSK	12	13	21.81	21.82	21.80				
5	QPSK	25	0	21.82	21.85	21.83				
5	HQAM	1	0	22.13	22.21	22.10	23	1		
5	HQAM	1	12	22.03	22.03	22.11				
5	HQAM	1	24	22.01	22.00	22.04				
5	HQAM	12	0	20.85	20.81	20.86				
5	HQAM	12	7	20.84	20.89	20.78	22	2		
5	HQAM	12	13	20.84	20.80	20.78				
5	HQAM	25	0	20.93	20.85	20.81				
5	HQAM	1	0	21.00	21.12	21.11				
5	HQAM	1	12	21.07	20.95	21.02	22	2		
5	HQAM	1	24	21.03	21.00	20.94				
5	HQAM	12	0	19.83	19.83	19.87	21	3		
5	HQAM	12	7	19.87	19.89	19.81				
5	HQAM	12	13	19.85	19.85	19.79				
5	SSBQAM	1	0	18.20	18.24	18.26				
5	SSBQAM	1	12	18.24	18.25	18.27	19	5		
5	SSBQAM	1	24	18.24	18.27	18.26				
5	SSBQAM	12	0	18.21	18.18	18.23				
5	SSBQAM	12	7	18.26	18.23	18.23	19	5		
5	SSBQAM	12	13	18.12	18.16	18.17				
5	SSBQAM	25	0	18.25	18.29	18.23				

Band 17_Ant 0										
BW (MHz)	Modulation	RE Ch.	RB Ch.	Power Lk. (dB)	Power Mdn. Ch. (dB)	Power Hk. Ch. (dB)	Tuneup (dB)	MPR (dB)		
Channel 2370										
Frequency (MHz)										
10	QPSK	1	0	23.03	23.09	23.03				
10	QPSK	1	25	23.00	22.99	22.97	24	0		
10	QPSK	1	49	23.03	22.90	22.85				
10	QPSK	25	0	21.81	21.88	21.86				
10	QPSK	25	12	21.88	21.86	21.93	23	1		
10	QPSK	25	25	21.82	21.85	21.82				
10	QPSK	50	0	21.84	21.86	21.87				
10	HQAM	1	0	22.18	22.10	22.13	23	1		
10	HQAM	1	49	22.09	22.11	22.16				
10	HQAM	25	0	20.93	20.83	20.86				
10	HQAM	25	12	20.92	20.83	20.94				
10	HQAM	25	25	20.95	20.84	20.94	22	2		
10	HQAM	50	0	20.95	20.87	20.87				
10	HQAM	1	0	21.11	20.99	21.08				
10	HQAM	1	25	21.12	21.09	21.11	22	2		
10	HQAM	1	49	21.12	21.11	21.13				
10	HQAM	25	0	19.96	19.96	19.94				
10	HQAM	25	12	19.92	19.98	19.93	21	3		
10	HQAM	25	25	19.95	19.96	19.96				
10	SSBQAM	1	0	17.89	18.03	17.94				
10	SSBQAM	1	25	17.86	17.85	17.80	19	5		
10	SSBQAM	1	49	17.85	17.88	17.80				
10	SSBQAM	25	0	17.87	17.84	17.79				
10	SSBQAM	25	12	17.86	17.83					



Band 26(FCC)_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turn-up Int (dB)	MFR (dB)		
Channel 1: 811.5 811.5										
Frequency (MHz)										
16	QPSK	1	0	23.27	23.31	23.35	24	0		
15	QPSK	1	37	23.23	23.26	23.21				
14	QPSK	1	74	23.17	23.23	23.29				
13	QPSK	36	0	23.13	23.27	23.23				
15	QPSK	36	20	22.18	22.23	22.17	23	1		
16	QPSK	36	39	22.17	22.22	22.19				
16	QPSK	75	0	22.21	22.25	22.23				
15	16QAM	1	0	22.40	22.51	22.49	23	1		
15	16QAM	1	37	22.36	22.48	22.44				
15	16QAM	1	74	22.50	22.43	22.38				
15	16QAM	36	0	21.25	21.24	21.23				
15	16QAM	36	20	21.27	21.22	21.18	22	2		
15	16QAM	36	39	21.27	21.22	21.18				
15	16QAM	75	0	21.27	21.24	21.23				
15	16QAM	75	0	21.34	21.46	21.49				
15	16QAM	1	37	21.40	21.44	21.41	22	2		
15	16QAM	1	74	21.45	21.37	21.32				
15	16QAM	36	20	20.30	20.24	20.19	21	3		
15	16QAM	36	39	20.30	20.27	20.23				
15	16QAM	75	0	20.27	20.26	20.25				
15	256QAM	1	0	18.38	18.47	18.36				
15	256QAM	1	37	18.35	18.32	18.27	19	5		
15	256QAM	1	74	18.35	18.41	18.35				
15	256QAM	36	0	18.35	18.36	18.35				
15	256QAM	36	20	18.37	18.44	18.33	19	5		
15	256QAM	36	39	18.29	18.37	18.23				
15	256QAM	75	0	18.35	18.35	18.34				
Channel 2: 811.5 811.5										
Frequency (MHz)										
16	QPSK	1	0	23.15	23.21	23.17	24	0		
15	QPSK	1	25	23.13	23.20	23.09				
15	QPSK	1	49	23.12	23.05	23.12				
15	QPSK	25	0	22.15	22.19	22.20				
15	QPSK	25	12	22.09	22.12	22.14	23	1		
15	QPSK	25	25	22.07	22.12	22.13				
15	QPSK	50	0	22.15	22.18	22.08				
15	16QAM	1	0	22.32	22.48	22.48	23	1		
15	16QAM	1	25	22.31	22.33	22.33				
15	16QAM	1	49	22.49	22.42	22.38				
15	16QAM	25	0	21.14	21.18	21.10	22	2		
15	16QAM	25	12	21.13	21.20	21.08				
15	16QAM	25	25	21.17	21.19	21.05				
15	16QAM	50	0	21.13	21.19	21.08				
15	16QAM	50	12	21.30	21.45	21.38				
15	16QAM	1	25	21.34	21.33	21.30	22	2		
15	16QAM	1	49	21.36	21.31	21.19				
15	16QAM	25	0	20.21	20.18	20.13	21	3		
15	16QAM	25	12	20.23	20.18	20.18				
15	16QAM	50	25	20.27	20.14	20.10				
15	256QAM	1	0	18.37	18.45	18.32				
15	256QAM	1	25	18.35	18.32	18.13	19	5		
15	256QAM	1	49	18.33	18.36	18.13				
15	256QAM	36	0	18.20	18.28	18.31				
15	256QAM	36	12	18.22	18.32	18.23	19	5		
15	256QAM	25	25	18.19	18.32	18.12				
15	256QAM	50	0	18.22	18.20	18.24				
Channel 3: 811.5 811.5										
Frequency (MHz)										
5	QPSK	1	0	23.17	23.16	23.16	24	0		
5	QPSK	1	12	23.17	23.13	23.20				
5	QPSK	1	24	23.08	23.08	23.11				
5	QPSK	12	0	22.20	22.21	22.08				
5	QPSK	12	7	22.06	22.21	22.09	23	1		
5	QPSK	12	14	22.06	22.17	22.13				
5	QPSK	25	0	22.09	22.12	22.10				
5	16QAM	1	0	22.38	22.44	22.42	23	1		
5	16QAM	1	12	22.32	22.33	22.33				
5	16QAM	1	24	22.35	22.33	22.35				
5	16QAM	12	0	21.18	21.10	21.10	22	2		
5	16QAM	12	7	21.15	21.21	21.08				
5	16QAM	12	14	21.19	21.13	21.08				
5	16QAM	25	0	21.16	21.21	21.09				
5	16QAM	25	0	21.30	21.38	21.37				
5	16QAM	1	12	21.35	21.36	21.31	22	2		
5	16QAM	1	24	21.41	21.38	21.30				
5	16QAM	12	0	20.23	20.12	20.21	21	3		
5	16QAM	12	7	20.17	20.13	20.13				
5	16QAM	25	0	20.19	20.19	20.11	21	3		
5	16QAM	25	12	20.21	20.15	20.15				
5	256QAM	1	12	18.24	18.22	18.20	19	5		
5	256QAM	1	24	18.23	18.38	18.11				
5	256QAM	12	0	18.30	18.22	18.20				
5	256QAM	12	7	18.22	18.42	18.17	19	5		
5	256QAM	12	14	18.17	18.35	18.13				
5	256QAM	25	0	18.27	18.24	18.20				
5	256QAM	25	0	18.27	18.24	18.20				
Channel 4: 811.5 811.5										
Frequency (MHz)										
1.4	QPSK	1	0	23.17	23.07	23.03	24	0		
1.4	QPSK	1	3	22.98	23.16	22.93				
1.4	QPSK	1	5	23.00	23.12	23.03				
1.4	QPSK	3	0	22.99	23.15	23.03				
1.4	QPSK	3	1	22.93	23.01	23.07	23	1		
1.4	QPSK	3	3	23.04	22.93	22.95				
1.4	QPSK	6	0	21.93	22.08	21.96	23	1		
1.4	16QAM	1	0	22.30	22.31	22.32				
1.4	16QAM	1	3	22.23	22.38	22.33				
1.4	16QAM	1	5	22.34	22.20	22.25	23	1		
1.4	16QAM	3	0	22.14	21.97	22.09				
1.4	16QAM	3	1	22.12	22.12	21.94				
1.4	16QAM	3	3	21.99	22.06	21.96	22	2		
1.4	16QAM	6	0	21.12	20.96	20.97	22	2		
1.4	16QAM	6	0	21.18	21.26	21.20				
1.4	16QAM	1	3	21.25	21.28	21.23	22	2		
1.4	16QAM	1	5	21.26	21.28	21.20				
1.4	16QAM	3	0	21.10	21.10	21.04	22	2		
1.4	16QAM	3	1	21.08	21.05	21.11				
1.4	16QAM	6	0	20.08	20.03	20.07	21	3		
1.4	256QAM	1	0	18.21	18.28	18.17				
1.4	256QAM	1	1	18.20	18.22	18.17	19	5		
1.4	256QAM	1	3	18.07	18.13	18.03				
1.4	256QAM	3	0	18.15	18.16	18.14				
1.4	256QAM	3	1	18.15	18.26	18.13	19	5		
1.4	256QAM	6	0	18.12	18.17	18.21	19	5		

Band 66_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turn-up Int (dB)	MFR (dB)		
Channel 1: 13372 13372										
Frequency (MHz)										
20	QPSK	1	0	20.91	21.00	20.94	22	0		
20	QPSK	1	48	20.84	20.90	20.86				
20	QPSK	50	0	20.86	20.93	20.88				
20	QPSK	50	24	20.85	20.91	20.85	22	0		
20	QPSK	50	48	20.82	20.89	20.84				
20	QPSK	100	0	20.89	20.90	20.87				
20	16QAM	1	0	20.84	20.90	20.86	22	0		
20	16QAM	1	48	20.84	20.87	20.82				
20	16QAM	1	96	20.81	20.92	20.90				
20	16QAM	50	0	20.95	20.90	20.87				
20	16QAM	50	24	20.92	20.90	20.84	22	0		
20	16QAM	50	48	20.83	20.96	20.94				
20	16QAM	100	0	20.92	20.90	20.85				
20	16QAM	1	49	20.84	20.90	20.85	22	0		
20	16QAM	1	99	20.82	20.89	20.88				
2										

Reduced Power Mode for EC11

Band 7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	Ch Delta > 0.5
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.12	21.16	21.11	22	0	0.30
20	QPSK	1	49	20.90	21.04	20.89			
20	QPSK	1	99	20.89	20.86	20.91			
20	QPSK	50	0	20.89	21.01	20.93	22	0	0.20
20	QPSK	50	24	20.87	20.97	20.87			
20	QPSK	50	50	20.81	20.93	20.88			
20	QPSK	100	0	20.89	20.96	20.87	22	0	0.09
20	16QAM	1	0	21.07	21.06	21.01			
20	16QAM	1	49	21.01	21.06	21.10			
20	16QAM	1	99	21.06	21.06	21.08	22	0	0.07
20	16QAM	50	0	21.07	21.02	21.02			
20	16QAM	50	24	21.06	21.01	21.06			
20	16QAM	50	50	21.08	21.02	21.03	22	0	0.05
20	16QAM	100	0	21.06	21.04	21.05			
20	64QAM	1	0	21.05	21.05	21.07			
20	64QAM	1	49	21.05	21.06	21.02	22	0	0.19
20	64QAM	1	99	21.04	21.05	21.04			
20	64QAM	50	0	20.27	20.34	20.24			
20	64QAM	50	24	20.29	20.39	20.29	21	1	0.24
20	64QAM	50	50	20.30	20.43	20.33			
20	64QAM	100	0	20.28	20.37	20.28			
20	256QAM	1	0	17.84	17.95	17.86	19	3	0.23
20	256QAM	1	49	17.72	17.92	17.71			
20	256QAM	1	99	17.78	17.80	17.78			
20	256QAM	50	0	17.71	17.86	17.82	19	3	0.23
20	256QAM	50	24	17.73	17.94	17.84			
20	256QAM	50	50	17.83	17.93	17.71			
20	256QAM	100	0	17.74	17.80	17.79			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.79	20.96	20.98	22	0	0.23
15	QPSK	1	37	20.75	20.93	20.87			
15	QPSK	1	74	20.87	20.81	20.86			
15	QPSK	36	0	20.81	20.92	20.84	22	0	0.20
15	QPSK	36	20	20.78	20.95	20.81			
15	QPSK	36	39	20.78	20.79	20.75			
15	QPSK	75	0	20.78	20.88	20.86	22	0	0.11
15	16QAM	1	0	20.96	21.04	20.97			
15	16QAM	1	37	20.94	21.05	20.95			
15	16QAM	1	74	21.00	20.96	21.01	22	0	0.12
15	16QAM	36	0	20.97	20.96	21.00			
15	16QAM	36	20	20.91	21.00	20.98			
15	16QAM	36	39	21.03	20.97	20.97	22	0	0.15
15	16QAM	75	0	21.01	20.93	20.95			
15	64QAM	1	0	21.00	21.04	20.93			
15	64QAM	1	37	20.94	20.96	20.91	22	0	0.13
15	64QAM	1	74	20.89	20.90	20.96			
15	64QAM	36	0	20.21	20.21	20.23			
15	64QAM	36	20	20.24	20.29	20.19	21	1	0.31
15	64QAM	36	39	20.21	20.31	20.18			
15	64QAM	75	0	20.21	20.29	20.19			
15	256QAM	1	0	17.73	17.90	17.76	19	3	0.29
15	256QAM	1	37	17.60	17.91	17.68			
15	256QAM	1	74	17.68	17.67	17.71			
15	256QAM	36	0	17.59	17.83	17.70	19	3	0.25
15	256QAM	36	20	17.68	17.88	17.76			
15	256QAM	36	39	17.82	17.79	17.59			
15	256QAM	75	0	17.71	17.66	17.75			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	20.90	21.08	20.95	22	0	0.35
10	QPSK	1	25	20.88	20.93	20.77			
10	QPSK	1	49	20.74	20.73	20.84			
10	QPSK	25	0	20.86	21.00	20.84	22	0	0.21
10	QPSK	25	12	20.82	20.91	20.81			
10	QPSK	25	25	20.79	20.88	20.81			
10	QPSK	50	0	20.82	20.83	20.85	22	0	0.15
10	16QAM	1	0	21.02	21.05	20.96			
10	16QAM	1	25	20.90	21.00	20.97			
10	16QAM	1	49	20.96	20.99	20.93	22	0	0.17
10	16QAM	25	0	21.05	20.95	20.99			
10	16QAM	25	12	20.92	20.89	21.03			
10	16QAM	25	25	21.06	20.90	20.90	22	0	0.14
10	16QAM	50	0	20.92	21.01	20.96			
10	64QAM	1	0	20.91	21.01	21.05			
10	64QAM	1	25	20.99	20.91	20.93	22	0	0.18
10	64QAM	1	49	20.97	20.91	20.91			
10	64QAM	25	0	20.21	20.27	20.13			
10	64QAM	25	12	20.14	20.31	20.17	21	1	0.25
10	64QAM	25	25	20.21	20.29	20.28			
10	64QAM	50	0	20.16	20.28	20.23			
10	256QAM	1	0	17.72	17.86	17.71	19	3	0.25
10	256QAM	1	25	17.68	17.84	17.61			
10	256QAM	1	49	17.63	17.75	17.75			
10	256QAM	25	0	17.62	17.81	17.72	19	3	0.25
10	256QAM	25	12	17.64	17.81	17.79			
10	256QAM	25	25	17.70	17.87	17.64			
10	256QAM	50	0	17.72	17.76	17.66			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	20.86	20.94	20.97	22	0	0.20
5	QPSK	1	12	20.82	20.90	20.85			
5	QPSK	1	24	20.86	20.78	20.77			
5	QPSK	12	0	20.75	20.92	20.80	22	0	0.21
5	QPSK	12	7	20.75	20.96	20.86			
5	QPSK	12	13	20.80	20.91	20.77			
5	QPSK	25	0	20.77	20.95	20.83	22	0	0.13
5	16QAM	1	0	21.01	20.96	20.90			
5	16QAM	1	12	21.00	20.93	20.99			
5	16QAM	1	24	20.94	20.97	21.03	22	0	0.15
5	16QAM	12	0	20.93	20.97	20.95			
5	16QAM	12	7	21.00	20.98	21.06			
5	16QAM	12	13	20.98	21.01	20.91	22	0	0.13
5	16QAM	25	0	21.03	20.97	21.01			
5	64QAM	1	0	20.95	20.90	21.03			
5	64QAM	1	12	20.91	21.03	21.01	22	0	0.18
5	64QAM	1	24	21.00	20.94	20.92			
5	64QAM	12	0	20.21	20.24	20.14			
5	64QAM	12	7	20.19	20.32	20.28	21	1	0.27
5	64QAM	12	13	20.22	20.29	20.27			
5	64QAM	25	0	20.14	20.29	20.20			
5	256QAM	1	0	17.71	17.89	17.85	19	3	0.28
5	256QAM	1	12	17.65	17.85	17.62			
5	256QAM	1	24	17.75	17.79	17.66			
5	256QAM	12	0	17.65	17.84	17.72	19	3	0.28
5	256QAM	12	7	17.72	17.79	17.82			
5	256QAM	12	13	17.71	17.85	17.57			
5	256QAM	25	0	17.62	17.65	17.74			

Band 30_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	Ch Delta > 0.5
Channel				27710					
Frequency (MHz)				2310					
10	QPSK	1	0		20.12		21	0	0
10	QPSK	1	25		20.04				
10	QPSK	1	49		20.05				
10	QPSK	25	0		20.11		21	0	0
10	QPSK	25	12		19.98				
10	QPSK	25	25		20.10				
10	QPSK	50	0		20.08		21	0	0
10	16QAM	1	0		19.98				
10	16QAM	1	25		20.03				
10	16QAM	1	49		20.06		21	0	0
10	16QAM	25	0		20.05				
10	16QAM	25	12		20.04				
10	16QAM	25	25		20.03		21	0	0
10	16QAM	50	0		19.97				
10	64QAM	1	0		19.93				
10	64QAM	1	25		19.92		21	0	0
10	64QAM	1	49		19.98				
10	64QAM	25	0		20.02				
10	64QAM	25	12		19.98		21	0	0
10	64QAM	25	25		19.92				
10	64QAM	50	0		19.98				
10	256QAM	1	0		17.90		19	2	0
10	256QAM	1	25		17.87				
10	256QAM	1	49		17.84				
10	256QAM	25	0		17.87				



Band 38_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.98	22.92	22.94	23.9	0		
20	QPSK	1	49	22.39	22.52	22.51			23.9	0
20	QPSK	1	99	22.47	22.59	22.58				
20	QPSK	50	0	21.79	21.90	21.85			23	0.9
20	QPSK	50	24	21.76	21.78	21.74				
20	QPSK	50	50	21.85	21.87	21.73				
20	QPSK	100	0	21.80	21.86	21.85				
20	16QAM	1	0	21.75	21.79	21.89				
20	16QAM	1	49	21.79	21.86	21.81			23	0.9
20	16QAM	1	99	21.89	21.86	21.86				
20	16QAM	50	0	21.04	21.00	21.02				
20	16QAM	50	24	20.98	21.10	21.10			22	1.9
20	16QAM	50	50	21.07	21.13	21.15				
20	16QAM	100	0	21.10	21.06	21.03				
20	64QAM	1	0	20.74	20.69	20.76				
20	64QAM	1	49	20.85	20.82	20.97			22	1.9
20	64QAM	1	99	20.82	20.82	20.88				
20	64QAM	50	0	19.99	20.08	20.10				
20	64QAM	50	24	20.03	20.05	20.07			21	2.9
20	64QAM	50	50	20.05	20.13	20.01				
20	64QAM	100	0	20.06	20.06	20.14				
20	256QAM	1	0	17.27	17.44	17.38			19	4.9
20	256QAM	1	49	17.27	17.38	17.40				
20	256QAM	1	99	17.34	17.44	17.28				
20	256QAM	50	0	17.18	17.42	17.26			19	4.9
20	256QAM	50	24	17.16	17.42	17.36				
20	256QAM	50	50	17.22	17.35	17.41				
20	256QAM	100	0	17.19	17.44	17.35				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.54	22.51	22.51	23.9	0		
15	QPSK	1	37	22.30	22.61	22.42				
15	QPSK	1	74	22.46	22.44	22.32				
15	QPSK	38	0	21.86	21.84	21.80			23	0.9
15	QPSK	38	21	21.86	21.86	21.82				
15	QPSK	38	39	21.57	21.54	21.20				
15	QPSK	75	0	21.72	21.82	21.82				
15	16QAM	1	0	21.74	21.70	21.74				
15	16QAM	1	37	21.87	21.75	21.70			23	0.9
15	16QAM	1	74	21.74	21.75	21.78				
15	16QAM	38	0	20.93	20.93	20.92				
15	16QAM	38	20	20.96	21.03	21.02			22	1.9
15	16QAM	38	39	21.06	21.12	21.03				
15	16QAM	75	0	21.08	20.97	21.01				
15	64QAM	1	0	20.84	20.85	20.73			22	1.9
15	64QAM	1	37	20.84	20.85	20.88				
15	64QAM	1	74	20.69	20.80	20.84				
15	64QAM	38	0	19.91	19.97	20.02			21	2.9
15	64QAM	38	20	19.96	19.96	19.93				
15	64QAM	38	39	19.93	20.12	20.06				
15	64QAM	75	0	20.06	19.98	20.05				
15	256QAM	1	0	17.18	17.40	17.32			19	4.9
15	256QAM	1	37	17.16	17.35	17.27				
15	256QAM	1	74	17.29	17.32	17.16				
15	256QAM	38	0	17.10	17.36	17.22			19	4.9
15	256QAM	38	20	17.09	17.37	17.24				
15	256QAM	38	39	17.15	17.39	17.28				
15	256QAM	75	0	17.04	17.32	17.34				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.57	22.59	22.59	23.9	0		
10	QPSK	1	25	22.27	22.46	22.47				
10	QPSK	1	49	22.46	22.45	22.36				
10	QPSK	25	0	21.86	21.86	21.70			23	0.9
10	QPSK	25	12	21.88	21.75	21.71				
10	QPSK	25	25	21.53	21.66	21.72				
10	QPSK	50	0	21.75	21.72	21.71				
10	16QAM	1	0	21.84	21.86	21.88				
10	16QAM	1	25	21.86	21.82	21.81			23	0.9
10	16QAM	1	49	21.86	21.86	21.80				
10	16QAM	25	0	21.01	20.98	20.98				
10	16QAM	25	12	20.99	21.03	21.10			22	1.9
10	16QAM	25	25	21.00	21.07	21.08				
10	16QAM	50	0	20.97	20.96	21.07				
10	64QAM	1	0	20.76	20.73	20.79			22	1.9
10	64QAM	1	49	20.76	20.78	20.88				
10	64QAM	25	0	19.93	20.01	20.03			21	2.9
10	64QAM	25	12	19.99	20.01	20.08				
10	64QAM	25	25	20.05	19.98	20.01				
10	64QAM	50	0	20.05	20.13	20.01				
10	256QAM	1	0	17.52	17.61	17.53			19	4.9
10	256QAM	1	25	17.35	17.43	17.34				
10	256QAM	1	49	17.43	17.47	17.30				
10	256QAM	25	0	17.50	17.50	17.45			19	4.9
10	256QAM	25	12	17.46	17.43	17.38				
10	256QAM	25	25	17.45	17.51	17.37				
10	256QAM	50	0	17.46	17.51	17.37			19	4.9
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.40	22.42	22.52	23.9	0		
5	QPSK	1	12	22.38	22.38	22.35				
5	QPSK	1	24	22.25	22.50	22.38				
5	QPSK	12	0	21.75	21.85	22.03			23	0.9
5	QPSK	12	7	21.80	21.73	21.82				
5	QPSK	12	13	21.83	21.83	21.80				
5	QPSK	25	0	21.75	21.88	21.86				
5	16QAM	1	0	21.84	21.81	22.00			23	0.9
5	16QAM	1	12	21.82	21.89	21.93				
5	16QAM	1	24	21.81	21.84	22.02				
5	16QAM	12	0	20.97	20.97	21.00			22	1.9
5	16QAM	12	7	21.10	21.04	21.02				
5	16QAM	12	13	21.10	20.99	20.99				
5	64QAM	1	0	20.71	20.74	20.70			22	1.9
5	64QAM	1	12	20.76	20.62	20.90				
5	64QAM	1	24	20.81	20.75	20.89				
5	64QAM	12	0	19.99	19.92	20.10			21	2.9
5	64QAM	12	7	19.95	20.09	20.14				
5	64QAM	12	13	20.05	20.01	19.98				
5	64QAM	25	0	20.01	20.01	20.01				
5	256QAM	1	0	17.54	17.61	17.54			19	4.9
5	256QAM	1	12	17.36	17.56	17.40				
5	256QAM	1	24	17.37	17.50	17.31				
5	256QAM	12	0	17.44	17.44	17.39			19	4.9
5	256QAM	12	7	17.48	17.45	17.40				
5	256QAM	12	13	17.46	17.47	17.37				
5	256QAM	25	0	17.52	17.42	17.40			19	4.9

Band 41_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.45	22.54	22.56	23.9	0		
20	QPSK	1	49	22.47	22.46	22.49				
20	QPSK	1	99	22.38	22.52	22.53				
20	QPSK	50	0	21.96	21.97	22.06			23	0.9
20	QPSK	50	24	21.82	21.84	21.93				
20	QPSK	50	50	21.94	21.91	21.86				
20	QPSK	100	0	21.87	21.93	22.04				
20	16QAM	1	0	21.98	21.90	22.05				
20	16QAM	1	49	21.86	21.92	22.06			23	0.9
20	16QAM	1	99	21.96	21.95	22.06				
20	16QAM	50	0	21.05	21.05	21.15				
20	16QAM	50	24	21.17	21.08	21.10			22	1.9
20	16QAM	50	50	21.11	21.08	21.12				
20	1									



Band 66_Ant 4										
SVL MHz	Modulation	FE Type	FE Offset	Power Low Ch. 1/Freq.	Power High Ch. 1/Freq.	Power Low Ch. 2/Freq.	Power High Ch. 2/Freq.	Time to Set (min)	MFL (dB)	MFL (dB)
Channel										
Frequency (MHz)										
26	QPSK	1	0	17.92	18.12	17.92	18.12	10	0	
27	QPSK	1	0	17.92	18.12	17.92	18.12	10	0	
28	QPSK	1	0	17.92	18.12	17.92	18.12	10	0	
29	QPSK	24	24	17.94	18.02	17.92	18.02	10	0	
30	QPSK	100	0	18.08	18.12	18.00	18.00	10	0	
31	QPSK	1	0	18.08	18.12	18.08	18.12	10	0	
32	QPSK	50	50	18.00	18.12	18.00	18.12	10	0	
33	QPSK	50	24	18.00	18.04	18.04	18.04	10	0	
34	QPSK	100	0	18.00	18.08	18.00	18.08	10	0	
35	QPSK	100	0	18.00	18.08	18.00	18.08	10	0	
36	QPSK	1	0	18.00	18.04	18.00	18.04	10	0	
37	QPSK	1	0	18.00	18.04	18.00	18.04	10	0	
38	QPSK	24	24	17.98	18.02	17.92	18.02	10	0	
39	QPSK	100	0	17.98	18.02	17.92	18.02	10	0	
40	QPSK	100	0	17.98	18.02	17.92	18.02	10	0	
41	QPSK	1	0	17.98	18.02	17.98	18.02	10	0	
42	QPSK	1	0	17.98	18.02	17.98	18.02	10	0	
43	QPSK	24	24	17.92	18.00	17.92	18.00	10	0	
44	QPSK	100	0	17.92	18.00	17.92	18.00	10	0	
45	QPSK	100	0	17.92	18.00	17.92	18.00	10	0	
46	QPSK	1	0	17.92	18.00	17.92	18.00	10	0	
47	QPSK	1	0	17.92	18.00	17.92	18.00	10	0	
48	QPSK	24	24	17.86	17.94	17.86	17.94	10	0	
49	QPSK	100	0	17.86	17.94	17.86	17.94	10	0	
50	QPSK	100	0	17.86	17.94	17.86	17.94	10	0	
51	QPSK	1	0	17.86	17.94	17.86	17.94	10	0	
52	QPSK	1	0	17.86	17.94	17.86	17.94	10	0	
53	QPSK	24	24	17.80	17.88	17.80	17.88	10	0	
54	QPSK	100	0	17.80	17.88	17.80	17.88	10	0	
55	QPSK	100	0	17.80	17.88	17.80	17.88	10	0	
56	QPSK	1	0	17.80	17.88	17.80	17.88	10	0	
57	QPSK	1	0	17.80	17.88	17.80	17.88	10	0	
58	QPSK	24	24	17.74	17.82	17.74	17.82	10	0	
59	QPSK	100	0	17.74	17.82	17.74	17.82	10	0	
60	QPSK	100	0	17.74	17.82	17.74	17.82	10	0	
61	QPSK	1	0	17.74	17.82	17.74	17.82	10	0	
62	QPSK	1	0	17.74	17.82	17.74	17.82	10	0	
63	QPSK	24	24	17.68	17.76	17.68	17.76	10	0	
64	QPSK	100	0	17.68	17.76	17.68	17.76	10	0	
65	QPSK	100	0	17.68	17.76	17.68	17.76	10	0	
66	QPSK	1	0	17.68	17.76	17.68	17.76	10	0	
67	QPSK	1	0	17.68	17.76	17.68	17.76	10	0	
68	QPSK	24	24	17.62	17.70	17.62	17.70	10	0	
69	QPSK	100	0	17.62	17.70	17.62	17.70	10	0	
70	QPSK	100	0	17.62	17.70	17.62	17.70	10	0	
71	QPSK	1	0	17.62	17.70	17.62	17.70	10	0	
72	QPSK	1	0	17.62	17.70	17.62	17.70	10	0	
73	QPSK	24	24	17.56	17.64	17.56	17.64	10	0	
74	QPSK	100	0	17.56	17.64	17.56	17.64	10	0	
75	QPSK	100	0	17.56	17.64	17.56	17.64	10	0	
76	QPSK	1	0	17.56	17.64	17.56	17.64	10	0	
77	QPSK	1	0	17.56	17.64	17.56	17.64	10	0	
78	QPSK	24	24	17.50	17.58	17.50	17.58	10	0	
79	QPSK	100	0	17.50	17.58	17.50	17.58	10	0	
80	QPSK	100	0	17.50	17.58	17.50	17.58	10	0	
81	QPSK	1	0	17.50	17.58	17.50	17.58	10	0	
82	QPSK	1	0	17.50	17.58	17.50	17.58	10	0	
83	QPSK	24	24	17.44	17.52	17.44	17.52	10	0	
84	QPSK	100	0	17.44	17.52	17.44	17.52	10	0	
85	QPSK	100	0	17.44	17.52	17.44	17.52	10	0	
86	QPSK	1	0	17.44	17.52	17.44	17.52	10	0	
87	QPSK	1	0	17.44	17.52	17.44	17.52	10	0	
88	QPSK	24	24	17.38	17.46	17.38	17.46	10	0	
89	QPSK	100	0	17.38	17.46	17.38	17.46	10	0	
90	QPSK	100	0	17.38	17.46	17.38	17.46	10	0	
91	QPSK	1	0	17.38	17.46	17.38	17.46	10	0	
92	QPSK	1	0	17.38	17.46	17.38	17.46	10	0	
93	QPSK	24	24	17.32	17.40	17.32	17.40	10	0	
94	QPSK	100	0	17.32	17.40	17.32	17.40	10	0	
95	QPSK	100	0	17.32	17.40	17.32	17.40	10	0	
96	QPSK	1	0	17.32	17.40	17.32	17.40	10	0	
97	QPSK	1	0	17.32	17.40	17.32	17.40	10	0	
98	QPSK	24	24	17.26	17.34	17.26	17.34	10	0	
99	QPSK	100	0	17.26	17.34	17.26	17.34	10	0	
100	QPSK	100	0	17.26	17.34	17.26	17.34	10	0	
101	QPSK	1	0	17.26	17.34	17.26	17.34	10	0	
102	QPSK	1	0	17.26	17.34	17.26	17.34	10	0	
103	QPSK	24	24	17.20	17.28	17.20	17.28	10	0	
104	QPSK	100	0	17.20	17.28	17.20	17.28	10	0	
105	QPSK	100	0	17.20	17.28	17.20	17.28	10	0	
106	QPSK	1	0	17.20	17.28	17.20	17.28	10	0	
107	QPSK	1	0	17.20	17.28	17.20	17.28	10	0	
108	QPSK	24	24	17.14	17.22	17.14	17.22	10	0	
109	QPSK	100	0	17.14	17.22	17.14	17.22	10	0	
110	QPSK	100	0	17.14	17.22	17.14	17.22	10	0	
111	QPSK	1	0	17.14	17.22	17.14	17.22	10	0	
112	QPSK	1	0	17.14	17.22	17.14	17.22	10	0	
113	QPSK	24	24	17.08	17.16	17.08	17.16	10	0	
114	QPSK	100	0	17.08	17.16	17.08	17.16	10	0	
115	QPSK	100	0	17.08	17.16	17.08	17.16	10	0	
116	QPSK	1	0	17.08	17.16	17.08	17.16	10	0	
117	QPSK	1	0	17.08	17.16	17.08	17.16	10	0	
118	QPSK	24	24	17.02	17.10	17.02	17.10	10	0	
119	QPSK	100	0	17.02	17.10	17.02	17.10	10	0	
120	QPSK	100	0	17.02	17.10	17.02	17.10	10	0	
121	QPSK	1	0	17.02	17.10	17.02	17.10	10	0	
122	QPSK	1	0	17.02	17.10	17.02	17.10	10	0	
123	QPSK	24	24	16.96	17.04	16.96	17.04	10	0	
124	QPSK	100	0	16.96	17.04	16.96	17.04	10	0	
125	QPSK	100	0	16.96	17.04	16.96	17.04	10	0	
126	QPSK	1	0	16.96	17.04	16.96	17.04	10	0	
127	QPSK	1	0	16.96	17.04	16.96	17.04	10	0	
128	QPSK	24	24	16.90	16.98	16.90	16.98	10	0	
129	QPSK	100	0	16.90	16.98	16.90	16.98	10	0	
130	QPSK	100	0	16.90	16.98	16.90	16.98	10	0	
131	QPSK	1	0	16.90	16.98	16.90	16.98	10	0	
132	QPSK	1	0	16.90	16.98	16.90	16.98	10	0	
133	QPSK	24	24	16.84	16.92	16.84	16.92	10	0	
134	QPSK	100	0	16.84	16.92	16.84	16.92	10	0	
135	QPSK	100	0	16.84	16.92	16.84	16.92	10	0	
136	QPSK	1	0	16.84	16.92	16.84	16.92	10	0	
137	QPSK	1	0	16.84	16.92	16.84	16.92	10	0	
138	QPSK	24	24	16.78	16.86	16.78	16.86	10	0	
139	QPSK	100	0	16.78	16.86	16.78	16.86	10	0	
140	QPSK	100	0	16.78	16.86	16.78	16.86	10	0	
141	QPSK	1	0	16.78	16.86	16.78	16.86	10	0	
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Reduced Power Mode for EC13

Band 48_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low/Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.50	21.53	21.40	21.49	22.5	0
20	QPSK	1	49	21.45	21.44	21.37	21.39		
20	QPSK	1	99	21.38	21.46	21.29	21.44		
20	QPSK	50	0	21.42	21.51	21.39	21.48		
20	QPSK	50	24	21.39	21.49	21.29	21.45	22.5	0
20	QPSK	50	50	21.37	21.47	21.36	21.39		
20	QPSK	100	0	21.41	21.51	21.35	21.39		
20	16QAM	1	0	21.38	21.51	21.31	21.42		
20	16QAM	1	49	21.44	21.48	21.39	21.44	22.5	0
20	16QAM	1	99	21.37	21.46	21.30	21.39		
20	16QAM	50	0	21.49	21.44	21.32	21.44		
20	16QAM	50	24	21.43	21.42	21.30	21.42		
20	16QAM	50	50	21.39	21.51	21.30	21.40	22.5	0
20	16QAM	100	0	21.48	21.51	21.38	21.46		
20	64QAM	1	0	21.36	21.44	21.32	21.41		
20	64QAM	1	49	21.49	21.49	21.34	21.39		
20	64QAM	1	99	21.41	21.44	21.32	21.46	22.5	0
20	64QAM	50	0	19.60	19.65	19.51	19.59		
20	64QAM	50	24	19.60	19.67	19.68	19.56		
20	64QAM	50	50	19.64	19.71	19.65	19.62		
20	64QAM	100	0	19.55	19.64	19.62	19.57	21	1.5
20	256QAM	1	0	17.47	17.49	17.34	17.44		
20	256QAM	1	49	17.33	17.41	17.32	17.28		
20	256QAM	1	99	17.27	17.37	17.28	17.35		
20	256QAM	50	0	17.37	17.40	17.37	17.38	19	3.5
20	256QAM	50	24	17.33	17.38	17.33	17.25		
20	256QAM	50	50	17.36	17.45	17.34	17.31		
20	256QAM	100	0	17.35	17.38	17.31	17.27		
Channel				55315	55820	56160	56655		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	21.48	21.42	21.29	21.46	22.5	0
15	QPSK	1	37	21.34	21.42	21.35	21.34		
15	QPSK	1	74	21.36	21.40	21.15	21.34		
15	QPSK	36	0	21.41	21.40	21.27	21.47		
15	QPSK	36	20	21.36	21.48	21.15	21.31	22.5	0
15	QPSK	36	39	21.33	21.46	21.32	21.29		
15	16QAM	1	0	21.38	21.46	21.20	21.30		
15	16QAM	1	0	21.26	21.50	21.22	21.36		
15	16QAM	1	37	21.40	21.41	21.30	21.37	22.5	0
15	16QAM	1	74	21.29	21.40	21.23	21.38		
15	16QAM	36	0	21.46	21.34	21.23	21.33		
15	16QAM	36	20	21.41	21.32	21.28	21.35		
15	16QAM	36	39	21.34	21.46	21.26	21.35	22.5	0
15	16QAM	75	0	21.39	21.41	21.24	21.39		
15	64QAM	1	0	21.28	21.35	21.23	21.31		
15	64QAM	1	37	21.38	21.42	21.33	21.25		
15	64QAM	1	74	21.31	21.34	21.17	21.45	21	1.5
15	64QAM	36	0	19.49	19.54	19.48	19.56		
15	64QAM	36	20	19.55	19.65	19.48	19.45		
15	64QAM	36	39	19.56	19.57	19.64	19.58		
15	64QAM	75	0	19.42	19.59	19.62	19.49	19	3.5
15	256QAM	1	0	17.36	17.39	17.32	17.29		
15	256QAM	1	37	17.24	17.34	17.22	17.16		
15	256QAM	1	74	17.19	17.31	17.20	17.25		
15	256QAM	36	0	17.23	17.38	17.32	17.29	19	3.5
15	256QAM	36	20	17.25	17.34	17.21	17.19		
15	256QAM	36	39	17.27	17.31	17.26	17.23		
15	256QAM	75	0	17.24	17.33	17.17	17.13		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.37	21.46	21.25	21.44	22.5	0
10	QPSK	1	25	21.30	21.39	21.33	21.28		
10	QPSK	1	49	21.25	21.38	21.28	21.37		
10	QPSK	25	0	21.30	21.45	21.34	21.43		
10	QPSK	25	12	21.37	21.47	21.18	21.30	22.5	0
10	QPSK	25	25	21.33	21.35	21.32	21.37		
10	QPSK	50	0	21.26	21.39	21.27	21.26		
10	16QAM	1	0	21.27	21.44	21.16	21.41		
10	16QAM	1	25	21.34	21.44	21.38	21.40	22.5	0
10	16QAM	1	49	21.27	21.41	21.22	21.34		
10	16QAM	25	0	21.46	21.30	21.30	21.37		
10	16QAM	25	12	21.34	21.27	21.25	21.27		
10	16QAM	25	25	21.28	21.37	21.26	21.35	22.5	0
10	16QAM	25	0	21.36	21.50	21.33	21.31		
10	64QAM	1	0	21.23	21.32	21.30	21.29		
10	64QAM	1	25	21.41	21.38	21.25	21.35		
10	64QAM	1	49	21.32	21.43	21.30	21.35	21	1.5
10	64QAM	25	0	19.50	19.58	19.39	19.54		
10	64QAM	25	12	19.48	19.54	19.56	19.53		
10	64QAM	25	25	19.58	19.60	19.62	19.49		
10	64QAM	50	0	19.43	19.51	19.51	19.53	19	3.5
10	256QAM	1	0	17.45	17.39	17.29	17.33		
10	256QAM	1	25	17.28	17.35	17.30	17.20		
10	256QAM	1	49	17.22	17.36	17.25	17.26		
10	256QAM	25	0	17.35	17.39	17.27	17.34	19	3.5
10	256QAM	25	12	17.20	17.36	17.19	17.23		
10	256QAM	25	25	17.32	17.36	17.28	17.23		
10	256QAM	50	0	17.24	17.32	17.30	17.17		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.41	21.51	21.27	21.34	22.5	0
5	QPSK	1	12	21.39	21.42	21.36	21.38		
5	QPSK	1	24	21.34	21.31	21.19	21.41		
5	QPSK	12	0	21.31	21.46	21.28	21.36		
5	QPSK	12	7	21.24	21.43	21.27	21.42	22.5	0
5	QPSK	12	13	21.24	21.34	21.24	21.32		
5	QPSK	25	0	21.36	21.37	21.23	21.35		
5	16QAM	1	0	21.29	21.37	21.24	21.34		
5	16QAM	1	12	21.41	21.35	21.35	21.39	22.5	0
5	16QAM	1	24	21.29	21.42	21.26	21.36		
5	16QAM	12	0	21.35	21.42	21.22	21.36		
5	16QAM	12	7	21.28	21.39	21.21	21.40		
5	16QAM	12	13	21.31	21.36	21.28	21.26	22.5	0
5	16QAM	25	0	21.47	21.39	21.29	21.31		
5	64QAM	1	0	21.28	21.34	21.20	21.27		
5	64QAM	1	12	21.37	21.40	21.32	21.34		
5	64QAM	1	24	21.38	21.38	21.21	21.44	21	1.5
5	64QAM	12	0	19.48	19.57	19.43	19.49		
5	64QAM	12	7	19.49	19.66	19.44	19.48		
5	64QAM	12	13	19.58	19.68	19.55	19.61		
5	64QAM	25	0	19.51	19.49	19.50	19.45	19	3.5
5	256QAM	1	0	17.32	17.46	17.29	17.29		
5	256QAM	1	12	17.31	17.32	17.18	17.22		
5	256QAM	1	24	17.20	17.25	17.25	17.23		
5	256QAM	12	0	17.27	17.33	17.24	17.34	19	3.5
5	256QAM	12	7	17.27	17.26	17.24	17.12		
5	256QAM	12	13	17.32	17.34	17.33	17.23		
5	256QAM	25	0	17.22	17.31	17.23	17.17		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	22.76	22.78	22.85			
40	Pi2 BPSK	1	108	22.68	22.82	22.78	24.0	0.0	
40	Pi2 BPSK	1	214	22.58	22.73	22.70			
40	Pi2 BPSK	108	0	22.97	22.43	22.38	23.5	0.5	
40	Pi2 BPSK	108	54	22.85	22.92	22.87	24.0	0.0	
40	Pi2 BPSK	108	108	22.37	22.43	22.35	23.5	0.5	
40	Pi2 BPSK	216	0	22.34	22.41	22.30			
40	QPSK	1	1	22.97	23.02	22.98			
40	QPSK	1	108	22.98	22.98	22.92	24.0	0.0	
40	QPSK	1	214	22.77	22.83	22.74			
40	QPSK	108	0	21.78	21.88	21.80	23.0	1.0	
40	QPSK	108	54	22.88	22.89	22.87	24.0	0.0	
40	QPSK	108	108	21.83	21.84	21.83	23.0	1.0	
40	QPSK	216	0	21.75	21.85	21.71	23.0	1.0	
40	16QAM	1	1	21.62	21.64	21.53	23.0	1.0	
40	64QAM	1	1	20.05	20.11	20.01	21.5	2.5	
40	256QAM	1	1	18.68	18.72	18.61	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.95	22.90	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.84	23.01	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.89	22.95	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.92	23.00	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.84	22.98	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.93	22.93	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.93	22.87	24.0	0.0	

Full & Default Power									
n2_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	22.93	23.02	22.89			
40	Pi2 BPSK	1	108	23.02	23.06	22.95	24.0	0.0	
40	Pi2 BPSK	1	214	22.84	22.97	22.93			
40	Pi2 BPSK	108	0	22.93	22.66	22.97	23.5	0.5	
40	Pi2 BPSK	108	54	23.02	23.15	23.08	24.0	0.0	
40	Pi2 BPSK	108	108	22.90	22.65	22.95	23.5	0.5	
40	Pi2 BPSK	216	0	22.59	22.67	22.58			
40	QPSK	1	1	23.14	23.19	23.15			
40	QPSK	1	108	23.08	23.13	23.06	24.0	0.0	
40	QPSK	1	214	23.06	23.08	22.97			
40	QPSK	108	0	21.98	22.13	22.04	23.0	1.0	
40	QPSK	108	54	22.98	23.11	23.05	24.0	0.0	
40	QPSK	108	108	21.97	22.06	21.96	23.0	1.0	
40	QPSK	216	0	22.00	22.08	22.06	23.0	1.0	
40	16QAM	1	1	21.72	21.87	21.84	23.0	1.0	
40	64QAM	1	1	20.32	20.35	20.20	21.5	2.5	
40	256QAM	1	1	18.94	18.98	18.94	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.02	23.15	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.04	23.05	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.07	23.10	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.03	23.15	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.00	23.04	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.02	23.07	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.12	23.16	23.04	24.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 166800	Power Middle Ch. F Freq. 167500	Power High Ch. F Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pi2 BPSK	1	1	22.67	22.81	22.70			
20	Pi2 BPSK	1	53	22.71	22.85	22.78	24.0	0.0	
20	Pi2 BPSK	1	104	22.67	22.79	22.68			
20	Pi2 BPSK	50	0	22.48	22.50	22.41	23.5	0.5	
20	Pi2 BPSK	50	28	22.92	22.99	22.92	24.0	0.0	
20	Pi2 BPSK	50	56	22.46	22.48	22.40	23.5	0.5	
20	Pi2 BPSK	100	0	22.42	22.45	22.43			
20	QPSK	1	1	22.95	23.03	22.81			
20	QPSK	1	53	22.92	23.01	22.88	24.0	0.0	
20	QPSK	1	104	22.84	22.88	22.80			
20	QPSK	50	0	21.81	21.93	21.81	23.0	1.0	
20	QPSK	50	28	22.84	22.84	22.80	24.0	0.0	
20	QPSK	50	56	21.75	21.87	21.77	23.0	1.0	
20	QPSK	100	0	21.83	21.80	21.79	23.0	1.0	
20	16QAM	1	1	21.70	21.84	21.83	23.0	1.0	
20	64QAM	1	1	20.24	20.32	20.30	21.5	2.5	
20	256QAM	1	1	18.83	18.95	18.85	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.81	22.84	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.97	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.95	22.96	22.76	24.0	0.0	



n5_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 16650	Power Middle Ch. Freq. 16730	Power High Ch. Freq. 16780	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	22.75	22.93	22.92			
20	PI2 BPSK	1	53	22.87	22.86	22.82	24.0	0.0	
20	PI2 BPSK	1	104	22.75	22.88	22.73			
20	PI2 BPSK	50	0	22.58	22.60	22.48	23.5	0.5	
20	PI2 BPSK	50	28	23.08	23.07	23.04	24.0	0.0	
20	PI2 BPSK	50	56	22.55	22.57	22.53	23.5	0.5	
20	PI2 BPSK	100	0	22.47	22.57	22.52			
20	QPSK	1	1	23.01	23.09	23.05			
20	QPSK	1	53	23.01	23.02	22.89	24.0	0.0	
20	QPSK	1	104	22.98	22.96	22.91			
20	QPSK	50	0	22.90	22.94	21.89	23.0	1.0	
20	QPSK	50	28	22.95	23.03	22.97	24.0	0.0	
20	QPSK	50	56	21.93	21.98	21.88			
20	QPSK	100	0	21.94	22.01	21.98	23.0	1.0	
20	16QAM	1	1	21.76	21.80	21.67	23.0	1.0	
20	64QAM	1	1	20.11	20.25	20.14	21.5	2.5	
20	256QAM	1	1	18.81	18.85	18.76	19.5	4.5	
Channel				16630	16730	16830	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.82	22.97	22.87	24.0	0.0	
Channel				16580	16730	16880	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.95	23.03	22.92	24.0	0.0	
Channel				16530	16730	16930	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.00	22.98	22.83	24.0	0.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 50550	Power Middle Ch. Freq. 50700	Power High Ch. Freq. 50950	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545			
Frequency (MHz)									
50	PI2 BPSK	1	1	23.07	23.19	23.04			
50	PI2 BPSK	1	116	23.09	23.24	23.17	24.0	0.0	
50	PI2 BPSK	1	208	22.99	23.14	23.08			
50	PI2 BPSK	135	0	22.70	22.85	22.73	23.5	0.5	
50	PI2 BPSK	135	68	23.10	23.24	23.19	24.0	0.0	
50	PI2 BPSK	135	135	22.72	22.83	22.69	23.5	0.5	
50	PI2 BPSK	270	0	22.80	22.81	22.68			
50	QPSK	1	1	23.28	23.34	23.23			
50	QPSK	1	135	23.24	23.27	23.17	24.0	0.0	
50	QPSK	1	268	23.14	23.22	23.08			
50	QPSK	135	0	22.31	22.52	22.23	23.0	1.0	
50	QPSK	135	68	23.25	23.32	23.25	24.0	0.0	
50	QPSK	135	135	22.17	22.27	22.22			
50	QPSK	270	0	22.29	22.24	22.17	23.0	1.0	
50	16QAM	1	1	22.02	22.07	21.93	23.0	1.0	
50	64QAM	1	1	20.48	20.52	20.43	21.5	2.5	
50	256QAM	1	1	19.06	19.13	19.09	19.5	4.5	
Channel				50400	50700	51000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	23.15	23.25	23.17	24.0	0.0	
Channel				50350	50700	51050	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
35	QPSK	1	1	23.23	23.19	23.12	24.0	0.0	
Channel				50300	50700	51100	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	23.18	23.20	23.17	24.0	0.0	
Channel				25125	2535	2557.5	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	23.15	23.33	23.19	24.0	0.0	
Channel				50200	50700	51200	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	23.18	23.26	23.10	24.0	0.0	
Channel				50150	50700	51250	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	23.25	23.20	23.10	24.0	0.0	
Channel				50100	50700	51300	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	23.27	23.32	23.17	24.0	0.0	
Channel				50050	50700	51350	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.23	23.27	23.19	24.0	0.0	

n12_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 141500	Power Middle Ch. Freq. 141500	Power High Ch. Freq. 141700	Tune-up limit (dBm)	MPR (dB)	
Channel				705.5	707.5	708.5			
Frequency (MHz)									
15	PI2 BPSK	1	1	22.86	22.88	22.75			
15	PI2 BPSK	1	40	22.81	22.84	22.83	24.0	0.0	
15	PI2 BPSK	1	77	22.75	22.81	22.74			
15	PI2 BPSK	36	0	22.39	22.54	22.50	23.5	0.5	
15	PI2 BPSK	36	22	22.83	22.91	22.84	24.0	0.0	
15	PI2 BPSK	36	43	22.47	22.51	22.47	23.5	0.5	
15	PI2 BPSK	75	0	22.41	22.52	22.38			
15	QPSK	1	1	22.95	23.03	22.99			
15	QPSK	1	40	22.89	22.86	22.82	24.0	0.0	
15	QPSK	1	77	22.85	22.82	22.81			
15	QPSK	36	0	21.93	21.97	21.89	23.0	1.0	
15	QPSK	36	22	22.76	22.87	22.84	24.0	0.0	
15	QPSK	36	43	21.94	21.96	21.91			
15	QPSK	75	0	21.99	21.92	21.89	23.0	1.0	
15	16QAM	1	1	21.81	21.76	21.66	23.0	1.0	
15	64QAM	1	1	20.17	20.23	20.15	21.5	2.5	
15	256QAM	1	1	18.82	18.84	18.70	19.5	4.5	
Channel				14050	14150	14250	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.93	22.96	22.90	24.0	0.0	
Channel				14000	14100	14200	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.85	23.01	22.85	24.0	0.0	



n12_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141500	Power Middle Ch. / Freq. 141500	Power High Ch. / Freq. 141700	Tune-up limit (dBm)	MPR (dB)	
Channel				706.5	707.5	708.5			
Frequency (MHz)									
15	PI2 BPSK	1	1	22.84	22.93	22.79	24.0	0.0	
15	PI2 BPSK	1	40	22.83	22.98	22.95			
15	PI2 BPSK	1	77	22.86	22.89	22.76			
15	PI2 BPSK	36	0	22.56	22.57	22.54	23.5	0.5	
15	PI2 BPSK	36	22	22.87	22.96	22.84	24.0	0.0	
15	PI2 BPSK	36	43	22.44	22.56	22.54			
15	PI2 BPSK	75	0	22.47	22.58	22.49	23.5	0.5	
15	QPSK	1	1	22.93	22.99	22.98			
15	QPSK	1	40	22.90	22.95	22.91	24.0	0.0	
15	QPSK	1	77	22.83	22.97	22.92			
15	QPSK	36	0	21.99	22.03	21.92	23.0	1.0	
15	QPSK	36	22	22.82	22.91	22.87	24.0	0.0	
15	QPSK	36	43	21.94	22.00	21.88			
15	QPSK	75	0	21.88	22.00	21.87	23.0	1.0	
15	16QAM	1	1	21.63	21.76	21.66	23.0	1.0	
15	64QAM	1	1	20.19	20.28	20.14	21.5	2.5	
15	256QAM	1	1	18.78	18.87	18.83	19.5	4.5	
Channel				14000	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.80	22.87	22.87	24.0	0.0	
Channel				140000	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.92	22.88	22.88	24.0	0.0	

n14_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158100	Power Middle Ch. / Freq. 158600	Power High Ch. / Freq. 159100	Tune-up limit (dBm)	MPR (dB)	
Channel				703					
Frequency (MHz)									
10	PI2 BPSK	1	1	23.06					
10	PI2 BPSK	1	26	23.10			24.0	0.0	
10	PI2 BPSK	1	50	23.02					
10	PI2 BPSK	25	0	22.72			23.5	0.5	
10	PI2 BPSK	25	14	23.06			24.0	0.0	
10	PI2 BPSK	25	27	22.72			23.5	0.5	
10	PI2 BPSK	50	0	22.68					
10	QPSK	1	1	23.13					
10	QPSK	1	26	23.02			24.0	0.0	
10	QPSK	1	50	23.10					
10	QPSK	25	0	22.19			23.0	1.0	
10	QPSK	25	14	23.06			24.0	0.0	
10	QPSK	25	27	22.14			23.0	1.0	
10	QPSK	50	0	22.06			23.0	1.0	
10	16QAM	1	1	21.82			23.0	1.0	
10	64QAM	1	1	20.37			21.5	2.5	
10	256QAM	1	1	18.99			19.5	4.5	
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.07	23.04	23.01	24.0	0.0	

n14_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158100	Power Middle Ch. / Freq. 158600	Power High Ch. / Freq. 159100	Tune-up limit (dBm)	MPR (dB)	
Channel				703					
Frequency (MHz)									
10	PI2 BPSK	1	1	22.85					
10	PI2 BPSK	1	26	22.90			24.0	0.0	
10	PI2 BPSK	1	50	22.78					
10	PI2 BPSK	25	0	22.52			23.5	0.5	
10	PI2 BPSK	25	14	22.87			24.0	0.0	
10	PI2 BPSK	25	27	22.48			23.5	0.5	
10	PI2 BPSK	50	0	22.47					
10	QPSK	1	1	22.94					
10	QPSK	1	26	22.86			24.0	0.0	
10	QPSK	1	50	22.91					
10	QPSK	25	0	21.97			23.0	1.0	
10	QPSK	25	14	22.87			24.0	0.0	
10	QPSK	25	27	21.91			23.0	1.0	
10	QPSK	50	0	21.80			23.0	1.0	
10	16QAM	1	1	21.65			23.0	1.0	
10	64QAM	1	1	20.17			21.5	2.5	
10	256QAM	1	1	18.78			19.5	4.5	
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.80	22.88	22.91	24.0	0.0	



n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 376500	Power High Ch. Freq. 379000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.74	22.85	22.77			
40	PI2 BPSK	1	108	22.82	22.88	22.75	24.0	0.0	
40	PI2 BPSK	1	214	22.81	22.86	22.78			
40	PI2 BPSK	108	0	22.35	22.48	22.34	23.5	0.5	
40	PI2 BPSK	108	54	22.86	23.00	22.85	24.0	0.0	
40	PI2 BPSK	108	108	22.47	22.49	22.36			
40	PI2 BPSK	216	0	22.45	22.46	22.42	23.5	0.5	
40	QPSK	1	1	23.05	23.06	23.03			
40	QPSK	1	108	22.90	23.05	22.92	24.0	0.0	
40	QPSK	1	214	22.83	23.02	23.01			
40	QPSK	108	0	21.91	21.94	21.89	23.0	1.0	
40	QPSK	108	54	22.81	22.88	22.86	24.0	0.0	
40	QPSK	108	108	21.82	21.92	21.79			
40	QPSK	216	0	22.85	22.86	22.83	23.0	1.0	
40	16QAM	1	1	21.58	21.72	21.58	23.0	1.0	
40	64QAM	1	1	20.03	20.18	20.14	21.5	2.5	
40	256QAM	1	1	18.73	18.78	18.69	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.98	22.98	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.00	22.91	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.87	23.00	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.80	18.82	18.85	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.92	23.05	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.99	23.02	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.87	22.95	22.94	24.0	0.0	

n25_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 376500	Power High Ch. Freq. 379000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.92	22.99	22.97			
40	PI2 BPSK	1	108	23.05	23.10	23.01	24.0	0.0	
40	PI2 BPSK	1	214	23.00	23.07	23.00			
40	PI2 BPSK	108	0	22.58	22.59	22.48	23.5	0.5	
40	PI2 BPSK	108	54	23.11	23.18	23.15	24.0	0.0	
40	PI2 BPSK	108	108	22.63	22.67	22.66			
40	PI2 BPSK	216	0	22.53	22.64	22.53	23.5	0.5	
40	QPSK	1	1	23.17	23.24	23.21			
40	QPSK	1	108	23.05	23.15	23.10	24.0	0.0	
40	QPSK	1	214	22.95	23.09	23.02			
40	QPSK	108	0	21.99	22.05	21.98	23.0	1.0	
40	QPSK	108	54	23.05	23.10	23.03	24.0	0.0	
40	QPSK	108	108	22.06	22.10	22.07			
40	QPSK	216	0	22.05	22.06	22.01	23.0	1.0	
40	16QAM	1	1	21.87	21.79	21.78	23.0	1.0	
40	64QAM	1	1	20.37	20.38	20.37	21.5	2.5	
40	256QAM	1	1	18.89	18.99	18.90	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.15	23.10	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.14	23.18	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.02	23.21	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.80	18.82	18.85	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.02	23.15	23.09	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.08	23.21	23.16	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.15	23.19	23.12	24.0	0.0	

n26(FCC)_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 164800	Power Middle Ch. Freq. 166300	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.91	22.96	22.93			
20	PI2 BPSK	1	53	22.87	22.99	22.87	24.0	0.0	
20	PI2 BPSK	1	104	22.84	22.89	22.75			
20	PI2 BPSK	50	0	22.51	22.60	22.55	23.5	0.5	
20	PI2 BPSK	50	28	23.07	23.10	23.05	24.0	0.0	
20	PI2 BPSK	50	56	22.58	22.60	22.45			
20	PI2 BPSK	100	0	22.50	22.61	22.59	23.5	0.5	
20	QPSK	1	1	23.13	23.22	23.16			
20	QPSK	1	53	23.05	23.18	23.03	24.0	0.0	
20	QPSK	1	104	22.88	23.02	22.91			
20	QPSK	50	0	21.98	22.05	21.92	23.0	1.0	
20	QPSK	50	28	23.00	23.05	23.01	24.0	0.0	
20	QPSK	50	56	21.89	22.01	22.00			
20	QPSK	100	0	21.94	22.01	21.97	23.0	1.0	
20	16QAM	1	1	21.85	21.90	21.70	23.0	1.0	
20	64QAM	1	1	20.29	20.30	20.17	21.5	2.5	
20	256QAM	1	1	18.77	18.92	18.81	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.07	23.07	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.300	16.300	16.300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.300	16.300	16.300	Tune-up limit (dBm)	MPR (dB)	



n26(FCC)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.82	22.84	22.70			
20	PI2 BPSK	1	53	23.04	23.06	22.91	24.0	0.0	
20	PI2 BPSK	1	104	22.92	22.98	22.83			
20	PI2 BPSK	50	0	22.42	22.53	22.47	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.04	22.96	24.0	0.0	
20	PI2 BPSK	50	56	22.44	22.54	22.49	23.5	0.5	
20	PI2 BPSK	100	0	22.41	22.55	22.44			
20	QPSK	1	1	23.11	23.17	23.05			
20	QPSK	1	53	23.02	23.09	23.00	24.0	0.0	
20	QPSK	1	104	22.96	23.01	22.94			
20	QPSK	50	0	22.03	22.11	21.97	23.0	1.0	
20	QPSK	50	28	23.00	23.02	22.87	24.0	0.0	
20	QPSK	50	56	21.98	22.02	21.90	23.0	1.0	
20	QPSK	100	0	22.01	22.04	21.98			
20	16QAM	1	1	21.77	21.79	21.76	23.0	1.0	
20	64QAM	1	1	20.40	20.44	20.40	21.5	2.5	
20	256QAM	1	1	18.88	18.89	18.88	19.5	4.5	
Channel				165300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.99	23.09	22.99	24.0	0.0	
Channel				163800	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.97	23.05	23.04	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	23.04	23.07	22.97	24.0	0.0	

n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				461500	462000	462500			
Frequency (MHz)				2310					
10	PI2 BPSK	1	1	23.24					
10	PI2 BPSK	1	26	23.30			24.0	0.0	
10	PI2 BPSK	1	50	23.18					
10	PI2 BPSK	25	0	22.89			23.5	0.5	
10	PI2 BPSK	25	14	23.26			24.0	0.0	
10	PI2 BPSK	25	27	22.87			23.5	0.5	
10	PI2 BPSK	50	0	22.86					
10	QPSK	1	1	23.32					
10	QPSK	1	26	23.33			24.0	0.0	
10	QPSK	1	50	23.30					
10	QPSK	25	0	22.34			23.0	1.0	
10	QPSK	25	14	22.97			24.0	0.0	
10	QPSK	25	27	22.29			23.0	1.0	
10	QPSK	50	0	22.31			23.0	1.0	
10	16QAM	1	1	22.10			23.0	1.0	
10	64QAM	1	1	20.56			21.5	2.5	
10	256QAM	1	1	19.16			19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	23.21	23.27	23.23	24.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1725.5	1745	1757.5			
45	PI2 BPSK	1	1	22.93	22.95	22.88			
45	PI2 BPSK	1	100	22.90	23.07	23.05	24.0	0.0	
45	PI2 BPSK	1	240	23.03	23.10	23.00			
45	PI2 BPSK	120	0	22.47	22.81	22.47	23.5	0.5	
45	PI2 BPSK	120	60	22.98	23.10	22.98	24.0	0.0	
45	PI2 BPSK	120	180	22.46	22.59	22.54	23.5	0.5	
45	PI2 BPSK	240	0	22.51	22.56	22.54			
45	QPSK	1	1	23.14	23.17	23.04			
45	QPSK	1	100	22.95	23.07	23.04	24.0	0.0	
45	QPSK	1	240	23.06	23.13	23.03			
45	QPSK	120	0	21.93	22.07	22.06	23.0	1.0	
45	QPSK	120	60	22.97	23.05	23.00	24.0	0.0	
45	QPSK	120	180	21.86	21.99	21.84	23.0	1.0	
45	QPSK	240	0	21.83	22.07	21.91			
45	16QAM	1	1	21.74	21.83	21.68	23.0	1.0	
45	64QAM	1	1	20.17	20.28	20.26	21.5	2.5	
45	256QAM	1	1	18.75	18.90	18.78	19.5	4.5	
Channel				346000	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	23.05	23.14	23.00	24.0	0.0	
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	23.11	23.13	23.00	24.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.06	23.14	23.03	24.0	0.0	
Channel				345500	350000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	23.00	23.05	22.90	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710	1745	1790			
20	QPSK	1	1	23.02	23.09	22.99	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.12	23.02	22.99	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.06	23.13	22.91	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.08	23.13	22.93	24.0	0.0	



n66_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	22.97	22.98	22.94			
45	PI2 BPSK	1	120	23.10	23.18	23.12	24.0	0.0	
45	PI2 BPSK	1	240	23.08	23.15	23.01			
45	PI2 BPSK	120	0	22.51	22.81	22.56	23.5	0.5	
45	PI2 BPSK	120	60	23.11	23.23	23.18	24.0	0.0	
45	PI2 BPSK	120	120	22.54	22.85	22.94			
45	PI2 BPSK	240	0	22.43	22.59	22.49			
45	QPSK	1	1	23.25	23.26	23.21			
45	QPSK	1	120	23.21	23.24	23.17	24.0	0.0	
45	QPSK	1	240	23.15	23.17	23.06			
45	QPSK	120	0	21.99	22.09	22.04	23.0	1.0	
45	QPSK	120	60	23.13	23.14	22.99	24.0	0.0	
45	QPSK	120	120	21.98	22.11	22.00			
45	QPSK	240	0	21.89	22.03	21.94	23.0	1.0	
45	16QAM	1	1	21.69	21.81	21.86	23.0	1.0	
45	64QAM	1	1	20.27	20.38	20.36	21.5	2.5	
45	256QAM	1	1	18.91	18.99	18.85	19.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.19	23.20	23.13	24.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.14	23.23	23.13	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.22	23.17	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.19	23.13	23.18	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.22	23.16	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.19	23.11	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.22	23.24	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.22	23.14	23.20	24.0	0.0	

n70_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1		23.00				
15	PI2 BPSK	1	40		23.02		24.0	0.0	
15	PI2 BPSK	1	77		22.96				
15	PI2 BPSK	36	0		22.85		23.5	0.5	
15	PI2 BPSK	36	22		23.03		24.0	0.0	
15	PI2 BPSK	36	43		22.85		23.5	0.5	
15	PI2 BPSK	75	0		22.85				
15	QPSK	1	1		23.20				
15	QPSK	1	40		23.04		24.0	0.0	
15	QPSK	1	77		23.04				
15	QPSK	36	0		22.10		23.0	1.0	
15	QPSK	36	22		23.11		24.0	0.0	
15	QPSK	36	43		22.04		23.0	1.0	
15	QPSK	75	0		22.05		23.0	1.0	
15	16QAM	1	1		21.85		23.0	1.0	
15	64QAM	1	1		20.33		21.5	2.5	
15	256QAM	1	1		18.96		19.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.06	23.16	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.14	23.07	24.0	0.0	

n70_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1		22.99				
15	PI2 BPSK	1	40		23.09		24.0	0.0	
15	PI2 BPSK	1	77		23.16				
15	PI2 BPSK	36	0		22.87		23.5	0.5	
15	PI2 BPSK	36	22		23.12		24.0	0.0	
15	PI2 BPSK	36	43		22.87		23.5	0.5	
15	PI2 BPSK	75	0		22.91				
15	QPSK	1	1		23.27				
15	QPSK	1	40		23.22		24.0	0.0	
15	QPSK	1	77		23.21				
15	QPSK	36	0		22.05		23.0	1.0	
15	QPSK	36	22		23.16		24.0	0.0	
15	QPSK	36	43		22.14		23.0	1.0	
15	QPSK	75	0		22.86		23.0	1.0	
15	16QAM	1	1		21.83		23.0	1.0	
15	64QAM	1	1		20.31		21.5	2.5	
15	256QAM	1	1		18.94		19.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.24	23.15	23.26	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.24	23.19	23.18	24.0	0.0	



n71_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 136100	Power Middle Ch. F Freq. 136100	Power High Ch. F Freq. 136100	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
35	P1/2 BPSK	1	1		22.77				
35	P1/2 BPSK	1	90		22.82		24.0	0.0	
35	P1/2 BPSK	1	186		22.70				
35	P1/2 BPSK	90	0		22.41		23.5	0.5	
35	P1/2 BPSK	90	45		22.83		24.0	0.0	
35	P1/2 BPSK	90	90		22.41		23.5	0.5	
35	P1/2 BPSK	180	0		22.38				
35	QPSK	1	1		22.98				
35	QPSK	1	90		22.92		24.0	0.0	
35	QPSK	1	186		22.83				
35	QPSK	90	0		21.89		23.0	1.0	
35	QPSK	90	45		22.87		24.0	0.0	
35	QPSK	90	90		21.84		23.0	1.0	
35	QPSK	180	0		21.86		23.0	1.0	
35	16QAM	1	1		21.81		23.0	1.0	
35	64QAM	1	1		20.09		21.5	2.5	
35	256QAM	1	1		18.69		19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)	
				678	690.5	693		24.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	136100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
				678.5	681.5	683.5		24.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	136600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
				673	680.5	688		24.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	136100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
				670.5	680.5	690.5		24.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)	
				668	680.5	693		24.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
				662.5	680.5	695.5		24.0	0.0

n71_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 136100	Power Middle Ch. F Freq. 136100	Power High Ch. F Freq. 136100	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
35	P1/2 BPSK	1	1		22.87				
35	P1/2 BPSK	1	90		22.86		24.0	0.0	
35	P1/2 BPSK	1	186		22.81				
35	P1/2 BPSK	90	0		22.43		23.5	0.5	
35	P1/2 BPSK	90	45		22.94		24.0	0.0	
35	P1/2 BPSK	90	90		22.37		23.5	0.5	
35	P1/2 BPSK	180	0		22.38				
35	QPSK	1	1		22.99				
35	QPSK	1	90		22.89		24.0	0.0	
35	QPSK	1	186		22.79				
35	QPSK	90	0		21.92		23.0	1.0	
35	QPSK	90	45		22.88		24.0	0.0	
35	QPSK	90	90		21.84		23.0	1.0	
35	QPSK	180	0		21.85		23.0	1.0	
35	16QAM	1	1		21.82		23.0	1.0	
35	64QAM	1	1		20.15		21.5	2.5	
35	256QAM	1	1		18.75		19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)	
				678	690.5	693		24.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	136100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
				678.5	681.5	683.5		24.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	136600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
				673	680.5	688		24.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	136100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
				670.5	680.5	690.5		24.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)	
				668	680.5	693		24.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
				662.5	680.5	695.5		24.0	0.0



FCC_n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.95	23.05	22.97			
100	PI2 BPSK	1	137	23.07	23.11	23.03	24.0	0.0	
100	PI2 BPSK	1	271	23.08	23.13	23.07			
100	PI2 BPSK	135	9	22.87	23.01	22.96	24.0	0.0	
100	PI2 BPSK	135	69	22.84	23.09	22.94	24.0	0.0	
100	PI2 BPSK	135	138	23.00	23.12	23.07	24.0	0.0	
100	PI2 BPSK	270	0	22.97	23.08	23.06			
100	QPSK	1	1	23.03	23.08	23.05			
100	QPSK	1	137	23.10	23.12	23.05	24.0	0.0	
100	QPSK	1	271	22.93	23.08	22.96			
100	QPSK	135	0	23.01	23.07	23.06	24.0	0.0	
100	QPSK	135	69	23.03	23.15	23.07			
100	QPSK	135	138	23.03	23.05	22.94			
100	QPSK	270	0	23.11	23.12	23.05	24.0	0.0	
100	16QAM	1	1	22.87	22.85	22.91	24.0	0.0	
100	16QAM	1	1	22.93	22.88	22.94	24.0	0.0	
100	256QAM	1	1	21.93	22.08	22.00	22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.00	23.13	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.06	23.06	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.10	23.06	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.07	23.05	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.02	23.10	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	23.09	23.12	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.13	23.16	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.07	23.07	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.10	23.05	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.11	23.07	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.07	23.17	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.03	23.14	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.04	23.09	23.04	24.0	0.0	

FCC_n41(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	26.17	26.21	26.07			
100	PI2 BPSK	1	137	26.06	26.07	25.92	27.0	0.0	
100	PI2 BPSK	1	271	26.04	26.19	26.09			
100	PI2 BPSK	135	9	25.75	25.86	25.77	26.5	0.5	
100	PI2 BPSK	135	69	26.00	26.03	26.00	27.0	0.0	
100	PI2 BPSK	135	138	25.86	25.72	25.68	26.5	0.5	
100	PI2 BPSK	270	0	25.97	26.71	25.70			
100	QPSK	1	1	26.22	26.26	26.14			
100	QPSK	1	137	26.18	26.23	26.09	27.0	0.0	
100	QPSK	1	271	26.07	26.17	26.03			
100	QPSK	135	0	25.20	25.29	25.17	27.0	0.0	
100	QPSK	135	69	26.10	26.20	26.11			
100	QPSK	135	138	25.29	25.30	25.28			
100	QPSK	270	0	25.12	25.23	25.19	26.0	1.0	
100	16QAM	1	1	24.89	24.88	24.84	26.0	1.0	
100	16QAM	1	1	23.44	23.52	23.43	24.5	2.5	
100	256QAM	1	1	22.01	22.11	22.09	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.10	26.25	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.12	26.13	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.12	26.26	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.16	26.25	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.10	26.13	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	26.10	26.16	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.22	26.26	26.03	27.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	26.14	26.15	26.01	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.16	26.12	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.17	26.24	26.12	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.18	26.22	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.03	26.09	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.12	26.16	26.13	27.0	0.0	



FCC_n41_Ant 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				50202	51898	52820	
				2546.01	2592.99	2640	
100	PI2 BPSK	1	1	23.07	23.20	23.09	
100	PI2 BPSK	1	137	23.09	23.19	23.04	24.0
100	PI2 BPSK	1	271	23.10	23.16	23.05	
100	PI2 BPSK	135	0	23.14	23.17	23.02	24.0
100	PI2 BPSK	135	69	23.11	23.17	23.12	24.0
100	PI2 BPSK	135	138	23.08	23.16	23.02	
100	PI2 BPSK	270	0	23.12	23.23	23.17	24.0
100	QPSK	1	1	23.23	23.26	23.21	
100	QPSK	1	137	23.14	23.20	23.15	24.0
100	QPSK	1	271	23.10	23.16	23.08	
100	QPSK	135	0	23.10	23.20	23.18	
100	QPSK	135	69	23.13	23.22	23.18	24.0
100	QPSK	135	138	23.07	23.20	23.17	
100	QPSK	270	0	23.07	23.16	23.07	24.0
100	16QAM	1	1	22.88	22.84	22.83	24.0
100	64QAM	1	1	22.79	22.92	22.86	24.0
100	256QAM	1	1	21.91	22.05	21.90	22.5
Channel							
Frequency (MHz)				508200	518988	528996	
				2541	2592.99	2644.98	
90	QPSK	1	1	23.12	23.18	23.07	24.0
Channel							
Frequency (MHz)				507204	518988	529988	
				2536.02	2592.99	2648.98	
80	QPSK	1	1	23.19	23.19	23.14	24.0
Channel							
Frequency (MHz)				508202	518988	530000	
				2531.01	2592.99	2655	
70	QPSK	1	1	23.10	23.22	23.11	24.0
Channel							
Frequency (MHz)				505200	518988	531996	
				2488	2488.99	2488.98	
60	QPSK	1	1	23.14	23.23	23.08	24.0
Channel							
Frequency (MHz)				504204	518988	532988	
				2521.02	2592.99	2654.98	
50	QPSK	1	1	23.11	23.18	23.07	24.0
Channel							
Frequency (MHz)				503700	518988	533496	
				2518.5	2592.99	2667.48	
45	QPSK	1	1	23.09	23.11	23.12	24.0
Channel							
Frequency (MHz)				508202	518988	534200	
				2516.01	2592.99	2670	
40	QPSK	1	1	23.14	23.14	23.15	24.0
Channel							
Frequency (MHz)				502704	518988	534498	
				2513.5	2592.99	2672.48	
35	QPSK	1	1	23.13	23.15	23.16	24.0
Channel							
Frequency (MHz)				502200	518988	534996	
				2511	2592.99	2674.98	
30	QPSK	1	1	23.20	23.12	23.11	24.0
Channel							
Frequency (MHz)				511702	518988	535500	
				2508.51	2592.99	2677.5	
25	QPSK	1	1	23.19	23.21	23.15	24.0
Channel							
Frequency (MHz)				507204	518988	535988	
				2508.02	2592.99	2680.98	
20	QPSK	1	1	23.13	23.17	23.08	24.0
Channel							
Frequency (MHz)				500700	518988	536496	
				2503.5	2592.99	2682.48	
15	QPSK	1	1	23.08	23.20	23.18	24.0
Channel							
Frequency (MHz)				500202	518988	537000	
				2501.91	2592.99	2685	
10	QPSK	1	1	23.17	23.15	23.12	24.0



FCC_n41(HPUE)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50202	51898	53700			
Frequency (MHz)				2546.01	2592.99	2649.99			
100	PI2 BPSK	1	1	26.13	26.15	26.08			
100	PI2 BPSK	1	137	26.11	26.22	26.20	27.0	0.0	
100	PI2 BPSK	1	271	26.61	26.72	26.61			
100	PI2 BPSK	135	9	25.63	25.66	25.60	26.5	0.5	
100	PI2 BPSK	135	69	25.30	25.38	25.37	27.0	0.0	
100	PI2 BPSK	135	138	25.62	25.66	25.56	26.5	0.5	
100	PI2 BPSK	270	0	25.63	25.65	25.53			
100	QPSK	1	1	25.92	25.93	25.93			
100	QPSK	1	137	25.06	25.13	25.03	27.0	0.0	
100	QPSK	1	271	25.60	25.73	25.65			
100	QPSK	135	0	25.13	25.26	25.21	27.0	0.0	
100	QPSK	135	69	25.08	25.27	25.20			
100	QPSK	135	138	25.08	25.09	25.08			
100	QPSK	270	0	24.98	25.06	25.01	26.0	1.0	
100	16QAM	1	1	24.77	24.83	24.73	26.0	1.0	
100	64QAM	1	1	23.30	23.38	23.31	24.5	2.5	
100	256QAM	1	1	21.92	22.05	22.02	22.5	4.5	
Channel									
Frequency (MHz)				50820	51898	52996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.10	23.13	23.07	27.0	0.0	
Channel									
Frequency (MHz)				50724	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	26.89	26.14	26.14	27.0	0.0	
Channel									
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				26.10	26.10	26.01	27.0	0.0	
70	QPSK	1	1	25.98	26.10	26.07	27.0	0.0	
Channel									
Frequency (MHz)				50520	51898	53196	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.01	26.20	26.07	27.0	0.0	
60	QPSK	1	1	26.01	26.20	26.17	27.0	0.0	
Channel									
Frequency (MHz)				50424	51898	53298	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	26.07	26.16	26.13	27.0	0.0	
Channel									
Frequency (MHz)				50320	51898	53396	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	26.09	26.21	26.05	27.0	0.0	
Channel									
Frequency (MHz)				50202	51898	53700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	26.01	26.18	26.04	27.0	0.0	
Channel									
Frequency (MHz)				50274	51898	53498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	23.07	23.13	23.10	27.0	0.0	
Channel									
Frequency (MHz)				50220	51898	53496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	26.07	26.12	26.13	27.0	0.0	
Channel									
Frequency (MHz)				50102	51898	53500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	26.01	26.19	26.07	27.0	0.0	
Channel									
Frequency (MHz)				50124	51898	53598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.01	2592.99	2679.99			
20	QPSK	1	1	26.00	26.21	26.06	27.0	0.0	
Channel									
Frequency (MHz)				50070	51898	53696	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	23.04	23.17	23.09	27.0	0.0	
Channel									
Frequency (MHz)				50022	51898	53700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	26.05	26.10	26.15	27.0	0.0	

FCC_n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50202	51898	53700			
Frequency (MHz)				2546.01	2592.99	2649.99			
100	PI2 BPSK	1	1	23.00	23.14	23.01			
100	PI2 BPSK	1	137	23.06	23.13	23.10	24.0	0.0	
100	PI2 BPSK	1	271	23.24	23.25	23.13			
100	PI2 BPSK	135	9	23.10	23.13	23.12	24.0	0.0	
100	PI2 BPSK	135	69	23.27	23.31	23.18	24.0	0.0	
100	PI2 BPSK	135	138	23.20	23.31	23.26	24.0	0.0	
100	PI2 BPSK	270	0	23.21	23.26	23.18			
100	QPSK	1	1	23.16	23.32	23.27			
100	QPSK	1	137	23.07	23.22	23.19	24.0	0.0	
100	QPSK	1	271	23.10	23.25	23.17			
100	QPSK	135	0	23.13	23.25	23.14	24.0	0.0	
100	QPSK	135	69	23.10	23.27	23.20			
100	QPSK	135	138	23.16	23.24	23.13			
100	QPSK	270	0	23.12	23.18	23.03	24.0	0.0	
100	16QAM	1	1	22.82	22.91	22.86	24.0	0.0	
100	64QAM	1	1	22.86	22.93	22.81	24.0	0.0	
100	256QAM	1	1	21.94	22.03	21.93	22.5	1.5	
Channel									
Frequency (MHz)				50820	51898	52996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.10	23.13	23.10	24.0	0.0	
Channel									
Frequency (MHz)				50724	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.16	23.31	23.09	24.0	0.0	
Channel									
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				23.08	23.27	23.12	24.0	0.0	
70	QPSK	1	1	23.08	23.27	23.12	24.0	0.0	
Channel									
Frequency (MHz)				50520	51898	53196	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				23.10	23.21	23.14	24.0	0.0	
60	QPSK	1	1	23.15	23.21	23.14	24.0	0.0	
Channel									
Frequency (MHz)				50424	51898	53298	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.15	23.22	23.13	24.0	0.0	
Channel									
Frequency (MHz)				50320	51898	53396	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	23.05	23.18	23.08	24.0	0.0	
Channel									
Frequency (MHz)				50202	51898	53700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.05	23.24	23.16	24.0	0.0	
Channel									
Frequency (MHz)				50274	51898	53498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	23.08	23.28	23.00	24.0	0.0	
Channel									
Frequency (MHz)				50220	51898	53496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.16	23.21	23.03	24.0	0.0	
Channel									
Frequency (MHz)				50102	51898	53500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	23.07	23.28	23.17	24.0	0.0	
Channel									
Frequency (MHz)				50124	51898	53598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.01	2592.99	2679.99			
20	QPSK	1	1	23.08	23.22	23.11	24.0	0.0	
Channel									
Frequency (MHz)				50070	51898	53696	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	23.04	23.17	23.09	24.0	0.0	
Channel									
Frequency (MHz)				50022	51898	53700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	23.12	23.28	23.17	24.0	0.0	

FCC_n41(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50202	51898	53700			
Frequency (MHz)				2546.01	2592.99	2649.99			
100	PI2 BPSK	1	1	26.18	26.21	26.13			
100	PI2 BPSK	1	137	26.07	26.19	26.17	27.0	0.0	
100	PI2 BPSK	1	271	26.08	26.16	26.13			
100	PI2 BPSK	135	9	25.74	25.84	25.77	26.5	0.5	
100	PI2 BPSK	135	69	25.08	25.14	25.13	27.0	0.0	
100	PI2 BPSK	135	138	25.66	25.68	25.67	26.5	0.5	
100	PI2 BPSK	270	0	25.64	25.65	25.50			
100	QPSK	1	1	25.72	25.78	25.77			
100	QPSK	1	137	26.13	26.22	26.10	27.0	0.0	
100	QPSK	1	271	25.98	26.12	25.99			
100	QPSK	135	0	25.16	25.31	25.30	27.0	0.0	
100	QPSK	135	69	25.08	25.16	25.15			



FCC_n41_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
2546.01 2592.99 2640										
100	Pi2 BPSK	1	1	23.04	23.14	23.07				
100	Pi2 BPSK	1	137	23.06	23.12	22.99	24.0	0.0		
100	Pi2 BPSK	1	271	22.98	23.06	22.94				
100	Pi2 BPSK	135	0	23.04	23.11	22.97	24.0	0.0		
100	Pi2 BPSK	135	69	23.00	23.12	23.09	24.0	0.0		
100	Pi2 BPSK	135	138	23.03	23.11	22.98				
100	Pi2 BPSK	270	0	23.03	23.07	23.03	24.0	0.0		
100	QPSK	1	1	23.01	23.16	23.11				
100	QPSK	1	137	23.00	23.13	23.09	24.0	0.0		
100	QPSK	1	271	22.98	23.00	22.92				
100	QPSK	135	0	22.98	23.02	22.99				
100	QPSK	135	69	22.96	23.06	22.99	24.0	0.0		
100	QPSK	135	138	22.98	23.06	22.93				
100	QPSK	270	0	23.03	23.11	23.00	24.0	0.0		
100	16QAM	1	1	23.01	23.02	22.88	24.0	0.0		
100	16QAM	1	1	23.06	23.08	22.93	24.0	0.0		
100	256QAM	1	1	21.54	21.61	21.58	22.5	1.5		
Channel										
Frequency (MHz)										
5020.00 51898 53998										
80	QPSK	1	1	23.00	23.07	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
50720.4 51898 52998										
80	QPSK	1	1	22.99	23.15	23.06	24.0	0.0		
Channel										
Frequency (MHz)										
2531.01 2592.99 2655										
70	QPSK	1	1	23.00	23.12	23.12	24.0	0.0		
Channel										
Frequency (MHz)										
50520 51898 53198										
60	QPSK	1	1	22.92	23.04	22.99	24.0	0.0		
Channel										
Frequency (MHz)										
50420.4 51898 53998										
50	QPSK	1	1	23.02	23.08	23.06	24.0	0.0		
Channel										
Frequency (MHz)										
50700 51898 53498										
45	QPSK	1	1	23.00	23.11	23.11	24.0	0.0		
Channel										
Frequency (MHz)										
50200 51898 53400										
40	QPSK	1	1	22.92	23.06	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
50704 51898 53498										
35	QPSK	1	1	23.04	23.08	23.09	24.0	0.0		
Channel										
Frequency (MHz)										
50200 51898 53498										
30	QPSK	1	1	23.01	23.02	23.12	24.0	0.0		
Channel										
Frequency (MHz)										
2508.51 2592.99 2674.48										
25	QPSK	1	1	22.99	23.14	23.00	24.0	0.0		
Channel										
Frequency (MHz)										
50120.4 51898 53998										
20	QPSK	1	1	22.98	23.15	23.04	24.0	0.0		
Channel										
Frequency (MHz)										
50070 51898 53646										
15	QPSK	1	1	22.95	23.09	22.98	24.0	0.0		
Channel										
Frequency (MHz)										
50002 51898 53700										
10	QPSK	1	1	23.01	23.01	22.85	24.0	0.0		

FCC_n41(HPUe)_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
2546.01 2592.99 2640										
100	Pi2 BPSK	1	1	26.08	26.22	26.21				
100	Pi2 BPSK	1	137	25.21	25.27	25.22	27.0	0.0		
100	Pi2 BPSK	1	271	26.01	26.15	26.10				
100	Pi2 BPSK	135	0	25.43	25.54	25.42	26.5	0.5		
100	Pi2 BPSK	135	69	25.24	25.33	25.18	27.0	0.0		
100	Pi2 BPSK	135	138	25.73	25.80	25.76				
100	Pi2 BPSK	270	0	25.53	25.54	25.46	26.5	0.5		
100	QPSK	1	1	25.15	25.23	25.15				
100	QPSK	1	137	25.38	25.42	25.40	27.0	0.0		
100	QPSK	1	271	25.85	25.95	25.89				
100	QPSK	135	0	25.24	25.34	25.26				
100	QPSK	135	69	25.11	25.16	25.11	27.0	0.0		
100	QPSK	135	138	25.15	25.16	25.02				
100	QPSK	270	0	25.02	25.13	25.09	26.0	1.0		
100	16QAM	1	1	24.76	24.83	24.74	26.0	1.0		
100	16QAM	1	1	23.37	23.43	23.33	24.5	2.5		
100	256QAM	1	1	21.95	22.01	21.87	22.5	4.5		
Channel										
Frequency (MHz)										
50820 51898 52898										
80	QPSK	1	1	23.07	23.19	23.04	27.0	0.0		
Channel										
Frequency (MHz)										
50720.4 51898 52998										
80	QPSK	1	1	26.11	26.17	26.15	27.0	0.0		
Channel										
Frequency (MHz)										
2531.01 2592.99 2655										
70	QPSK	1	1	26.14	26.14	26.09	27.0	0.0		
Channel										
Frequency (MHz)										
50520 51898 53198										
60	QPSK	1	1	26.13	26.16	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
50420.4 51898 53998										
50	QPSK	1	1	25.02	25.02	24.99	27.0	0.0		
Channel										
Frequency (MHz)										
50700 51898 53498										
45	QPSK	1	1	26.08	26.11	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
50200 51898 53400										
40	QPSK	1	1	26.12	26.14	26.09	27.0	0.0		
Channel										
Frequency (MHz)										
50704 51898 53498										
35	QPSK	1	1	23.08	23.11	23.13	27.0	0.0		
Channel										
Frequency (MHz)										
50200 51898 53498										
30	QPSK	1	1	26.14	26.22	26.04	27.0	0.0		
Channel										
Frequency (MHz)										
2508.51 2592.99 2674.48										
25	QPSK	1	1	26.08	26.21	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
50120.4 51898 53998										
20	QPSK	1	1	26.01	26.14	26.08	27.0	0.0		
Channel										
Frequency (MHz)										
50070 51898 53646										
15	QPSK	1	1	26.05	26.13	26.07	27.0	0.0		
Channel										
Frequency (MHz)										
50002 51898 53700										
10	QPSK	1	1	26.10	26.09	26.06	27.0	0.0		

n48_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3600 3624.98 3649.98										
100	Pi2 BPSK	1	1	22.62	22.76	22.61				
100	Pi2 BPSK	1	137	22.53	22.65	22.64	24.0	0.0		
100	Pi2 BPSK	1	271	22.71	22.80	22.73				
100	Pi2 BPSK	135	0	22.53	22.55	22.22	23.5	0.5		
100	Pi2 BPSK	135	69	22.58	22.69	22.56	24.0	0.0		
100	Pi2 BPSK	135	138	22.20	22.30	22.19				
100	Pi2 BPSK	270	0	22.20	22.33	22.30	23.5	0.5		
100	QPSK	1	1	22.77	22.84	22.77				
100	QPSK	1	137	22.61	22.74	22.64	24.0	0.0		
100	QPSK	1	271	22.72	22.77	22.69				
100	QPSK	135	0	21.76	21.78	21.69				
100	QPSK	135	69	22.16	22.21	22.15	24.0	0.0		
100	QPSK	135	138	21.62	21.75	21.68				
100	QPSK	270	0	21.68	21.75	21.83	23.0	1.0		
100	16QAM	1	1	21.41	21.51	21.50	23.0	1.0		
100	16QAM	1	1	19.86	19.96	19.84	21.5	2.5		
100	256QAM	1	1	18.64	18.71	18.64	19.5	4.5		
Channel										
Frequency (MHz)										
63660 64166 64666										
80	QPSK	1	1	22.51	22.53	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
63334 64166 64000										
80	QPSK	1	1	22.50	22.53	22.45	24.0	0.0		
Channel										
Frequency (MHz)										
366 3624.98 3649.98										
70	QPSK	1	1	22.56	22.53	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
63666 64166 64666										
60	QPSK	1	1	22.56	22.50	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
63334 64166 64000										
50	QPSK	1	1	22.45	22.58	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
6300 3624.98 3649.98										
40	QPSK	1	1	22.50	22.52	22.48	24.0	0.0		
Channel										
Frequency (MHz)										
63766 64166 64666										
30	QPSK	1	1	22.50	22.53	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
63334 64166 64000										
20	QPSK	1	1	22.51	22.63	22.42	24.0	0.0		
Channel										
Frequency (MHz)										
63766 64166 64666										
15	QPSK	1	1	22.47	22.54	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
366 3624.98 3649.98										
10	QPSK	1	1	22.42	22.50	22.44	24.0	0.0		



Part27Q_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.48	22.42	22.42	24.0	0.0		
100	PI2 BPSK	1	137	22.56	22.56	22.56				
100	PI2 BPSK	1	271	22.52	22.52	22.52	24.0	0.0		
100	PI2 BPSK	135	9	22.49	22.49	22.49				
100	PI2 BPSK	135	69	22.42	22.42	22.42	24.0	0.0		
100	PI2 BPSK	135	138	22.50	22.50	22.50				
100	PI2 BPSK	270	0	22.56	22.56	22.56	24.0	0.0		
100	QPSK	1	1	22.51	22.51	22.51				
100	QPSK	1	137	22.37	22.37	22.37	24.0	0.0		
100	QPSK	1	271	22.48	22.48	22.48				
100	QPSK	135	9	22.38	22.38	22.38	24.0	0.0		
100	QPSK	135	69	22.51	22.51	22.51				
100	QPSK	135	138	22.51	22.51	22.51	24.0	0.0		
100	QPSK	270	0	22.42	22.42	22.42				
100	16QAM	1	1	22.16	22.16	22.16	24.0	0.0		
100	16QAM	1	1	22.29	22.29	22.29				
100	256QAM	1	1	21.27	21.27	22.25	24.0	1.5		
Channel										
Frequency (MHz)										
633000	633332	633666	Tune-up limit (dBm)	MPR						
3495	3499.98	3504.99	(dB)	(dB)						
90	QPSK	1	1	22.51	22.51	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
632688	633332	634000	Tune-up limit (dBm)	MPR						
3460.02	3469.98	3510	(dB)	(dB)						
80	QPSK	1	1	22.49	22.47	22.58	24.0	0.0		
Channel										
Frequency (MHz)										
3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR						
22.51	22.58	22.54	24.0	0.0						
70	QPSK	1	1	22.51	22.58	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
632000	633332	634666	Tune-up limit (dBm)	MPR						
3465	3499.98	3518.99	(dB)	(dB)						
60	QPSK	1	1	22.55	22.60	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
631668	633332	635000	Tune-up limit (dBm)	MPR						
3475.02	3499.98	3525	(dB)	(dB)						
50	QPSK	1	1	22.50	22.64	22.59	24.0	0.0		
Channel										
Frequency (MHz)										
631334	633332	635332	Tune-up limit (dBm)	MPR						
3470.01	3499.98	3529.98	(dB)	(dB)						
40	QPSK	1	1	22.55	22.61	22.48	24.0	0.0		
Channel										
Frequency (MHz)										
631000	633332	635666	Tune-up limit (dBm)	MPR						
3465	3499.98	3534.99	(dB)	(dB)						
30	QPSK	1	1	22.66	22.66	22.59	24.0	0.0		
Channel										
Frequency (MHz)										
630834	633332	635932	Tune-up limit (dBm)	MPR						
3462.51	3499.98	3537.48	(dB)	(dB)						
25	QPSK	1	1	22.50	22.55	22.45	24.0	0.0		
Channel										
Frequency (MHz)										
630668	633332	636000	Tune-up limit (dBm)	MPR						
3460.02	3499.98	3540	(dB)	(dB)						
20	QPSK	1	1	22.58	22.65	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
630500	633332	636166	Tune-up limit (dBm)	MPR						
3457.5	3499.98	3542.49	(dB)	(dB)						
15	QPSK	1	1	22.53	22.58	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
630334	633332	636332	Tune-up limit (dBm)	MPR						
3455.01	3499.98	3544.98	(dB)	(dB)						
10	QPSK	1	1	22.57	22.60	22.58	24.0	0.0		

Part27Q_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.53	22.57	22.42	24.0	0.0		
100	PI2 BPSK	1	137	22.44	22.57	22.53				
100	PI2 BPSK	1	271	22.52	22.53	22.41	24.0	0.0		
100	PI2 BPSK	135	9	22.48	22.57	22.45				
100	PI2 BPSK	135	69	22.52	22.57	22.44	24.0	0.0		
100	PI2 BPSK	135	138	22.51	22.57	22.44				
100	PI2 BPSK	270	0	22.50	22.60	22.55	24.0	0.0		
100	QPSK	1	1	22.50	22.57	22.55				
100	QPSK	1	137	22.44	22.49	22.35	24.0	0.0		
100	QPSK	1	271	22.41	22.50	22.38				
100	QPSK	135	9	22.42	22.51	22.41	24.0	0.0		
100	QPSK	135	69	22.51	22.57	22.55				
100	QPSK	135	138	22.48	22.58	22.49	24.0	0.0		
100	QPSK	270	0	22.35	22.50	22.35				
100	16QAM	1	1	22.14	22.28	22.17	24.0	0.0		
100	16QAM	1	1	22.25	22.38	22.29				
100	256QAM	1	1	21.30	21.38	21.34	24.0	1.5		
Channel										
Frequency (MHz)										
646668	656000	662332	Tune-up limit (dBm)	MPR						
3750	3846	3950	(dB)	(dB)						
80	QPSK	1	1	22.49	22.69	22.69	24.0	0.0		
Channel										
Frequency (MHz)										
646334	656000	662666	Tune-up limit (dBm)	MPR						
3740.01	3840	3939.99	(dB)	(dB)						
80	QPSK	1	1	22.46	22.65	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
646000	656000	663000	Tune-up limit (dBm)	MPR						
3735	3840	3945	(dB)	(dB)						
70	QPSK	1	1	22.49	22.64	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
645668	656000	663332	Tune-up limit (dBm)	MPR						
3730.02	3840	3949.98	(dB)	(dB)						
60	QPSK	1	1	22.45	22.59	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
645334	656000	663666	Tune-up limit (dBm)	MPR						
3725.01	3840	3954.99	(dB)	(dB)						
50	QPSK	1	1	22.51	22.65	22.61	24.0	0.0		
Channel										
Frequency (MHz)										
645000	656000	664000	Tune-up limit (dBm)	MPR						
3720	3840	3960	(dB)	(dB)						
40	QPSK	1	1	22.58	22.60	22.58	24.0	0.0		
Channel										
Frequency (MHz)										
644668	656000	664332	Tune-up limit (dBm)	MPR						
3715.02	3840	3964.98	(dB)	(dB)						
30	QPSK	1	1	22.57	22.62	22.57	24.0	0.0		
Channel										
Frequency (MHz)										
644334	656000	664666	Tune-up limit (dBm)	MPR						
3712.5	3840	3967.5	(dB)	(dB)						
25	QPSK	1	1	22.54	22.55	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
644000	656000	664996	Tune-up limit (dBm)	MPR						
3710.01	3840	3969.99	(dB)	(dB)						
20	QPSK	1	1	22.45	22.65	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
643668	656000	665332	Tune-up limit (dBm)	MPR						
3707.52	3840	3972.48	(dB)	(dB)						
15	QPSK	1	1	22.52	22.59	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
643334	656000	665666	Tune-up limit (dBm)	MPR						
3705	3840	3975	(dB)	(dB)						
10	QPSK	1	1	22.51	22.58	22.59	24.0	0.0		

Part27Q_n77(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	25.77	25.77	25.77	27.0	0.0		
100	PI2 BPSK	1	137	25.86	25.86	25.86				
100	PI2 BPSK	1	271	25.74	25.74	25.74	26.5	0.5		
100	PI2 BPSK	135	9	25.28	25.28	25.28				
100	PI2 BPSK	135	69	25.86	25.86	25.86	27.0	0.0		
100	PI2 BPSK	135	138	25.42	25.42	25.42				
100	PI2 BPSK	270	0	25.29	25.29	25.29	26.5	0.5		
100	QPSK	1	1	25.81	25.81	25.81				
100	QPSK	1	137	25.85	25.85	25.85	27.0	0.0		
100	QPSK	1	271	25.83	25.83	25.83				
100	QPSK	135	9	25.82	25.82	25.82	27.0	0.0		
100	QPSK	135	69	24.85	24.85	24.85				
100	QPSK	135	138	24.77	24.77	24.77	26.0	1.0		
100	16QAM	1	1	24.47	24.47	24.47				
100	16QAM	1	1	22.90	22.90	24.5	24.5	2.5		
100	256QAM	1	1	21.47	21.47	22.5				
Channel										
Frequency (MHz)										
633000	633332	633666	Tune-up limit (dBm)	MPR						
3495	3499.98	3504.99	(dB)	(dB)						
80	QPSK	1	1	25.82	25.82	25.78	27.0	0.0		
Channel										
Frequency (MHz)										
632688	633332	634000	Tune-up limit (dBm)	MPR						
3460.02	3469.98	3510	(dB)	(dB)						
80	QPSK	1	1	25.82	25.79	25.79	27.0	0.0		
Channel										
Frequency (MHz)										
632000	633332	634666	Tune-up limit (dBm)	MPR						
3465	3499.98	3518.99	(dB)	(dB)						
70	QPSK	1	1	25.89	25.87	25.84	27.0	0.0		



Part270_n77(HPUe)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3760	3840	3930				
100	Pl2 BPSK	1	1	25.74	25.81	25.71				
100	Pl2 BPSK	1	137	25.93	25.96	25.92	27.0	0.0		
100	Pl2 BPSK	1	271	25.80	25.87	25.79				
100	Pl2 BPSK	135	0	25.35	25.37	25.26	26.5	0.5		
100	Pl2 BPSK	135	69	25.92	25.96	25.86	27.0	0.0		
100	Pl2 BPSK	135	138	25.37	25.47	25.46				
100	Pl2 BPSK	270	0	25.30	25.41	25.28	26.5	0.5		
100	QPSK	1	1	25.95	25.98	25.93				
100	QPSK	1	137	25.84	25.95	25.83	27.0	0.0		
100	QPSK	1	271	25.93	25.96	25.83				
100	QPSK	135	0	24.72	24.81	24.71	27.0	0.0		
100	QPSK	135	69	25.94	25.99	25.91				
100	QPSK	135	138	24.77	24.90	24.78				
100	QPSK	270	0	24.68	24.73	24.73	26.0	1.0		
100	16QAM	1	1	24.42	24.54	24.52	26.0	1.0		
100	64QAM	1	1	23.01	23.04	22.97	24.5	2.5		
100	256QAM	1	1	21.53	21.59	21.57	22.5	4.5		
Channel										
Frequency (MHz)										
				648668	650000	662332	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3742.02	3840	3924.98				
Channel										
Frequency (MHz)										
				648334	650000	662666	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3740.01	3840	3929.99				
Channel										
Frequency (MHz)										
				3735	3840	3945				
70	QPSK	1	1	25.80	25.91	25.82	27.0	0.0		
Channel										
Frequency (MHz)										
				648668	650000	663332	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	25.85	25.90	25.86	27.0	0.0		
Channel										
Frequency (MHz)										
				648334	650000	663666	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3725.01	3840	3924.99				
Channel										
Frequency (MHz)										
				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	25.85	25.93	25.85	27.0	0.0		
Channel										
Frequency (MHz)										
				647668	650000	663332	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	25.90	25.93	25.88	27.0	0.0		
Channel										
Frequency (MHz)										
				647500	650000	663500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	25.93	25.96	25.78	27.0	0.0		
Channel										
Frequency (MHz)										
				647334	650000	664666	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	25.94	25.94	25.86	27.0	0.0		
Channel										
Frequency (MHz)										
				3707.52	3840	3972.48				
15	QPSK	1	1	25.91	25.83	25.89	27.0	0.0		
Channel										
Frequency (MHz)										
				3705	3840	3975				
10	QPSK	1	1	25.89	25.88	25.80	27.0	0.0		

Part27Q_n77_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3499.98						
100	Pl2 BPSK	1	1		22.72					
100	Pl2 BPSK	1	137		22.69		24.0	0.0		
100	Pl2 BPSK	1	271		22.77					
100	Pl2 BPSK	135	0		22.67		24.0	0.0		
100	Pl2 BPSK	135	69		22.71		24.0	0.0		
100	Pl2 BPSK	135	138		22.77		24.0	0.0		
100	Pl2 BPSK	270	0		22.69		24.0	0.0		
100	QPSK	1	1		22.79					
100	QPSK	1	137		22.74		24.0	0.0		
100	QPSK	1	271		22.77					
100	QPSK	135	0		22.69		24.0	0.0		
100	QPSK	135	69		22.72		24.0	0.0		
100	QPSK	135	138		22.70		24.0	0.0		
100	QPSK	270	0		22.49		24.0	0.0		
100	16QAM	1	1		22.48		24.0	0.0		
100	64QAM	1	1		22.48		24.0	0.0		
100	256QAM	1	1		21.65		22.5	1.5		
Channel										
Frequency (MHz)										
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3495	3499.98	3504.98				
Channel										
Frequency (MHz)										
				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3490.02	3499.98	3510				
Channel										
Frequency (MHz)										
				3485.01	3499.98	3514.98				
70	QPSK	1	1	22.71	22.76	22.66	24.0	0.0		
Channel										
Frequency (MHz)										
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	22.72	22.65	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3475.02	3499.98	3525				
Channel										
Frequency (MHz)										
				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	22.75	22.64	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.68	22.72	22.70	24.0	0.0		
Channel										
Frequency (MHz)										
				630634	633332	636332	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	22.76	22.67	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	22.75	22.74	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
				3495.5	3499.98	3542.48				
15	QPSK	1	1	22.68	22.74	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	22.77	22.71	22.67	24.0	0.0		

Part270_n77_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3750	3840	3930				
100	Pl2 BPSK	1	1	22.68	22.76	22.74				
100	Pl2 BPSK	1	137	22.73	22.75	22.79	24.0	0.0		
100	Pl2 BPSK	1	271	22.68	22.74	22.68				
100	Pl2 BPSK	135	0	22.70	22.79	22.72	24.0	0.0		
100	Pl2 BPSK	135	69	22.73	22.71	22.75	24.0	0.0		
100	Pl2 BPSK	135	138	22.75	22.69	22.73	24.0	0.0		
100	Pl2 BPSK	270	0	22.80	22.68	22.69				
100	QPSK	1	1	22.76	22.83	22.75				
100	QPSK	1	137	22.70	22.74	22.73	24.0	0.0		
100	QPSK	1	271	22.67	22.75	22.69				
100	QPSK	135	0	22.67	22.78	22.67	24.0	0.0		
100	QPSK	135	69	22.76	22.80	22.71				
100	QPSK	135	138	22.72	22.70	22.67	24.0	0.0		
100	QPSK	270	0	22.69	22.70	22.69	24.0	0.0		
100	16QAM	1	1	22.38	22.48	22.49	24.0	0.0		
100	64QAM	1	1	22.46	22.44	22.42	24.0	0.0		
100	256QAM	1	1	21.59	21.51	21.57	22.5	1.5		
Channel										
Frequency (MHz)										
				648668	650000	662332	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3742.02	3840	3924.98				
Channel										
Frequency (MHz)										
				648334	650000	662998	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3740.01	3840	3929.99				
Channel										
Frequency (MHz)										
				3735	3840	3945				
70	QPSK	1	1	22.74	22.77	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
				648668	650000	663332	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	22.63	22.75	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
				648334	650000	663666	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3725.01	3840	3924.99				
Channel										
Frequency (MHz)										
				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	22.61	22.76	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
				647668	650000					



Part27Q_n77(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.58					
100	PI2 BPSK	1	137	25.10			26.5	0.0	
100	PI2 BPSK	1	271	25.36					
100	PI2 BPSK	135	0	25.14			26.5	0.0	
100	PI2 BPSK	135	69	25.27			26.5	0.0	
100	PI2 BPSK	135	138	25.30					
100	PI2 BPSK	270	0	25.33			26.5	0.0	
100	QPSK	1	1	25.32					
100	QPSK	1	137	25.12			26.5	0.0	
100	QPSK	1	271	25.41					
100	QPSK	135	0	25.13			26.5	0.0	
100	QPSK	135	69	25.38					
100	QPSK	135	138	25.28					
100	QPSK	270	0	25.15			26.0	0.5	
100	16QAM	1	1	24.39			26.0	0.5	
100	64QAM	1	1	23.32			24.5	2.0	
100	256QAM	1	1	21.85			22.5	4.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MPR (dB)	
				3495	3499.98	3504.98			
80	QPSK	1	1	25.58	25.62	25.93	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
				3496.02	3499.98	3510			
80	QPSK	1	1	25.47	25.51	25.58	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	634501	634998	635498	Tune-up limit (dBm)	MPR (dB)	
				25.58	25.49	25.55	26.5	0.0	
70	QPSK	1	1	25.58	25.49	25.55	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
				3480	3489.98	3489.98			
60	QPSK	1	1	25.51	25.54	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3499.98	3505			
50	QPSK	1	1	25.54	25.52	25.59	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3499.98	3509.98			
40	QPSK	1	1	25.47	25.48	25.55	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
				3465	3499.98	3504.98			
30	QPSK	1	1	25.46	25.52	25.59	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
				3462.51	3489.98	3507.48			
25	QPSK	1	1	25.44	25.57	25.50	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3499.98	3510			
20	QPSK	1	1	25.49	25.48	25.57	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	632000	633332	636332	Tune-up limit (dBm)	MPR (dB)	
				3457.5	3499.98	3512.48			
15	QPSK	1	1	25.53	25.52	25.52	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
				3455.01	3499.98	3514.98			
10	QPSK	1	1	25.46	25.57	25.52	26.5	0.0	

Part27Q_n77(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.31	25.34	25.19			
100	PI2 BPSK	1	137	25.08	25.17	25.14	26.5	0.0	
100	PI2 BPSK	1	271	24.77	24.83	24.88			
100	PI2 BPSK	135	0	25.37	25.45	25.32	26.5	0.0	
100	PI2 BPSK	135	69	25.34	25.46	25.42	26.5	0.0	
100	PI2 BPSK	135	138	25.26	25.31	25.21			
100	PI2 BPSK	270	0	25.40	25.41	25.36	26.5	0.0	
100	QPSK	1	1	25.42	25.48	25.32			
100	QPSK	1	137	25.05	25.11	25.05	26.5	0.0	
100	QPSK	1	271	24.83	24.75	24.81			
100	QPSK	135	0	24.97	25.08	25.02			
100	QPSK	135	69	25.26	25.43	25.42	26.5	0.0	
100	QPSK	135	138	25.06	25.10	24.97			
100	QPSK	270	0	25.07	25.11	25.02	26.5	0.0	
100	16QAM	1	1	24.76	24.81	24.80	26.5	0.0	
100	64QAM	1	1	23.01	23.15	23.12	23.0	1.5	
100	256QAM	1	1	21.65	21.73	21.86	22.5	4.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
				3742.02	3840	3943.98			
80	QPSK	1	1	25.35	25.38	25.15	25.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	648334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3840	3939.98			
80	QPSK	1	1	25.32	25.46	25.10	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
				3735	3840	3945			
70	QPSK	1	1	25.32	25.39	25.13	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648968	650000	653332	Tune-up limit (dBm)	MPR (dB)	
				3732.02	3840	3948.98			
60	QPSK	1	1	25.27	25.45	25.07	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	653666	Tune-up limit (dBm)	MPR (dB)	
				3725.01	3840	3943.98			
50	QPSK	1	1	25.31	25.42	25.12	25.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
				3720	3840	3960			
40	QPSK	1	1	25.36	25.35	25.20	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	654332	Tune-up limit (dBm)	MPR (dB)	
				3715.02	3840	3954.98			
30	QPSK	1	1	25.29	25.41	25.21	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647900	650000	654500	Tune-up limit (dBm)	MPR (dB)	
				3712.5	3840	3971.5			
25	QPSK	1	1	25.36	25.35	25.18	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	654666	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3840	3959.98			
20	QPSK	1	1	25.38	25.38	25.17	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
				3707.52	3840	3972.48			
15	QPSK	1	1	25.34	25.42	25.20	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
				3705	3840	3975			
10	QPSK	1	1	25.38	25.40	25.12	26.5	0.0	

Part27Q_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1			22.84			
100	PI2 BPSK	1	137			22.89	24.0	0.0	
100	PI2 BPSK	1	271			22.81			
100	PI2 BPSK	135	0			22.84	24.0	0.0	
100	PI2 BPSK	135	69			22.77	24.0	0.0	
100	PI2 BPSK	135	138			22.84			
100	PI2 BPSK	270	0			22.88	24.0	0.0	
100	QPSK	1	1			22.85			
100	QPSK	1	137			22.75	24.0	0.0	
100	QPSK	1	271			22.82			
100	QPSK	135	0			22.76			
100	QPSK	135	69			22.84	24.0	0.0	
100	QPSK	135	138			22.74			
100	QPSK	270	0			22.73	24.0	0.0	
100	16QAM	1	1			22.51	24.0	0.0	
100	64QAM	1	1			22.57	24.0	0.0	
100	256QAM	1	1			21.83	22.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MPR (dB)	
				3495	3499.98	3504.98			
80	QPSK	1	1	22.88	22.83	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
				3496.02	3499.98	3510			
80	QPSK	1	1	22.83	22.80	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	634501	634998	635498	Tune-up limit (dBm)	MPR (dB)	
				22.81	22.89	22.83	24.0	0.0	
70	QPSK	1	1	22.81	22.89	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
				3480	3489.98	3489.98			
60	QPSK	1	1	22.91	22.84	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3499.98	3505			
50	QPSK	1	1	22.92	22.84	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3499.98	3509.98			
40	QPSK	1	1	22.86	22.81	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
				3465	3499.98	3504.98			
30	QPSK	1	1	22.					



Part270_n77_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				65000	65000	66000				
				3760	3840	3930				
100	Pl2 BPSK	1	1	22.80	22.80	22.79				
100	Pl2 BPSK	1	137	22.78	22.85	22.79	24.0	0.0		
100	Pl2 BPSK	1	271	22.88	22.74	22.74				
100	Pl2 BPSK	136	0	22.77	22.79	22.78	24.0	0.0		
100	Pl2 BPSK	136	69	22.76	22.76	22.63	24.0	0.0		
100	Pl2 BPSK	136	138	22.74	22.81	22.71				
100	Pl2 BPSK	270	0	22.84	22.87	22.79	24.0	0.0		
100	QPSK	1	1	22.88	22.84	22.82				
100	QPSK	1	137	22.73	22.69	22.71	24.0	0.0		
100	QPSK	1	271	22.75	22.70	22.81				
100	QPSK	136	0	22.85	22.84	22.74				
100	QPSK	136	69	22.82	22.85	22.83	24.0	0.0		
100	QPSK	136	138	22.72	22.62	22.69				
100	QPSK	270	0	22.71	22.78	22.63	24.0	0.0		
100	16QAM	1	1	22.49	22.50	22.48	24.0	0.0		
100	64QAM	1	1	22.46	22.52	22.55	24.0	0.0		
100	256QAM	1	1	21.60	21.58	21.59	22.5	1.5		
Channel										
Frequency (MHz)										
				65000	65000	66232	Tune-up limit (dBm)	MPR (dB)		
				3742.02	3840	3924.98				
80	QPSK	1	1	22.71	22.83	22.89	24.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65066	Tune-up limit (dBm)	MPR (dB)		
				3740.01	3840	3929.99				
80	QPSK	1	1	22.71	22.89	22.82	24.0	0.0		
Channel										
Frequency (MHz)										
				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)		
				3735	3840	3945				
70	QPSK	1	1	22.84	22.83	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
				64868	65000	65332	Tune-up limit (dBm)	MPR (dB)		
				3742.02	3840	3924.98				
60	QPSK	1	1	22.79	22.82	22.83	24.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65066	Tune-up limit (dBm)	MPR (dB)		
				3725.01	3840	3924.98				
50	QPSK	1	1	22.71	22.50	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)		
				3720	3840	3960				
40	QPSK	1	1	22.77	22.79	22.84	24.0	0.0		
Channel										
Frequency (MHz)										
				64768	65000	65232	Tune-up limit (dBm)	MPR (dB)		
				3715.02	3840	3924.98				
30	QPSK	1	1	22.83	22.83	22.89	24.0	0.0		
Channel										
Frequency (MHz)										
				64700	65000	65400	Tune-up limit (dBm)	MPR (dB)		
				3723	3840	3973.5				
25	QPSK	1	1	22.51	22.98	22.85	24.0	0.0		
Channel										
Frequency (MHz)										
				64734	65000	65466	Tune-up limit (dBm)	MPR (dB)		
				3710.01	3840	3929.99				
20	QPSK	1	1	22.52	22.88	22.88	24.0	0.0		
Channel										
Frequency (MHz)										
				64766	65000	65232	Tune-up limit (dBm)	MPR (dB)		
				3707.52	3840	3972.48				
15	QPSK	1	1	22.77	22.87	22.84	24.0	0.0		
Channel										
Frequency (MHz)										
				64700	65000	65000	Tune-up limit (dBm)	MPR (dB)		
				3705	3840	3975				
10	QPSK	1	1	22.77	22.91	22.80	24.0	0.0		

Part270_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				63900	63932	63998				
100	Pl2 BPSK	1	1	25.94						
100	Pl2 BPSK	1	137	26.03			27.0	0.0		
100	Pl2 BPSK	1	271	26.02						
100	Pl2 BPSK	136	0	25.92			26.5	0.5		
100	Pl2 BPSK	136	69	25.96			27.0	0.0		
100	Pl2 BPSK	136	138	25.92			26.5	0.5		
100	Pl2 BPSK	270	0	25.90			26.5	0.5		
100	QPSK	1	1	26.09						
100	QPSK	1	137	25.95			27.0	0.0		
100	QPSK	1	271	25.74						
100	QPSK	136	0	24.89			27.0	0.0		
100	QPSK	136	69	25.95						
100	QPSK	136	138	24.89			27.0	0.0		
100	QPSK	270	0	24.86			26.0	1.0		
100	16QAM	1	1	24.58			26.0	1.0		
100	64QAM	1	1	23.11			24.5	2.5		
100	256QAM	1	1	21.75			22.5	4.5		
Channel										
Frequency (MHz)										
				63900	63332	63866	Tune-up limit (dBm)	MPR (dB)		
				3405	3499.98	3544.98				
80	QPSK	1	1	25.99	25.95	25.95	27.0	0.0		
Channel										
Frequency (MHz)										
				63268	63332	63400	Tune-up limit (dBm)	MPR (dB)		
				3400.02	3499.98	3510				
80	QPSK	1	1	25.98	26.01	26.08	27.0	0.0		
Channel										
Frequency (MHz)										
				63284	63332	63432	Tune-up limit (dBm)	MPR (dB)		
				3405.01	3499.98	3514.98				
70	QPSK	1	1	25.97	25.98	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
				63200	63332	63466	Tune-up limit (dBm)	MPR (dB)		
				3400	3499.98	3518.98				
60	QPSK	1	1	26.05	26.02	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
				63168	63332	63500	Tune-up limit (dBm)	MPR (dB)		
				3475.02	3499.98	3525				
50	QPSK	1	1	25.99	25.99	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)		
				3470.01	3499.98	3529.98				
40	QPSK	1	1	25.97	26.04	25.99	27.0	0.0		
Channel										
Frequency (MHz)										
				63100	63332	63566	Tune-up limit (dBm)	MPR (dB)		
				3465	3499.98	3534.98				
30	QPSK	1	1	25.94	26.02	26.03	27.0	0.0		
Channel										
Frequency (MHz)										
				63084	63332	63632	Tune-up limit (dBm)	MPR (dB)		
				3462.01	3499.98	3537.01				
25	QPSK	1	1	26.06	26.08	26.08	27.0	0.0		
Channel										
Frequency (MHz)										
				63068	63332	63600	Tune-up limit (dBm)	MPR (dB)		
				3460.02	3499.98	3540				
20	QPSK	1	1	26.01	26.07	25.94	27.0	0.0		
Channel										
Frequency (MHz)										
				63050	63332	63666	Tune-up limit (dBm)	MPR (dB)		
				3457.5	3499.98	3542.48				
15	QPSK	1	1	26.03	26.07	25.97	27.0	0.0		
Channel										
Frequency (MHz)										
				63034	63332	63732	Tune-up limit (dBm)	MPR (dB)		
				3455.01	3499.98	3544.98				
10	QPSK	1	1	25.95	26.02	25.96	27.0	0.0		

Part270_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				65000	65000	66000				
				3750	3840	3930				
100	Pl2 BPSK	1	1	25.96	25.99	26.00				
100	Pl2 BPSK	1	137	26.04	26.07	26.08	27.0	0.0		
100	Pl2 BPSK	1	271	26.04	25.97	25.97				
100	Pl2 BPSK	136	0	25.97	25.94	25.96	26.5	0.5		
100	Pl2 BPSK	136	69	25.92	25.91	25.95	27.0	0.0		
100	Pl2 BPSK	136	138	25.92	25.94	25.90	26.5	0.5		
100	Pl2 BPSK	270	0	25.96	25.92	25.90	26.5	0.5		
100	QPSK	1	1	25.95	26.04	25.95				
100	QPSK	1	137	25.97	25.91	26.02	27.0	0.0		
100	QPSK	1	271	25.70	25.78	25.73				
100	QPSK	136	0	24.91	24.95	24.94	27.0	0.0		
100	QPSK	136	69	25.95	25.94	25.95				
100	QPSK	136	138	24.95	24.88	24.85	27.0	0.0		
100	QPSK	270	0	24.81	24.86	24.83	26.0	1.0		
100	16QAM	1	1	24.64	24.84	24.86	26.0	1.0		
100	64QAM	1	1	23.15	23.13	23.18	24.5	2.5		
100	256QAM	1	1	21.84	21.76	21.79	22.5	4.5		
Channel										
Frequency (MHz)										
				64968	65000	66232	Tune-up limit (dBm)	MPR (dB)		
				3742.02	3840	3924.98				
80	QPSK	1	1	26.02	26.12	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65066	Tune-up limit (dBm)	MPR (dB)		
				3740.01	3840	3929.99				
80	QPSK	1	1	26.05	26.02	25.95	27.0	0.0		
Channel										
Frequency (MHz)										
				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)		
				3735	3840	3945				
70	QPSK	1	1	25.93	25.99	26.03	27.0	0.0		
Channel										
Frequency (MHz)										
				64868	65000	65332	Tune-up limit (dBm)	MPR (dB)		
				3742.02	3840	3924.98				
60	QPSK	1	1	26.00	26.13	26.02	27.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65066	Tune-up limit (dBm)	MPR (dB)		
				3725.01	3840	3924.98				
50	QPSK	1	1	25.96	26.01	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)		
				3720	3840	3960				
40	QPSK	1	1	26.05	26.07	26.02	27.0	0.0		
Channel										
Frequency (MHz)										
				64768	65000	65232	Tune-up limit (dBm)	MPR (dB)		
				3715.02	3840	3924.98				
30	QPSK	1	1	26.00	2					



Part27Q_n77_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.54						
100	PI2 BPSK	1	137	22.42			24.0	0.0		
100	PI2 BPSK	1	271	22.51						
100	PI2 BPSK	135	0	22.54			24.0	0.0		
100	PI2 BPSK	135	69	22.52			24.0	0.0		
100	PI2 BPSK	135	138	22.51			24.0	0.0		
100	PI2 BPSK	270	0	22.45						
100	QPSK	1	1	22.56						
100	QPSK	1	137	22.52			24.0	0.0		
100	QPSK	1	271	22.51						
100	QPSK	135	0	22.50			24.0	0.0		
100	QPSK	135	69	22.51						
100	QPSK	135	138	22.44						
100	QPSK	270	0	22.41			24.0	0.0		
100	16QAM	1	1	22.17			24.0	0.0		
100	64QAM	1	1	22.26			24.0	0.0		
100	256QAM	1	1	21.37			22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3465	3469.98	3504.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	63268	63332	63400	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3450.02	3459.98	3510	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.52	22.51	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	63200	63332	63466	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3475.02	3489.98	3525	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	63134	63332	63532	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3470.01	3489.98	3529.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.50	22.55	22.44	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	63084	63332	63582	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3485.01	3489.98	3514.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.50	22.50	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63068	63332	63600	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3460.02	3469.98	3540	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.43	22.48	22.46	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63034	63332	63632	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.47	22.44	22.51	24.0	0.0		

Part270_n77_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.51	22.49	22.52				
100	PI2 BPSK	1	137	22.50	22.40	22.38	24.0	0.0		
100	PI2 BPSK	1	271	22.54	22.50	22.55				
100	PI2 BPSK	135	0	22.51	22.56	22.53	24.0	0.0		
100	PI2 BPSK	135	69	22.60	22.52	22.51	24.0	0.0		
100	PI2 BPSK	135	138	22.48	22.57	22.60	24.0	0.0		
100	PI2 BPSK	270	0	22.42	22.51	22.48				
100	QPSK	1	1	22.57	22.53	22.51				
100	QPSK	1	137	22.48	22.54	22.55	24.0	0.0		
100	QPSK	1	271	22.56	22.57	22.58				
100	QPSK	135	0	22.58	22.50	22.46	24.0	0.0		
100	QPSK	135	69	22.70	22.62	22.72				
100	QPSK	135	138	22.45	22.47	22.48	24.0	0.0		
100	QPSK	270	0	22.40	22.46	22.38	24.0	0.0		
100	16QAM	1	1	22.25	22.12	22.20	24.0	0.0		
100	64QAM	1	1	22.30	22.27	22.37	24.0	0.0		
100	256QAM	1	1	21.35	21.43	21.36	22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	64800	65000	66200	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	64834	65000	66366	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3725.01	3840	3945.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.46	22.53	22.46	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	64868	65000	66332	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	64834	65000	66366	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3725.01	3840	3945.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.50	22.49	22.60	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	64800	65000	66400	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3720	3840	3960	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.45	22.55	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	64760	65000	66450	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3725.01	3840	3975.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.42	22.56	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	64734	65000	66466	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3710.01	3840	3969.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.45	22.52	22.60	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	64768	65000	66432	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3705.02	3840	3972.48	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.50	22.51	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	64700	65000	66500	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.45	22.60	22.50	24.0	0.0		

Part27Q_n77(HPUe)_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	25.89						
100	PI2 BPSK	1	137	26.12			27.0	0.0		
100	PI2 BPSK	1	271	26.07						
100	PI2 BPSK	135	0	25.49			26.5	0.5		
100	PI2 BPSK	135	69	25.93			27.0	0.0		
100	PI2 BPSK	135	138	26.09			26.5	0.5		
100	PI2 BPSK	270	0	25.50						
100	QPSK	1	1	26.16						
100	QPSK	1	137	26.13			27.0	0.0		
100	QPSK	1	271	25.98						
100	QPSK	135	0	24.91			27.0	0.0		
100	QPSK	135	69	26.06						
100	QPSK	135	138	25.18			27.0	0.0		
100	QPSK	270	0	24.34			26.0	1.0		
100	16QAM	1	1	24.38			26.0	1.0		
100	64QAM	1	1	23.08			24.5	2.5		
100	256QAM	1	1	21.65			22.5	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.15	26.11	26.11	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.11	26.09	26.11	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	26.12	26.02	26.09	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	63000	63332	63466	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.01	26.12	26.08	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.02	26.11	26.10	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63134	63332	63532	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.05	26.03	26.15	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	63000	63332	63566	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	26.04	26.01	26.12	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63084	63332	63582	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3485.01	3489.98	3514.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.07	26.10	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	63068	63332	63600	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3460.02	3469.98	3540	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.02	26.03	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63000	63332	63632	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3457.5	3489.98	3542.48	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	26.01	26.09	26.10	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63034	63332	63632	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	26.07	26.08	26.07	27.0	0.0		



Part270_n77(HPUJE_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	25.95	25.93	25.85				
100	PI2 BPSK	1	137	26.11	26.21	26.18	27.0	0.0		
100	PI2 BPSK	1	271	26.15	26.13	26.13				
100	PI2 BPSK	135	0	25.58	25.50	25.53	26.5	0.5		
100	PI2 BPSK	135	69	25.96	26.01	25.89	27.0	0.0		
100	PI2 BPSK	135	138	25.64	25.70	25.66				
100	PI2 BPSK	270	0	25.53	25.56	25.59				
100	QPSK	1	1	25.17	25.22	25.20				
100	QPSK	1	137	26.12	26.15	26.10	27.0	0.0		
100	QPSK	1	271	26.02	26.07	25.94				
100	QPSK	135	0	24.99	24.89	24.96				
100	QPSK	135	69	25.01	25.13	25.12				
100	QPSK	135	138	25.21	25.17	25.17	27.0	0.0		
100	QPSK	270	0	24.92	24.99	24.98	26.0	1.0		
100	16QAM	1	1	24.63	24.55	24.61	26.0	1.0		
100	64QAM	1	1	23.04	23.06	23.16	24.5	2.5		
100	256QAM	1	1	21.74	21.72	21.62	22.5	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.07	26.19	26.16	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.11	26.15	26.13	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	26.08	26.15	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.06	26.18	26.08	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.13	26.21	26.05	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.09	26.09	26.11	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	26.14	26.12	26.15	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.07	26.19	26.10	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.13	26.21	26.07	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	26.09	26.18	26.07	27.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	26.10	26.10	26.10	27.0	0.0		

Part27Q_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		22.42					
100	PI2 BPSK	1	137		22.41		24.0	0.0		
100	PI2 BPSK	1	271		22.41					
100	PI2 BPSK	135	0		22.40		24.0	0.0		
100	PI2 BPSK	135	69		22.44		24.0	0.0		
100	PI2 BPSK	135	138		22.37		24.0	0.0		
100	QPSK	1	1		22.38					
100	QPSK	1	137		22.45		24.0	0.0		
100	QPSK	1	271		22.47					
100	QPSK	135	0		22.38		24.0	0.0		
100	QPSK	135	69		22.47					
100	QPSK	135	138		22.38		24.0	0.0		
100	QPSK	270	0		22.48		24.0	0.0		
100	16QAM	1	1		22.10		24.0	0.0		
100	64QAM	1	1		22.15		24.0	0.0		
100	256QAM	1	1		21.16		22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.48	22.41	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.53	22.43	22.46	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.50	22.54	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.52	22.52	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.53	22.49	22.45	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.42	22.48	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.45	22.48	22.46	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.53	22.50	22.48	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.52	22.47	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.49	22.49	22.43	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.47	22.48	22.51	24.0	0.0		

Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		22.48					
100	PI2 BPSK	1	137		22.48		24.0	0.0		
100	PI2 BPSK	1	271		22.43					
100	PI2 BPSK	135	0		22.47		24.0	0.0		
100	PI2 BPSK	135	69		22.46		24.0	0.0		
100	PI2 BPSK	135	138		22.41		24.0	0.0		
100	PI2 BPSK	270	0		22.44					
100	QPSK	1	1		22.37					
100	QPSK	1	137		22.44		24.0	0.0		
100	QPSK	1	271		22.50					
100	QPSK	135	0		22.42		24.0	0.0		
100	QPSK	135	69		22.52					
100	QPSK	135	138		22.42		24.0	0.0		
100	QPSK	270	0		22.44		24.0	0.0		
100	16QAM	1	1		22.36		24.0	0.0		
100	64QAM	1	1		22.21		24.0	0.0		
100	256QAM	1	1		21.10		22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.47	22.56	22.40	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.42	22.55	22.45	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.43	22.42	22.41	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.36	22.49	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.42	22.46	22.47	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.38	22.53	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.42	22.52	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.48	22.53	22.45	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.39	22.42	22.38	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.42	22.50	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.35	22.54	22.38	24.0	0.0		



Part27Q_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.53					
100	PI2 BPSK	1	137	25.69			27.0	0.0	
100	PI2 BPSK	1	271	25.70					
100	PI2 BPSK	135	9	25.10			26.5	0.5	
100	PI2 BPSK	135	69	25.65			27.0	0.0	
100	PI2 BPSK	135	138	25.15					
100	PI2 BPSK	270	0	25.14			26.5	0.5	
100	QPSK	1	1	25.57					
100	QPSK	1	137	25.68			27.0	0.0	
100	QPSK	1	271	25.69					
100	QPSK	135	9	24.58					
100	QPSK	135	69	25.50			27.0	0.0	
100	QPSK	135	138	24.57					
100	QPSK	270	0	24.48			26.0	1.0	
100	16QAM	1	1	24.25			26.0	1.0	
100	64QAM	1	1	22.77			24.5	2.5	
100	256QAM	1	1	21.33			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.92	24.99	25.04	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.61	25.69	25.69	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.68	25.61	25.61	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.62	25.56	25.56	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.60	25.57	25.60	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.62	25.61	25.56	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.67	25.56	25.65	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.61	25.60	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.46	25.64	25.64	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.62	25.68	25.67	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.65	25.63	25.62	27.0	0.0	

Part27Q_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.43					
100	PI2 BPSK	1	137	25.57			27.0	0.0	
100	PI2 BPSK	1	271	25.58					
100	PI2 BPSK	135	9	25.04			26.5	0.5	
100	PI2 BPSK	135	69	25.58			27.0	0.0	
100	PI2 BPSK	135	138	24.99					
100	PI2 BPSK	270	0	24.68			26.5	0.5	
100	QPSK	1	1	25.52					
100	QPSK	1	137	25.39			27.0	0.0	
100	QPSK	1	271	25.58					
100	QPSK	135	9	24.41					
100	QPSK	135	69	25.45			27.0	0.0	
100	QPSK	135	138	24.40					
100	QPSK	270	0	24.32			26.0	1.0	
100	16QAM	1	1	24.11			26.0	1.0	
100	64QAM	1	1	22.62			24.5	2.5	
100	256QAM	1	1	21.09			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.92	24.92	24.98	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.56	25.56	25.57	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.56	25.53	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.56	25.56	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.40	25.54	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.55	25.59	25.56	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.51	25.56	25.57	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.50	25.57	25.57	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.37	25.54	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.63	25.59	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.61	25.61	25.56	27.0	0.0	



Part27Q_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.61					
100	PI2 BPSK	1	137	22.66			24.0	0.0	
100	PI2 BPSK	1	271	22.69					
100	PI2 BPSK	135	9	22.60			24.0	0.0	
100	PI2 BPSK	135	69	22.66			24.0	0.0	
100	PI2 BPSK	135	138	22.67					
100	PI2 BPSK	270	0	22.63			24.0	0.0	
100	QPSK	1	1	22.52					
100	QPSK	1	137	22.65			24.0	0.0	
100	QPSK	1	271	22.71					
100	QPSK	135	0	22.47			24.0	0.0	
100	QPSK	135	69	22.52					
100	QPSK	135	138	22.51					
100	QPSK	270	0	22.43			24.0	0.0	
100	16QAM	1	1	22.31			24.0	0.0	
100	64QAM	1	1	22.29			24.0	0.0	
100	256QAM	1	1	21.41			22.5	1.5	
Channel									
Frequency (MHz)									
633000	633332	633666					Tune-up limit (dBm)	MPR (dB)	
3495	3499.98	3504.99					(dB)		
90	QPSK	1	1	22.62	22.61	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
63098	63332	63400					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3510					(dB)		
80	QPSK	1	1	22.63	22.63	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63234	63332	63432					Tune-up limit (dBm)	MPR (dB)	
3468.01	3469.98	3514.98					(dB)		
70	QPSK	1	1	22.61	22.54	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
63000	63332	63466					Tune-up limit (dBm)	MPR (dB)	
3484	3489.98	3518.99					(dB)		
60	QPSK	1	1	22.49	22.50	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
63168	63332	63500					Tune-up limit (dBm)	MPR (dB)	
3479.02	3499.98	3505					(dB)		
50	QPSK	1	1	22.50	22.53	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63134	63332	63332					Tune-up limit (dBm)	MPR (dB)	
3470.01	3469.98	3529.98					(dB)		
40	QPSK	1	1	22.50	22.57	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
63100	63332	63506					Tune-up limit (dBm)	MPR (dB)	
3466	3469.98	3534.99					(dB)		
30	QPSK	1	1	22.54	22.58	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
63034	63332	63692					Tune-up limit (dBm)	MPR (dB)	
3462.01	3469.98	3537.98					(dB)		
25	QPSK	1	1	22.45	22.50	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
63068	63332	63600					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3540					(dB)		
20	QPSK	1	1	22.56	22.51	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
63050	63332	63736					Tune-up limit (dBm)	MPR (dB)	
3457.5	3469.98	3542.49					(dB)		
15	QPSK	1	1	22.54	22.53	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
63034	63332	63632					Tune-up limit (dBm)	MPR (dB)	
3455.01	3469.98	3544.98					(dB)		
10	QPSK	1	1	22.60	22.56	22.56	24.0	0.0	

Part27O_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.71					
100	PI2 BPSK	1	137	22.70			24.0	0.0	
100	PI2 BPSK	1	271	22.68					
100	PI2 BPSK	135	9	22.72			24.0	0.0	
100	PI2 BPSK	135	69	22.71			24.0	0.0	
100	PI2 BPSK	135	138	22.69					
100	PI2 BPSK	270	0	22.73			24.0	0.0	
100	QPSK	1	1	22.77					
100	QPSK	1	137	22.74			24.0	0.0	
100	QPSK	1	271	22.73					
100	QPSK	135	0	22.69			24.0	0.0	
100	QPSK	135	69	22.77					
100	QPSK	135	138	22.72					
100	QPSK	270	0	22.64			24.0	0.0	
100	16QAM	1	1	22.45			24.0	0.0	
100	64QAM	1	1	22.39			24.0	0.0	
100	256QAM	1	1	21.45			22.5	1.5	
Channel									
Frequency (MHz)									
646668	650000	650332					Tune-up limit (dBm)	MPR (dB)	
3745.02	3750	3754.98					(dB)		
90	QPSK	1	1	22.73	22.71	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
646334	650000	650066					Tune-up limit (dBm)	MPR (dB)	
3740.01	3750	3759.99					(dB)		
80	QPSK	1	1	22.71	22.61	22.59	24.0	0.0	
Channel									
Frequency (MHz)									
646000	650000	6501000					Tune-up limit (dBm)	MPR (dB)	
3735	3750	3765					(dB)		
70	QPSK	1	1	22.63	22.67	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
646668	650000	651332					Tune-up limit (dBm)	MPR (dB)	
3730.02	3750	3768.98					(dB)		
60	QPSK	1	1	22.69	22.56	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
646334	650000	651666					Tune-up limit (dBm)	MPR (dB)	
3725.01	3750	3774.99					(dB)		
50	QPSK	1	1	22.72	22.58	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
646000	650000	652000					Tune-up limit (dBm)	MPR (dB)	
3720	3750	3780					(dB)		
40	QPSK	1	1	22.70	22.69	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
647668	650000	652332					Tune-up limit (dBm)	MPR (dB)	
3715.02	3750	3784.98					(dB)		
30	QPSK	1	1	22.60	22.66	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	652900					Tune-up limit (dBm)	MPR (dB)	
3712.5	3750	3791.5					(dB)		
25	QPSK	1	1	22.69	22.64	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3710.01	3750	3789.99					(dB)		
20	QPSK	1	1	22.66	22.56	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)	
3707.52	3750	3792.48					(dB)		
15	QPSK	1	1	22.63	22.64	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	653300					Tune-up limit (dBm)	MPR (dB)	
3705	3750	3786					(dB)		
10	QPSK	1	1	22.61	22.61	22.55	24.0	0.0	



Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.49					
100	PI2 BPSK	1	137	25.57			26.5	0.0	
100	PI2 BPSK	1	271	25.51					
100	PI2 BPSK	135	9	25.50			26.0	0.5	
100	PI2 BPSK	135	69	25.52			26.5	0.0	
100	PI2 BPSK	135	138	25.50					
100	PI2 BPSK	270	0	25.52			26.0	0.5	
100	QPSK	1	1	25.49					
100	QPSK	1	137	25.47			26.5	0.0	
100	QPSK	1	271	25.49					
100	QPSK	135	0	24.86					
100	QPSK	135	69	25.45			26.5	0.0	
100	QPSK	135	138	24.91					
100	QPSK	270	0	24.81			25.5	1.0	
100	16QAM	1	1	24.54			25.5	1.0	
100	64QAM	1	1	23.07			24.0	2.5	
100	256QAM	1	1	21.72			22.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.34	25.41	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.37	25.34	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.34	25.38	25.29	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.37	25.36	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.30	25.40	25.32	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.30	25.44	25.38	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.24	25.40	25.36	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.37	25.39	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.38	25.32	25.29	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.24	25.41	25.41	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.38	25.43	25.38	26.5	0.0	

Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.56					
100	PI2 BPSK	1	137	25.58			26.5	0.0	
100	PI2 BPSK	1	271	25.41					
100	PI2 BPSK	135	9	25.61			26.0	0.5	
100	PI2 BPSK	135	69	25.59			26.5	0.0	
100	PI2 BPSK	135	138	25.63					
100	PI2 BPSK	270	0	25.61			26.0	0.5	
100	QPSK	1	1	25.56					
100	QPSK	1	137	25.49			26.5	0.0	
100	QPSK	1	271	25.30					
100	QPSK	135	0	25.08					
100	QPSK	135	69	25.07			26.5	0.0	
100	QPSK	135	138	25.10					
100	QPSK	270	0	24.87			25.5	1.0	
100	16QAM	1	1	24.73			25.5	1.0	
100	64QAM	1	1	23.07			24.0	2.5	
100	256QAM	1	1	21.54			22.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.47	25.59	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.49	25.54	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.42	25.62	25.45	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.41	25.56	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.42	25.62	25.45	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.37	25.49	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.40	25.59	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.50	25.56	25.41	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.38	25.55	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.46	25.56	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.48	25.50	25.38	26.5	0.0	



Part27Q_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.91					
100	PI2 BPSK	1	137	22.96			24.0	0.0	
100	PI2 BPSK	1	271	22.97					
100	PI2 BPSK	135	9	22.92			24.0	0.0	
100	PI2 BPSK	135	69	22.95			24.0	0.0	
100	PI2 BPSK	135	138	22.99					
100	PI2 BPSK	270	0	22.91			24.0	0.0	
100	QPSK	1	1	22.91					
100	QPSK	1	137	22.93			24.0	0.0	
100	QPSK	1	271	23.06					
100	QPSK	135	9	22.93					
100	QPSK	135	69	23.00			24.0	0.0	
100	QPSK	135	138	22.97					
100	QPSK	270	0	22.99			24.0	0.0	
100	16QAM	1	1	22.61			24.0	0.0	
100	64QAM	1	1	22.59			24.0	0.0	
100	256QAM	1	1	21.72			22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.95	22.93	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.84	22.90	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.96	22.91	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.96	22.90	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.87	22.91	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.90	22.83	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.89	22.86	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.99	22.96	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.89	22.83	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.98	22.92	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.95	22.93	24.0	0.0	

Part27O_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.13					
100	PI2 BPSK	1	137	23.14			24.0	0.0	
100	PI2 BPSK	1	271	23.11					
100	PI2 BPSK	135	9	23.02			24.0	0.0	
100	PI2 BPSK	135	69	23.14			24.0	0.0	
100	PI2 BPSK	135	138	23.13					
100	PI2 BPSK	270	0	23.09			24.0	0.0	
100	QPSK	1	1	23.13					
100	QPSK	1	137	23.08			24.0	0.0	
100	QPSK	1	271	23.04					
100	QPSK	135	9	23.09					
100	QPSK	135	69	23.11			24.0	0.0	
100	QPSK	135	138	23.06					
100	QPSK	270	0	22.98			24.0	0.0	
100	16QAM	1	1	22.87			24.0	0.0	
100	64QAM	1	1	22.80			24.0	0.0	
100	256QAM	1	1	21.85			22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.10	23.11	23.13	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.06	23.10	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.02	23.13	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.00	23.10	23.09	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.01	23.09	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.01	23.09	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.08	23.06	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.04	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.02	23.05	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.09	23.03	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.01	23.05	23.06	24.0	0.0	



Part27Q_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.75					
100	PI2 BPSK	1	137	25.79			27.0	0.0	
100	PI2 BPSK	1	271	25.82					
100	PI2 BPSK	135	9	25.99			26.5	0.5	
100	PI2 BPSK	135	69	26.03			27.0	0.0	
100	PI2 BPSK	135	138	25.92					
100	PI2 BPSK	270	0	25.85			26.5	0.5	
100	QPSK	1	1	25.72					
100	QPSK	1	137	25.72			27.0	0.0	
100	QPSK	1	271	25.81					
100	QPSK	135	0	25.23					
100	QPSK	135	69	25.23			27.0	0.0	
100	QPSK	135	138	25.41					
100	QPSK	270	0	25.04			26.0	1.0	
100	16QAM	1	1	24.91			26.0	1.0	
100	64QAM	1	1	23.29			24.5	2.5	
100	256QAM	1	1	21.82			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.95	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.03	3499.98	3510.00	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.00	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.03	3499.98	3518.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.07	3499.98	3523.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.04	3499.98	3528.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.07	3499.98	3533.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.04	3499.98	3538.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.07	3499.98	3543.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.02	3499.98	3548.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.06	3499.98	3553.98	Tune-up limit (dBm)	MPR (dB)	

Part27O_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.82					
100	PI2 BPSK	1	137	25.83			27.0	0.0	
100	PI2 BPSK	1	271	25.89					
100	PI2 BPSK	135	9	26.06			26.5	0.5	
100	PI2 BPSK	135	69	26.05			27.0	0.0	
100	PI2 BPSK	135	138	26.02					
100	PI2 BPSK	270	0	25.87			26.5	0.5	
100	QPSK	1	1	25.77					
100	QPSK	1	137	25.76			27.0	0.0	
100	QPSK	1	271	25.59					
100	QPSK	135	0	25.23					
100	QPSK	135	69	25.22			27.0	0.0	
100	QPSK	135	138	25.39					
100	QPSK	270	0	25.13			26.0	1.0	
100	16QAM	1	1	25.01			26.0	1.0	
100	64QAM	1	1	23.32			24.5	2.5	
100	256QAM	1	1	21.80			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.85	3750	3754.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.90	3750	3759.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.97	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.97	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.97	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.98	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.99	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.97	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.98	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.99	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.02	3750	3765	Tune-up limit (dBm)	MPR (dB)	



Part27Q_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.85					
100	PI2 BPSK	1	137	23.01			24.0	0.0	
100	PI2 BPSK	1	271	22.98					
100	PI2 BPSK	135	9	22.95			24.0	0.0	
100	PI2 BPSK	135	69	22.94			24.0	0.0	
100	PI2 BPSK	135	138	22.95					
100	PI2 BPSK	270	0	22.98			24.0	0.0	
100	QPSK	1	1	22.92					
100	QPSK	1	137	22.92			24.0	0.0	
100	QPSK	1	271	22.75					
100	QPSK	135	9	22.80					
100	QPSK	135	69	22.92			24.0	0.0	
100	QPSK	135	138	22.80					
100	QPSK	270	0	22.82			24.0	0.0	
100	16QAM	1	1	22.43			24.0	0.0	
100	64QAM	1	1	22.52			24.0	0.0	
100	256QAM	1	1	21.80			22.5	1.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.01	23.07	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.08	23.07	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.00	23.02	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.02	22.99	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.07	23.00	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.07	23.01	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.04	23.02	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.11	23.02	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.06	23.02	23.06	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.08	23.02	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.03	23.08	23.06	24.0	0.0	

Part27O_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.73					
100	PI2 BPSK	1	137	22.95			24.0	0.0	
100	PI2 BPSK	1	271	23.01					
100	PI2 BPSK	135	9	22.93			24.0	0.0	
100	PI2 BPSK	135	69	22.90			24.0	0.0	
100	PI2 BPSK	135	138	22.90					
100	PI2 BPSK	270	0	22.98			24.0	0.0	
100	QPSK	1	1	22.90					
100	QPSK	1	137	22.94			24.0	0.0	
100	QPSK	1	271	22.78					
100	QPSK	135	9	22.87					
100	QPSK	135	69	22.97			24.0	0.0	
100	QPSK	135	138	22.83					
100	QPSK	270	0	22.98			24.0	0.0	
100	16QAM	1	1	22.21			24.0	0.0	
100	64QAM	1	1	22.41			24.0	0.0	
100	256QAM	1	1	21.87			22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.01	23.07	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.01	23.09	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.00	23.01	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.05	23.03	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.00	23.01	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.01	23.06	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.00	23.03	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.03	23.01	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.00	23.04	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.09	23.02	23.09	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.99	23.07	23.04	24.0	0.0	



Part27Q_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.69					
100	PI2 BPSK	1	137	26.06			27.0	0.0	
100	PI2 BPSK	1	271	26.02					
100	PI2 BPSK	135	9	25.41			26.5	0.5	
100	PI2 BPSK	135	69	26.01			27.0	0.0	
100	PI2 BPSK	135	138	25.50					
100	PI2 BPSK	270	0	25.49			26.5	0.5	
100	QPSK	1	1	26.11					
100	QPSK	1	137	25.99			27.0	0.0	
100	QPSK	1	271	26.10					
100	QPSK	135	0	24.85					
100	QPSK	135	69	26.07			27.0	0.0	
100	QPSK	135	138	25.02					
100	QPSK	270	0	25.04			26.0	1.0	
100	16QAM	1	1	24.74			26.0	1.0	
100	64QAM	1	1	23.33			24.5	2.5	
100	256QAM	1	1	21.71			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.95	24.99 98	25.04 99			MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.05	26.09	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.07	26.11	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.06	26.15	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.09	26.04	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.14	26.16	26.12	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.12	26.08	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.06	26.10	26.17	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.16	26.13	26.14	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.12	26.06	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.07	26.04	26.05	27.0	0.0	

Part27Q_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.71					
100	PI2 BPSK	1	137	26.03			27.0	0.0	
100	PI2 BPSK	1	271	26.11					
100	PI2 BPSK	135	9	25.41			26.5	0.5	
100	PI2 BPSK	135	69	25.96			27.0	0.0	
100	PI2 BPSK	135	138	25.56					
100	PI2 BPSK	270	0	25.21			26.5	0.5	
100	QPSK	1	1	26.11					
100	QPSK	1	137	26.04			27.0	0.0	
100	QPSK	1	271	26.06					
100	QPSK	135	0	24.81					
100	QPSK	135	69	26.09			27.0	0.0	
100	QPSK	135	138	25.07					
100	QPSK	270	0	24.98			26.0	1.0	
100	16QAM	1	1	24.71			26.0	1.0	
100	64QAM	1	1	23.03			24.5	2.5	
100	256QAM	1	1	21.67			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	27.45 92	27.50	27.54 98			MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.98	26.02	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.02	26.09	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.97	26.06	25.99	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.02	26.09	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.01	26.06	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.97	25.97	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.07	26.07	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.01	26.05	26.10	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.99	26.07	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.96	26.01	26.08	27.0	0.0	



n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.76	22.78	22.85			
40	PI2 BPSK	1	108	22.68	22.82	22.78	24.0	0.0	
40	PI2 BPSK	1	214	22.58	22.73	22.70			
40	PI2 BPSK	108	0	22.37	22.43	22.38	23.5	0.5	
40	PI2 BPSK	108	54	22.85	22.92	22.87	24.0	0.0	
40	PI2 BPSK	108	108	22.37	22.43	22.35			
40	PI2 BPSK	216	0	22.34	22.41	22.30	23.5	0.5	
40	QPSK	1	1	22.97	23.02	22.98			
40	QPSK	1	108	22.98	22.98	22.92	24.0	0.0	
40	QPSK	1	214	22.77	22.83	22.74			
40	QPSK	108	0	21.78	21.88	21.80	23.0	1.0	
40	QPSK	108	54	22.88	22.89	22.87	24.0	0.0	
40	QPSK	108	108	21.83	21.84	21.83			
40	QPSK	216	0	21.75	21.85	21.71	23.0	1.0	
40	16QAM	1	1	21.62	21.64	21.53	23.0	1.0	
40	64QAM	1	1	20.05	20.11	20.01	21.5	2.5	
40	256QAM	1	1	18.68	18.72	18.61	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.95	22.90	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.95	18.90	18.95	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.89	22.95	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.80	18.80	19.00	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.94	22.98	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.93	22.93	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.93	22.87	24.0	0.0	

Reduced Power Mode for ECI2									
n2_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	13.91	13.99	13.74			
40	PI2 BPSK	1	108	13.84	13.95	13.87	15.0	0.0	
40	PI2 BPSK	1	214	13.79	13.98	13.76			
40	PI2 BPSK	108	0	13.88	13.95	13.80	15.0	0.0	
40	PI2 BPSK	108	54	13.88	13.91	13.88	15.0	0.0	
40	PI2 BPSK	108	108	13.86	14.00	13.81			
40	PI2 BPSK	216	0	13.80	13.91	13.82	15.0	0.0	
40	QPSK	1	1	14.05	14.17	14.03			
40	QPSK	1	108	14.01	14.13	14.02	15.0	0.0	
40	QPSK	1	214	14.03	14.11	14.02			
40	QPSK	108	0	14.09	14.14	14.00	15.0	0.0	
40	QPSK	108	54	14.11	14.15	14.08	15.0	0.0	
40	QPSK	108	108	14.08	14.13	14.07			
40	QPSK	216	0	14.01	14.07	14.04	15.0	0.0	
40	16QAM	1	1	14.10	14.07	14.05	15.0	0.0	
40	64QAM	1	1	14.07	14.14	14.12	15.0	0.0	
40	256QAM	1	1	14.05	14.07	14.14	15.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	13.98	14.11	13.94	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.04	14.04	13.93	15.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.07	14.11	14.00	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.00	14.09	13.89	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.00	14.05	13.95	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.05	14.03	13.91	15.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.03	14.03	14.01	15.0	0.0	

n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 168800	Power Middle Ch. F Freq. 167500	Power High Ch. F Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.67	22.81	22.70			
20	PI2 BPSK	1	53	22.71	22.85	22.78	24.0	0.0	
20	PI2 BPSK	1	104	22.67	22.79	22.68			
20	PI2 BPSK	50	0	22.48	22.50	22.41	23.5	0.5	
20	PI2 BPSK	50	28	22.92	22.99	22.92	24.0	0.0	
20	PI2 BPSK	50	56	22.46	22.48	22.40			
20	PI2 BPSK	100	0	22.42	22.45	22.43	23.5	0.5	
20	QPSK	1	1	22.95	23.03	22.81			
20	QPSK	1	53	22.92	23.01	22.88	24.0	0.0	
20	QPSK	1	104	22.84	22.88	22.80			
20	QPSK	50	0	21.81	21.93	21.81	23.0	1.0	
20	QPSK	50	28	22.84	22.84	22.80	24.0	0.0	
20	QPSK	50	56	21.75	21.87	21.77			
20	QPSK	100	0	21.83	21.80	21.79	23.0	1.0	
20	16QAM	1	1	21.70	21.84	21.83	23.0	1.0	
20	64QAM	1	1	20.24	20.32	20.30	21.5	2.5	
20	256QAM	1	1	18.83	18.95	18.85	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.81	22.84	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.90	16.90	16.80	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.95	22.96	22.76	24.0	0.0	



n5_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16600	Power Middle Ch. / Freq. 16700	Power High Ch. / Freq. 16780	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	20.15	20.32	20.36	21.5	0.0	
20	PI2 BPSK	1	53	20.21	20.29	20.36			
20	PI2 BPSK	1	104	20.15	20.35	20.31			
20	PI2 BPSK	50	0	20.22	20.34	20.35	21.5	0.0	
20	PI2 BPSK	50	28	20.23	20.39	20.29	21.5	0.0	
20	PI2 BPSK	50	56	20.13	20.29	20.27	21.5	0.0	
20	PI2 BPSK	100	0	20.15	20.30	20.40			
20	QPSK	1	1	20.35	20.58	20.45			
20	QPSK	1	53	20.49	20.45	20.35	21.5	0.0	
20	QPSK	1	104	20.35	20.66	20.41			
20	QPSK	50	0	20.41	20.45	20.36	21.5	0.0	
20	QPSK	50	28	20.45	20.49	20.39	21.5	0.0	
20	QPSK	50	56	20.42	20.38	20.37	21.5	0.0	
20	QPSK	100	0	20.43	20.46	20.41			
20	16QAM	1	1	20.44	20.46	20.39	21.5	0.0	
20	64QAM	1	1	20.47	20.55	20.40	21.5	0.0	
20	256QAM	1	1	18.67	18.77	18.70	19.5	2.0	
Channel				166300	167000	168000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	20.53	20.51	20.31	21.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	20.54	20.53	20.33	21.5	0.0	
Channel				166300	167300	169300	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	20.52	20.56	20.39	21.5	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 50500	Power Middle Ch. / Freq. 50700	Power High Ch. / Freq. 50900	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545			
Frequency (MHz)									
50	PI2 BPSK	1	1	23.07	23.19	23.04	24.0	0.0	
50	PI2 BPSK	1	155	23.09	23.24	23.17			
50	PI2 BPSK	1	298	22.99	23.14	23.08			
50	PI2 BPSK	135	0	22.70	22.85	22.73	23.5	0.5	
50	PI2 BPSK	135	68	23.10	23.24	23.19	24.0	0.0	
50	PI2 BPSK	135	135	22.72	22.83	22.89			
50	PI2 BPSK	270	0	22.80	22.81	22.68	23.5	0.5	
50	QPSK	1	1	23.28	23.34	23.23			
50	QPSK	1	135	23.24	23.27	23.17	24.0	0.0	
50	QPSK	1	268	23.14	23.22	23.08			
50	QPSK	135	0	22.31	22.52	22.23	23.0	1.0	
50	QPSK	135	68	23.25	23.32	23.25	24.0	0.0	
50	QPSK	135	135	22.17	22.27	22.22	23.0	1.0	
50	QPSK	270	0	22.26	22.24	22.17	23.0	1.0	
50	16QAM	1	1	22.02	22.07	21.93	23.0	1.0	
50	64QAM	1	1	20.48	20.52	20.43	21.5	2.5	
50	256QAM	1	1	19.06	19.13	19.09	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	23.15	23.25	23.17	24.0	0.0	
Channel				503500	507000	510500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
35	QPSK	1	1	23.23	23.19	23.12	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	23.15	23.20	23.17	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	23.15	23.33	23.19	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	23.18	23.26	23.10	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	23.23	23.20	23.10	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	23.27	23.32	23.17	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.23	23.27	23.19	24.0	0.0	

n12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141500	Power Middle Ch. / Freq. 141600	Power High Ch. / Freq. 141700	Tune-up limit (dBm)	MPR (dB)	
Channel				705.5	707.5	708.5			
Frequency (MHz)									
15	PI2 BPSK	1	1	22.86	22.88	22.75	24.0	0.0	
15	PI2 BPSK	1	40	22.81	22.84	22.83			
15	PI2 BPSK	1	77	22.75	22.81	22.74			
15	PI2 BPSK	36	0	22.39	22.54	22.50	23.5	0.5	
15	PI2 BPSK	36	22	22.63	22.91	22.84	24.0	0.0	
15	PI2 BPSK	36	43	22.47	22.51	22.47			
15	PI2 BPSK	75	0	22.41	22.52	22.38	23.5	0.5	
15	QPSK	1	1	22.95	23.03	22.99			
15	QPSK	1	40	22.89	22.86	22.82	24.0	0.0	
15	QPSK	1	77	22.85	22.82	22.81			
15	QPSK	36	0	21.93	21.97	21.89	23.0	1.0	
15	QPSK	36	22	22.75	22.87	22.84	24.0	0.0	
15	QPSK	36	43	21.94	21.96	21.91	23.0	1.0	
15	QPSK	75	0	21.96	21.92	21.88			
15	16QAM	1	1	21.81	21.76	21.66	23.0	1.0	
15	64QAM	1	1	20.17	20.23	20.15	21.5	2.5	
15	256QAM	1	1	18.82	18.84	18.70	19.5	4.5	
Channel				140500	141500	142500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.93	22.96	22.90	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.85	23.01	22.85	24.0	0.0	



n12_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141500	Power Middle Ch. / Freq. 141500	Power High Ch. / Freq. 141700	Tune-up limit (dBm)	MPR (dB)	
Channel				706.5	707.5	706.5			
Frequency (MHz)									
15	PI2 BPSK	1	1	21.83	21.90	21.85	23.0	0.0	
15	PI2 BPSK	1	40	21.71	21.84	21.87			
15	PI2 BPSK	1	77	21.74	21.87	21.72			
15	PI2 BPSK	36	0	21.73	21.92	21.66	23.0	0.0	
15	PI2 BPSK	36	22	21.72	21.79	21.68	23.0	0.0	
15	PI2 BPSK	36	43	21.83	21.79	21.71	23.0	0.0	
15	PI2 BPSK	75	0	21.82	21.92	21.78	23.0	0.0	
15	QPSK	1	1	21.88	22.01	21.96			
15	QPSK	1	40	21.80	21.88	21.91	23.0	0.0	
15	QPSK	1	77	21.85	21.94	21.95			
15	QPSK	36	0	21.82	21.86	21.87	23.0	0.0	
15	QPSK	36	22	21.88	21.94	21.91	23.0	0.0	
15	QPSK	36	43	21.86	21.84	21.87	23.0	0.0	
15	QPSK	75	0	21.81	21.80	21.89	23.0	0.0	
15	16QAM	1	1	21.85	21.93	21.87	23.0	0.0	
15	64QAM	1	1	20.16	20.20	20.01	21.5	1.5	
15	256QAM	1	1	18.68	18.77	18.80	19.5	3.5	
Channel				14000	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	21.87	21.81	21.81	23.0	0.0	
Channel				14000	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	21.78	21.87	21.88	23.0	0.0	

n14_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158100	Power Middle Ch. / Freq. 158600	Power High Ch. / Freq. 159000	Tune-up limit (dBm)	MPR (dB)	
Channel				703					
Frequency (MHz)									
10	PI2 BPSK	1	1		23.06				
10	PI2 BPSK	1	26		23.10		24.0	0.0	
10	PI2 BPSK	1	50		23.02				
10	PI2 BPSK	25	0		22.72		23.5	0.5	
10	PI2 BPSK	25	14		23.06		24.0	0.0	
10	PI2 BPSK	25	27		22.72		23.5	0.5	
10	PI2 BPSK	50	0		22.68				
10	QPSK	1	1		23.13				
10	QPSK	1	26		23.02		24.0	0.0	
10	QPSK	1	50		23.10				
10	QPSK	25	0		22.19		23.0	1.0	
10	QPSK	25	14		23.06		24.0	0.0	
10	QPSK	25	27		22.14		23.0	1.0	
10	QPSK	50	0		22.06		23.0	1.0	
10	16QAM	1	1		21.82		23.0	1.0	
10	64QAM	1	1		20.37		21.5	2.5	
10	256QAM	1	1		18.99		19.5	4.5	
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.07	23.04	23.01	24.0	0.0	

n14_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158100	Power Middle Ch. / Freq. 158600	Power High Ch. / Freq. 159000	Tune-up limit (dBm)	MPR (dB)	
Channel				703					
Frequency (MHz)									
10	PI2 BPSK	1	1		20.75				
10	PI2 BPSK	1	26		20.79		22.0	0.0	
10	PI2 BPSK	1	50		20.71				
10	PI2 BPSK	25	0		20.78		22.0	0.0	
10	PI2 BPSK	25	14		20.83		22.0	0.0	
10	PI2 BPSK	25	27		20.71		22.0	0.0	
10	PI2 BPSK	50	0		20.74				
10	QPSK	1	1		20.96				
10	QPSK	1	26		20.89		22.0	0.0	
10	QPSK	1	50		20.93				
10	QPSK	25	0		20.82		22.0	0.0	
10	QPSK	25	14		20.93		22.0	0.0	
10	QPSK	25	27		20.91		22.0	0.0	
10	QPSK	50	0		20.81		22.0	0.0	
10	16QAM	1	1		20.91		22.0	0.0	
10	64QAM	1	1		20.16		21.5	1.5	
10	256QAM	1	1		18.68		19.5	2.5	
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	20.79	20.78	20.86	22.0	0.0	



n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 374500	Power High Ch. Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.74	22.85	22.77			
40	PI2 BPSK	1	108	22.82	22.88	22.75	24.0	0.0	
40	PI2 BPSK	1	214	22.81	22.86	22.78			
40	PI2 BPSK	108	0	22.35	22.48	22.34	23.5	0.5	
40	PI2 BPSK	108	54	22.86	23.00	22.85	24.0	0.0	
40	PI2 BPSK	108	108	22.47	22.49	22.36			
40	PI2 BPSK	216	0	22.45	22.46	22.42	23.5	0.5	
40	QPSK	1	1	23.03	23.06	23.03			
40	QPSK	1	108	22.90	23.05	22.92	24.0	0.0	
40	QPSK	1	214	22.93	23.02	23.01			
40	QPSK	108	0	21.91	21.94	21.89	23.0	1.0	
40	QPSK	108	54	22.91	22.98	22.86	24.0	0.0	
40	QPSK	108	108	21.82	21.92	21.79			
40	QPSK	216	0	22.85	22.95	22.83	23.0	1.0	
40	16QAM	1	1	21.58	21.72	21.58	23.0	1.0	
40	64QAM	1	1	20.03	20.18	20.14	21.5	2.5	
40	256QAM	1	1	18.73	18.78	18.69	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.98	22.98	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.00	22.91	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.87	23.00	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.80	18.82	19.05			
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.92	23.05	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.99	23.02	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.87	22.95	22.94	24.0	0.0	

n25_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 374500	Power High Ch. Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.02	14.00	14.07			
40	PI2 BPSK	1	108	13.99	14.06	14.02	15.0	0.0	
40	PI2 BPSK	1	214	13.98	13.98	14.01			
40	PI2 BPSK	108	0	14.00	13.98	14.05	15.0	0.0	
40	PI2 BPSK	108	54	13.91	14.03	14.01	15.0	0.0	
40	PI2 BPSK	108	108	13.95	14.07	14.01			
40	PI2 BPSK	216	0	13.99	14.00	14.03	15.0	0.0	
40	QPSK	1	1	14.16	14.18	14.13			
40	QPSK	1	108	14.13	14.08	14.06	15.0	0.0	
40	QPSK	1	214	14.14	14.11	14.07			
40	QPSK	108	0	14.02	14.10	14.08	15.0	0.0	
40	QPSK	108	54	14.11	14.15	14.10	15.0	0.0	
40	QPSK	108	108	14.09	14.14	14.05			
40	QPSK	216	0	14.02	14.09	14.08	15.0	0.0	
40	16QAM	1	1	14.03	14.11	14.05	15.0	0.0	
40	64QAM	1	1	14.12	14.16	14.09	15.0	0.0	
40	256QAM	1	1	14.03	14.11	14.10	15.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	14.14	14.07	13.99	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.14	14.07	14.03	15.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.06	14.14	14.04	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.04	14.14	14.03	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.11	14.14	13.98	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.09	14.03	14.05	15.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.13	14.04	14.09	15.0	0.0	

n26(FCC)_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 164800	Power Middle Ch. Freq. 165300	Power High Ch. Freq. 165800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.91	22.86	22.93			
20	PI2 BPSK	1	53	22.87	22.99	22.87	24.0	0.0	
20	PI2 BPSK	1	104	22.84	22.89	22.75			
20	PI2 BPSK	50	0	22.51	22.60	22.55	23.5	0.5	
20	PI2 BPSK	50	28	23.07	23.10	23.05	24.0	0.0	
20	PI2 BPSK	50	56	22.58	22.60	22.45			
20	PI2 BPSK	100	0	22.50	22.61	22.59	23.5	0.5	
20	QPSK	1	1	23.13	23.22	23.16			
20	QPSK	1	53	23.05	23.18	23.03	24.0	0.0	
20	QPSK	1	104	22.88	23.02	22.91			
20	QPSK	50	0	21.98	22.05	21.92	23.0	1.0	
20	QPSK	50	28	23.00	23.05	23.01	24.0	0.0	
20	QPSK	50	56	21.89	22.01	22.00			
20	QPSK	100	0	21.94	22.01	21.97	23.0	1.0	
20	16QAM	1	1	21.85	21.90	21.70	23.0	1.0	
20	64QAM	1	1	20.29	20.30	20.17	21.5	2.5	
20	256QAM	1	1	18.77	18.92	18.81	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.07	23.07	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.02	23.09	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.11	23.15	23.14	24.0	0.0	



n26(FCC)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /Freq. (dBm)	Power Middle Ch. /Freq. (dBm)	Power High Ch. /Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	20.19	20.28	20.06			
20	PI2 BPSK	1	53	20.28	20.28	20.15	21.5	0.0	
20	PI2 BPSK	1	104	20.22	20.22	20.06			
20	PI2 BPSK	50	0	20.17	20.22	20.05	21.5	0.0	
20	PI2 BPSK	50	28	20.29	20.21	20.14	21.5	0.0	
20	PI2 BPSK	50	56	20.20	20.21	20.08	21.5	0.0	
20	PI2 BPSK	100	0	20.24	20.33	20.13			
20	QPSK	1	1	20.80	20.86	20.61			
20	QPSK	1	53	20.51	20.64	20.49	21.5	0.0	
20	QPSK	1	104	20.50	20.64	20.47			
20	QPSK	50	0	20.56	20.59	20.47	21.5	0.0	
20	QPSK	50	28	20.58	20.64	20.54	21.5	0.0	
20	QPSK	50	56	20.53	20.53	20.45	21.5	0.0	
20	QPSK	100	0	20.48	20.56	20.40			
20	16QAM	1	1	20.51	20.52	20.50	21.5	0.0	
20	64QAM	1	1	20.34	20.32	20.29	21.5	0.0	
20	256QAM	1	1	18.79	18.88	18.83	19.5	2.0	
Channel				168300	169800	171300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				841.5	851.5	861.5			
15	QPSK	1	1	20.58	20.54	20.57	21.5	0.0	
Channel				163300	165300	167300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	20.55	20.55	20.52	21.5	0.0	

n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /Freq. (dBm)	Power Middle Ch. /Freq. (dBm)	Power High Ch. /Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				481500	483000	484500			
Frequency (MHz)				2307.5	2310	2312.5			
10	PI2 BPSK	1	1	23.24					
10	PI2 BPSK	1	26	23.30			24.0	0.0	
10	PI2 BPSK	1	50	23.18					
10	PI2 BPSK	25	0	22.89			23.5	0.5	
10	PI2 BPSK	25	14	23.26			24.0	0.0	
10	PI2 BPSK	25	27	22.87			23.5	0.5	
10	PI2 BPSK	50	0	22.86					
10	QPSK	1	1	23.32					
10	QPSK	1	26	23.33			24.0	0.0	
10	QPSK	1	50	23.30					
10	QPSK	25	0	23.34			23.0	1.0	
10	QPSK	25	14	23.32			24.0	0.0	
10	QPSK	25	27	22.29			23.0	1.0	
10	QPSK	50	0	22.31			23.0	1.0	
10	16QAM	1	1	22.10			23.0	1.0	
10	64QAM	1	1	20.56			21.5	2.5	
10	256QAM	1	1	19.16			19.5	4.5	
Channel				481500	483000	484500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	23.21	23.27	23.23	24.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /Freq. (dBm)	Power Middle Ch. /Freq. (dBm)	Power High Ch. /Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1722.5	1745	1757.5			
45	PI2 BPSK	1	1	22.93	22.95	22.88			
45	PI2 BPSK	1	100	22.90	23.07	23.05	24.0	0.0	
45	PI2 BPSK	1	240	23.03	23.10	23.00			
45	PI2 BPSK	120	0	22.47	22.81	22.47	23.5	0.5	
45	PI2 BPSK	120	60	22.98	23.10	22.98	24.0	0.0	
45	PI2 BPSK	120	180	22.46	22.59	22.54			
45	PI2 BPSK	240	0	22.51	22.56	22.54	23.5	0.5	
45	QPSK	1	1	23.14	23.17	23.04			
45	QPSK	1	100	22.95	23.07	23.04	24.0	0.0	
45	QPSK	1	240	23.06	23.13	23.03			
45	QPSK	120	0	21.93	22.07	22.06	23.0	1.0	
45	QPSK	120	60	22.97	23.05	23.00	24.0	0.0	
45	QPSK	120	180	21.86	21.99	21.84	23.0	1.0	
45	QPSK	240	0	21.83	22.07	21.91			
45	16QAM	1	1	21.74	21.83	21.68	23.0	1.0	
45	64QAM	1	1	20.17	20.28	20.26	21.5	2.5	
45	256QAM	1	1	18.75	18.90	18.78	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1757.5			
40	QPSK	1	1	23.05	23.14	23.00	24.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1757.5			
35	QPSK	1	1	23.11	23.13	23.00	24.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1757.5			
30	QPSK	1	1	23.06	23.14	23.03	24.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1757.5			
25	QPSK	1	1	23.00	23.05	22.90	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710	1745	1790			
20	QPSK	1	1	23.02	23.09	22.99	24.0	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.12	23.02	22.99	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.06	23.13	22.91	24.0	0.0	
Channel				343000	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1772.5			
5	QPSK	1	1	23.08	23.13	22.93	24.0	0.0	



n66_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1722.5	1745	1767.5			
45	PI2 BPSK	1	1	15.55	15.50	15.42			
45	PI2 BPSK	1	120	15.44	15.40	15.51	16.5	0.0	
45	PI2 BPSK	1	240	15.56	15.55	15.45			
45	PI2 BPSK	120	0	15.42	15.44	15.49	16.5	0.0	
45	PI2 BPSK	120	60	15.48	15.59	15.42	16.5	0.0	
45	PI2 BPSK	120	120	15.44	15.51	15.53			
45	PI2 BPSK	240	0	15.50	15.53	15.40	16.5	0.0	
45	QPSK	1	1	15.71	15.73	15.69			
45	QPSK	1	120	15.70	15.63	15.80	16.5	0.0	
45	QPSK	1	240	15.68	15.69	15.62			
45	QPSK	120	0	15.66	15.65	15.59	16.5	0.0	
45	QPSK	120	60	15.67	15.68	15.63	16.5	0.0	
45	QPSK	120	120	15.61	15.66	15.62			
45	QPSK	240	0	15.60	15.64	15.61	16.5	0.0	
45	16QAM	1	1	15.91	15.82	15.98	16.5	0.0	
45	64QAM	1	1	15.84	15.84	15.66	16.5	0.0	
45	256QAM	1	1	15.70	15.62	15.61	16.5	0.0	
Channel				349000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	15.64	15.72	15.61	16.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
35	QPSK	1	1	15.59	15.58	15.62	16.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.59	15.62	15.62	16.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	15.62	15.69	15.65	16.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1745	1790			
20	QPSK	1	1	15.64	15.59	15.57	16.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.70	15.69	15.61	15.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.59	15.65	15.64	16.5	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.62	15.70	15.62	16.5	0.0	

n70_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				349000	349000	349000			
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1		23.00				
15	PI2 BPSK	1	40		23.02		24.0	0.0	
15	PI2 BPSK	1	77		22.96				
15	PI2 BPSK	36	0		22.85		23.5	0.5	
15	PI2 BPSK	36	22		23.03		24.0	0.0	
15	PI2 BPSK	36	43		22.85		23.5	0.5	
15	PI2 BPSK	75	0		22.85				
15	QPSK	1	1		23.20				
15	QPSK	1	40		23.04		24.0	0.0	
15	QPSK	1	77		23.04				
15	QPSK	36	0		22.10		23.0	1.0	
15	QPSK	36	22		23.11		24.0	0.0	
15	QPSK	36	43		22.04		23.0	1.0	
15	QPSK	75	0		22.05		23.0	1.0	
15	16QAM	1	1		21.85		23.0	1.0	
15	64QAM	1	1		20.33		21.5	2.5	
15	256QAM	1	1		19.96		19.5	4.5	
Channel				349000	349000	349000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	23.06	23.16	23.14	24.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	23.10	23.14	23.07	24.0	0.0	

n70_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				349000	349000	349000			
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1		15.35				
15	PI2 BPSK	1	40		15.35		16.5	0.0	
15	PI2 BPSK	1	77		15.43				
15	PI2 BPSK	36	0		15.44		16.5	0.0	
15	PI2 BPSK	36	22		15.39		16.5	0.0	
15	PI2 BPSK	36	43		15.38		16.5	0.0	
15	PI2 BPSK	75	0		15.40				
15	QPSK	1	1		15.74				
15	QPSK	1	40		15.67		16.5	0.0	
15	QPSK	1	77		15.64				
15	QPSK	36	0		15.62		16.5	0.0	
15	QPSK	36	22		15.69		16.5	0.0	
15	QPSK	36	43		15.65		16.5	0.0	
15	QPSK	75	0		15.66		16.5	0.0	
15	16QAM	1	1		15.69		16.5	0.0	
15	64QAM	1	1		15.71		16.5	0.0	
15	256QAM	1	1		15.65		16.5	0.0	
Channel				349000	349000	349000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	15.56	15.64	15.66	16.5	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	15.57	15.67	15.58	16.5	0.0	

n71_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 136100	Power Middle Ch. F Freq. 136100	Power High Ch. F Freq. 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	PI/2 BPSK	1	1	22.77	22.77	22.77		
35	PI/2 BPSK	1	90	22.82	22.82	22.82	24.0	0.0
35	PI/2 BPSK	1	186	22.70	22.70	22.70		
35	PI/2 BPSK	90	0	22.41	22.41	22.41	23.5	0.5
35	PI/2 BPSK	90	45	22.83	22.83	22.83	24.0	0.0
35	PI/2 BPSK	90	90	22.41	22.41	22.41	23.5	0.5
35	PI/2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.98	22.98	22.98		
35	QPSK	1	90	22.92	22.92	22.92	24.0	0.0
35	QPSK	1	186	22.83	22.83	22.83		
35	QPSK	90	0	21.89	21.89	21.89	23.0	1.0
35	QPSK	90	45	22.87	22.87	22.87	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.86	21.86	21.86	23.0	1.0
35	16QAM	1	1	21.81	21.81	21.81	23.0	1.0
35	64QAM	1	1	20.09	20.09	20.09	21.5	2.5
35	256QAM	1	1	18.69	18.69	18.69	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	680.5	683	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.77	22.97	22.81	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.78	22.84	22.88	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	680.5	693	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	133100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	662.5	680.5	695.5	24.0	0.0

n71_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 136100	Power Middle Ch. F Freq. 136100	Power High Ch. F Freq. 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	PI/2 BPSK	1	1	22.87	22.87	22.87		
35	PI/2 BPSK	1	90	22.86	22.86	22.86	24.0	0.0
35	PI/2 BPSK	1	186	22.81	22.81	22.81		
35	PI/2 BPSK	90	0	22.43	22.43	22.43	23.5	0.5
35	PI/2 BPSK	90	45	22.94	22.94	22.94	24.0	0.0
35	PI/2 BPSK	90	90	22.37	22.37	22.37	23.5	0.5
35	PI/2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.99	22.99	22.99		
35	QPSK	1	90	22.89	22.89	22.89	24.0	0.0
35	QPSK	1	186	22.79	22.79	22.79		
35	QPSK	90	0	21.92	21.92	21.92	23.0	1.0
35	QPSK	90	45	22.88	22.88	22.88	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.85	21.85	21.85	23.0	1.0
35	16QAM	1	1	21.82	21.82	21.82	23.0	1.0
35	64QAM	1	1	20.15	20.15	20.15	21.5	2.5
35	256QAM	1	1	18.75	18.75	18.75	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	680.5	683	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.91	22.96	22.89	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.97	22.94	22.86	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	680.5	693	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	133100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	662.5	680.5	695.5	24.0	0.0



FCC_n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2546.01 2592.99 2640									
100	Pi2 BPSK	1	1	22.95	23.05	22.97			
100	Pi2 BPSK	1	137	23.07	23.11	23.03	24.0	0.0	
100	Pi2 BPSK	1	271	23.00	23.13	23.07			
100	Pi2 BPSK	135	0	22.87	23.01	22.96	24.0	0.0	
100	Pi2 BPSK	135	69	22.94	23.09	22.94	24.0	0.0	
100	Pi2 BPSK	135	138	23.00	23.12	23.07			
100	Pi2 BPSK	270	0	22.97	23.08	23.08	24.0	0.0	
100	QPSK	1	1	23.15	23.19	23.06			
100	QPSK	1	137	23.10	23.12	23.05	24.0	0.0	
100	QPSK	1	271	22.93	23.08	22.96			
100	QPSK	135	0	23.01	23.07	23.06			
100	QPSK	135	69	23.15	23.15	23.08			
100	QPSK	135	138	23.03	23.05	22.94	24.0	0.0	
100	QPSK	270	0	23.11	23.12	23.05	24.0	0.0	
100	16QAM	1	1	22.87	22.95	22.91	24.0	0.0	
100	16QAM	1	1	22.95	22.96	22.94	24.0	0.0	
100	256QAM	1	1	21.93	22.08	22.00	22.5	1.5	
Channel									
Frequency (MHz)									
5020.0 51898 53098									
80	QPSK	1	1	23.01	23.13	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
2536.02 2592.99 2649.99									
80	QPSK	1	1	23.08	23.08	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
2531.01 2592.99 2655									
70	QPSK	1	1	23.10	23.06	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
50520 51898 53198									
60	QPSK	1	1	23.07	23.09	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
504204 51898 53298									
50	QPSK	1	1	23.02	23.10	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
2518.5 2592.99 2647.48									
45	QPSK	1	1	23.09	23.12	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
2519.01 2592.99 2610									
40	QPSK	1	1	23.13	23.16	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
502704 51898 53498									
35	QPSK	1	1	23.07	23.07	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
502200 51898 53498									
30	QPSK	1	1	23.10	23.09	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
2508.51 2592.99 2677.5									
25	QPSK	1	1	23.11	23.07	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
501204 51898 53598									
20	QPSK	1	1	23.07	23.17	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
500700 51898 536498									
15	QPSK	1	1	23.03	23.14	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
500202 51898 537000									
10	QPSK	1	1	23.04	23.09	23.04	24.0	0.0	

FCC_n41(HPUe) Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2546.01 2592.99 2640									
100	Pi2 BPSK	1	1	26.17	26.21	26.07			
100	Pi2 BPSK	1	137	26.06	26.07	25.92	27.0	0.0	
100	Pi2 BPSK	1	271	26.04	26.19	26.09			
100	Pi2 BPSK	135	0	25.75	25.86	25.77	26.5	0.5	
100	Pi2 BPSK	135	69	26.00	26.03	26.00	27.0	0.0	
100	Pi2 BPSK	135	138	25.66	25.72	25.68			
100	Pi2 BPSK	270	0	25.57	25.71	25.70	26.5	0.5	
100	QPSK	1	1	25.23	25.26	25.14			
100	QPSK	1	137	26.18	26.23	26.05	27.0	0.0	
100	QPSK	1	271	26.07	26.17	26.03			
100	QPSK	135	0	25.20	25.29	25.17			
100	QPSK	135	69	25.25	25.25	25.14	27.0	0.0	
100	QPSK	135	138	25.29	25.28	25.28			
100	QPSK	270	0	25.12	25.23	25.19	26.0	1.0	
100	16QAM	1	1	24.89	24.98	24.94	26.0	1.0	
100	16QAM	1	1	23.44	23.52	23.43	24.5	2.5	
100	256QAM	1	1	22.01	22.11	22.09	22.5	4.5	
Channel									
Frequency (MHz)									
5020.0 51898 52898									
80	QPSK	1	1	23.16	23.25	23.07	27.0	0.0	
Channel									
Frequency (MHz)									
507204 51898 52998									
80	QPSK	1	1	26.12	26.13	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
2531.01 2592.99 2655									
70	QPSK	1	1	26.12	26.25	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
50520 51898 53198									
60	QPSK	1	1	26.18	26.25	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
504204 51898 53298									
50	QPSK	1	1	26.13	26.13	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
2518.5 2592.99 2647.48									
45	QPSK	1	1	26.10	26.16	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
2519.01 2592.99 2610									
40	QPSK	1	1	26.22	26.25	26.03	27.0	0.0	
Channel									
Frequency (MHz)									
502704 51898 53498									
35	QPSK	1	1	26.15	26.18	26.03	27.0	0.0	
Channel									
Frequency (MHz)									
502200 51898 53498									
30	QPSK	1	1	26.16	26.12	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
2508.51 2592.99 2677.5									
25	QPSK	1	1	26.17	26.24	26.12	27.0	0.0	
Channel									
Frequency (MHz)									
501204 51898 53598									
20	QPSK	1	1	26.18	26.22	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
500700 51898 536498									
15	QPSK	1	1	26.13	26.15	26.13	27.0	0.0	
Channel									
Frequency (MHz)									
500202 51898 537000									
10	QPSK	1	1	26.12	26.15	26.13	27.0	0.0	

FCC_n41_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2546.01 2592.99 2640									
100	Pi2 BPSK	1	1	15.94	16.08	16.00			
100	Pi2 BPSK	1	137	15.96	16.15	16.05	17.0	0.0	
100	Pi2 BPSK	1	271	15.97	16.16	16.02			
100	Pi2 BPSK	135	0	15.98	16.16	16.00	17.0	0.0	
100	Pi2 BPSK	135	69	16.06	16.10	16.02	17.0	0.0	
100	Pi2 BPSK	135	138	16.03	16.17	16.01			
100	Pi2 BPSK	270	0	16.05	16.07	15.97	17.0	0.0	
100	QPSK	1	1	16.22	16.25	16.15			
100	QPSK	1	137	16.14	16.22	16.14	17.0	0.0	
100	QPSK	1	271	16.11	16.20	16.16			
100	QPSK	135	0	16.12	16.14	16.16			
100	QPSK	135	69	16.11	16.22	16.15	17.0	0.0	
100	QPSK	135	138	16.17	16.16	16.16			
100	QPSK	270	0	16.13	16.15	16.13	17.0	0.0	
100	16QAM	1	1	16.09	16.11	16.10	17.0	0.0	
100	16QAM	1	1	16.11	16.21	16.09	17.0	0.0	
100	256QAM	1	1	16.15	16.15	16.08	17.0	0.0	
Channel									
Frequency (MHz)									
5020.0 51898 52898									
80	QPSK	1	1	16.18	16.11	16.16	17.0	0.0	
Channel									
Frequency (MHz)									
507204 51898 52998									
80	QPSK	1	1	16.13	16.18	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
2531.01 2592.99 2655									
70	QPSK	1	1	16.07	16.16	16.09	17.0	0.0	
Channel									
Frequency (MHz)									
50520 51898 53198									
60	QPSK	1	1	16.18	16.17	16.10	17.0	0.0	
Channel									
Frequency (MHz)									
504204 51898 53298									
50	QPSK	1	1	16.13	16.19	16.12	17.0	0.0	
Channel									
Frequency (MHz)									
2518.5 2592.99 2647.48									
45	QPSK	1	1	16.07	16.17	16.17	17.0	0.0	
Channel									
Frequency (MHz)									
2519.01 2592.99 2610									
40	QPSK	1	1	16.12	16.23	16.05	17.0	0.0	
Channel									
Frequency (MHz)									
502704 51898 53498									
35	QPSK	1	1	16.15	16.18	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
502200 51898 53498									
30	QPSK	1	1	16.08	16.17	16.03	17.0	0.0	
Channel									
Frequency (MHz)									
2508.51 2592.99 2677.5									
25	QPSK	1	1	16.21	16.19	16.14	17.0	0.0	
Channel									
Frequency (MHz)									
501204 51898 53598									
20	QPSK	1	1	16.15	16.16	16.07	17.0	0.0	
Channel									
Frequency (MHz)									
500700 51898 536498									
15	QPSK	1	1	16.16	16.24	16.15	17.0	0.0	
Channel									
Frequency (MHz)									
500202 51898 537000									
10	QPSK	1	1	16.13	16.17	16.16	17.0	0.0	



FCC_n41(HPUE)_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	15.94	16.08	16.00				
100	PI2 BPSK	1	137	15.96	16.15	16.05				
100	PI2 BPSK	1	271	15.97	16.16	16.02	17.0	0.0		
100	PI2 BPSK	135	9	15.98	16.16	16.00	17.0	0.0		
100	PI2 BPSK	135	69	16.06	16.10	16.02	17.0	0.0		
100	PI2 BPSK	135	138	16.03	16.17	16.01				
100	PI2 BPSK	270	0	16.05	16.07	16.07	17.0	0.0		
100	QPSK	1	1	16.22	16.25	16.15				
100	QPSK	1	137	16.14	16.22	16.14	17.0	0.0		
100	QPSK	1	271	16.11	16.20	16.16				
100	QPSK	135	0	16.12	16.14	16.16				
100	QPSK	135	69	16.21	16.22	16.15	17.0	0.0		
100	QPSK	135	138	16.17	16.16	16.16				
100	QPSK	270	0	16.13	16.15	16.13	17.0	0.0		
100	16QAM	1	1	16.09	16.11	16.16	17.0	0.0		
100	64QAM	1	1	16.11	16.21	16.09	17.0	0.0		
100	256QAM	1	1	16.15	16.15	16.08	17.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.4	24.9299	24.438				
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.16	23.31	23.10	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.08	23.27	23.12	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.15	23.21	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.15	23.23	23.13	24.0	0.0		
Channel										
Frequency (MHz)										
45	QPSK	1	1	23.05	23.18	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.05	23.24	23.16	24.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	23.19	23.25	23.09	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.16	23.23	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.07	23.28	23.17	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.08	23.22	23.11	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.03	23.17	23.09	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.13	23.28	23.17	24.0	0.0		

FCC_n41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.00	23.14	23.01				
100	PI2 BPSK	1	137	23.06	23.13	23.10				
100	PI2 BPSK	1	271	23.24	23.25	23.13	24.0	0.0		
100	PI2 BPSK	135	9	23.10	23.13	23.12	24.0	0.0		
100	PI2 BPSK	135	69	23.27	23.31	23.18	24.0	0.0		
100	PI2 BPSK	135	138	23.20	23.31	23.26				
100	PI2 BPSK	270	0	23.21	23.26	23.18	24.0	0.0		
100	QPSK	1	1	23.30	23.32	23.20				
100	QPSK	1	137	23.07	23.22	23.19	24.0	0.0		
100	QPSK	1	271	23.10	23.25	23.17				
100	QPSK	135	0	23.13	23.25	23.14				
100	QPSK	135	69	23.27	23.27	23.07	24.0	0.0		
100	QPSK	135	138	23.16	23.24	23.13				
100	QPSK	270	0	23.12	23.18	23.03	24.0	0.0		
100	16QAM	1	1	22.82	22.91	22.86	24.0	0.0		
100	64QAM	1	1	22.86	22.93	22.81	24.0	0.0		
100	256QAM	1	1	21.94	22.03	21.93	22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.4	24.9299	24.438				
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.16	23.31	23.10	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.08	23.27	23.12	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.15	23.21	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.15	23.23	23.13	24.0	0.0		
Channel										
Frequency (MHz)										
45	QPSK	1	1	23.05	23.18	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.05	23.24	23.16	24.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	23.19	23.25	23.09	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.16	23.23	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.07	23.28	23.17	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.08	23.22	23.11	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.03	23.17	23.09	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.13	23.28	23.17	24.0	0.0		

FCC_n41(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	26.18	26.21	26.13				
100	PI2 BPSK	1	137	26.07	26.19	26.17				
100	PI2 BPSK	1	271	26.66	26.15	26.13	27.0	0.0		
100	PI2 BPSK	135	9	25.74	25.84	25.77	26.5	0.5		
100	PI2 BPSK	135	69	26.08	26.14	26.13	27.0	0.0		
100	PI2 BPSK	135	138	25.66	25.68	25.67				
100	PI2 BPSK	270	0	25.64	25.65	25.59	26.5	0.5		
100	QPSK	1	1	25.33	25.38	25.27				
100	QPSK	1	137	26.11	26.22	26.10	27.0	0.0		
100	QPSK	1	271	25.98	26.12	25.99				
100	QPSK	135	0	25.16	25.31	25.30				
100	QPSK	135	69	25.05	26.18	25.99	27.0	0.0		
100	QPSK	135	138	25.08	25.12	25.07				
100	QPSK	270	0	24.98	25.11	25.05	26.0	1.0		
100	16QAM	1	1	24.85	24.84	24.52	26.0	1.0		
100	64QAM	1	1	23.37	23.41	23.31	24.5	2.5		
100	256QAM	1	1	21.93	22.04	21.93	22.5	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.4	24.9299	24.438				
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.15	26.19	26.13	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	26.12	26.24	26.16	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.11	26.18	26.20	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.13	26.23	26.14	27.0	0.0		
Channel										
Frequency (MHz)										
45	QPSK	1	1	26.13	26.25	26.18	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.16	26.19	26.14	27.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	26.13	26.17	26.12	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	26.16	26.25	26.19	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.11	26.17	26.22	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.17	26.27	26.12	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	26.09	26.17	26.18	27.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	26.20	26.25	26.16	27.0	0.0		



FCC_n41_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	17.39	17.55	17.54			
100	Pi2 BPSK	1	137	17.41	17.57	17.48	18.5	0.0	
100	Pi2 BPSK	1	271	17.51	17.50	17.56			
100	Pi2 BPSK	135	0	17.41	17.49	17.49	18.5	0.0	
100	Pi2 BPSK	135	69	17.49	17.61	17.55	18.5	0.0	
100	Pi2 BPSK	135	138	17.51	17.53	17.52			
100	Pi2 BPSK	270	0	17.48	17.60	17.45	18.5	0.0	
100	QPSK	1	1	17.61	17.65	17.62			
100	QPSK	1	137	17.44	17.60	17.48	18.5	0.0	
100	QPSK	1	271	17.41	17.59	17.51			
100	QPSK	135	0	17.46	17.59	17.50	18.5	0.0	
100	QPSK	135	69	17.52	17.52	17.52			
100	QPSK	135	138	17.49	17.55	17.56			
100	QPSK	270	0	17.39	17.55	17.54	18.5	0.0	
100	16QAM	1	1	17.39	17.55	17.60	18.5	0.0	
100	16QAM	1	1	17.45	17.60	17.57	18.5	0.0	
100	256QAM	1	1	17.47	17.51	17.55	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.52	17.58	17.56	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.46	17.62	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.54	17.58	17.59	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.50	17.64	17.54	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.53	17.62	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	17.46	17.52	17.57	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.55	17.63	17.60	18.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.52	17.54	17.61	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.48	17.61	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.51	17.59	17.50	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.57	17.55	17.56	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.59	17.57	17.49	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.51	17.55	17.54	18.5	0.0	

FCC_n41(HPUe)_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	17.39	17.55	17.54			
100	Pi2 BPSK	1	137	17.41	17.57	17.48	18.5	0.0	
100	Pi2 BPSK	1	271	17.51	17.50	17.56			
100	Pi2 BPSK	135	0	17.41	17.49	17.49	18.5	0.0	
100	Pi2 BPSK	135	69	17.49	17.61	17.55	18.5	0.0	
100	Pi2 BPSK	135	138	17.51	17.53	17.52			
100	Pi2 BPSK	270	0	17.48	17.60	17.45	18.5	0.0	
100	QPSK	1	1	17.61	17.65	17.62			
100	QPSK	1	137	17.44	17.60	17.48	18.5	0.0	
100	QPSK	1	271	17.41	17.59	17.51			
100	QPSK	135	0	17.46	17.59	17.50	18.5	0.0	
100	QPSK	135	69	17.52	17.52	17.52			
100	QPSK	135	138	17.49	17.55	17.56			
100	QPSK	270	0	17.39	17.55	17.54	18.5	0.0	
100	16QAM	1	1	17.39	17.55	17.60	18.5	0.0	
100	16QAM	1	1	17.45	17.60	17.57	18.5	0.0	
100	256QAM	1	1	17.47	17.51	17.55	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.52	17.58	17.56	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.46	17.62	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.54	17.58	17.59	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.50	17.64	17.54	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.53	17.62	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	17.46	17.52	17.57	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.55	17.63	17.60	18.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.52	17.54	17.61	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.48	17.61	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.51	17.59	17.50	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.57	17.55	17.56	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.59	17.57	17.49	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.51	17.55	17.54	18.5	0.0	

n48_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	14.06	14.24	14.08			
100	Pi2 BPSK	1	137	14.19	14.30	14.09	15.5	0.0	
100	Pi2 BPSK	1	271	14.19	14.29	14.18			
100	Pi2 BPSK	135	0	14.10	14.30	14.05	15.5	0.0	
100	Pi2 BPSK	135	69	14.06	14.28	14.10	15.5	0.0	
100	Pi2 BPSK	135	138	14.16	14.21	14.06			
100	Pi2 BPSK	270	0	14.12	14.32	14.11	15.5	0.0	
100	QPSK	1	1	16.35	16.39	16.34			
100	QPSK	1	137	14.34	14.29	14.32	15.5	0.0	
100	QPSK	1	271	14.33	14.33	14.21			
100	QPSK	135	0	14.27	14.35	14.21			
100	QPSK	135	69	14.32	14.37	14.25	15.5	0.0	
100	QPSK	135	138	14.20	14.29	14.25			
100	QPSK	270	0	14.27	14.30	14.30	15.5	0.0	
100	16QAM	1	1	14.21	14.30	14.29	15.5	0.0	
100	16QAM	1	1	14.26	14.38	14.32	15.5	0.0	
100	256QAM	1	1	14.22	14.27	14.31	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.22	14.32	14.19	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.27	14.38	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.35	14.32	14.33	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.23	14.35	14.32	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.24	14.34	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.27	14.35	14.19	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.24	14.35	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.21	14.27	14.30	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.33	14.30	14.25	15.5	0.0	



Part27Q_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3499.98										
100	PI2 BPSK	1	1	14.47						
100	PI2 BPSK	1	137	14.42			16.0	0.0		
100	PI2 BPSK	1	271	14.42						
100	PI2 BPSK	136	0	14.34			16.0	0.0		
100	PI2 BPSK	136	69	14.46			16.0	0.0		
100	PI2 BPSK	136	138	14.35			16.0	0.0		
100	PI2 BPSK	270	0	14.34			16.0	0.0		
100	QPSK	1	1	14.64						
100	QPSK	1	137	14.60			16.0	0.0		
100	QPSK	1	271	14.59						
100	QPSK	136	0	14.54			16.0	0.0		
100	QPSK	136	69	14.56						
100	QPSK	136	138	14.57						
100	QPSK	270	0	14.56			16.0	0.0		
100	16QAM	1	1	14.55			16.0	0.0		
100	64QAM	1	1	14.56			16.0	0.0		
100	256QAM	1	1	14.53			16.0	0.0		
Channel										
Frequency (MHz)										
633000										
3495										
80	QPSK	1	1	14.61	14.63	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
633332										
3496.02										
80	QPSK	1	1	14.61	14.59	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
633668										
3496.02										
80	QPSK	1	1	14.63	14.59	14.56	16.0	0.0		
Channel										
Frequency (MHz)										
634000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
634332										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
634668										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
635000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
635332										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
635668										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
636000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
636332										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
636668										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
637000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
637332										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
637668										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
638000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
638332										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
638668										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
639000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
639332										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
639668										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
640000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		

Part27Q_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3750										
100	PI2 BPSK	1	1	14.44	14.44	14.33				
100	PI2 BPSK	1	137	14.36	14.33	14.39	16.0	0.0		
100	PI2 BPSK	1	271	14.36	14.40	14.39				
100	PI2 BPSK	136	0	14.24	14.27	14.23	16.0	0.0		
100	PI2 BPSK	136	69	14.45	14.35	14.43	16.0	0.0		
100	PI2 BPSK	136	138	14.27	14.20	14.20	16.0	0.0		
100	PI2 BPSK	270	0	14.44	14.36	14.38	16.0	0.0		
100	QPSK	1	1	14.61	14.63	14.55				
100	QPSK	1	137	14.59	14.58	14.56	16.0	0.0		
100	QPSK	1	271	14.49	14.52	14.44				
100	QPSK	136	0	14.50	14.44	14.50	16.0	0.0		
100	QPSK	136	69	14.56	14.55	14.54	16.0	0.0		
100	QPSK	136	138	14.44	14.44	14.46	16.0	0.0		
100	QPSK	270	0	14.42	14.47	14.41	16.0	0.0		
100	16QAM	1	1	14.54	14.47	14.40	16.0	0.0		
100	64QAM	1	1	14.51	14.50	14.46	16.0	0.0		
100	256QAM	1	1	14.43	14.42	14.43	16.0	0.0		
Channel										
Frequency (MHz)										
649800										
3742.02										
80	QPSK	1	1	14.52	14.58	14.47	16.0	0.0		
Channel										
Frequency (MHz)										
650000										
3740.01										
80	QPSK	1	1	14.46	14.61	14.56	16.0	0.0		
Channel										
Frequency (MHz)										
650200										
3735										
80	QPSK	1	1	14.49	14.61	14.44	16.0	0.0		
Channel										
Frequency (MHz)										
650400										
3729.02										
80	QPSK	1	1	14.57	14.49	14.56	16.0	0.0		
Channel										
Frequency (MHz)										
650600										
3727.02										
80	QPSK	1	1	14.51	14.58	14.57	16.0	0.0		
Channel										
Frequency (MHz)										
650800										
3720										
80	QPSK	1	1	14.55	14.58	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
651000										
3715.02										
80	QPSK	1	1	14.53	14.58	14.57	16.0	0.0		
Channel										
Frequency (MHz)										
651200										
3710.01										
80	QPSK	1	1	14.56	14.61	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
651400										
3705.02										
80	QPSK	1	1	14.55	14.56	14.56	16.0	0.0		
Channel										
Frequency (MHz)										
651600										
3700.01										
80	QPSK	1	1	14.58	14.57	14.44	16.0	0.0		
Channel										
Frequency (MHz)										
651800										
3695.02										
80	QPSK	1	1	14.54	14.57	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
652000										
3690.01										
80	QPSK	1	1	14.52	14.54	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
652200										
3685.02										
80	QPSK	1	1	14.54	14.54	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
652400										
3680.02										
80	QPSK	1	1	14.53	14.51	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
652600										
3675.02										
80	QPSK	1	1	14.54	14.53	14.52	16.0	0.0		
Channel										
Frequency (MHz)										
652800										
3670.01										
80	QPSK	1	1	14.54	14.54	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
653000										
3665.02										
80	QPSK	1	1	14.54	14.54	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
653200										
3660.02										
80	QPSK	1	1	14.54	14.54	14.53	16.0	0.0		

Part27Q_n77(HPUe)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3499.98										
100	PI2 BPSK	1	1	14.47						
100	PI2 BPSK	1	137	14.42			16.0	0.0		
100	PI2 BPSK	1	271	14.42						
100	PI2 BPSK	136	0	14.34			16.0	0.0		
100	PI2 BPSK	136	69	14.46			16.0	0.0		
100	PI2 BPSK	136	138	14.35			16.0	0.0		
100	PI2 BPSK	270	0	14.34			16.0	0.0		
100	QPSK	1	1	14.64						
100	QPSK	1	137	14.60			16.0	0.0		
100	QPSK	1	271	14.59						
100	QPSK	136	0	14.54			16.0	0.0		
100	QPSK	136	69	14.56						
100	QPSK	136	138	14.57			16.0	0.0		
100	QPSK	270	0	14.56			16.0	0.0		
100	16QAM	1	1	14.55			16.0	0.0		
100	64QAM	1	1	14.56			16.0	0.0		
100	256QAM	1	1	14.53			16.0	0.0		
Channel										
Frequency (MHz)										
633000										
3495										
80	QPSK	1	1	14.61	14.63	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
633332										
3496.02										
80	QPSK	1	1	14.61	14.59	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
633668										
3496.02										
80	QPSK	1	1	14.63	14.59	14.56	16.0	0.0		
Channel										
Frequency (MHz)										
634000										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
634332										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
634668										
3495.02										
80	QPSK	1	1	14.59	14.59	14.58	16.0	0.0		
Channel										
Frequency (MHz)										
635000										
3495.02										
80	QPSK	1	1							



Part270_n77(HPUJE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3760	3840	3930				
100	PI2 BPSK	1	1	14.44	14.44	14.33				
100	PI2 BPSK	1	137	14.36	14.33	14.39	16.0	0.0		
100	PI2 BPSK	1	271	14.35	14.40	14.39				
100	PI2 BPSK	135	0	14.24	14.27	14.23	16.0	0.0		
100	PI2 BPSK	135	69	14.45	14.35	14.43	16.0	0.0		
100	PI2 BPSK	135	138	14.27	14.20	14.20				
100	PI2 BPSK	270	0	14.44	14.38	14.38	16.0	0.0		
100	QPSK	1	1	14.61	14.63	14.58				
100	QPSK	1	137	14.59	14.58	14.56	16.0	0.0		
100	QPSK	1	271	14.49	14.52	14.44				
100	QPSK	135	0	14.50	14.44	14.50				
100	QPSK	135	69	14.37	14.35	14.34	16.0	0.0		
100	QPSK	135	138	14.44	14.48	14.46				
100	QPSK	270	0	14.42	14.47	14.41	16.0	0.0		
100	16QAM	1	1	14.54	14.47	14.40	16.0	0.0		
100	64QAM	1	1	14.51	14.50	14.46	16.0	0.0		
100	256QAM	1	1	14.43	14.42	14.43	16.0	0.0		
Channel										
Frequency (MHz)										
				65800	65900	66000				
80	QPSK	1	1	14.52	14.58	14.47	15.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65099				
80	QPSK	1	1	14.48	14.61	14.56	16.0	0.0		
Channel										
Frequency (MHz)										
				3735	3840	3945				
70	QPSK	1	1	14.49	14.61	14.44	16.0	0.0		
Channel										
Frequency (MHz)										
				64868	65000	65332				
60	QPSK	1	1	14.57	14.49	14.56	16.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65366				
50	QPSK	1	1	14.53	14.58	14.57	15.0	0.0		
Channel										
Frequency (MHz)										
				64800	65000	65400				
40	QPSK	1	1	14.55	14.58	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
				64769	65000	65332				
30	QPSK	1	1	14.46	14.61	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
				64750	65000	65450				
25	QPSK	1	1	14.55	14.56	14.56	15.0	0.0		
Channel										
Frequency (MHz)										
				64734	65000	65466				
20	QPSK	1	1	14.58	14.57	14.44	16.0	0.0		
Channel										
Frequency (MHz)										
				64716	65000	65452				
15	QPSK	1	1	14.54	14.57	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
				64700	65000	65500				
10	QPSK	1	1	14.46	14.52	14.43	16.0	0.0		

Part27Q_n77_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3499.98						
100	PI2 BPSK	1	1		22.72					
100	PI2 BPSK	1	137		22.89		24.0	0.0		
100	PI2 BPSK	1	271		22.77					
100	PI2 BPSK	135	0		22.87		24.0	0.0		
100	PI2 BPSK	135	69		22.71		24.0	0.0		
100	PI2 BPSK	135	138		22.77					
100	PI2 BPSK	270	0		22.89		24.0	0.0		
100	QPSK	1	1		22.79					
100	QPSK	1	137		22.74		24.0	0.0		
100	QPSK	1	271		22.77					
100	QPSK	135	0		22.89					
100	QPSK	135	69		22.72		24.0	0.0		
100	QPSK	135	138		22.70					
100	QPSK	270	0		22.70		24.0	0.0		
100	16QAM	1	1		22.48		24.0	0.0		
100	64QAM	1	1		22.48		24.0	0.0		
100	256QAM	1	1		21.85		22.5	1.5		
Channel										
Frequency (MHz)										
				633000	633332	633668				
80	QPSK	1	1	22.72	22.68	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
				63268	63332	63400				
80	QPSK	1	1	22.73	22.89	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
				3485.01	3499.98	3514.98				
70	QPSK	1	1	22.71	22.76	22.86	24.0	0.0		
Channel										
Frequency (MHz)										
				633000	633332	633668				
60	QPSK	1	1	22.72	22.68	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
				631668	63332	635000				
50	QPSK	1	1	22.69	22.74	22.76	24.0	0.0		
Channel										
Frequency (MHz)										
				631334	63332	635332				
40	QPSK	1	1	22.75	22.84	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
				631000	63332	635668				
30	QPSK	1	1	22.68	22.72	22.70	24.0	0.0		
Channel										
Frequency (MHz)										
				630624	63332	635832				
25	QPSK	1	1	22.76	22.67	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
				630668	63332	636000				
20	QPSK	1	1	22.75	22.74	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
				630511	6349.98	6342.48				
15	QPSK	1	1	22.68	22.74	22.85	24.0	0.0		
Channel										
Frequency (MHz)										
				630334	63332	636332				
10	QPSK	1	1	22.77	22.71	22.87	24.0	0.0		

Part270_n77_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3750	3840	3930				
100	PI2 BPSK	1	1	22.68	22.76	22.74				
100	PI2 BPSK	1	137	22.73	22.75	22.79	24.0	0.0		
100	PI2 BPSK	1	271	22.68	22.74	22.68				
100	PI2 BPSK	135	0	22.70	22.79	22.72	24.0	0.0		
100	PI2 BPSK	135	69	22.73	22.71	22.75	24.0	0.0		
100	PI2 BPSK	135	138	22.75	22.69	22.73				
100	PI2 BPSK	270	0	22.80	22.68	22.69	24.0	0.0		
100	QPSK	1	1	22.76	22.83	22.75				
100	QPSK	1	137	22.70	22.74	22.73	24.0	0.0		
100	QPSK	1	271	22.67	22.75	22.69				
100	QPSK	135	0	22.67	22.78	22.67				
100	QPSK	135	69	22.76	22.60	22.73	24.0	0.0		
100	QPSK	135	138	22.72	22.70	22.67				
100	QPSK	270	0	22.69	22.70	22.69	24.0	0.0		
100	16QAM	1	1	22.38	22.48	22.49	24.0	0.0		
100	64QAM	1	1	22.46	22.44	22.42	24.0	0.0		
100	256QAM	1	1	21.98	21.91	21.97	22.5	1.5		
Channel										
Frequency (MHz)										
				65800	65900	66000				
80	QPSK	1	1	22.71	22.75	22.69	24.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65099				
80	QPSK	1	1	22.74	22.82	22.71	24.0	0.0		
Channel										
Frequency (MHz)										
				3735	3840	3945				
70	QPSK	1	1	22.74	22.77	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
				64868	65000	65332				
60	QPSK	1	1	22.63	22.75	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
				64834	65000	65366				
50	QPSK	1	1	22.69	22.74	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
				64800	65000	65400				
40	QPSK	1	1	22.61	22.76	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
				64769	65000	65432				
30	QPSK	1	1	22.69	22.75	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
				64750	65000	65450				



Part27Q_n77(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.58					
100	PI2 BPSK	1	137	25.10			26.5	0.0	
100	PI2 BPSK	1	271	25.36					
100	PI2 BPSK	135	0	25.14			26.5	0.0	
100	PI2 BPSK	135	69	25.27			26.5	0.0	
100	PI2 BPSK	135	138	25.30					
100	PI2 BPSK	270	0	25.33			26.5	0.0	
100	QPSK	1	1	25.32					
100	QPSK	1	137	25.12			26.5	0.0	
100	QPSK	1	271	25.41					
100	QPSK	135	0	25.13			26.5	0.0	
100	QPSK	135	69	25.38					
100	QPSK	135	138	25.28					
100	QPSK	270	0	25.15			26.0	0.5	
100	16QAM	1	1	24.39			26.0	0.5	
100	64QAM	1	1	23.32			24.5	2.0	
100	256QAM	1	1	21.85			22.5	4.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495	3499.98	3504.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63268	63332	63400	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3496.02	3499.98	3503.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.47	25.51	25.58	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.58	25.49	25.55	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63200	63332	63466	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.51	25.54	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63332	63500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3476.02	3499.98	3523.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63100	63332	63566	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63034	63332	63632	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3465.01	3499.98	3534.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63332	63600	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3460.02	3499.98	3540.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63034	63332	63632	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3499.98	3545.98	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n77(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.31	25.34	25.19			
100	PI2 BPSK	1	137	25.08	25.17	25.14	26.5	0.0	
100	PI2 BPSK	1	271	24.77	24.83	24.88			
100	PI2 BPSK	135	0	25.37	25.45	25.32	26.5	0.0	
100	PI2 BPSK	135	69	25.34	25.46	25.42	26.5	0.0	
100	PI2 BPSK	135	138	25.26	25.31	25.21			
100	PI2 BPSK	270	0	25.40	25.41	25.36	26.5	0.0	
100	QPSK	1	1	25.42	25.48	25.32			
100	QPSK	1	137	25.05	25.11	25.05	26.5	0.0	
100	QPSK	1	271	24.83	24.75	24.81			
100	QPSK	135	0	24.97	25.08	25.02	26.5	0.0	
100	QPSK	135	69	25.26	25.43	25.42	26.5	0.0	
100	QPSK	135	138	25.06	25.10	24.97			
100	QPSK	270	0	25.07	25.11	25.02	26.5	0.0	
100	16QAM	1	1	24.76	24.81	24.80	26.5	0.0	
100	64QAM	1	1	23.01	23.15	23.12	25.0	1.5	
100	256QAM	1	1	21.65	21.73	21.66	22.5	4.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.32	25.39	25.13	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3726.01	3840	3945.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64768	65000	65432	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3710.01	3840	3960.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64700	65000	65500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3703.01	3840	3973.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64700	65000	65500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3700	3840	3975	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.84					
100	PI2 BPSK	1	137	22.89			24.0	0.0	
100	PI2 BPSK	1	271	22.81					
100	PI2 BPSK	135	0	22.84			24.0	0.0	
100	PI2 BPSK	135	69	22.77			24.0	0.0	
100	PI2 BPSK	135	138	22.84			24.0	0.0	
100	PI2 BPSK	270	0	22.88			24.0	0.0	
100	QPSK	1	1	22.85					
100	QPSK	1	137	22.75			24.0	0.0	
100	QPSK	1	271	22.82					
100	QPSK	135	0	22.76			24.0	0.0	
100	QPSK	135	69	22.84					
100	QPSK	135	138	22.74					
100	QPSK	270	0	22.73			24.0	0.0	
100	16QAM	1	1	22.51			24.0	0.0	
100	64QAM	1	1	22.57			24.0	0.0	
100	256QAM	1	1	21.83			22.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495	3499.98	3504.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	63288	63332	63400	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3496.02	3499.98	3503.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.83	22.80	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.81	22.89	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.91	22.84	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63332	63500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3476.02	3499.98	3523.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63100	63332	63566	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63034	63332	63632	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3465.01	3499.98	3534.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63332	63600	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3460.02	3499.98	3540.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63034	63332	63632	Tune-up limit (dBm)	MPR (dB)	



Part270_n77_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3760	3840	3930				
100	Pl2 BPSK	1	1	22.80	22.80	22.79				
100	Pl2 BPSK	1	137	22.78	22.85	22.79	24.0	0.0		
100	Pl2 BPSK	1	271	22.88	22.74	22.74				
100	Pl2 BPSK	136	0	22.77	22.79	22.78	24.0	0.0		
100	Pl2 BPSK	136	69	22.76	22.76	22.63	24.0	0.0		
100	Pl2 BPSK	136	138	22.74	22.81	22.71				
100	Pl2 BPSK	270	0	22.84	22.87	22.79	24.0	0.0		
100	QPSK	1	1	22.88	22.84	22.82				
100	QPSK	1	137	22.73	22.69	22.71	24.0	0.0		
100	QPSK	1	271	22.75	22.70	22.81				
100	QPSK	136	0	22.85	22.84	22.74				
100	QPSK	136	69	22.82	22.85	22.83	24.0	0.0		
100	QPSK	136	138	22.72	22.62	22.69				
100	QPSK	270	0	22.71	22.78	22.63	24.0	0.0		
100	16QAM	1	1	22.49	22.50	22.48	24.0	0.0		
100	64QAM	1	1	22.46	22.52	22.55	24.0	0.0		
100	256QAM	1	1	21.60	21.58	21.59	22.5	1.5		
Channel										
Frequency (MHz)										
				649688	650000	662332	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3742.02	3840	3924.98				
Channel										
Frequency (MHz)										
				649334	650000	663666	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3740.01	3840	3929.99				
Channel										
Frequency (MHz)										
				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	22.84	22.83	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
				648688	650000	663332	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	22.79	22.82	22.83	24.0	0.0		
Channel										
Frequency (MHz)										
				648334	650000	663666	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3725.01	3840	3924.99				
Channel										
Frequency (MHz)										
				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3720	3840	3960				
Channel										
Frequency (MHz)										
				22.77	22.79	22.84	24.0	0.0		
40	QPSK	1	1	22.71	22.50	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
				647688	650000	664332	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.83	22.83	22.89	24.0	0.0		
Channel										
Frequency (MHz)										
				647000	650000	664500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	22.51	22.98	22.85	24.0	0.0		
Channel										
Frequency (MHz)										
				647334	650000	664666	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3710.01	3840	3929.99				
Channel										
Frequency (MHz)										
				22.52	22.88	22.88	24.0	0.0		
15	QPSK	1	1	22.77	22.87	22.84	24.0	0.0		
Channel										
Frequency (MHz)										
				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	22.77	22.91	22.80	24.0	0.0		

Part270_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3499.98						
100	Pl2 BPSK	1	1	25.94						
100	Pl2 BPSK	1	137	26.03			27.0	0.0		
100	Pl2 BPSK	1	271	26.02						
100	Pl2 BPSK	136	0	25.92			26.5	0.5		
100	Pl2 BPSK	136	69	25.96			27.0	0.0		
100	Pl2 BPSK	136	138	25.92			26.5	0.5		
100	QPSK	1	1	26.00						
100	QPSK	1	137	25.95			27.0	0.0		
100	QPSK	1	271	25.74						
100	QPSK	136	0	24.89			27.0	0.0		
100	QPSK	136	69	25.95						
100	QPSK	136	138	24.89			27.0	0.0		
100	QPSK	270	0	24.86			26.0	1.0		
100	16QAM	1	1	24.58			26.0	1.0		
100	64QAM	1	1	23.11			24.5	2.5		
100	256QAM	1	1	21.75			22.5	4.5		
Channel										
Frequency (MHz)										
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3405	3499.98	3504.99				
Channel										
Frequency (MHz)										
				632968	633332	634000	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3499.02	3499.98	3510				
Channel										
Frequency (MHz)										
				632851	633332	634332	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	25.97	25.98	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	26.05	26.02	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3475.02	3499.98	3505				
Channel										
Frequency (MHz)										
				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3470.01	3499.98	3509.98				
Channel										
Frequency (MHz)										
				25.97	26.04	25.99	27.0	0.0		
40	QPSK	1	1	631000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3465	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	25.94	26.02	26.03	27.0	0.0		
Channel										
Frequency (MHz)										
				630834	633332	634332	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	3462.61	3499.98	3507.61				
Channel										
Frequency (MHz)										
				630668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3460.02	3499.98	3500				
Channel										
Frequency (MHz)										
				26.01	26.07	25.94	27.0	0.0		
15	QPSK	1	1	26.03	26.07	25.97	27.0	0.0		
Channel										
Frequency (MHz)										
				630334	633332	635332	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	3458.01	3499.98	3504.01				

Part270_n77(HPUE)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3790	3840	3930				
100	Pl2 BPSK	1	1	25.96	25.99	26.00				
100	Pl2 BPSK	1	137	26.04	26.07	26.08	27.0	0.0		
100	Pl2 BPSK	1	271	26.04	25.97	25.97				
100	Pl2 BPSK	136	0	25.97	25.94	25.96	26.5	0.5		
100	Pl2 BPSK	136	69	25.92	25.91	25.95	27.0	0.0		
100	Pl2 BPSK	136	138	25.92	25.94	25.90	26.5	0.5		
100	Pl2 BPSK	270	0	25.46	25.52	25.50				
100	QPSK	1	1	25.95	25.94					
100	QPSK	1	137	25.97	25.91	26.02	27.0	0.0		
100	QPSK	1	271	25.70	25.78	25.73				
100	QPSK	136	0	24.91	24.95	24.94				
100	QPSK	136	69	25.95	25.94	25.91	27.0	0.0		
100	QPSK	136	138	24.95	24.88	24.85				
100	QPSK	270	0	24.81	24.86	24.83	26.0	1.0		
100	16QAM	1	1	24.64	24.84	24.86	26.0	1.0		
100	64QAM	1	1	23.15	23.13	23.18	24.5	2.5		
100	256QAM	1	1	21.84	21.76	21.79	22.5	4.5		
Channel										
Frequency (MHz)										
				649688	650000	662332	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3742.02	3840	3924.98				
Channel										
Frequency (MHz)										
				649334	650000	663666	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	3740.01	3840	3929.99				
Channel										
Frequency (MHz)										
				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	25.93	25.99	26.03	27.0	0.0		
Channel										
Frequency (MHz)										
				648688	650000	663332	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	26.00	26.13	26.02	27.0	0.0		
Channel										
Frequency (MHz)										
				648334	650000	663666	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	3725.01	3840	3924.99				
Channel										
Frequency (MHz)										
				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	3720	3840	3960				
Channel										
Frequency (MHz)										
				26.05	26.07	26.02	27.0	0.0		
40	QPSK	1	1	647688	650000	664332	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				647334	650000	664666	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	26.00	26.13	25.91	27.0	0.0		
Channel										
Frequency (MHz)										
				647000	650000	664500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	26.04	26.08	25.99	27.0	0.0		
Channel										
Frequency (MHz)										
				647334	650000	664666	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	3710.01	3840	3929.99				
Channel										
Frequency (MHz)										
				25.96	26.13	25.91	27.0	0.0		
15	QPSK	1	1	25.94	26.07	25.97	27.0	0.0		
Channel										
Frequency (MHz)										
				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	26.07	26.06	25.95	27.0	0.0		



Part27Q_n77_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	22.54						
100	Pl2 BPSK	1	137	22.42			24.0	0.0		
100	Pl2 BPSK	1	271	22.51						
100	Pl2 BPSK	135	0	22.54			24.0	0.0		
100	Pl2 BPSK	135	69	22.52			24.0	0.0		
100	Pl2 BPSK	135	138	22.51			24.0	0.0		
100	Pl2 BPSK	270	0	22.45						
100	QPSK	1	1	22.56						
100	QPSK	1	137	22.52			24.0	0.0		
100	QPSK	1	271	22.51						
100	QPSK	135	0	22.50			24.0	0.0		
100	QPSK	135	69	22.51						
100	QPSK	135	138	22.44						
100	QPSK	270	0	22.41			24.0	0.0		
100	16QAM	1	1	22.17			24.0	0.0		
100	64QAM	1	1	22.26			24.0	0.0		
100	256QAM	1	1	21.37			22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3465	3469.98	3504.99				
Channel										
Frequency (MHz)										
80	QPSK	1	1	63268	63332	63400				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3450.02	3459.98	3510				
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.52	22.51	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	63200	63332	63466				
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.48	22.42	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63168	63332	63500				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3475.02	3489.98	3525				
Channel										
Frequency (MHz)										
40	QPSK	1	1	63134	63332	63532				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3470.01	3489.98	3529.98				
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.41	22.53	22.45	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63100	63332	63598				
Channel										
Frequency (MHz)										
30	QPSK	1	1	63084	63332	63582				
Channel										
Frequency (MHz)										
25	QPSK	1	1	3482.51	3489.98	3517.48				
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.50	22.50	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63068	63332	63600				
Channel										
Frequency (MHz)										
20	QPSK	1	1	3460.02	3489.98	3540				
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.43	22.48	22.46	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63034	63332	63632				
Channel										
Frequency (MHz)										
10	QPSK	1	1	3455.01	3489.98	3544.98				
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.47	22.44	22.51	24.0	0.0		

Part27Q_n77_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	22.51	22.49	22.52				
100	Pl2 BPSK	1	137	22.50	22.40	22.38	24.0	0.0		
100	Pl2 BPSK	1	271	22.54	22.50	22.55				
100	Pl2 BPSK	135	0	22.51	22.56	22.53	24.0	0.0		
100	Pl2 BPSK	135	69	22.60	22.52	22.51	24.0	0.0		
100	Pl2 BPSK	135	138	22.48	22.57	22.60	24.0	0.0		
100	Pl2 BPSK	270	0	22.42	22.51	22.48				
100	QPSK	1	1	22.57	22.53	22.51				
100	QPSK	1	137	22.48	22.54	22.55	24.0	0.0		
100	QPSK	1	271	22.56	22.57	22.58				
100	QPSK	135	0	22.58	22.50	22.46	24.0	0.0		
100	QPSK	135	69	22.70	22.62	22.72				
100	QPSK	135	138	22.45	22.47	22.48	24.0	0.0		
100	QPSK	270	0	22.40	22.46	22.38	24.0	0.0		
100	16QAM	1	1	22.25	22.12	22.20	24.0	0.0		
100	64QAM	1	1	22.30	22.27	22.37	24.0	0.0		
100	256QAM	1	1	21.35	21.43	21.36	22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	64800	65000	66200				
Channel										
Frequency (MHz)										
80	QPSK	1	1	64834	65000	66366				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3725.01	3840	3945.98				
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.46	22.53	22.46	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	64868	65000	66332				
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.45	22.47	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64834	65000	66366				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3725.01	3840	3945.98				
Channel										
Frequency (MHz)										
40	QPSK	1	1	64800	65000	66300				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3720	3840	3960				
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.53	22.57	22.59	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	64768	65000	66432				
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.45	22.55	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	64700	65000	66500				
Channel										
Frequency (MHz)										
25	QPSK	1	1	3712.5	3840	3975				
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.42	22.58	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	64734	65000	66466				
Channel										
Frequency (MHz)										
20	QPSK	1	1	3710.01	3840	3969.98				
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.48	22.52	22.60	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	64700	65000	66500				
Channel										
Frequency (MHz)										
15	QPSK	1	1	3707.52	3840	3972.48				
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.50	22.51	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	64700	65000	66500				
Channel										
Frequency (MHz)										
10	QPSK	1	1	3705	3840	3975				
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.45	22.60	22.50	24.0	0.0		

Part27Q_n77(HPUe)_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	25.89						
100	Pl2 BPSK	1	137	26.12			27.0	0.0		
100	Pl2 BPSK	1	271	26.07						
100	Pl2 BPSK	135	0	25.49			26.5	0.5		
100	Pl2 BPSK	135	69	25.93			27.0	0.0		
100	Pl2 BPSK	135	138	26.09			26.5	0.5		
100	Pl2 BPSK	270	0	25.50						
100	QPSK	1	1	26.16						
100	QPSK	1	137	26.13			27.0	0.0		
100	QPSK	1	271	25.98						
100	QPSK	135	0	24.91			27.0	0.0		
100	QPSK	135	69	26.06						
100	QPSK	135	138	25.18			27.0	0.0		
100	QPSK	270	0	24.34			26.0	1.0		
100	16QAM	1	1	24.38			26.0	1.0		
100	64QAM	1	1	23.08			24.5	2.5		
100	256QAM	1	1	21.85			22.5	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	63000	63332	63666				
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.15	26.11	26.11	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.11	26.09	26.11	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	26.12	26.02	26.09	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	63000	63332	63466				
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.01	26.12	26.08	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63168	63332	63500				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3475.02	3489.98	3525				
Channel										
Frequency (MHz)										
40	QPSK	1	1	63134	63332	63532				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3470.01	3489.98	3529.98				
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.05	26.03	26.15	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63100	63332	63598				
Channel										
Frequency (MHz)										
30	QPSK	1	1	26.04	26.01	26.12	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	63084	63332	63582				
Channel										
Frequency (MHz)										
25	QPSK	1	1	3482.51	3489.98	3517.48				
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.07	26.10	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63068	63332	63600				
Channel										
Frequency (MHz)										
20	QPSK	1	1	3460.02	3489.98	3540				
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.02	26.03	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63034	63332	63632				
Channel										
Frequency (MHz)										
15										



Part270_n77(HPUUE)_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3760										
100	PI2 BPSK	1	1	25.95	25.93	25.85				
100	PI2 BPSK	1	137	26.11	26.21	26.18	27.0	0.0		
100	PI2 BPSK	1	271	26.15	26.13	26.13				
100	PI2 BPSK	135	0	25.58	25.50	25.53	26.5	0.5		
100	PI2 BPSK	135	69	25.96	26.01	25.89	27.0	0.0		
100	PI2 BPSK	135	138	25.64	25.70	25.66				
100	PI2 BPSK	270	0	25.53	25.56	25.59	26.5	0.5		
100	QPSK	1	1	25.17	25.22	25.20				
100	QPSK	1	137	26.12	26.15	26.10	27.0	0.0		
100	QPSK	1	271	26.02	26.07	25.94				
100	QPSK	135	0	24.99	24.89	24.96	27.0	0.0		
100	QPSK	135	69	25.01	25.13	25.12				
100	QPSK	135	138	25.21	25.17	25.17				
100	QPSK	270	0	24.92	24.99	24.98	26.0	1.0		
100	16QAM	1	1	24.63	24.55	24.61	26.0	1.0		
100	16QAM	1	1	23.04	23.06	23.16	24.5	2.5		
100	256QAM	1	1	21.74	21.72	21.62	22.5	4.5		
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	26.07	26.19	26.16	27.0	0.0		
Channel										
Frequency (MHz)										
3740.01										
80	QPSK	1	1	26.11	26.15	26.13	27.0	0.0		
Channel										
Frequency (MHz)										
3735										
70	QPSK	1	1	26.08	26.15	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
64868										
60	QPSK	1	1	26.06	26.18	26.08	27.0	0.0		
Channel										
Frequency (MHz)										
3725.01										
50	QPSK	1	1	26.13	26.21	26.05	27.0	0.0		
Channel										
Frequency (MHz)										
3720										
40	QPSK	1	1	26.09	26.09	26.11	27.0	0.0		
Channel										
Frequency (MHz)										
64768										
30	QPSK	1	1	26.14	26.12	26.15	27.0	0.0		
Channel										
Frequency (MHz)										
3723										
25	QPSK	1	1	26.07	26.19	26.10	27.0	0.0		
Channel										
Frequency (MHz)										
64734										
20	QPSK	1	1	26.13	26.21	26.07	27.0	0.0		
Channel										
Frequency (MHz)										
3707.52										
15	QPSK	1	1	26.09	26.18	26.07	27.0	0.0		
Channel										
Frequency (MHz)										
3705										
10	QPSK	1	1	26.10	26.10	26.10	27.0	0.0		

Part27Q_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3499.98										
100	PI2 BPSK	1	1			14.34				
100	PI2 BPSK	1	137			14.27	16.0	0.0		
100	PI2 BPSK	1	271			14.26				
100	PI2 BPSK	135	0			14.39	16.0	0.0		
100	PI2 BPSK	135	69			14.28	16.0	0.0		
100	PI2 BPSK	135	138			14.27				
100	PI2 BPSK	270	0			14.34	16.0	0.0		
100	QPSK	1	1			14.36				
100	QPSK	1	137			14.54	16.0	0.0		
100	QPSK	1	271			14.42				
100	QPSK	135	0			14.48	16.0	0.0		
100	QPSK	135	69			14.55				
100	QPSK	135	138			14.52				
100	QPSK	270	0			14.45	16.0	0.0		
100	16QAM	1	1			14.47	16.0	0.0		
100	16QAM	1	1			14.41	16.0	0.0		
100	256QAM	1	1			14.51	16.0	0.0		
Channel										
Frequency (MHz)										
63000										
80	QPSK	1	1	14.46	14.50	14.54	15.0	0.0		
Channel										
Frequency (MHz)										
3490.02										
80	QPSK	1	1	14.46	14.41	14.48	16.0	0.0		
Channel										
Frequency (MHz)										
3485.01										
70	QPSK	1	1	14.52	14.47	14.47	16.0	0.0		
Channel										
Frequency (MHz)										
63000										
60	QPSK	1	1	14.49	14.44	14.41	16.0	0.0		
Channel										
Frequency (MHz)										
63168										
50	QPSK	1	1	14.53	14.54	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
3470.01										
40	QPSK	1	1	14.48	14.55	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
63100										
30	QPSK	1	1	14.45	14.54	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
63084										
25	QPSK	1	1	14.43	14.51	14.55	15.0	0.0		
Channel										
Frequency (MHz)										
63068										
20	QPSK	1	1	14.56	14.56	14.46	16.0	0.0		
Channel										
Frequency (MHz)										
3460.02										
15	QPSK	1	1	14.48	14.43	14.49	16.0	0.0		
Channel										
Frequency (MHz)										
63034										
10	QPSK	1	1	14.45	14.46	14.50	16.0	0.0		

Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3750										
100	PI2 BPSK	1	1			14.27				
100	PI2 BPSK	1	137			14.14	16.0	0.0		
100	PI2 BPSK	1	271			14.19				
100	PI2 BPSK	135	0			14.35	16.0	0.0		
100	PI2 BPSK	135	69			14.24	16.0	0.0		
100	PI2 BPSK	135	138			14.24				
100	PI2 BPSK	270	0			14.22	16.0	0.0		
100	QPSK	1	1			14.32				
100	QPSK	1	137			14.43	16.0	0.0		
100	QPSK	1	271			14.40				
100	QPSK	135	0			14.34	16.0	0.0		
100	QPSK	135	69			14.40				
100	QPSK	135	138			14.39	16.0	0.0		
100	QPSK	270	0			14.44	16.0	0.0		
100	16QAM	1	1			14.46	16.0	0.0		
100	16QAM	1	1			14.52	16.0	0.0		
100	256QAM	1	1			14.41	16.0	0.0		
Channel										
Frequency (MHz)										
64968										
80	QPSK	1	1	14.39	14.51	14.50	15.0	0.0		
Channel										
Frequency (MHz)										
3740.01										
80	QPSK	1	1	14.41	14.44	14.41	16.0	0.0		
Channel										
Frequency (MHz)										
64900										
70	QPSK	1	1	14.50	14.43	14.46	16.0	0.0		
Channel										
Frequency (MHz)										
64868										
60	QPSK	1	1	14.51	14.45	14.50	16.0	0.0		
Channel										
Frequency (MHz)										
3725.01										
50	QPSK	1	1	14.42	14.37	14.51	16.0	0.0		
Channel										
Frequency (MHz)										
64800										
40	QPSK	1	1	14.41	14.48	14.44	16.0	0.0		
Channel										
Frequency (MHz)										
3720										
30	QPSK	1	1	14.48	14.49	14.46	16.0	0.0		
Channel										
Frequency (MHz)										
64768										
25	QPSK	1	1	14.42	14.43	14.39	16.0	0.0		
Channel										
Frequency (MHz)										
64734										
20	QPSK	1	1	14.47	14.42	14.37	16.0	0.0		
Channel										
Frequency (MHz)										
3707.52										
15	QPSK	1	1	14.50	14.44	14.48	16.0	0.0		
Channel										
Frequency (MHz)										
64700										
10	QPSK	1	1	14.44	14.44	14.50	16.0	0.0		



Part27Q_n78(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3499.98										
100	PI2 BPSK	1	1		14.34					
100	PI2 BPSK	1	137		14.27		16.0	0.0		
100	PI2 BPSK	1	271		14.28					
100	PI2 BPSK	135	0		14.39		16.0	0.0		
100	PI2 BPSK	135	69		14.28		16.0	0.0		
100	PI2 BPSK	135	138		14.27		16.0	0.0		
100	PI2 BPSK	270	0		14.34		16.0	0.0		
100	QPSK	1	1		14.38					
100	QPSK	1	137		14.54		16.0	0.0		
100	QPSK	1	271		14.42					
100	QPSK	135	0		14.48		16.0	0.0		
100	QPSK	135	69		14.55		16.0	0.0		
100	QPSK	135	138		14.52		16.0	0.0		
100	QPSK	270	0		14.45		16.0	0.0		
100	16QAM	1	1		14.47		16.0	0.0		
100	64QAM	1	1		14.41		16.0	0.0		
100	256QAM	1	1		14.51		16.0	0.0		
Channel										
Frequency (MHz)										
63000										
63332										
63666										
Tune-up limit (dBm)										
MPR (dB)										
80	QPSK	1	1	14.46	14.50	14.54	15.0	0.0		
Channel										
Frequency (MHz)										
63000										
63332										
63666										
Tune-up limit (dBm)										
MPR (dB)										
80	QPSK	1	1	14.48	14.41	14.48	16.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
3509.98										
3519.98										
Tune-up limit (dBm)										
MPR (dB)										
70	QPSK	1	1	14.52	14.47	14.47	16.0	0.0		
Channel										
Frequency (MHz)										
63000										
63332										
63666										
Tune-up limit (dBm)										
MPR (dB)										
60	QPSK	1	1	14.49	14.44	14.41	16.0	0.0		
Channel										
Frequency (MHz)										
631668										
63332										
636000										
Tune-up limit (dBm)										
MPR (dB)										
50	QPSK	1	1	14.53	14.54	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
63000										
63332										
63666										
Tune-up limit (dBm)										
MPR (dB)										
40	QPSK	1	1	14.48	14.55	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
631000										
63332										
63666										
Tune-up limit (dBm)										
MPR (dB)										
30	QPSK	1	1	14.45	14.54	14.47	16.0	0.0		
Channel										
Frequency (MHz)										
630834										
63332										
636832										
Tune-up limit (dBm)										
MPR (dB)										
25	QPSK	1	1	14.43	14.51	14.55	16.0	0.0		
Channel										
Frequency (MHz)										
630668										
63332										
636000										
Tune-up limit (dBm)										
MPR (dB)										
20	QPSK	1	1	14.55	14.58	14.48	16.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
3509.98										
3542.49										
Tune-up limit (dBm)										
MPR (dB)										
15	QPSK	1	1	14.48	14.43	14.49	16.0	0.0		
Channel										
Frequency (MHz)										
630334										
63332										
636332										
Tune-up limit (dBm)										
MPR (dB)										
10	QPSK	1	1	14.45	14.46	14.50	16.0	0.0		

Part27Q_n78(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
65000										
100	PI2 BPSK	1	1		14.27					
100	PI2 BPSK	1	137		14.14		16.0	0.0		
100	PI2 BPSK	1	271		14.19					
100	PI2 BPSK	135	0		14.35		16.0	0.0		
100	PI2 BPSK	135	69		14.24		16.0	0.0		
100	PI2 BPSK	135	138		14.24		16.0	0.0		
100	PI2 BPSK	270	0		14.22		16.0	0.0		
100	QPSK	1	1		16.32					
100	QPSK	1	137		14.43		16.0	0.0		
100	QPSK	1	271		14.40					
100	QPSK	135	0		14.34		16.0	0.0		
100	QPSK	135	69		14.40		16.0	0.0		
100	QPSK	135	138		14.39		16.0	0.0		
100	QPSK	270	0		14.44		16.0	0.0		
100	16QAM	1	1		14.46		16.0	0.0		
100	64QAM	1	1		14.32		16.0	0.0		
100	256QAM	1	1		14.41		16.0	0.0		
Channel										
Frequency (MHz)										
649668										
650000										
650332										
Tune-up limit (dBm)										
MPR (dB)										
80	QPSK	1	1	14.39	14.51	14.50	15.0	0.0		
Channel										
Frequency (MHz)										
648334										
650000										
650666										
Tune-up limit (dBm)										
MPR (dB)										
80	QPSK	1	1	14.41	14.44	14.41	16.0	0.0		
Channel										
Frequency (MHz)										
3700.02										
3705										
3765										
Tune-up limit (dBm)										
MPR (dB)										
70	QPSK	1	1	14.50	14.43	14.46	16.0	0.0		
Channel										
Frequency (MHz)										
648668										
650000										
651332										
Tune-up limit (dBm)										
MPR (dB)										
60	QPSK	1	1	14.51	14.45	14.50	16.0	0.0		
Channel										
Frequency (MHz)										
648334										
650000										
651666										
Tune-up limit (dBm)										
MPR (dB)										
50	QPSK	1	1	14.42	14.37	14.51	16.0	0.0		
Channel										
Frequency (MHz)										
648000										
650000										
652000										
Tune-up limit (dBm)										
MPR (dB)										
40	QPSK	1	1	14.41	14.48	14.44	16.0	0.0		
Channel										
Frequency (MHz)										
647668										
650000										
652332										
Tune-up limit (dBm)										
MPR (dB)										
30	QPSK	1	1	14.46	14.49	14.46	16.0	0.0		
Channel										
Frequency (MHz)										
647500										
650000										
652500										
Tune-up limit (dBm)										
MPR (dB)										
25	QPSK	1	1	14.42	14.43	14.38	16.0	0.0		
Channel										
Frequency (MHz)										
647334										
650000										
652666										
Tune-up limit (dBm)										
MPR (dB)										
20	QPSK	1	1	14.47	14.42	14.43	16.0	0.0		
Channel										
Frequency (MHz)										
3700.02										
3705										
3765										
Tune-up limit (dBm)										
MPR (dB)										
15	QPSK	1	1	14.50	14.44	14.48	16.0	0.0		
Channel										
Frequency (MHz)										
647000										
650000										
653000										
Tune-up limit (dBm)										
MPR (dB)										
10	QPSK	1	1	14.44	14.44	14.50	16.0	0.0		

Part27Q_n78_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3499.98										
100	PI2 BPSK	1	1		22.61					
100	PI2 BPSK	1	137		22.66		24.0	0.0		
100	PI2 BPSK	1	271		22.59					
100	PI2 BPSK	135	0		22.60		24.0	0.0		
100	PI2 BPSK	135	69		22.66		24.0	0.0		
100	PI2 BPSK	135	138		22.67		24.0	0.0		
100	PI2 BPSK	270	0		22.63		24.0	0.0		
100	QPSK	1	1		22.73					
100	QPSK	1	137		22.65		24.0	0.0		
100	QPSK	1	271		22.71					
100	QPSK	135	0		22.47		24.0	0.0		
100	QPSK	135	69		22.52		24.0	0.0		
100	QPSK	135	138		22.51		24.0	0.0		
100	QPSK	270	0		22.43		24.0	0.0		
100	16QAM	1	1		22.31		24.0	0.0		
100	64QAM	1	1		22.29		24.0	0.0		
100	256QAM	1	1		21.41		22.5	1.5		
Channel										
Frequency (MHz)										
63000										
63332										
63666										
Tune-up limit (dBm)										
MPR (dB)										
80	QPSK	1	1	22.52	22.54	22.63	24.0	0.0		
Channel										
Frequency (MHz)										
630668										
63332										
636000										
Tune-up limit (dBm)										
MPR (dB)										
80	QPSK	1	1	22.53	22.63	22.58	24.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
3514.98										
3514.98										
Tune-up limit (dBm)										
MPR (dB)										
70	QPSK	1	1	22.61	22.54	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
630000										
63332										
63666										
Tune-up limit (dBm)										
MPR (dB)										
60	QPSK	1	1	22.49	22.59	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
631668										
63332										
636000										
Tune-up limit (dBm)										
MPR (dB)										
50	QPSK	1	1	22.58	22.58	22.58	24.0	0.0		
Channel										
Frequency (MHz)										
631334										
63332										
636332										
Tune-up limit (dBm)										
MPR (dB)										
40	QPSK	1	1	22.50	22.57	22.60	24.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
3529.98										
3529.98										
Tune-up limit (dBm)										
MPR (dB)										
30	QPSK	1	1	22.54	22.58	22.60	24.0	0.0		
Channel										
Frequency (MHz)										
630834										
63332										
636832										
Tune-up limit (dBm)										
MPR (dB)										
25	QPSK	1	1	22.45	22.56	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
630668										
63332										
636000										
Tune-up limit (dBm)										
MPR (dB)										
20	QPSK	1	1	22.59	22.51	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
3542.49										
3542.49										
Tune-up limit (dBm)										
MPR (dB)										
15	QPSK	1	1	22.54	22.53	22.52	24.0	0.0		
Channel										
Frequency (MHz)										
630334										
63332										
636332										
Tune-up limit (dBm)										
MPR (dB)										
10	QPSK	1	1	22.60	22.56	22.56	24.0	0.0		



Part270_n78_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	22.71						
100	Pl2 BPSK	1	137	22.70			24.0	0.0		
100	Pl2 BPSK	1	271	22.68						
100	Pl2 BPSK	135	0	22.72			24.0	0.0		
100	Pl2 BPSK	135	69	22.71			24.0	0.0		
100	Pl2 BPSK	135	138	22.69			24.0	0.0		
100	Pl2 BPSK	270	0	22.73						
100	QPSK	1	1	22.73						
100	QPSK	1	137	22.74			24.0	0.0		
100	QPSK	1	271	22.73						
100	QPSK	135	0	22.69			24.0	0.0		
100	QPSK	135	69	22.77						
100	QPSK	135	138	22.72						
100	QPSK	270	0	22.64			24.0	0.0		
100	16QAM	1	1	22.45			24.0	0.0		
100	64QAM	1	1	22.36			24.0	0.0		
100	256QAM	1	1	21.45			22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.13	22.71	22.70	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.71	22.61	22.59	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.63	22.67	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.69	22.56	22.81	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.72	22.58	22.57	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.70	22.69	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.60	22.66	22.58	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.68	22.64	22.67	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.68	22.56	22.69	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.63	22.64	22.56	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.61	22.61	22.55	24.0	0.0		

Part27Q_n78(HPUE)_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	25.49						
100	Pl2 BPSK	1	137	25.07			26.5	0.0		
100	Pl2 BPSK	1	271	25.51						
100	Pl2 BPSK	135	0	25.50			26.0	0.5		
100	Pl2 BPSK	135	69	25.52			26.5	0.0		
100	Pl2 BPSK	135	138	25.50			26.0	0.5		
100	QPSK	1	1	25.50						
100	QPSK	1	137	25.47			26.5	0.0		
100	QPSK	1	271	25.49						
100	QPSK	135	0	24.86			26.5	0.0		
100	QPSK	135	69	25.45						
100	QPSK	135	138	24.91			25.0	1.0		
100	QPSK	270	0	24.81			25.5	1.0		
100	16QAM	1	1	24.54			25.5	1.0		
100	64QAM	1	1	23.07			24.0	2.5		
100	256QAM	1	1	21.72			22.0	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.34	25.41	25.39	25.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.37	25.34	25.39	26.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	25.34	25.38	25.29	26.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	25.37	25.36	25.37	26.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.30	25.40	25.32	26.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	25.30	25.44	25.38	26.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.24	25.40	25.35	26.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	25.37	25.39	25.43	26.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.38	25.32	25.39	26.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	25.24	25.41	25.41	26.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	25.36	25.43	25.38	26.5	0.0		

Part270_n78(HPUE)_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	25.55						
100	Pl2 BPSK	1	137	25.58			26.5	0.0		
100	Pl2 BPSK	1	271	25.41						
100	Pl2 BPSK	135	0	25.61			26.0	0.5		
100	Pl2 BPSK	135	69	25.59			26.5	0.0		
100	Pl2 BPSK	135	138	25.63			26.0	0.5		
100	Pl2 BPSK	270	0	25.61			26.0	0.5		
100	QPSK	1	1	25.58						
100	QPSK	1	137	25.49			26.5	0.0		
100	QPSK	1	271	25.30						
100	QPSK	135	0	25.06			26.5	0.0		
100	QPSK	135	69	25.07						
100	QPSK	135	138	24.87			25.5	1.0		
100	QPSK	270	0	24.73			25.5	1.0		
100	16QAM	1	1	23.07			24.0	2.5		
100	256QAM	1	1	21.54			22.0	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.47	25.59	25.46	25.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.49	25.54	25.37	26.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	25.42	25.51	25.44	26.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	25.41	25.55	25.39	26.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.42	25.52	25.45	26.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	25.37	25.49	25.39	26.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.40	25.59	25.43	26.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	25.50	25.55	25.41	26.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.39	25.55	25.38	26.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	25.45	25.55	25.37	26.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	25.48	25.50	25.38	26.5	0.0		



Part27Q_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.91						
100	PI2 BPSK	1	137	22.96			24.0	0.0		
100	PI2 BPSK	1	271	22.97						
100	PI2 BPSK	135	0	22.92			24.0	0.0		
100	PI2 BPSK	135	69	22.95			24.0	0.0		
100	PI2 BPSK	135	138	22.99			24.0	0.0		
100	PI2 BPSK	270	0	22.91						
100	QPSK	1	1	23.15						
100	QPSK	1	137	22.93			24.0	0.0		
100	QPSK	1	271	23.06						
100	QPSK	135	0	22.93			24.0	0.0		
100	QPSK	135	69	23.05						
100	QPSK	135	138	22.97			24.0	0.0		
100	QPSK	270	0	22.95			24.0	0.0		
100	16QAM	1	1	22.81			24.0	0.0		
100	64QAM	1	1	22.96			24.0	0.0		
100	256QAM	1	1	21.72			22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3465	3469.98	3504.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	63268	63332	63400				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3466.02	3469.98	3510				
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.99	22.91	22.96	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.96	22.90	22.94	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63168	63332	63500				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3475.02	3469.98	3525				
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.97	22.91	22.90	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	63134	63332	63532				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3470.01	3469.98	3529.98				
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.89	22.88	22.90	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	63084	63332	63582				
Channel										
Frequency (MHz)										
25	QPSK	1	1	3482.51	3488.88	3537.48				
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.95	22.98	22.83	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63068	63332	63600				
Channel										
Frequency (MHz)										
20	QPSK	1	1	3460.02	3469.98	3540				
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.89	22.92	22.82	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	63034	63332	63632				
Channel										
Frequency (MHz)										
10	QPSK	1	1	3455.01	3469.98	3544.98				

Part270_n78_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	23.13						
100	PI2 BPSK	1	137	23.14			24.0	0.0		
100	PI2 BPSK	1	271	23.11						
100	PI2 BPSK	135	0	23.02			24.0	0.0		
100	PI2 BPSK	135	69	23.14			24.0	0.0		
100	PI2 BPSK	135	138	23.13			24.0	0.0		
100	PI2 BPSK	270	0	23.05						
100	QPSK	1	1	23.18						
100	QPSK	1	137	23.08			24.0	0.0		
100	QPSK	1	271	23.04						
100	QPSK	135	0	23.00			24.0	0.0		
100	QPSK	135	69	23.11						
100	QPSK	135	138	23.06			24.0	0.0		
100	QPSK	270	0	23.05			24.0	0.0		
100	16QAM	1	1	22.87			24.0	0.0		
100	64QAM	1	1	22.90			24.0	0.0		
100	256QAM	1	1	21.85			22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	64968	65000	65032				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3742.02	3750	3744.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	64834	65000	65068				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.98				
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.02	23.13	23.11	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.00	23.10	23.06	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64868	65000	65132				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3740.02	3750	3749.98				
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.01	23.09	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	64768	65000	65232				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3720	3750	3760				
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.08	23.05	23.07	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	64790	65000	65200				
Channel										
Frequency (MHz)										
25	QPSK	1	1	3742.5	3750	3747.5				
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.10	23.04	23.04	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	64734	65000	65068				
Channel										
Frequency (MHz)										
20	QPSK	1	1	3710.01	3750	3769.98				
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.03	23.06	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	64752	65000	65152				
Channel										
Frequency (MHz)										
15	QPSK	1	1	3707.52	3750	3762.48				
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.09	23.03	23.03	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	64700	65000	65300				
Channel										
Frequency (MHz)										
10	QPSK	1	1	3705	3750	3765				

Part27Q_n78(HPUe)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	25.75						
100	PI2 BPSK	1	137	25.79			27.0	0.0		
100	PI2 BPSK	1	271	25.82						
100	PI2 BPSK	135	0	25.99			28.5	0.5		
100	PI2 BPSK	135	69	26.03			27.0	0.0		
100	PI2 BPSK	135	138	25.92			28.5	0.5		
100	PI2 BPSK	270	0	25.85						
100	QPSK	1	1	26.10						
100	QPSK	1	137	25.72			27.0	0.0		
100	QPSK	1	271	25.81						
100	QPSK	135	0	25.33			27.0	0.0		
100	QPSK	135	69	25.93						
100	QPSK	135	138	25.41			28.0	1.0		
100	QPSK	270	0	25.94			28.0	1.0		
100	16QAM	1	1	24.81			26.0	1.0		
100	64QAM	1	1	23.92			24.5	2.5		
100	256QAM	1	1	21.82			22.5	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	63000	63332	63668				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3495	3499.98	3534.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	63068	63332	63600				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3490.02	3499.98	3510				
Channel										
Frequency (MHz)										
70	QPSK	1	1	26.01	26.01	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	26.00	26.01	26.03	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.03	26.01	26.09	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	63168	63332	63600				
Channel										
Frequency (MHz)										
60	QPSK	1	1	3475.02	3469.98	3525				
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.01	26.05	26.09	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63134	63332	63532				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3470.01	3469.98	3529.98				
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.04	26.01	26.01	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	63100	63332	63568				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3465	3469.98	3534.98				
Channel										
Frequency (MHz)										
30	QPSK	1	1	26.07	26.03	26.04	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63084	63332	63582				
Channel										
Frequency (MHz)										
25	QPSK	1	1	3482.51	3488.88	3537.48				
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.04	26.04	26.05	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	63068	63332	63600				
Channel										
Frequency (MHz)										
25	QPSK	1	1	3460.02	3469.98	3540				
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.09	26.02	26.02	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63000	63332	63668				
Channel										
Frequency (MHz)										
20	QPSK	1	1	3457.5	3469.98	3542.48				
Channel										
Frequency (MHz)										
15	QPSK	1	1	26.02	26.01	26.04	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	63034	63332	63632				



Part270_n78(HPUe)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	25.82						
100	Pl2 BPSK	1	137	25.83			27.0	0.0		
100	Pl2 BPSK	1	271	25.89						
100	Pl2 BPSK	135	0	26.06			26.5	0.5		
100	Pl2 BPSK	135	69	26.05			27.0	0.0		
100	Pl2 BPSK	135	138	26.02			26.5	0.5		
100	Pl2 BPSK	270	0	25.87						
100	QPSK	1	1	25.97						
100	QPSK	1	137	25.76			27.0	0.0		
100	QPSK	1	271	25.59						
100	QPSK	135	0	25.33			27.0	0.0		
100	QPSK	135	69	25.92						
100	QPSK	135	138	25.39						
100	QPSK	270	0	25.13			26.0	1.0		
100	16QAM	1	1	25.01			26.0	1.0		
100	64QAM	1	1	23.32			24.5	2.5		
100	256QAM	1	1	21.80			22.5	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3742.02	3750	3744.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3749.99				
Channel										
Frequency (MHz)										
70	QPSK	1	1	25.97	25.91	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.02	25.99	25.90	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.97	25.99	26.02	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	25.98	26.01	25.92	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.99	26.02	25.93	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.01	25.98	26.00	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.98	26.02	26.02	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	25.93	25.93	26.06	27.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	26.02	25.92	25.91	27.0	0.0		

Part27Q_n78_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	22.85						
100	Pl2 BPSK	1	137	23.01			24.0	0.0		
100	Pl2 BPSK	1	271	23.06						
100	Pl2 BPSK	135	0	22.95			24.0	0.0		
100	Pl2 BPSK	135	69	22.94			24.0	0.0		
100	Pl2 BPSK	135	138	22.95			24.0	0.0		
100	Pl2 BPSK	270	0	22.88						
100	QPSK	1	1	22.82						
100	QPSK	1	137	22.92			24.0	0.0		
100	QPSK	1	271	22.75						
100	QPSK	135	0	22.80			24.0	0.0		
100	QPSK	135	69	22.92						
100	QPSK	135	138	22.80			24.0	0.0		
100	QPSK	270	0	22.82			24.0	0.0		
100	16QAM	1	1	22.43			24.0	0.0		
100	64QAM	1	1	22.52			24.0	0.0		
100	256QAM	1	1	21.60			22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3465	3469.98	3541.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3466.02	3469.98	3510				
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.08	23.07	23.03	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.02	22.99	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.07	23.09	23.01	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.07	23.01	23.03	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.04	23.02	23.04	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.01	23.02	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.08	23.02	23.06	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.08	23.02	23.03	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.03	23.08	23.06	24.0	0.0		

Part270_n78_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	22.73						
100	Pl2 BPSK	1	137	22.85			24.0	0.0		
100	Pl2 BPSK	1	271	23.01						
100	Pl2 BPSK	135	0	22.83			24.0	0.0		
100	Pl2 BPSK	135	69	22.90			24.0	0.0		
100	Pl2 BPSK	135	138	22.90			24.0	0.0		
100	Pl2 BPSK	270	0	22.87						
100	QPSK	1	1	22.81						
100	QPSK	1	137	22.94			24.0	0.0		
100	QPSK	1	271	22.78						
100	QPSK	135	0	22.87			24.0	0.0		
100	QPSK	135	69	22.97						
100	QPSK	135	138	22.83			24.0	0.0		
100	QPSK	270	0	22.85			24.0	0.0		
100	16QAM	1	1	22.41			24.0	0.0		
100	64QAM	1	1	22.41			24.0	0.0		
100	256QAM	1	1	21.87			22.5	1.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3742.02	3750	3744.98				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3749.99				
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.01	23.09	23.01	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.05	23.03	23.00	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.09	23.01	23.02	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.01	23.06	23.03	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.00	23.03	23.05	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.03	23.01	23.02	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.00	23.04	23.01	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.09	23.02	23.09	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.99	23.07	23.04	24.0	0.0		



Part27Q_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.69					
100	PI2 BPSK	1	137	26.06			27.0	0.0	
100	PI2 BPSK	1	271	26.02					
100	PI2 BPSK	135	9	25.41			26.5	0.5	
100	PI2 BPSK	135	69	26.01			27.0	0.0	
100	PI2 BPSK	135	138	25.50					
100	PI2 BPSK	270	0	25.49			26.5	0.5	
100	QPSK	1	1	25.07					
100	QPSK	1	137	25.99			27.0	0.0	
100	QPSK	1	271	26.10					
100	QPSK	135	9	24.85					
100	QPSK	135	69	26.07			27.0	0.0	
100	QPSK	135	138	25.02					
100	QPSK	270	0	25.04			26.0	1.0	
100	16QAM	1	1	24.74			26.0	1.0	
100	64QAM	1	1	23.33			24.5	2.5	
100	256QAM	1	1	21.71			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.95	24.99 98	25.04 99			MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.05	26.09	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.07	26.11	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.06	26.15	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.09	26.04	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.14	26.16	26.12	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.12	26.08	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.06	26.10	26.17	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.10	26.13	26.14	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.12	26.06	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.07	26.04	26.05	27.0	0.0	

Part27Q_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.71					
100	PI2 BPSK	1	137	26.03			27.0	0.0	
100	PI2 BPSK	1	271	26.11					
100	PI2 BPSK	135	9	25.41			26.5	0.5	
100	PI2 BPSK	135	69	25.96			27.0	0.0	
100	PI2 BPSK	135	138	25.56					
100	PI2 BPSK	270	0	25.51			26.5	0.5	
100	QPSK	1	1	25.11					
100	QPSK	1	137	26.04			27.0	0.0	
100	QPSK	1	271	26.06					
100	QPSK	135	9	24.81					
100	QPSK	135	69	26.08			27.0	0.0	
100	QPSK	135	138	25.07					
100	QPSK	270	0	24.98			26.0	1.0	
100	16QAM	1	1	24.71			26.0	1.0	
100	64QAM	1	1	23.03			24.5	2.5	
100	256QAM	1	1	21.67			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	27.45 92	27.50	27.54 98			MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.88	26.02	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.02	26.09	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.97	26.06	25.99	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.02	26.09	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.01	26.06	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.97	25.97	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.07	26.07	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.01	26.05	26.10	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.99	26.07	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.96	26.01	26.08	27.0	0.0	



n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.31	17.23	17.16			
40	PI2 BPSK	1	168	17.24	17.30	17.13	18.5	0.0	
40	PI2 BPSK	1	214	17.26	17.31	17.17			
40	PI2 BPSK	108	0	17.21	17.27	17.12	18.5	0.0	
40	PI2 BPSK	108	54	17.33	17.25	17.21	18.5	0.0	
40	PI2 BPSK	108	108	17.28	17.30	17.24			
40	PI2 BPSK	216	0	17.30	17.23	17.23	18.5	0.0	
40	QPSK	1	1	17.84	17.48	17.40			
40	QPSK	1	108	17.36	17.38	17.35	18.5	0.0	
40	QPSK	1	214	17.31	17.39	17.39			
40	QPSK	108	0	17.30	17.36	17.33	18.5	0.0	
40	QPSK	108	54	17.32	17.38	17.35	18.5	0.0	
40	QPSK	108	108	17.30	17.32	17.33			
40	QPSK	216	0	17.34	17.35	17.32	18.5	0.0	
40	16QAM	1	1	17.44	17.40	17.37	18.5	0.0	
40	64QAM	1	1	17.36	17.40	17.34	18.5	0.0	
40	256QAM	1	1	17.41	17.35	17.38	18.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.19	17.25	17.23	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.27	17.28	17.24	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.21	17.35	17.27	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.21	17.32	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.27	17.28	17.25	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.21	17.29	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.22	17.23	17.28	18.5	0.0	

Reduced Power Mode for ECIS									
n2_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.75	17.78	17.87			
40	PI2 BPSK	1	168	17.63	17.77	17.68	19.0	0.0	
40	PI2 BPSK	1	214	17.71	17.87	17.73			
40	PI2 BPSK	108	0	17.83	17.85	17.88	19.0	0.0	
40	PI2 BPSK	108	54	17.75	17.74	17.70	19.0	0.0	
40	PI2 BPSK	108	108	17.73	17.89	17.52			
40	PI2 BPSK	216	0	17.58	17.81	17.70	19.0	0.0	
40	QPSK	1	1	17.98	18.03	18.02			
40	QPSK	1	108	17.85	17.82	17.82	19.0	0.0	
40	QPSK	1	214	17.76	17.97	17.83			
40	QPSK	108	0	17.80	17.94	17.92	19.0	0.0	
40	QPSK	108	54	17.85	17.99	17.85	19.0	0.0	
40	QPSK	108	108	17.77	17.96	17.88			
40	QPSK	216	0	17.84	17.80	17.82	19.0	0.0	
40	16QAM	1	1	17.85	17.86	17.86	19.0	0.0	
40	64QAM	1	1	17.88	17.87	17.79	19.0	0.0	
40	256QAM	1	1	17.82	17.83	17.82	19.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.82	17.85	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.77	17.93	17.87	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.80	17.93	17.84	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.74	17.85	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.72	17.92	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.82	17.88	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.83	17.97	17.84	19.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 168800	Power Middle Ch. F Freq. 167800	Power High Ch. F Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.14	21.30	21.17			
20	PI2 BPSK	1	53	21.08	21.23	21.18	22.5	0.0	
20	PI2 BPSK	1	104	21.16	21.24	21.14			
20	PI2 BPSK	50	0	21.03	21.22	21.06	22.5	0.0	
20	PI2 BPSK	50	28	21.13	21.23	21.12	22.5	0.0	
20	PI2 BPSK	50	56	21.07	21.22	21.18			
20	PI2 BPSK	100	0	21.08	21.17	21.07	22.5	0.0	
20	QPSK	1	1	21.50	21.57	21.46			
20	QPSK	1	53	21.36	21.48	21.26	22.5	0.0	
20	QPSK	1	104	21.39	21.48	21.32			
20	QPSK	50	0	21.43	21.39	21.28	22.5	0.0	
20	QPSK	50	28	21.46	21.55	21.44	22.5	0.0	
20	QPSK	50	56	21.42	21.46	21.35			
20	QPSK	100	0	21.42	21.45	21.32	22.5	0.0	
20	16QAM	1	1	21.33	21.50	21.31	22.5	0.0	
20	64QAM	1	1	20.22	20.26	20.17	21.5	1.0	
20	256QAM	1	1	18.82	18.90	18.75	19.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.45	21.47	21.40	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.45	21.49	21.43	22.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.39	21.43	21.32	22.5	0.0	



n5_Ant 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 16600	Power Middle Ch. / Freq. 16700	Power High Ch. / Freq. 16780	MPR (dB)
Channel				834	836.5	839	
Frequency (MHz)							
20	PI2 BPSK	1	1	21.69	21.88	21.91	
20	PI2 BPSK	1	53	21.74	21.92	21.90	23.0
20	PI2 BPSK	1	104	21.63	21.81	21.79	
20	PI2 BPSK	50	0	21.76	21.85	21.88	23.0
20	PI2 BPSK	50	28	21.68	21.79	21.91	23.0
20	PI2 BPSK	50	56	21.64	21.79	21.84	23.0
20	PI2 BPSK	100	0	21.72	21.91	21.81	
20	QPSK	1	1	22.01	22.07	21.99	
20	QPSK	1	53	22.01	21.97	21.85	23.0
20	QPSK	1	104	21.96	22.00	21.85	
20	QPSK	50	0	21.97	22.01	21.94	23.0
20	QPSK	50	28	22.01	22.08	21.95	23.0
20	QPSK	50	56	21.78	21.93	21.74	23.0
20	QPSK	100	0	21.87	21.98	21.88	
20	16QAM	1	1	21.62	21.75	21.53	23.0
20	64QAM	1	1	20.06	20.12	20.03	21.5
20	256QAM	1	1	18.67	18.76	18.72	19.5
Channel				16630	16700	16800	
Frequency (MHz)							
15	QPSK	1	1	831.5	836.5	841.5	MPR (dB)
Channel				16580	16700	16800	
Frequency (MHz)							
10	QPSK	1	1	21.91	22.03	21.88	23.0
Channel				16530	16700	16800	
Frequency (MHz)							
5	QPSK	1	1	21.97	21.99	21.90	23.0

n7_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 50500	Power Middle Ch. / Freq. 50700	Power High Ch. / Freq. 50900	MPR (dB)
Channel				2525	2535	2545	
Frequency (MHz)							
50	PI2 BPSK	1	1	20.14	20.33	20.18	
50	PI2 BPSK	1	155	20.20	20.29	20.09	21.0
50	PI2 BPSK	1	298	20.20	20.29	20.22	
50	PI2 BPSK	135	0	20.26	20.31	20.10	21.0
50	PI2 BPSK	135	68	20.15	20.30	20.08	21.0
50	PI2 BPSK	135	135	20.24	20.23	20.10	21.0
50	PI2 BPSK	270	0	20.27	20.23	20.20	
50	QPSK	1	1	20.20	20.37	20.30	
50	QPSK	1	135	20.25	20.21	20.12	21.0
50	QPSK	1	268	20.15	20.28	20.19	
50	QPSK	135	0	20.15	20.33	20.21	21.0
50	QPSK	135	68	20.14	20.31	20.19	21.0
50	QPSK	135	135	20.16	20.26	20.18	21.0
50	QPSK	270	0	20.24	20.26	20.12	21.0
50	16QAM	1	1	20.21	20.28	20.11	21.0
50	64QAM	1	1	20.16	20.33	20.21	21.0
50	256QAM	1	1	18.92	19.04	19.01	19.5
Channel				50500	50700	50900	
Frequency (MHz)							
40	QPSK	1	1	20.09	20.26	20.13	21.0
Channel				50350	50700	50900	
Frequency (MHz)							
35	QPSK	1	1	20.15	20.32	20.12	21.0
Channel				50300	50700	51000	
Frequency (MHz)							
30	QPSK	1	1	20.14	20.32	20.16	21.0
Channel				50250	50700	51000	
Frequency (MHz)							
25	QPSK	1	1	20.03	20.32	20.14	21.0
Channel				50200	50700	51200	
Frequency (MHz)							
20	QPSK	1	1	20.10	20.30	20.09	21.0
Channel				50150	50700	51200	
Frequency (MHz)							
15	QPSK	1	1	20.11	20.31	20.14	21.0
Channel				50100	50700	51300	
Frequency (MHz)							
10	QPSK	1	1	20.04	20.27	20.20	21.0
Channel				50050	50700	51500	
Frequency (MHz)							
5	QPSK	1	1	20.15	20.30	20.17	21.0

n12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141500	Power Middle Ch. / Freq. 141600	Power High Ch. / Freq. 141700	MPR (dB)
Channel				705.5	707.5	708.5	
Frequency (MHz)							
15	PI2 BPSK	1	1	22.86	22.88	22.75	
15	PI2 BPSK	1	40	22.81	22.94	22.83	24.0
15	PI2 BPSK	1	77	22.75	22.81	22.74	
15	PI2 BPSK	36	0	22.39	22.54	22.50	23.5
15	PI2 BPSK	36	22	22.63	22.91	22.84	24.0
15	PI2 BPSK	36	43	22.47	22.51	22.47	
15	PI2 BPSK	75	0	22.41	22.52	22.38	23.5
15	QPSK	1	1	22.95	23.03	22.99	
15	QPSK	1	40	22.89	22.96	22.82	24.0
15	QPSK	1	77	22.85	22.92	22.91	
15	QPSK	36	0	21.93	21.97	21.89	23.0
15	QPSK	36	22	22.16	22.87	22.84	24.0
15	QPSK	36	43	21.94	21.96	21.91	23.0
15	QPSK	75	0	21.99	21.92	21.88	23.0
15	16QAM	1	1	21.61	21.76	21.66	23.0
15	64QAM	1	1	20.17	20.23	20.15	21.5
15	256QAM	1	1	18.82	18.84	18.70	19.5
Channel				14050	14100	14250	
Frequency (MHz)							
10	QPSK	1	1	22.93	22.96	22.90	24.0
Channel				14000	14100	14200	
Frequency (MHz)							
5	QPSK	1	1	22.85	23.01	22.85	24.0



n12_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141500	Power Middle Ch. / Freq. 141500	Power High Ch. / Freq. 141700	Tune-up limit (dBm)	MPR (dB)	
Channel				706.5	707.5	706.5			
Frequency (MHz)									
15	PI2 BPSK	1	1	21.69	21.90	21.72	23.0	0.0	
15	PI2 BPSK	1	40	21.73	21.85	21.77			
15	PI2 BPSK	1	77	21.78	21.89	21.77			
15	PI2 BPSK	36	0	21.70	21.92	21.73	23.0	0.0	
15	PI2 BPSK	36	22	21.83	21.82	21.75	23.0	0.0	
15	PI2 BPSK	36	43	21.82	21.81	21.64	23.0	0.0	
15	PI2 BPSK	75	0	21.78	21.81	21.64			
15	QPSK	1	1	21.90	21.95	21.93			
15	QPSK	1	40	21.86	21.90	21.84	23.0	0.0	
15	QPSK	1	77	21.82	21.86	21.83			
15	QPSK	36	0	21.86	21.83	21.80	23.0	0.0	
15	QPSK	36	22	21.92	21.93	21.87	23.0	0.0	
15	QPSK	36	43	21.83	21.92	21.81			
15	QPSK	75	0	21.84	21.89	21.79	23.0	0.0	
15	16QAM	1	1	21.93	21.68	21.96	23.0	0.0	
15	16QAM	1	1	20.12	20.21	19.99	21.5	1.5	
15	256QAM	1	1	18.68	18.84	18.80	19.5	3.5	
Channel				14000	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	23.0	0.0	
Channel				14000	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				707.5	707.5	712.5	23.0	0.0	
5	QPSK	1	1	21.68	21.79	21.79	23.0	0.0	

n14_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158000	Power Middle Ch. / Freq. 158000	Power High Ch. / Freq. 158600	Tune-up limit (dBm)	MPR (dB)	
Channel				703					
Frequency (MHz)									
10	PI2 BPSK	1	1	23.06					
10	PI2 BPSK	1	26	23.10			24.0	0.0	
10	PI2 BPSK	1	50	23.02					
10	PI2 BPSK	25	0	22.72			23.5	0.5	
10	PI2 BPSK	25	14	23.06			24.0	0.0	
10	PI2 BPSK	25	27	22.72			23.5	0.5	
10	PI2 BPSK	50	0	22.68					
10	QPSK	1	1	23.13					
10	QPSK	1	26	23.02			24.0	0.0	
10	QPSK	1	50	23.10					
10	QPSK	25	0	22.19			23.0	1.0	
10	QPSK	25	14	23.06			24.0	0.0	
10	QPSK	25	27	22.14			23.0	1.0	
10	QPSK	50	0	22.06			23.0	1.0	
10	16QAM	1	1	21.82			23.0	1.0	
10	16QAM	1	1	20.37			21.5	2.5	
10	256QAM	1	1	18.99			19.5	4.5	
Channel				158100	158000	158100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				700.5	703	706.5	24.0	0.0	
5	QPSK	1	1	23.07	23.04	23.01	24.0	0.0	

n14_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158000	Power Middle Ch. / Freq. 158000	Power High Ch. / Freq. 158600	Tune-up limit (dBm)	MPR (dB)	
Channel				703					
Frequency (MHz)									
10	PI2 BPSK	1	1	23.84					
10	PI2 BPSK	1	26	23.81			23.0	0.0	
10	PI2 BPSK	1	50	23.78					
10	PI2 BPSK	25	0	23.79			23.0	0.0	
10	PI2 BPSK	25	14	23.73			23.0	0.0	
10	PI2 BPSK	25	27	23.76			23.0	0.0	
10	PI2 BPSK	50	0	23.70					
10	QPSK	1	1	23.96					
10	QPSK	1	26	23.82			23.0	0.0	
10	QPSK	1	50	23.86					
10	QPSK	25	0	23.91			23.0	0.0	
10	QPSK	25	14	23.92			23.0	0.0	
10	QPSK	25	27	23.86			23.0	0.0	
10	QPSK	50	0	23.80			23.0	0.0	
10	16QAM	1	1	23.93			23.0	0.0	
10	16QAM	1	1	20.16			21.5	1.5	
10	256QAM	1	1	18.69			19.5	3.5	
Channel				158100	158000	158100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				700.5	703	706.5	23.0	0.0	
5	QPSK	1	1	21.88	21.81	21.86	23.0	0.0	

n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 374500	Power High Ch. Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.23	17.32	17.27			
40	PI2 BPSK	1	108	17.22	17.44	17.25	18.5	0.0	
40	PI2 BPSK	1	214	17.19	17.42	17.30			
40	PI2 BPSK	108	0	17.32	17.35	17.32	18.5	0.0	
40	PI2 BPSK	108	54	17.23	17.44	17.32	18.5	0.0	
40	PI2 BPSK	108	108	17.31	17.40	17.36			
40	PI2 BPSK	216	0	17.32	17.43	17.22	18.5	0.0	
40	QPSK	1	1	17.30	17.57	17.52			
40	QPSK	1	108	17.40	17.54	17.49	18.5	0.0	
40	QPSK	1	214	17.46	17.41	17.40			
40	QPSK	108	0	17.41	17.47	17.38	18.5	0.0	
40	QPSK	108	54	17.43	17.49	17.42	18.5	0.0	
40	QPSK	108	108	17.41	17.48	17.38			
40	QPSK	216	0	17.40	17.51	17.45	18.5	0.0	
40	16QAM	1	1	17.48	17.42	17.41	18.5	0.0	
40	64QAM	1	1	17.48	17.46	17.45	18.5	0.0	
40	256QAM	1	1	17.38	17.55	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.38	17.47	17.37	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.46	17.50	17.49	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.36	17.43	17.48	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.42	17.47	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.38	17.47	17.42	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.45	17.42	17.39	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.42	17.55	17.50	18.5	0.0	

n25_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 374500	Power High Ch. Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.85	17.99	17.91			
40	PI2 BPSK	1	108	17.91	18.00	18.04	19.0	0.0	
40	PI2 BPSK	1	214	17.91	18.05	17.93			
40	PI2 BPSK	108	0	17.98	18.04	17.93	19.0	0.0	
40	PI2 BPSK	108	54	17.90	18.01	18.02	19.0	0.0	
40	PI2 BPSK	108	108	17.96	17.96	17.90			
40	PI2 BPSK	216	0	17.96	17.96	17.91	19.0	0.0	
40	QPSK	1	1	18.13	18.15	18.14			
40	QPSK	1	108	18.03	18.14	18.06	19.0	0.0	
40	QPSK	1	214	18.09	18.11	18.12			
40	QPSK	108	0	18.09	18.10	18.03	19.0	0.0	
40	QPSK	108	54	18.10	18.14	18.12	19.0	0.0	
40	QPSK	108	108	18.02	18.13	18.07			
40	QPSK	216	0	18.02	18.12	18.11	19.0	0.0	
40	16QAM	1	1	18.12	18.09	18.08	19.0	0.0	
40	64QAM	1	1	18.12	18.10	18.06	19.0	0.0	
40	256QAM	1	1	18.04	18.08	18.07	19.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.00	18.09	18.00	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.03	18.03	18.09	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.01	18.11	18.11	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.02	18.08	18.01	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.04	18.11	18.02	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.09	18.10	18.02	19.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.13	18.04	17.99	19.0	0.0	

n26(FCC)_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 164800	Power Middle Ch. Freq. 165300	Power High Ch. Freq. 165800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.48	21.52	21.47			
20	PI2 BPSK	1	53	21.49	21.50	21.46	22.5	0.0	
20	PI2 BPSK	1	104	21.43	21.52	21.42			
20	PI2 BPSK	50	0	21.47	21.45	21.47	22.5	0.0	
20	PI2 BPSK	50	28	21.39	21.55	21.50	22.5	0.0	
20	PI2 BPSK	50	56	21.45	21.51	21.52			
20	PI2 BPSK	100	0	21.39	21.55	21.46	22.5	0.0	
20	QPSK	1	1	21.61	21.76	21.66			
20	QPSK	1	53	21.55	21.58	21.58	22.5	0.0	
20	QPSK	1	104	21.52	21.64	21.61			
20	QPSK	50	0	21.58	21.71	21.57	22.5	0.0	
20	QPSK	50	28	21.59	21.71	21.63	22.5	0.0	
20	QPSK	50	56	21.52	21.57	21.59			
20	QPSK	100	0	21.49	21.70	21.59	22.5	0.0	
20	16QAM	1	1	21.62	21.71	21.69	22.5	0.0	
20	64QAM	1	1	20.27	20.19	20.07	21.5	1.0	
20	256QAM	1	1	18.66	18.80	18.73	19.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.59	21.64	21.62	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.49	21.74	21.62	22.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.50	21.75	21.61	22.5	0.0	



n26(FCC)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /Freq. 164800	Power Middle Ch. /Freq. 166300	Power High Ch. /Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				624	631.5	639			
Frequency (MHz)				21.81	21.69	21.64			
20	PI2 BPSK	1	1	21.81	21.69	21.64	23.0	0.0	
20	PI2 BPSK	1	53	21.70	21.83	21.68			
20	PI2 BPSK	1	104	21.76	21.80	21.62			
20	PI2 BPSK	50	0	21.69	21.83	21.69	23.0	0.0	
20	PI2 BPSK	50	28	21.78	21.80	21.68	23.0	0.0	
20	PI2 BPSK	50	56	21.67	21.76	21.68	23.0	0.0	
20	PI2 BPSK	100	0	21.77	21.79	21.60	23.0	0.0	
20	QPSK	1	1	22.11	22.13	22.02			
20	QPSK	1	53	22.10	22.04	22.01	23.0	0.0	
20	QPSK	1	104	21.97	22.11	21.96			
20	QPSK	50	0	22.00	22.01	21.92	23.0	0.0	
20	QPSK	50	28	22.02	22.04	21.95	23.0	0.0	
20	QPSK	50	56	21.84	21.96	21.75	23.0	0.0	
20	QPSK	100	0	21.94	21.96	21.92	23.0	0.0	
20	16QAM	1	1	21.64	21.66	21.75	23.0	0.0	
20	64QAM	1	1	20.28	20.33	20.28	21.5	1.5	
20	256QAM	1	1	18.88	18.87	18.81	19.5	3.5	
Channel				163300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	22.10	21.99	21.93	23.0	0.0	
Channel				163800	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				811	831.5	841			
10	QPSK	1	1	21.97	21.98	21.98	23.0	0.0	
Channel				163300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.08	21.98	21.92	23.0	0.0	

n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /Freq. 481500	Power Middle Ch. /Freq. 482000	Power High Ch. /Freq. 482500	Tune-up limit (dBm)	MPR (dB)	
Channel				2310					
Frequency (MHz)				19.23					
10	PI2 BPSK	1	1	19.23			20.0	0.0	
10	PI2 BPSK	1	26	19.19					
10	PI2 BPSK	1	50	19.28					
10	PI2 BPSK	25	0	19.20			20.0	0.0	
10	PI2 BPSK	25	14	19.27			20.0	0.0	
10	PI2 BPSK	25	27	19.21			20.0	0.0	
10	PI2 BPSK	50	0	19.32			20.0	0.0	
10	QPSK	1	1	19.39					
10	QPSK	1	26	19.32			20.0	0.0	
10	QPSK	1	50	19.29					
10	QPSK	25	0	19.37			20.0	0.0	
10	QPSK	25	14	19.34			20.0	0.0	
10	QPSK	25	27	19.33			20.0	0.0	
10	QPSK	50	0	19.35			20.0	0.0	
10	16QAM	1	1	19.34			20.0	0.0	
10	64QAM	1	1	19.37			20.0	0.0	
10	256QAM	1	1	19.12			19.5	0.5	
Channel				481500	482000	482500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	19.26	19.30	19.25	20.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. /Freq. 345000	Power Middle Ch. /Freq. 345500	Power High Ch. /Freq. 346000	Tune-up limit (dBm)	MPR (dB)	
Channel				1752.5	1745	1757.5			
Frequency (MHz)				17.79	17.82	17.81			
45	PI2 BPSK	1	1	17.79	17.82	17.81	19.0	0.0	
45	PI2 BPSK	1	100	17.86	17.83	17.78			
45	PI2 BPSK	1	240	17.92	17.91	17.75			
45	PI2 BPSK	120	0	17.90	17.83	17.85	19.0	0.0	
45	PI2 BPSK	120	60	17.91	17.84	17.82	19.0	0.0	
45	PI2 BPSK	120	180	17.86	17.89	17.75	19.0	0.0	
45	PI2 BPSK	240	0	17.81	17.82	17.84	19.0	0.0	
45	QPSK	1	1	18.10	18.15	18.00			
45	QPSK	1	120	18.06	18.13	17.90	19.0	0.0	
45	QPSK	1	240	18.00	18.13	17.96			
45	QPSK	120	0	18.01	18.06	17.91	19.0	0.0	
45	QPSK	120	60	18.06	18.07	17.93	19.0	0.0	
45	QPSK	120	120	18.05	17.97	17.97	19.0	0.0	
45	QPSK	240	0	18.00	18.05	17.99	19.0	0.0	
45	16QAM	1	1	18.08	18.04	17.83	19.0	0.0	
45	64QAM	1	1	18.09	18.10	17.88	19.0	0.0	
45	256QAM	1	1	18.03	18.03	17.87	19.0	0.0	
Channel				345000	345500	346000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.50	1745	1760			
40	QPSK	1	1	17.91	17.83	17.83	19.0	0.0	
Channel				345500	346000	346500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.50	1745	1762.5			
35	QPSK	1	1	18.05	18.02	17.88	19.0	0.0	
Channel				345000	346000	346000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.25	1745	1765			
30	QPSK	1	1	17.94	18.00	17.85	19.0	0.0	
Channel				345500	345500	345500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.22.5	1745	1767.5			
25	QPSK	1	1	17.96	18.05	17.97	19.0	0.0	
Channel				344000	345000	346000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.20	1745	1770			
20	QPSK	1	1	17.97	17.93	17.90	19.0	0.0	
Channel				344500	346000	346500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.17.5	1745	1772.5			
15	QPSK	1	1	17.54	18.08	17.53	19.0	0.0	
Channel				343000	345000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.15	1745	1775			
10	QPSK	1	1	17.95	17.96	17.88	19.0	0.0	
Channel				343500	345000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				17.12.5	1745	1777.5			
5	QPSK	1	1	18.01	17.95	17.90	19.0	0.0	



n66_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 345000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 353000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	18.96	18.94	18.91			
45	PI2 BPSK	1	120	18.94	18.96	18.99	20.0	0.0	
45	PI2 BPSK	1	240	19.03	19.01	18.99			
45	PI2 BPSK	120	0	18.92	18.93	19.02	20.0	0.0	
45	PI2 BPSK	120	60	19.00	18.93	19.00	20.0	0.0	
45	PI2 BPSK	120	120	19.04	19.07	18.96			
45	PI2 BPSK	240	0	18.93	18.95	18.95	20.0	0.0	
45	QPSK	1	1	19.30	19.32	19.27			
45	QPSK	1	120	19.22	19.25	19.20	20.0	0.0	
45	QPSK	1	240	19.21	19.23	19.17			
45	QPSK	120	0	19.20	19.29	19.17	20.0	0.0	
45	QPSK	120	60	19.24	19.30	19.26	20.0	0.0	
45	QPSK	120	120	19.23	19.24	19.20			
45	QPSK	240	0	19.18	19.22	19.17	20.0	0.0	
45	16QAM	1	1	19.27	19.25	19.18	20.0	0.0	
45	64QAM	1	1	19.28	19.24	19.17	20.0	0.0	
45	256QAM	1	1	19.79	19.98	19.84	19.5	0.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.24	19.28	19.21	20.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.20	19.24	19.20	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.24	19.28	19.15	20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.24	19.21	19.26	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.28	19.27	19.14	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.72	17.45	17.23	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.27	19.22	19.12	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.27	19.26	19.14	20.0	0.0	

n70_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 345000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 353000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	17.94					
15	PI2 BPSK	1	40	17.91			19.0	0.0	
15	PI2 BPSK	1	77	17.86					
15	PI2 BPSK	36	0	17.85			19.0	0.0	
15	PI2 BPSK	36	22	17.86			19.0	0.0	
15	PI2 BPSK	36	43	17.90					
15	PI2 BPSK	75	0	17.85			19.0	0.0	
15	QPSK	1	1	18.05					
15	QPSK	1	40	17.92			19.0	0.0	
15	QPSK	1	77	17.95					
15	QPSK	36	0	17.90			19.0	0.0	
15	QPSK	36	22	18.03			19.0	0.0	
15	QPSK	36	43	17.90					
15	QPSK	75	0	17.99			19.0	0.0	
15	16QAM	1	1	17.90			19.0	0.0	
15	64QAM	1	1	17.94			19.0	0.0	
15	256QAM	1	1	18.00			19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.94	17.88	17.99	19.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.91	17.93	17.93	19.0	0.0	

n70_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 345000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 353000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	18.08					
15	PI2 BPSK	1	40	18.95			20.0	0.0	
15	PI2 BPSK	1	77	18.94					
15	PI2 BPSK	36	0	18.05			20.0	0.0	
15	PI2 BPSK	36	22	18.98			20.0	0.0	
15	PI2 BPSK	36	43	19.04					
15	PI2 BPSK	75	0	19.00			20.0	0.0	
15	QPSK	1	1	19.33					
15	QPSK	1	40	19.26			20.0	0.0	
15	QPSK	1	77	19.22					
15	QPSK	36	0	19.24			20.0	0.0	
15	QPSK	36	22	19.25			20.0	0.0	
15	QPSK	36	43	19.19					
15	QPSK	75	0	19.20			20.0	0.0	
15	16QAM	1	1	19.23			20.0	0.0	
15	64QAM	1	1	19.30			20.0	0.0	
15	256QAM	1	1	18.93			19.5	0.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.18	19.24	19.15	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.20	19.22	19.19	20.0	0.0	

n71_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq 136100	Power Middle Ch. F Freq 136100	Power High Ch. F Freq 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	PI2 BPSK	1	1	22.77	22.77	22.77		
35	PI2 BPSK	1	90	22.82	22.82	22.82	24.0	0.0
35	PI2 BPSK	1	186	22.70	22.70	22.70		
35	PI2 BPSK	90	0	22.41	22.41	22.41	23.5	0.5
35	PI2 BPSK	90	45	22.83	22.83	22.83	24.0	0.0
35	PI2 BPSK	90	90	22.41	22.41	22.41	23.5	0.5
35	PI2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.98	22.98	22.98		
35	QPSK	1	90	22.92	22.92	22.92	24.0	0.0
35	QPSK	1	186	22.83	22.83	22.83		
35	QPSK	90	0	21.89	21.89	21.89	23.0	1.0
35	QPSK	90	45	22.87	22.87	22.87	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.86	21.86	21.86	23.0	1.0
35	16QAM	1	1	21.81	21.81	21.81	23.0	1.0
35	16QAM	1	1	20.09	20.09	20.09	21.5	2.5
35	256QAM	1	1	18.69	18.69	18.69	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	693.5	693	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	137100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.77	22.97	22.81	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	137600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.87	22.83	22.91	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	133100	133100	133100	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	670.5	680.5	690.5	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.78	22.84	22.88	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	133600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	680.5	693	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.88	22.81	22.85	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	133100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	662.5	680.5	695.5	24.0	0.0

n71_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq 136100	Power Middle Ch. F Freq 136100	Power High Ch. F Freq 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	PI2 BPSK	1	1	22.87	22.87	22.87		
35	PI2 BPSK	1	90	22.86	22.86	22.86	24.0	0.0
35	PI2 BPSK	1	186	22.81	22.81	22.81		
35	PI2 BPSK	90	0	22.43	22.43	22.43	23.5	0.5
35	PI2 BPSK	90	45	22.94	22.94	22.94	24.0	0.0
35	PI2 BPSK	90	90	22.37	22.37	22.37	23.5	0.5
35	PI2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.99	22.99	22.99		
35	QPSK	1	90	22.89	22.89	22.89	24.0	0.0
35	QPSK	1	186	22.79	22.79	22.79		
35	QPSK	90	0	21.92	21.92	21.92	23.0	1.0
35	QPSK	90	45	22.88	22.88	22.88	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.85	21.85	21.85	23.0	1.0
35	16QAM	1	1	21.82	21.82	21.82	23.0	1.0
35	16QAM	1	1	20.15	20.15	20.15	21.5	2.5
35	256QAM	1	1	18.75	18.75	18.75	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	693.5	693	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	137100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.91	22.96	22.89	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	137600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.90	22.83	22.96	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	133100	133100	133100	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	670.5	680.5	690.5	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.97	22.94	22.86	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	133600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	680.5	693	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.84	22.84	22.89	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	133100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	662.5	680.5	695.5	24.0	0.0



FCC_n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.41	18.49	18.49			
100	PI2 BPSK	1	137	18.49	18.46	18.44	19.5	0.0	
100	PI2 BPSK	1	271	18.46	18.52	18.51			
100	PI2 BPSK	135	9	18.35	18.45	18.42	19.5	0.0	
100	PI2 BPSK	135	69	18.45	18.51	18.38	19.5	0.0	
100	PI2 BPSK	135	138	18.46	18.53	18.37	19.5	0.0	
100	PI2 BPSK	270	0	18.36	18.56	18.49			
100	QPSK	1	1	18.57	18.69	18.53	19.5	0.0	
100	QPSK	1	137	18.61	18.65	18.44	19.5	0.0	
100	QPSK	1	271	18.57	18.60	18.48			
100	QPSK	135	0	18.61	18.62	18.51	19.5	0.0	
100	QPSK	135	69	18.52	18.69	18.53			
100	QPSK	135	138	18.53	18.59	18.42	19.5	0.0	
100	QPSK	270	0	18.52	18.64	18.51	19.5	0.0	
100	16QAM	1	1	18.50	18.61	18.25	19.5	0.0	
100	64QAM	1	1	18.57	18.68	18.49	19.5	0.0	
100	256QAM	1	1	18.58	18.57	18.41	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.60	18.59	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.48	18.55	18.49	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.52	18.61	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.48	18.57	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.52	18.57	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	18.47	18.62	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.59	18.61	18.41	19.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.55	18.63	18.45	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.47	18.63	18.54	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.54	18.51	18.54	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.54	18.62	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.54	18.63	18.49	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.60	18.55	18.52	19.5	0.0	

FCC_n41(HPUE) Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.41	18.49	18.49			
100	PI2 BPSK	1	137	18.49	18.46	18.44	19.5	0.0	
100	PI2 BPSK	1	271	18.46	18.52	18.51			
100	PI2 BPSK	135	9	18.35	18.45	18.42	19.5	0.0	
100	PI2 BPSK	135	69	18.45	18.51	18.38	19.5	0.0	
100	PI2 BPSK	135	138	18.46	18.53	18.37	19.5	0.0	
100	PI2 BPSK	270	0	18.36	18.56	18.49			
100	QPSK	1	1	18.57	18.69	18.53	19.5	0.0	
100	QPSK	1	137	18.61	18.65	18.44	19.5	0.0	
100	QPSK	1	271	18.57	18.60	18.48			
100	QPSK	135	0	18.61	18.62	18.51	19.5	0.0	
100	QPSK	135	69	18.52	18.69	18.53			
100	QPSK	135	138	18.53	18.59	18.42	19.5	0.0	
100	QPSK	270	0	18.52	18.64	18.51	19.5	0.0	
100	16QAM	1	1	18.50	18.61	18.25	19.5	0.0	
100	64QAM	1	1	18.57	18.68	18.49	19.5	0.0	
100	256QAM	1	1	18.58	18.57	18.41	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.60	18.59	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.48	18.55	18.49	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.52	18.61	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.48	18.57	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.52	18.57	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	18.47	18.62	18.48	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.59	18.61	18.41	19.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.55	18.63	18.45	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.47	18.63	18.54	19.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.54	18.51	18.54	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.54	18.62	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.54	18.63	18.49	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.60	18.55	18.52	19.5	0.0	

FCC_n41_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.51	15.57	15.50			
100	PI2 BPSK	1	137	15.51	15.63	15.51	16.5	0.0	
100	PI2 BPSK	1	271	15.48	15.57	15.50			
100	PI2 BPSK	135	9	15.52	15.66	15.53	16.5	0.0	
100	PI2 BPSK	135	69	15.46	15.67	15.48	16.5	0.0	
100	PI2 BPSK	135	138	15.54	15.67	15.49	16.5	0.0	
100	PI2 BPSK	270	0	15.47	15.68	15.50			
100	QPSK	1	1	15.72	15.75	15.71	16.5	0.0	
100	QPSK	1	137	15.59	15.68	15.59	16.5	0.0	
100	QPSK	1	271	15.61	15.64	15.59			
100	QPSK	135	0	15.60	15.63	15.59	16.5	0.0	
100	QPSK	135	69	15.60	15.72	15.67	16.5	0.0	
100	QPSK	135	138	15.61	15.62	15.61	16.5	0.0	
100	QPSK	270	0	15.61	15.66	15.61	16.5	0.0	
100	16QAM	1	1	15.62	15.66	15.57	16.5	0.0	
100	64QAM	1	1	15.63	15.66	15.63	16.5	0.0	
100	256QAM	1	1	15.65	15.73	15.68	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.66	15.65	15.67	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.60	15.61	15.58	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.63	15.74	15.62	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.58	15.73	15.57	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.72	15.72	15.60	16.5	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	15.64	15.72	15.65	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.63	15.65	15.63	16.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	15.64	15.74	15.64	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.70	15.62	15.60	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.69	15.69	15.66	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.70	15.60	15.64	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.63	15.74	15.70	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.64	15.61	15.70	16.5	0.0	



FCC_n41(HPUE)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.51	15.57	15.50			
100	PI2 BPSK	1	137	15.51	15.53	15.51	16.5	0.0	
100	PI2 BPSK	1	271	15.48	15.57	15.40			
100	PI2 BPSK	135	9	15.52	15.66	15.53	16.5	0.0	
100	PI2 BPSK	135	69	15.46	15.67	15.48	16.5	0.0	
100	PI2 BPSK	135	138	15.54	15.67	15.49			
100	PI2 BPSK	270	0	15.47	15.66	15.50	16.5	0.0	
100	QPSK	1	1	15.52	15.72	15.57			
100	QPSK	1	137	15.59	15.68	15.59	16.5	0.0	
100	QPSK	1	271	15.61	15.64	15.59			
100	QPSK	135	0	15.60	15.63	15.59			
100	QPSK	135	69	15.59	15.72	15.57	16.5	0.0	
100	QPSK	135	138	15.61	15.62	15.61			
100	QPSK	270	0	15.61	15.60	15.61	16.5	0.0	
100	16QAM	1	1	15.62	15.66	15.57	16.5	0.0	
100	64QAM	1	1	15.63	15.66	15.63	16.5	0.0	
100	256QAM	1	1	15.65	15.73	15.68	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.60	15.65	15.67	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.60	15.61	15.58	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.63	15.74	15.62	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.58	15.73	15.67	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.64	15.72	15.65	16.5	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	15.64	15.72	15.65	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.63	15.65	15.63	16.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	15.64	15.74	15.64	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.70	15.62	15.60	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.69	15.69	15.66	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.70	15.60	15.64	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.63	15.74	15.70	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.64	15.61	15.70	16.5	0.0	

FCC_n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.11	16.18	16.17			
100	PI2 BPSK	1	137	16.09	16.22	16.16	17.0	0.0	
100	PI2 BPSK	1	271	16.07	16.19	16.13			
100	PI2 BPSK	135	9	16.06	16.22	16.14	17.0	0.0	
100	PI2 BPSK	135	69	16.11	16.24	16.13	17.0	0.0	
100	PI2 BPSK	135	138	16.12	16.20	16.11			
100	PI2 BPSK	270	0	16.10	16.20	16.14	17.0	0.0	
100	QPSK	1	1	16.10	16.38	16.25			
100	QPSK	1	137	16.14	16.18	16.10	17.0	0.0	
100	QPSK	1	271	16.08	16.31	16.19			
100	QPSK	135	0	16.13	16.28	16.08			
100	QPSK	135	69	16.13	16.38	16.17	17.0	0.0	
100	QPSK	135	138	16.16	16.18	16.09			
100	QPSK	270	0	16.13	16.29	16.11	17.0	0.0	
100	16QAM	1	1	16.06	16.29	16.13	17.0	0.0	
100	64QAM	1	1	16.08	16.27	16.05	17.0	0.0	
100	256QAM	1	1	16.16	16.22	16.15	17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.15	16.33	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.16	16.34	16.19	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.23	16.24	16.19	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.25	16.25	16.19	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.26	16.32	16.10	17.0	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	16.16	16.28	16.16	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.27	16.25	16.18	17.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.29	16.30	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.22	16.34	16.20	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.25	16.26	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.20	16.25	16.21	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.22	16.29	16.11	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.24	16.31	16.16	17.0	0.0	

FCC_n41(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.11	16.18	16.17			
100	PI2 BPSK	1	137	16.09	16.22	16.16	17.0	0.0	
100	PI2 BPSK	1	271	16.07	16.19	16.13			
100	PI2 BPSK	135	9	16.06	16.22	16.14	17.0	0.0	
100	PI2 BPSK	135	69	16.11	16.24	16.13	17.0	0.0	
100	PI2 BPSK	135	138	16.12	16.20	16.11			
100	PI2 BPSK	270	0	16.10	16.20	16.14	17.0	0.0	
100	QPSK	1	1	16.10	16.38	16.25			
100	QPSK	1	137	16.14	16.18	16.10	17.0	0.0	
100	QPSK	1	271	16.08	16.31	16.19			
100	QPSK	135	0	16.13	16.28	16.08			
100	QPSK	135	69	16.13	16.38	16.17	17.0	0.0	
100	QPSK	135	138	16.16	16.18	16.09			
100	QPSK	270	0	16.13	16.29	16.11	17.0	0.0	
100	16QAM	1	1	16.06	16.29	16.13	17.0	0.0	
100	64QAM	1	1	16.08	16.27	16.05	17.0	0.0	
100	256QAM	1	1	16.16	16.22	16.15	17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.15	16.33	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.16	16.34	16.19	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.23	16.24	16.19	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.25	16.25	16.19	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.26	16.32	16.10	17.0	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	16.16	16.28	16.16	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.27	16.25	16.18	17.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.29	16.30	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.22	16.34	16.20	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.25	16.26	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.20	16.25	16.21	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.22	16.29	16.11	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.24	16.31	16.16	17.0	0.0	



FCC_n41_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2546.01 2592.99 2640									
100	PI2 BPSK	1	1	14.48	14.53	14.49			
100	PI2 BPSK	1	137	14.53	14.59	14.44	15.5	0.0	
100	PI2 BPSK	1	271	14.52	14.59	14.45			
100	PI2 BPSK	136	0	14.47	14.57	14.50	15.5	0.0	
100	PI2 BPSK	136	69	14.41	14.59	14.42	15.5	0.0	
100	PI2 BPSK	136	138	14.40	14.61	14.55			
100	PI2 BPSK	270	0	14.39	14.53	14.43	15.5	0.0	
100	QPSK	1	1	14.51	14.53	14.52			
100	QPSK	1	137	14.39	14.62	14.57	15.5	0.0	
100	QPSK	1	271	14.41	14.55	14.60			
100	QPSK	136	0	14.49	14.52	14.56	15.5	0.0	
100	QPSK	136	69	14.41	14.60	14.51	15.5	0.0	
100	QPSK	136	138	14.40	14.61	14.51			
100	QPSK	270	0	14.49	14.61	14.51	15.5	0.0	
100	16QAM	1	1	14.38	14.51	14.49	15.5	0.0	
100	16QAM	1	1	14.41	14.61	14.55	15.5	0.0	
100	256QAM	1	1	14.48	14.53	14.51	15.5	0.0	
Channel									
Frequency (MHz)									
5020.02 518998 535998									
80	QPSK	1	1	14.46	14.57	14.50	15.5	0.0	
Channel									
Frequency (MHz)									
50720.4 518998 529998									
80	QPSK	1	1	14.57	14.53	14.49	15.5	0.0	
Channel									
Frequency (MHz)									
2531.01 2592.99 2655									
70	QPSK	1	1	14.53	14.54	14.61	15.5	0.0	
Channel									
Frequency (MHz)									
505200 518998 531998									
60	QPSK	1	1	14.54	14.51	14.56	15.5	0.0	
Channel									
Frequency (MHz)									
50420.4 518998 535998									
50	QPSK	1	1	14.59	14.57	14.56	15.5	0.0	
Channel									
Frequency (MHz)									
502700 518998 533498									
45	QPSK	1	1	14.59	14.50	14.59	15.5	0.0	
Channel									
Frequency (MHz)									
5020.02 518998 535000									
40	QPSK	1	1	14.47	14.58	14.60	15.5	0.0	
Channel									
Frequency (MHz)									
50270.4 518998 534498									
35	QPSK	1	1	14.57	14.48	14.51	15.5	0.0	
Channel									
Frequency (MHz)									
502200 518998 534998									
30	QPSK	1	1	14.49	14.50	14.58	15.5	0.0	
Channel									
Frequency (MHz)									
2508.01 2592.99 2652.48									
25	QPSK	1	1	14.53	14.54	14.55	15.5	0.0	
Channel									
Frequency (MHz)									
50120.4 518998 535998									
20	QPSK	1	1	14.57	14.60	14.49	15.5	0.0	
Channel									
Frequency (MHz)									
500700 518998 536498									
15	QPSK	1	1	14.47	14.59	14.59	15.5	0.0	
Channel									
Frequency (MHz)									
50020.2 518998 537000									
10	QPSK	1	1	14.53	14.52	14.61	15.5	0.0	

FCC_n41(HPUe)_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2546.01 2592.99 2640									
100	PI2 BPSK	1	1	14.48	14.53	14.49			
100	PI2 BPSK	1	137	14.53	14.59	14.44	15.5	0.0	
100	PI2 BPSK	1	271	14.52	14.59	14.45			
100	PI2 BPSK	136	0	14.47	14.57	14.50	15.5	0.0	
100	PI2 BPSK	136	69	14.41	14.59	14.42	15.5	0.0	
100	PI2 BPSK	136	138	14.40	14.61	14.55			
100	PI2 BPSK	270	0	14.39	14.53	14.43	15.5	0.0	
100	QPSK	1	1	14.51	14.53	14.52			
100	QPSK	1	137	14.39	14.62	14.57	15.5	0.0	
100	QPSK	1	271	14.41	14.55	14.60			
100	QPSK	136	0	14.49	14.52	14.56	15.5	0.0	
100	QPSK	136	69	14.41	14.60	14.51	15.5	0.0	
100	QPSK	136	138	14.40	14.61	14.51			
100	QPSK	270	0	14.49	14.61	14.51	15.5	0.0	
100	16QAM	1	1	14.38	14.51	14.49	15.5	0.0	
100	16QAM	1	1	14.41	14.61	14.55	15.5	0.0	
100	256QAM	1	1	14.48	14.53	14.51	15.5	0.0	
Channel									
Frequency (MHz)									
508200 518998 528998									
80	QPSK	1	1	14.46	14.57	14.50	15.5	0.0	
Channel									
Frequency (MHz)									
50720.4 518998 529998									
80	QPSK	1	1	14.57	14.53	14.49	15.5	0.0	
Channel									
Frequency (MHz)									
2531.01 2592.99 2655									
70	QPSK	1	1	14.53	14.54	14.61	15.5	0.0	
Channel									
Frequency (MHz)									
505200 518998 531998									
60	QPSK	1	1	14.54	14.51	14.56	15.5	0.0	
Channel									
Frequency (MHz)									
50420.4 518998 535998									
50	QPSK	1	1	14.59	14.57	14.56	15.5	0.0	
Channel									
Frequency (MHz)									
502700 518998 533498									
45	QPSK	1	1	14.59	14.50	14.59	15.5	0.0	
Channel									
Frequency (MHz)									
5020.02 518998 535000									
40	QPSK	1	1	14.47	14.58	14.60	15.5	0.0	
Channel									
Frequency (MHz)									
50270.4 518998 534498									
35	QPSK	1	1	14.57	14.48	14.51	15.5	0.0	
Channel									
Frequency (MHz)									
502200 518998 534998									
30	QPSK	1	1	14.49	14.50	14.58	15.5	0.0	
Channel									
Frequency (MHz)									
2508.01 2592.99 2652.48									
25	QPSK	1	1	14.53	14.54	14.55	15.5	0.0	
Channel									
Frequency (MHz)									
50120.4 518998 535998									
20	QPSK	1	1	14.57	14.60	14.49	15.5	0.0	
Channel									
Frequency (MHz)									
500700 518998 536498									
15	QPSK	1	1	14.47	14.59	14.59	15.5	0.0	
Channel									
Frequency (MHz)									
50020.2 518998 537000									
10	QPSK	1	1	14.53	14.52	14.61	15.5	0.0	

n48_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
646000 641666 643332									
100	PI2 BPSK	1	1	14.06	14.24	14.08			
100	PI2 BPSK	1	137	14.19	14.30	14.09	15.5	0.0	
100	PI2 BPSK	1	271	14.19	14.29	14.18			
100	PI2 BPSK	136	0	14.10	14.30	14.05	15.5	0.0	
100	PI2 BPSK	136	69	14.06	14.28	14.10	15.5	0.0	
100	PI2 BPSK	136	138	14.16	14.21	14.06			
100	PI2 BPSK	270	0	14.12	14.32	14.11	15.5	0.0	
100	QPSK	1	1	14.35	14.33	14.34			
100	QPSK	1	137	14.34	14.29	14.32	15.5	0.0	
100	QPSK	1	271	14.33	14.33	14.21			
100	QPSK	136	0	14.27	14.35	14.21	15.5	0.0	
100	QPSK	136	69	14.32	14.37	14.25	15.5	0.0	
100	QPSK	136	138	14.20	14.29	14.25			
100	QPSK	270	0	14.27	14.30	14.30	15.5	0.0	
100	16QAM	1	1	14.21	14.30	14.29	15.5	0.0	
100	16QAM	1	1	14.26	14.38	14.32	15.5	0.0	
100	256QAM	1	1	14.22	14.27	14.31	15.5	0.0	
Channel									
Frequency (MHz)									
636666 641666 643666									
90	QPSK	1	1	14.22	14.32	14.19	15.5	0.0	
Channel									
Frequency (MHz)									
63533.4 641666 645000									
80	QPSK	1	1	14.27	14.38	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
3366 3524.99 3564.98									
70	QPSK	1	1	14.35	14.32	14.33	15.5	0.0	
Channel									
Frequency (MHz)									
636666 641666 644666									
60	QPSK	1	1	14.23	14.35	14.32	15.5	0.0	
Channel									
Frequency (MHz)									
63633.4 641666 645000									
50	QPSK	1	1	14.24	14.24	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
63700 3524.99 3564.98									
40	QPSK	1	1	14.27	14.35	14.19	15.5	0.0	
Channel									
Frequency (MHz)									
637666 641666 645666									
30	QPSK	1	1	14.24	14.35	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
63733.4 641666 645000									
20	QPSK	1	1	14.32	14.38	14.33	15.5	0.0	
Channel									
Frequency (MHz)									
637166 641666 645166									
15	QPSK	1	1	14.21	14.27	14.30	15.5	0.0	
Channel									
Frequency (MHz)									
3555.52 3524.99 3564.98									
10	QPSK	1	1	14.33	14.30	14.25	15.5	0.0	



Part27Q_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	13.99						
100	PI2 BPSK	1	137	13.94			15.5	0.0		
100	PI2 BPSK	1	271	13.98						
100	PI2 BPSK	135	9	13.81			15.5	0.0		
100	PI2 BPSK	135	69	14.05						
100	PI2 BPSK	135	138	13.82			15.5	0.0		
100	PI2 BPSK	270	0	14.02						
100	QPSK	1	1	14.16						
100	QPSK	1	137	14.05			15.5	0.0		
100	QPSK	1	271	14.06						
100	QPSK	135	9	14.03			15.5	0.0		
100	QPSK	135	69	14.13						
100	QPSK	135	138	14.06			15.5	0.0		
100	QPSK	270	0	14.09						
100	16QAM	1	1	14.14			15.5	0.0		
100	64QAM	1	1	14.08			15.5	0.0		
100	256QAM	1	1	13.98			15.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.03	14.03	14.02	15.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.04	14.03	14.04	15.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.04	14.02	14.08	15.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.05	14.08	14.08	15.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.01	14.11	14.15	15.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.13	14.13	14.15	15.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.03	14.03	14.10	15.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	14.02	14.10	14.01	15.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.12	14.05	14.03	15.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.07	14.07	14.09	15.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.09	14.04	14.07	15.5	0.0		

Part27Q_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	13.95	13.97	13.85				
100	PI2 BPSK	1	137	13.89	13.89	13.83	15.5	0.0		
100	PI2 BPSK	1	271	13.97	13.96	13.90				
100	PI2 BPSK	135	9	13.72	13.77	13.67	15.5	0.0		
100	PI2 BPSK	135	69	14.00	13.90	13.95	15.5	0.0		
100	PI2 BPSK	135	138	13.78	13.77	13.75	15.5	0.0		
100	PI2 BPSK	270	0	13.85	13.81	13.90				
100	QPSK	1	1	13.10	14.15	14.05				
100	QPSK	1	137	13.84	13.99	13.91	15.5	0.0		
100	QPSK	1	271	13.96	13.99	13.84				
100	QPSK	135	9	13.84	13.89	14.01	15.5	0.0		
100	QPSK	135	69	14.07	14.10	14.05				
100	QPSK	135	138	14.02	13.95	13.98	15.5	0.0		
100	QPSK	270	0	13.98	14.05	14.01	15.5	0.0		
100	16QAM	1	1	14.10	14.10	14.01	15.5	0.0		
100	64QAM	1	1	13.97	14.03	13.94	15.5	0.0		
100	256QAM	1	1	13.89	13.92	13.84	15.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.01	14.07	13.99	15.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.01	14.10	14.07	15.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.04	13.99	13.98	15.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.00	14.05	14.00	15.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.05	14.08	13.93	15.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.02	14.11	14.03	15.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	14.02	14.00	14.01	15.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.07	14.03	14.01	15.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.02	14.11	13.93	15.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.96	14.03	14.00	15.5	0.0		

Part27Q_n77(HPUE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	13.99						
100	PI2 BPSK	1	137	13.94			15.5	0.0		
100	PI2 BPSK	1	271	13.98						
100	PI2 BPSK	135	9	13.81			15.5	0.0		
100	PI2 BPSK	135	69	14.05						
100	PI2 BPSK	135	138	13.82			15.5	0.0		
100	PI2 BPSK	270	0	14.02						
100	QPSK	1	1	14.16						
100	QPSK	1	137	14.05			15.5	0.0		
100	QPSK	1	271	14.06						
100	QPSK	135	9	14.03			15.5	0.0		
100	QPSK	135	69	14.13						
100	QPSK	135	138	14.06			15.5	0.0		
100	QPSK	270	0	14.09						
100	16QAM	1	1	14.14			15.5	0.0		
100	64QAM	1	1	14.08			15.5	0.0		
100	256QAM	1	1	13.98			15.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.03	14.03	14.02	15.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.04	14.03	14.04	15.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.04	14.02	14.08	15.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.05	14.08	14.08	15.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.01	14.11	14.15	15.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.13	14.13	14.15	15.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.03	14.03	14.10	15.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	14.02	14.10	14.01	15.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.12	14.05	14.03	15.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.07	14.07	14.09	15.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.09	14.04	14.07	15.5	0.0		



Part270_n77(HPUJE)_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3760										
100	PI2 BPSK	1	1	13.95	13.97	13.85				
100	PI2 BPSK	1	137	13.89	13.89	13.83	15.5	0.0		
100	PI2 BPSK	1	271	13.97	13.96	13.90				
100	PI2 BPSK	136	0	13.72	13.77	13.67	15.5	0.0		
100	PI2 BPSK	136	69	14.00	13.90	13.95	15.5	0.0		
100	PI2 BPSK	136	138	13.78	13.77	13.75				
100	PI2 BPSK	270	0	13.85	13.90	13.96	15.5	0.0		
100	QPSK	1	1	13.93	14.14	13.93				
100	QPSK	1	137	13.84	13.99	13.91	15.5	0.0		
100	QPSK	1	271	13.96	13.99	13.94				
100	QPSK	136	0	13.94	13.89	14.01				
100	QPSK	136	69	13.97	14.10	14.05	15.5	0.0		
100	QPSK	136	138	14.02	13.95	13.98				
100	QPSK	270	0	13.96	14.05	14.01	15.5	0.0		
100	16QAM	1	1	14.10	14.10	14.01	15.5	0.0		
100	64QAM	1	1	13.97	14.03	13.94	15.5	0.0		
100	256QAM	1	1	13.89	13.92	13.84	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	14.01	14.07	13.98	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	13.98	14.05	13.93	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
70	QPSK	1	1	14.01	14.10	14.07	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
60	QPSK	1	1	14.04	13.99	13.98	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
50	QPSK	1	1	14.00	14.05	14.00	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
40	QPSK	1	1	14.05	14.08	13.93	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
30	QPSK	1	1	14.02	14.11	14.03	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
25	QPSK	1	1	14.02	14.06	14.01	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
20	QPSK	1	1	14.07	14.08	14.01	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
15	QPSK	1	1	14.02	14.11	13.93	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
10	QPSK	1	1	13.98	14.03	14.00	15.5	0.0		

Part27Q_n77_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3499.98										
100	PI2 BPSK	1	1		22.72					
100	PI2 BPSK	1	137		22.69		24.0	0.0		
100	PI2 BPSK	1	271		22.77					
100	PI2 BPSK	136	0		22.67		24.0	0.0		
100	PI2 BPSK	136	69		22.71		24.0	0.0		
100	PI2 BPSK	136	138		22.77					
100	PI2 BPSK	270	0		22.69		24.0	0.0		
100	QPSK	1	1		22.79					
100	QPSK	1	137		22.74		24.0	0.0		
100	QPSK	1	271		22.77					
100	QPSK	136	0		22.69					
100	QPSK	136	69		22.72		24.0	0.0		
100	QPSK	136	138		22.70					
100	QPSK	270	0		22.70		24.0	0.0		
100	16QAM	1	1		22.48		24.0	0.0		
100	64QAM	1	1		22.48		24.0	0.0		
100	256QAM	1	1		21.65		22.5	1.5		
Channel										
Frequency (MHz)										
63000										
80	QPSK	1	1	22.72	22.68	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
80	QPSK	1	1	22.73	22.69	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
70	QPSK	1	1	22.71	22.76	22.66	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
60	QPSK	1	1	22.72	22.65	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
50	QPSK	1	1	22.69	22.74	22.76	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
40	QPSK	1	1	22.75	22.64	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
30	QPSK	1	1	22.68	22.72	22.70	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
25	QPSK	1	1	22.76	22.67	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
20	QPSK	1	1	22.75	22.74	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
15	QPSK	1	1	22.68	22.74	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
63000										
10	QPSK	1	1	22.77	22.71	22.67	24.0	0.0		

Part270_n77_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3750										
100	PI2 BPSK	1	1	22.68	22.76	22.74				
100	PI2 BPSK	1	137	22.73	22.75	22.79	24.0	0.0		
100	PI2 BPSK	1	271	22.68	22.74	22.68				
100	PI2 BPSK	136	0	22.70	22.79	22.72	24.0	0.0		
100	PI2 BPSK	136	69	22.73	22.71	22.75	24.0	0.0		
100	PI2 BPSK	136	138	22.75	22.69	22.73				
100	PI2 BPSK	270	0	22.80	22.68	22.69	24.0	0.0		
100	QPSK	1	1	22.76	22.83	22.76				
100	QPSK	1	137	22.70	22.74	22.73	24.0	0.0		
100	QPSK	1	271	22.67	22.75	22.69				
100	QPSK	136	0	22.67	22.78	22.67				
100	QPSK	136	69	22.76	22.60	22.71	24.0	0.0		
100	QPSK	136	138	22.72	22.70	22.67				
100	QPSK	270	0	22.69	22.70	22.69	24.0	0.0		
100	16QAM	1	1	22.38	22.48	22.49	24.0	0.0		
100	64QAM	1	1	22.46	22.44	22.42	24.0	0.0		
100	256QAM	1	1	21.98	21.91	21.97	22.5	1.5		
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	22.71	22.75	22.69	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	22.74	22.82	22.71	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
70	QPSK	1	1	22.74	22.77	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
60	QPSK	1	1	22.63	22.75	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
50	QPSK	1	1	22.69	22.74	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
40	QPSK	1	1	22.61	22.76	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
30	QPSK	1	1	22.69	22.75	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
25	QPSK	1	1	22.61	22.82	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
20	QPSK	1	1	22.70	22.73	22.71	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
15	QPSK	1	1	22.66	22.77	22.66	24.0	0.0		
Channel										
Frequency (MHz)										
65000										
10	QPSK	1	1	22.69	22.69	22.65	24.0	0.0		



Part27Q_n77(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1		23.38				
100	Pl2 BPSK	1	137		23.44		24.5	0.0	
100	Pl2 BPSK	1	271		23.34				
100	Pl2 BPSK	135	0		23.33		24.5	0.0	
100	Pl2 BPSK	135	69		23.37		24.5	0.0	
100	Pl2 BPSK	135	138		23.35				
100	Pl2 BPSK	270	0		23.34		24.5	0.0	
100	QPSK	1	1		23.59				
100	QPSK	1	137		23.55		24.5	0.0	
100	QPSK	1	271		23.57				
100	QPSK	135	0		23.57		24.5	0.0	
100	QPSK	135	69		23.47				
100	QPSK	135	138		23.55				
100	QPSK	270	0		23.53		24.5	0.0	
100	16QAM	1	1		23.50		24.5	0.0	
100	64QAM	1	1		23.26		24.5	0.0	
100	256QAM	1	1		21.85		22.5	2.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
				3495	3499.98	3504.99			
80	QPSK	1	1	23.49	23.55	23.54	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632968	633332	633700	Tune-up limit (dBm)	MPR (dB)	
				3496.02	3499.98	3504			
80	QPSK	1	1	23.47	23.47	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	23.48	23.57	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
				3480	3489.98	3499.98			
60	QPSK	1	1	23.46	23.48	23.52	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3489.98	3505			
50	QPSK	1	1	23.55	23.57	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3489.98	3509.98			
40	QPSK	1	1	23.48	23.56	23.56	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
				3465	3489.98	3504.98			
30	QPSK	1	1	23.47	23.51	23.56	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633332	635832	Tune-up limit (dBm)	MPR (dB)	
				3462.51	3489.98	3507.48			
25	QPSK	1	1	23.50	23.51	23.56	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3489.98	3500			
20	QPSK	1	1	23.49	23.48	23.50	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
				3457.5	3489.98	3502.48			
15	QPSK	1	1	23.47	23.44	23.57	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
				3455.01	3489.98	3504.98			
10	QPSK	1	1	23.44	23.50	23.51	24.5	0.0	

Part27Q_n77(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1		23.14	23.21	22.96		
100	Pl2 BPSK	1	137		23.13	23.20	23.06	24.5	0.0
100	Pl2 BPSK	1	271		23.15	23.16	22.96		
100	Pl2 BPSK	135	0		23.14	23.13	23.06	24.5	0.0
100	Pl2 BPSK	135	69		23.14	23.15	23.02	24.5	0.0
100	Pl2 BPSK	135	138		23.20	23.11	23.06		
100	Pl2 BPSK	270	0		23.19	23.14	23.03	24.5	0.0
100	QPSK	1	1		23.30	23.34	23.31		
100	QPSK	1	137		23.27	23.25	23.09	24.5	0.0
100	QPSK	1	271		23.24	23.24	23.05		
100	QPSK	135	0		23.21	23.23	23.06		
100	QPSK	135	69		23.10	23.33	23.11	24.5	0.0
100	QPSK	135	138		23.18	23.25	23.05		
100	QPSK	270	0		23.28	23.30	22.97	24.5	0.0
100	16QAM	1	1		23.21	23.27	22.98	24.5	0.0
100	64QAM	1	1		23.01	23.15	23.12	24.5	0.0
100	256QAM	1	1		21.65	21.73	21.86	22.5	2.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
				3742.02	3840	3934.98			
80	QPSK	1	1	23.15	23.29	23.19	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	648334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3840	3939.98			
80	QPSK	1	1	23.23	23.30	23.10	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	648000	650000	650332	Tune-up limit (dBm)	MPR (dB)	
				3735	3840	3945			
70	QPSK	1	1	23.19	23.32	23.14	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
				3728.02	3840	3948.98			
60	QPSK	1	1	23.22	23.24	23.19	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
				3725	3840	3945.98			
50	QPSK	1	1	23.25	23.25	23.08	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
				3720	3840	3960			
40	QPSK	1	1	23.24	23.32	23.15	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
				3718	3840	3945.98			
30	QPSK	1	1	23.26	23.20	23.10	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647500	650000	650500	Tune-up limit (dBm)	MPR (dB)	
				3715	3840	3975			
25	QPSK	1	1	23.23	23.25	23.10	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3840	3969.98			
20	QPSK	1	1	23.28	23.24	23.16	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
				3707.52	3840	3972.48			
15	QPSK	1	1	23.27	23.32	23.17	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
				3705	3840	3975			
10	QPSK	1	1	23.29	23.21	23.20	24.5	0.0	

Part27Q_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1			16.23			
100	Pl2 BPSK	1	137			16.21			
100	Pl2 BPSK	1	271			16.29	17.5	0.0	
100	Pl2 BPSK	135	0			16.28			
100	Pl2 BPSK	135	69			16.32	17.5	0.0	
100	Pl2 BPSK	135	138			16.26			
100	Pl2 BPSK	270	0			16.26	17.5	0.0	
100	QPSK	1	1			16.35			
100	QPSK	1	137			16.36	17.5	0.0	
100	QPSK	1	271			16.38			
100	QPSK	135	0			16.32			
100	QPSK	135	69			16.41	17.5	0.0	
100	QPSK	135	138			16.32			
100	QPSK	270	0			16.34	17.5	0.0	
100	16QAM	1	1			16.37	17.5	0.0	
100	64QAM	1	1			16.35	17.5	0.0	
100	256QAM	1	1			16.32	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
				3495	3499.98	3504.98			
80	QPSK	1	1	16.38	16.41	16.33	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632968	633332	634000	Tune-up limit (dBm)	MPR (dB)	
				3496.02	3499.98	3510			
80	QPSK	1	1	16.42	16.31	16.42	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.41	16.30	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
				3480	3489.98	3499.98			
60	QPSK	1	1	16.42	16.34	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
				3476.02	3489.98	3505			
50	QPSK	1	1	16.32	16.36	16.33	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
				3470.01	3489.98	3509.98			
40	QPSK	1	1	16.32	16.43	16.38	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
				3465	3489.98	3504.98			
30	QPSK	1	1	16.33	16.33	16.41	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633332	635832	Tune-up limit (dB		



Part270_n77_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3760									
100	PI2 BPSK	1	1	16.21	16.10	16.20			
100	PI2 BPSK	1	137	16.10	16.11	16.16	17.5	0.0	
100	PI2 BPSK	1	271	16.22	16.18	16.21			
100	PI2 BPSK	136	0	16.17	16.19	16.25	17.5	0.0	
100	PI2 BPSK	136	69	16.31	16.28	16.28	17.5	0.0	
100	PI2 BPSK	136	138	16.13	16.11	16.23			
100	PI2 BPSK	270	0	16.17	16.19	16.23	17.5	0.0	
100	QPSK	1	1	16.21	16.43	16.33			
100	QPSK	1	137	16.32	16.21	16.27	17.5	0.0	
100	QPSK	1	271	16.31	16.23	16.34			
100	QPSK	136	0	16.19	16.31	16.22			
100	QPSK	136	69	16.34	16.42	16.35	17.5	0.0	
100	QPSK	136	138	16.30	16.25	16.29			
100	QPSK	270	0	16.28	16.33	16.26	17.5	0.0	
100	16QAM	1	1	16.23	16.29	16.28	17.5	0.0	
100	16QAM	1	1	16.22	16.26	16.26	17.5	0.0	
100	256QAM	1	1	16.18	16.18	16.18	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
80	QPSK	1	1	16.33	16.29	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
80	QPSK	1	1	16.34	16.32	16.21	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
70	QPSK	1	1	16.42	16.28	16.24	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
60	QPSK	1	1	16.41	16.40	16.23	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
50	QPSK	1	1	16.41	16.39	16.25	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
40	QPSK	1	1	16.39	16.34	16.25	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
30	QPSK	1	1	16.32	16.32	16.34	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
25	QPSK	1	1	16.37	16.38	16.34	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
20	QPSK	1	1	16.33	16.29	16.23	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
15	QPSK	1	1	16.31	16.39	16.30	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
10	QPSK	1	1	16.29	16.30	16.26	17.5	0.0	

Part270_n77(HPUe)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3499.98									
100	PI2 BPSK	1	1			16.23			
100	PI2 BPSK	1	137			16.21	17.5	0.0	
100	PI2 BPSK	1	271			16.29			
100	PI2 BPSK	136	0			16.28	17.5	0.0	
100	PI2 BPSK	136	69			16.32	17.5	0.0	
100	PI2 BPSK	136	138			16.26			
100	PI2 BPSK	270	0			16.26	17.5	0.0	
100	QPSK	1	1			16.45			
100	QPSK	1	137			16.36	17.5	0.0	
100	QPSK	1	271			16.38			
100	QPSK	136	0			16.32			
100	QPSK	136	69			16.41	17.5	0.0	
100	QPSK	136	138			16.34			
100	QPSK	270	0			16.34	17.5	0.0	
100	16QAM	1	1			16.37	17.5	0.0	
100	16QAM	1	1			16.36	17.5	0.0	
100	256QAM	1	1			16.32	17.5	0.0	
Channel									
Frequency (MHz)									
633000									
80	QPSK	1	1	3495	3499.98	3504.99	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
80	QPSK	1	1	3496.02	3499.98	3501	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
70	QPSK	1	1	16.41	16.30	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
60	QPSK	1	1	16.42	16.34	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
50	QPSK	1	1	16.32	16.36	16.33	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
40	QPSK	1	1	16.32	16.43	16.38	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
30	QPSK	1	1	16.33	16.33	16.41	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
25	QPSK	1	1	16.34	16.33	16.33	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
20	QPSK	1	1	16.30	16.42	16.31	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
15	QPSK	1	1	16.37	16.37	16.35	17.5	0.0	
Channel									
Frequency (MHz)									
633332									
10	QPSK	1	1	16.31	16.39	16.33	17.5	0.0	

Part270_n77(HPUe)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3760									
100	PI2 BPSK	1	1	16.21	16.10	16.20			
100	PI2 BPSK	1	137	16.10	16.11	16.16	17.5	0.0	
100	PI2 BPSK	1	271	16.22	16.18	16.21			
100	PI2 BPSK	136	0	16.17	16.19	16.25	17.5	0.0	
100	PI2 BPSK	136	69	16.31	16.28	16.28	17.5	0.0	
100	PI2 BPSK	136	138	16.13	16.11	16.23			
100	PI2 BPSK	270	0	16.17	16.19	16.23	17.5	0.0	
100	QPSK	1	1	16.21	16.43	16.33			
100	QPSK	1	137	16.32	16.21	16.27	17.5	0.0	
100	QPSK	1	271	16.31	16.23	16.34			
100	QPSK	136	0	16.19	16.31	16.22			
100	QPSK	136	69	16.34	16.42	16.35	17.5	0.0	
100	QPSK	136	138	16.30	16.25	16.29			
100	QPSK	270	0	16.28	16.33	16.26	17.5	0.0	
100	16QAM	1	1	16.23	16.29	16.28	17.5	0.0	
100	16QAM	1	1	16.22	16.26	16.26	17.5	0.0	
100	256QAM	1	1	16.18	16.18	16.18	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
80	QPSK	1	1	16.33	16.29	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
80	QPSK	1	1	16.34	16.32	16.21	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
70	QPSK	1	1	16.42	16.28	16.24	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
60	QPSK	1	1	16.41	16.40	16.23	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
50	QPSK	1	1	16.41	16.39	16.25	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
40	QPSK	1	1	16.39	16.34	16.25	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
30	QPSK	1	1	16.32	16.32	16.34	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
25	QPSK	1	1	16.37	16.38	16.34	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
20	QPSK	1	1	16.33	16.29	16.23	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
15	QPSK	1	1	16.31	16.39	16.30	17.5	0.0	
Channel									
Frequency (MHz)									
65000									
10	QPSK	1	1	16.29	16.30	16.26	17.5	0.0	



Part27Q_n77_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3499.98									
100	Pl2 BPSK	1	1	17.01					
100	Pl2 BPSK	1	137	16.97			18.5	0.0	
100	Pl2 BPSK	1	271	16.96					
100	Pl2 BPSK	135	0	16.89			18.5	0.0	
100	Pl2 BPSK	135	69	17.01			18.5	0.0	
100	Pl2 BPSK	135	138	16.92			18.5	0.0	
100	Pl2 BPSK	270	0	16.96			18.5	0.0	
100	QPSK	1	1	17.02					
100	QPSK	1	137	17.01			18.5	0.0	
100	QPSK	1	271	16.95					
100	QPSK	135	0	16.96			18.5	0.0	
100	QPSK	135	69	17.07			18.5	0.0	
100	QPSK	135	138	17.02			18.5	0.0	
100	QPSK	270	0	17.02			18.5	0.0	
100	16QAM	1	1	16.94			18.5	0.0	
100	64QAM	1	1	17.00			18.5	0.0	
100	256QAM	1	1	17.01			18.5	0.0	
Channel									
Frequency (MHz)									
63000									
80	QPSK	1	1	3495	3499.98	3504.98	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
63332									
80	QPSK	1	1	3496.02	3499.98	3510	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
63666									
70	QPSK	1	1	17.07	16.94	17.07	18.5	0.0	
Channel									
Frequency (MHz)									
63000									
60	QPSK	1	1	16.99	16.98	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
63332									
50	QPSK	1	1	17.04	16.98	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
63666									
40	QPSK	1	1	16.97	16.99	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
63000									
30	QPSK	1	1	17.07	16.99	16.94	18.5	0.0	
Channel									
Frequency (MHz)									
63332									
25	QPSK	1	1	17.03	16.97	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
63666									
20	QPSK	1	1	16.99	17.08	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
63000									
15	QPSK	1	1	17.00	16.95	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
63332									
10	QPSK	1	1	17.01	17.01	16.99	18.5	0.0	

Part270_n77_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
65000									
100	Pl2 BPSK	1	1	17.01	16.97	17.07			
100	Pl2 BPSK	1	137	16.91	16.91	16.93	18.5	0.0	
100	Pl2 BPSK	1	271	16.90	16.96	16.94			
100	Pl2 BPSK	135	0	16.94	16.97	16.86	18.5	0.0	
100	Pl2 BPSK	135	69	16.98	16.97	17.03	18.5	0.0	
100	Pl2 BPSK	135	138	16.89	16.93	16.98	18.5	0.0	
100	Pl2 BPSK	270	0	17.04	17.00	17.05	18.5	0.0	
100	QPSK	1	1	17.08	17.06	17.05			
100	QPSK	1	137	16.93	16.94	16.95	18.5	0.0	
100	QPSK	1	271	16.83	16.81	16.85			
100	QPSK	135	0	16.92	16.82	16.87	18.5	0.0	
100	QPSK	135	69	17.01	17.03	16.93	18.5	0.0	
100	QPSK	135	138	16.89	16.89	17.02	18.5	0.0	
100	QPSK	270	0	16.97	16.98	16.97	18.5	0.0	
100	16QAM	1	1	16.99	16.97	16.89	18.5	0.0	
100	64QAM	1	1	16.95	16.98	16.97	18.5	0.0	
100	256QAM	1	1	16.99	16.98	16.94	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
80	QPSK	1	1	17.05	17.02	16.96	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
80	QPSK	1	1	17.00	17.05	16.99	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
70	QPSK	1	1	16.94	16.94	16.89	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
60	QPSK	1	1	16.95	17.04	16.95	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
50	QPSK	1	1	17.05	16.95	16.94	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
40	QPSK	1	1	17.00	17.08	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
30	QPSK	1	1	16.93	16.95	16.96	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
25	QPSK	1	1	16.93	17.04	16.92	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
20	QPSK	1	1	16.99	17.06	16.92	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
15	QPSK	1	1	17.04	16.97	16.97	18.5	0.0	
Channel									
Frequency (MHz)									
65000									
10	QPSK	1	1	16.95	16.95	16.97	18.5	0.0	

Part27Q_n77(HPUe)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3499.98									
100	Pl2 BPSK	1	1	17.01					
100	Pl2 BPSK	1	137	16.97			18.5	0.0	
100	Pl2 BPSK	1	271	16.96					
100	Pl2 BPSK	135	0	16.89			18.5	0.0	
100	Pl2 BPSK	135	69	17.01			18.5	0.0	
100	Pl2 BPSK	135	138	16.92			18.5	0.0	
100	Pl2 BPSK	270	0	16.96			18.5	0.0	
100	QPSK	1	1	17.02					
100	QPSK	1	137	17.01			18.5	0.0	
100	QPSK	1	271	16.95					
100	QPSK	135	0	16.96			18.5	0.0	
100	QPSK	135	69	17.07			18.5	0.0	
100	QPSK	135	138	17.02			18.5	0.0	
100	QPSK	270	0	17.02			18.5	0.0	
100	16QAM	1	1	16.94			18.5	0.0	
100	64QAM	1	1	17.00			18.5	0.0	
100	256QAM	1	1	17.01			18.5	0.0	
Channel									
Frequency (MHz)									
63000									
80	QPSK	1	1	3495	3499.98	3504.98	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
63332									
80	QPSK	1	1	3496.02	3499.98	3510	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
63666									
70	QPSK	1	1	17.07	16.94	17.07	18.5	0.0	
Channel									
Frequency (MHz)									
63000									
60	QPSK	1	1	16.99	16.98	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
63332									
50	QPSK	1	1	17.04	16.98	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
63666									
40	QPSK	1	1	16.97	16.99	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
63000									
30	QPSK	1	1	17.07	16.99	16.94	18.5	0.0	
Channel									
Frequency (MHz)									
63332									
25	QPSK	1	1	17.03	16.97	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
63666									
20	QPSK	1	1	16.99	17.08	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
63000									
15	QPSK	1	1	17.00	16.95	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
63332									
10	QPSK	1	1	17.01	17.01	16.99	18.5	0.0	



Part270_n77(HPUe)_Ant 8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3760										
100	Pl2 BPSK	1	1	17.01	16.97	17.07				
100	Pl2 BPSK	1	137	16.91	16.91	16.93	18.5	0.0		
100	Pl2 BPSK	1	271	16.90	16.98	16.94				
100	Pl2 BPSK	135	0	16.84	16.87	16.86	18.5	0.0		
100	Pl2 BPSK	135	69	16.98	16.97	17.03	18.5	0.0		
100	Pl2 BPSK	135	138	16.89	16.93	16.98				
100	Pl2 BPSK	270	0	17.04	17.06	17.05	18.5	0.0		
100	QPSK	1	1	17.08	17.08	17.01				
100	QPSK	1	137	16.93	16.94	16.89	18.5	0.0		
100	QPSK	1	271	16.83	16.81	16.85				
100	QPSK	135	0	16.92	16.82	16.87				
100	QPSK	135	69	17.07	17.03	16.95	18.5	0.0		
100	QPSK	135	138	16.89	17.01	16.98				
100	QPSK	270	0	16.97	16.98	16.97	18.5	0.0		
100	16QAM	1	1	16.99	16.97	16.89	18.5	0.0		
100	64QAM	1	1	16.95	16.98	16.97	18.5	0.0		
100	256QAM	1	1	16.99	16.98	16.94	18.5	0.0		
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	17.05	17.02	16.98	15.5	0.0		
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	17.00	17.05	16.99	18.5	0.0		
Channel										
Frequency (MHz)										
3765										
70	QPSK	1	1	16.94	16.94	16.89	18.5	0.0		
Channel										
Frequency (MHz)										
64834										
60	QPSK	1	1	16.95	17.04	16.95	18.5	0.0		
Channel										
Frequency (MHz)										
65000										
50	QPSK	1	1	17.05	16.95	16.94	15.5	0.0		
Channel										
Frequency (MHz)										
64800										
40	QPSK	1	1	17.00	17.08	16.98	18.5	0.0		
Channel										
Frequency (MHz)										
64760										
30	QPSK	1	1	16.93	16.95	16.96	18.5	0.0		
Channel										
Frequency (MHz)										
64700										
25	QPSK	1	1	17.23	17.04	16.92	15.5	0.0		
Channel										
Frequency (MHz)										
64734										
20	QPSK	1	1	16.99	17.06	16.92	18.5	0.0		
Channel										
Frequency (MHz)										
64716										
15	QPSK	1	1	17.04	16.97	16.97	18.5	0.0		
Channel										
Frequency (MHz)										
64700										
10	QPSK	1	1	16.95	16.95	16.97	18.5	0.0		

Part27Q_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3499.98										
100	Pl2 BPSK	1	1			13.29				
100	Pl2 BPSK	1	137			13.32	15.0	0.0		
100	Pl2 BPSK	1	271			13.26				
100	Pl2 BPSK	135	0			13.34	15.0	0.0		
100	Pl2 BPSK	135	69			13.43	15.0	0.0		
100	Pl2 BPSK	135	138			13.39				
100	Pl2 BPSK	270	0			13.35	15.0	0.0		
100	QPSK	1	1			13.55				
100	QPSK	1	137			13.48	15.0	0.0		
100	QPSK	1	271			13.41				
100	QPSK	135	0			13.41	15.0	0.0		
100	QPSK	135	69			13.46				
100	QPSK	135	138			13.42	15.0	0.0		
100	QPSK	270	0			13.40	15.0	0.0		
100	16QAM	1	1			13.49	15.0	0.0		
100	64QAM	1	1			13.32	15.0	0.0		
100	256QAM	1	1			13.31	15.0	0.0		
Channel										
Frequency (MHz)										
63000										
80	QPSK	1	1	13.40	13.38	13.34	15.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
80	QPSK	1	1	13.41	13.35	13.33	15.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
70	QPSK	1	1	13.45	13.40	13.47	15.0	0.0		
Channel										
Frequency (MHz)										
63000										
60	QPSK	1	1	13.35	13.36	13.42	15.0	0.0		
Channel										
Frequency (MHz)										
63168										
50	QPSK	1	1	13.46	13.43	13.36	15.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
40	QPSK	1	1	13.39	13.37	13.33	15.0	0.0		
Channel										
Frequency (MHz)										
63100										
30	QPSK	1	1	13.35	13.35	13.42	15.0	0.0		
Channel										
Frequency (MHz)										
63084										
25	QPSK	1	1	13.38	13.33	13.35	15.0	0.0		
Channel										
Frequency (MHz)										
63068										
20	QPSK	1	1	13.39	13.44	13.34	15.0	0.0		
Channel										
Frequency (MHz)										
3499.98										
15	QPSK	1	1	13.36	13.45	13.44	15.0	0.0		
Channel										
Frequency (MHz)										
63034										
10	QPSK	1	1	13.33	13.38	13.46	15.0	0.0		

Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3750										
100	Pl2 BPSK	1	1			13.41				
100	Pl2 BPSK	1	137			13.34	15.0	0.0		
100	Pl2 BPSK	1	271			13.40				
100	Pl2 BPSK	135	0			13.41	15.0	0.0		
100	Pl2 BPSK	135	69			13.47	15.0	0.0		
100	Pl2 BPSK	135	138			13.45				
100	Pl2 BPSK	270	0			13.37	15.0	0.0		
100	QPSK	1	1			13.54				
100	QPSK	1	137			13.50	15.0	0.0		
100	QPSK	1	271			13.46				
100	QPSK	135	0			13.48	15.0	0.0		
100	QPSK	135	69			13.53				
100	QPSK	135	138			13.52	15.0	0.0		
100	QPSK	270	0			13.43	15.0	0.0		
100	16QAM	1	1			13.53	15.0	0.0		
100	256QAM	1	1			13.42	15.0	0.0		
Channel										
Frequency (MHz)										
64968										
80	QPSK	1	1	13.53	13.41	13.46	15.0	0.0		
Channel										
Frequency (MHz)										
3740.01										
80	QPSK	1	1	13.52	13.50	13.46	15.0	0.0		
Channel										
Frequency (MHz)										
64968										
70	QPSK	1	1	13.52	13.51	13.45	15.0	0.0		
Channel										
Frequency (MHz)										
64968										
60	QPSK	1	1	13.45	13.46	13.49	15.0	0.0		
Channel										
Frequency (MHz)										
64834										
50	QPSK	1	1	13.43	13.46	13.46	15.0	0.0		
Channel										
Frequency (MHz)										
64800										
40	QPSK	1	1	13.39	13.48	13.48	15.0	0.0		
Channel										
Frequency (MHz)										
64760										
30	QPSK	1	1	13.51	13.43	13.51	15.0	0.0		
Channel										
Frequency (MHz)										
64700										
25	QPSK	1	1	13.52	13.43	13.41	15.0	0.0		
Channel										
Frequency (MHz)										
64734										
20	QPSK	1	1	13.52	13.51	13.42	15.0	0.0		
Channel										
Frequency (MHz)										
3740.02										
15	QPSK	1	1	13.50	13.39	13.45	15.0	0.0		
Channel										
Frequency (MHz)										
64700										
10	QPSK	1	1	13.46	13.47	13.50	15.0	0.0		

Part27Q_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	13.29					
100	PI2 BPSK	1	137	13.32			15.0	0.0	
100	PI2 BPSK	1	271	13.29					
100	PI2 BPSK	135	0	13.34			15.0	0.0	
100	PI2 BPSK	135	69	13.43			15.0	0.0	
100	PI2 BPSK	135	138	13.39					
100	PI2 BPSK	270	0	13.35			15.0	0.0	
100	QPSK	1	1	13.25					
100	QPSK	1	137	13.48			15.0	0.0	
100	QPSK	1	271	13.41					
100	QPSK	135	0	13.41			15.0	0.0	
100	QPSK	135	69	13.40					
100	QPSK	135	138	13.42					
100	QPSK	270	0	13.40			15.0	0.0	
100	16QAM	1	1	13.49			15.0	0.0	
100	64QAM	1	1	13.32			15.0	0.0	
100	256QAM	1	1	13.31			15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.40	13.35	13.31	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.41	13.35	13.33	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.45	13.40	13.47	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.35	13.30	13.42	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.40	13.43	13.39	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.39	13.37	13.33	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.35	13.35	13.42	15.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.29	13.33	13.35	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.30	13.44	13.34	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.36	13.45	13.44	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.33	13.38	13.46	15.0	0.0	

Part27O_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	13.41					
100	PI2 BPSK	1	137	13.34			15.0	0.0	
100	PI2 BPSK	1	271	13.40					
100	PI2 BPSK	135	0	13.41			15.0	0.0	
100	PI2 BPSK	135	69	13.47			15.0	0.0	
100	PI2 BPSK	135	138	13.45					
100	PI2 BPSK	270	0	13.37			15.0	0.0	
100	QPSK	1	1	13.26					
100	QPSK	1	137	13.50			15.0	0.0	
100	QPSK	1	271	13.48					
100	QPSK	135	0	13.48			15.0	0.0	
100	QPSK	135	69	13.53					
100	QPSK	135	138	13.52					
100	QPSK	270	0	13.43			15.0	0.0	
100	16QAM	1	1	13.53			15.0	0.0	
100	64QAM	1	1	13.46			15.0	0.0	
100	256QAM	1	1	13.42			15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.53	13.41	13.49	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.52	13.50	13.46	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.52	13.51	13.45	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.45	13.46	13.49	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.43	13.45	13.48	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.39	13.48	13.48	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.51	13.43	13.51	15.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.52	13.49	13.41	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.52	13.51	13.42	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.50	13.39	13.45	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.48	13.47	13.50	15.0	0.0	



Part27Q_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.61					
100	PI2 BPSK	1	137	22.66			24.0	0.0	
100	PI2 BPSK	1	271	22.69					
100	PI2 BPSK	135	9	22.60			24.0	0.0	
100	PI2 BPSK	135	69	22.66			24.0	0.0	
100	PI2 BPSK	135	138	22.67					
100	PI2 BPSK	270	0	22.63			24.0	0.0	
100	QPSK	1	1	22.52					
100	QPSK	1	137	22.65			24.0	0.0	
100	QPSK	1	271	22.71					
100	QPSK	135	9	22.47					
100	QPSK	135	69	22.52			24.0	0.0	
100	QPSK	135	138	22.51					
100	QPSK	270	0	22.43			24.0	0.0	
100	16QAM	1	1	22.31			24.0	0.0	
100	64QAM	1	1	22.29			24.0	0.0	
100	256QAM	1	1	21.41			22.5	1.5	
Channel									
Frequency (MHz)									
633000	633332	633666					Tune-up limit (dBm)	MPR (dB)	
3495	3499.98	3504.99							
90	QPSK	1	1	22.62	22.61	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
63098	63332	63400					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3510							
80	QPSK	1	1	22.63	22.63	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63234	63332	63432					Tune-up limit (dBm)	MPR (dB)	
3465.01	3469.98	3514.98							
70	QPSK	1	1	22.61	22.54	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
63000	63332	63466					Tune-up limit (dBm)	MPR (dB)	
3484	3489.98	3518.99							
60	QPSK	1	1	22.49	22.50	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
631668	63332	63500					Tune-up limit (dBm)	MPR (dB)	
3479.02	3499.98	3505							
50	QPSK	1	1	22.50	22.53	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63134	63332	63332					Tune-up limit (dBm)	MPR (dB)	
3470.01	3469.98	3429.98							
40	QPSK	1	1	22.50	22.57	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
63100	63332	63506					Tune-up limit (dBm)	MPR (dB)	
3465	3469.98	3534.99							
30	QPSK	1	1	22.54	22.58	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
630834	63332	63692					Tune-up limit (dBm)	MPR (dB)	
3462.01	3469.98	3537.98							
25	QPSK	1	1	22.45	22.50	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
630668	63332	63600					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3540							
20	QPSK	1	1	22.56	22.51	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
63050	63332	63716					Tune-up limit (dBm)	MPR (dB)	
3457.5	3469.98	3542.49							
15	QPSK	1	1	22.54	22.53	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
630334	63332	63632					Tune-up limit (dBm)	MPR (dB)	
3455.01	3469.98	3544.98							
10	QPSK	1	1	22.60	22.56	22.56	24.0	0.0	

Part27O_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.71					
100	PI2 BPSK	1	137	22.70			24.0	0.0	
100	PI2 BPSK	1	271	22.68					
100	PI2 BPSK	135	9	22.72			24.0	0.0	
100	PI2 BPSK	135	69	22.71			24.0	0.0	
100	PI2 BPSK	135	138	22.69					
100	PI2 BPSK	270	0	22.73			24.0	0.0	
100	QPSK	1	1	22.77					
100	QPSK	1	137	22.74			24.0	0.0	
100	QPSK	1	271	22.73					
100	QPSK	135	9	22.69					
100	QPSK	135	69	22.77			24.0	0.0	
100	QPSK	135	138	22.72					
100	QPSK	270	0	22.64			24.0	0.0	
100	16QAM	1	1	22.45			24.0	0.0	
100	64QAM	1	1	22.39			24.0	0.0	
100	256QAM	1	1	21.45			22.5	1.5	
Channel									
Frequency (MHz)									
646668	650000	650332					Tune-up limit (dBm)	MPR (dB)	
3745.02	3750	3754.98							
90	QPSK	1	1	22.73	22.71	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
646334	650000	650666					Tune-up limit (dBm)	MPR (dB)	
3740.01	3750	3759.99							
80	QPSK	1	1	22.71	22.61	22.59	24.0	0.0	
Channel									
Frequency (MHz)									
646000	650000	651000					Tune-up limit (dBm)	MPR (dB)	
3735	3750	3765							
70	QPSK	1	1	22.63	22.67	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
646668	650000	651332					Tune-up limit (dBm)	MPR (dB)	
3730.02	3750	3768.98							
60	QPSK	1	1	22.69	22.56	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
646334	650000	651666					Tune-up limit (dBm)	MPR (dB)	
3725.01	3750	3774.99							
50	QPSK	1	1	22.72	22.53	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
646000	650000	652000					Tune-up limit (dBm)	MPR (dB)	
3720	3750	3780							
40	QPSK	1	1	22.70	22.69	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
647668	650000	652332					Tune-up limit (dBm)	MPR (dB)	
3715.02	3750	3784.98							
30	QPSK	1	1	22.60	22.66	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3710.01	3750	3789.99							
20	QPSK	1	1	22.66	22.56	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)	
3712.5	3750	3791.5							
25	QPSK	1	1	22.69	22.64	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3710.01	3750	3789.99							
15	QPSK	1	1	22.63	22.64	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)	
3705	3750	3785							
10	QPSK	1	1	22.61	22.61	22.55	24.0	0.0	

Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.91					
100	PI2 BPSK	1	137	22.92			24.5	0.0	
100	PI2 BPSK	1	271	22.96					
100	PI2 BPSK	135	9	22.98			24.5	0.0	
100	PI2 BPSK	135	69	22.90			24.5	0.0	
100	PI2 BPSK	135	138	23.04					
100	PI2 BPSK	270	0	22.95			24.5	0.0	
100	QPSK	1	1	22.97					
100	QPSK	1	137	22.97			24.5	0.0	
100	QPSK	1	271	22.98					
100	QPSK	135	0	23.00					
100	QPSK	135	69	23.03			24.5	0.0	
100	QPSK	135	138	22.99					
100	QPSK	270	0	23.00			24.5	0.0	
100	16QAM	1	1	22.95			24.5	0.0	
100	64QAM	1	1	22.96			24.5	0.0	
100	256QAM	1	1	21.72			22.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.04	23.00	23.00	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.85	22.82	22.88	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.92	22.83	22.87	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.97	22.75	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.95	22.73	22.87	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.94	22.76	22.96	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.98	22.78	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.99	22.83	22.97	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.02	22.87	22.85	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.98	22.78	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.03	22.86	22.97	24.5	0.0	

Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.17					
100	PI2 BPSK	1	137	23.16			24.5	0.0	
100	PI2 BPSK	1	271	23.16					
100	PI2 BPSK	135	9	23.07			24.5	0.0	
100	PI2 BPSK	135	69	23.11			24.5	0.0	
100	PI2 BPSK	135	138	23.06					
100	PI2 BPSK	270	0	23.07			24.5	0.0	
100	QPSK	1	1	23.20					
100	QPSK	1	137	23.11			24.5	0.0	
100	QPSK	1	271	23.06					
100	QPSK	135	0	23.16			24.5	0.0	
100	QPSK	135	69	23.18					
100	QPSK	135	138	23.14					
100	QPSK	270	0	23.16			24.5	0.0	
100	16QAM	1	1	23.08			24.5	0.0	
100	64QAM	1	1	23.17			24.5	0.0	
100	256QAM	1	1	21.54			22.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.12	23.13	23.09	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.02	23.07	23.07	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.10	23.12	23.06	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.06	23.09	22.97	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.05	23.10	22.83	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.97	23.10	22.98	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.03	22.96	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.09	23.10	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.10	23.06	22.83	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.10	23.08	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.11	23.00	22.93	24.5	0.0	

Part27Q_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.39					
100	PI2 BPSK	1	137	16.35			17.5	0.0	
100	PI2 BPSK	1	271	16.27					
100	PI2 BPSK	135	9	16.34			17.5	0.0	
100	PI2 BPSK	135	69	16.37			17.5	0.0	
100	PI2 BPSK	135	138	16.38					
100	PI2 BPSK	270	0	16.34			17.5	0.0	
100	QPSK	1	1	16.52					
100	QPSK	1	137	16.60			17.5	0.0	
100	QPSK	1	271	16.52					
100	QPSK	135	9	16.52					
100	QPSK	135	69	16.50			17.5	0.0	
100	QPSK	135	138	16.56					
100	QPSK	270	0	16.58			17.5	0.0	
100	16QAM	1	1	16.57			17.5	0.0	
100	64QAM	1	1	16.56			17.5	0.0	
100	256QAM	1	1	16.55			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.60	16.53	16.53	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.48	16.54	16.60	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.58	16.57	16.49	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.61	16.47	16.47	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.73	16.53	16.54	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.48	16.59	16.61	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.47	16.51	16.53	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.49	16.50	16.52	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.57	16.53	16.57	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.52	16.58	16.57	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.48	16.56	16.61	17.5	0.0	

Part27O_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.36					
100	PI2 BPSK	1	137	16.26			17.5	0.0	
100	PI2 BPSK	1	271	16.18					
100	PI2 BPSK	135	9	16.30			17.5	0.0	
100	PI2 BPSK	135	69	16.24			17.5	0.0	
100	PI2 BPSK	135	138	16.23					
100	PI2 BPSK	270	0	16.24			17.5	0.0	
100	QPSK	1	1	16.50					
100	QPSK	1	137	16.56			17.5	0.0	
100	QPSK	1	271	16.47					
100	QPSK	135	9	16.44					
100	QPSK	135	69	16.52			17.5	0.0	
100	QPSK	135	138	16.47					
100	QPSK	270	0	16.56			17.5	0.0	
100	16QAM	1	1	16.43			17.5	0.0	
100	64QAM	1	1	16.46			17.5	0.0	
100	256QAM	1	1	16.54			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.53	16.44	16.47	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.47	16.42	16.56	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.42	16.52	16.44	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.49	16.47	16.50	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.44	16.43	16.51	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.42	16.48	16.45	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.56	16.49	16.49	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.52	16.50	16.45	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.45	16.47	16.45	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.53	16.49	16.46	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.44	16.47	16.50	17.5	0.0	



Part27Q_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.39					
100	PI2 BPSK	1	137	16.35			17.5	0.0	
100	PI2 BPSK	1	271	16.27					
100	PI2 BPSK	135	9	16.34			17.5	0.0	
100	PI2 BPSK	135	69	16.37			17.5	0.0	
100	PI2 BPSK	135	138	16.38					
100	PI2 BPSK	270	0	16.34			17.5	0.0	
100	QPSK	1	1	16.52					
100	QPSK	1	137	16.60			17.5	0.0	
100	QPSK	1	271	16.52					
100	QPSK	135	9	16.52					
100	QPSK	135	69	16.50			17.5	0.0	
100	QPSK	135	138	16.56					
100	QPSK	270	0	16.58			17.5	0.0	
100	16QAM	1	1	16.57			17.5	0.0	
100	64QAM	1	1	16.56			17.5	0.0	
100	256QAM	1	1	16.55			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.60	16.53	16.53	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.48	16.54	16.60	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.58	16.57	16.49	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.61	16.47	16.47	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.73	16.59	16.59	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.48	16.59	16.61	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.47	16.51	16.53	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.49	16.50	16.52	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.57	16.53	16.57	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.52	16.58	16.57	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.48	16.56	16.61	17.5	0.0	

Part27O_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.36					
100	PI2 BPSK	1	137	16.26			17.5	0.0	
100	PI2 BPSK	1	271	16.18					
100	PI2 BPSK	135	9	16.30			17.5	0.0	
100	PI2 BPSK	135	69	16.24			17.5	0.0	
100	PI2 BPSK	135	138	16.23					
100	PI2 BPSK	270	0	16.24			17.5	0.0	
100	QPSK	1	1	16.57					
100	QPSK	1	137	16.56			17.5	0.0	
100	QPSK	1	271	16.47					
100	QPSK	135	9	16.44					
100	QPSK	135	69	16.52			17.5	0.0	
100	QPSK	135	138	16.47					
100	QPSK	270	0	16.58			17.5	0.0	
100	16QAM	1	1	16.43			17.5	0.0	
100	64QAM	1	1	16.49			17.5	0.0	
100	256QAM	1	1	16.54			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.53	16.44	16.47	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.47	16.42	16.56	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.42	16.52	16.44	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.49	16.47	16.50	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.44	16.43	16.51	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.42	16.48	16.45	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.56	16.49	16.49	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.52	16.50	16.45	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.45	16.47	16.45	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.53	16.49	16.46	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.44	16.47	16.50	17.5	0.0	



Part27Q_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.60					
100	PI2 BPSK	1	137	17.59			18.5	0.0	
100	PI2 BPSK	1	271	17.51					
100	PI2 BPSK	135	9	17.56			18.5	0.0	
100	PI2 BPSK	135	69	17.52			18.5	0.0	
100	PI2 BPSK	135	138	17.59					
100	PI2 BPSK	270	0	17.48			18.5	0.0	
100	QPSK	1	1	17.52					
100	QPSK	1	137	17.51			18.5	0.0	
100	QPSK	1	271	17.57					
100	QPSK	135	9	17.53			18.5	0.0	
100	QPSK	135	69	17.55					
100	QPSK	135	138	17.49			18.5	0.0	
100	QPSK	270	0	17.53			18.5	0.0	
100	16QAM	1	1	17.58			18.5	0.0	
100	64QAM	1	1	17.51			18.5	0.0	
100	256QAM	1	1	17.50			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.57	17.50	17.50	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.56	17.49	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.49	17.47	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.54	17.47	17.42	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.44	17.43	17.43	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.54	17.43	17.44	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.52	17.42	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.45	17.43	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.51	17.47	17.25	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.48	17.38	17.42	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.55	17.48	17.42	18.5	0.0	

Part27O_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.56					
100	PI2 BPSK	1	137	17.53			18.5	0.0	
100	PI2 BPSK	1	271	17.48					
100	PI2 BPSK	135	9	17.54			18.5	0.0	
100	PI2 BPSK	135	69	17.56			18.5	0.0	
100	PI2 BPSK	135	138	17.53					
100	PI2 BPSK	270	0	17.56			18.5	0.0	
100	QPSK	1	1	17.52					
100	QPSK	1	137	17.48			18.5	0.0	
100	QPSK	1	271	17.48					
100	QPSK	135	9	17.54			18.5	0.0	
100	QPSK	135	69	17.57					
100	QPSK	135	138	17.48			18.5	0.0	
100	QPSK	270	0	17.56			18.5	0.0	
100	16QAM	1	1	17.48			18.5	0.0	
100	64QAM	1	1	17.45			18.5	0.0	
100	256QAM	1	1	17.55			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.47	17.55	17.52	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.45	17.42	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.42	17.44	17.42	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.50	17.42	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.41	17.40	17.40	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.37	17.53	17.46	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.33	17.51	17.48	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.43	17.45	17.38	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.45	17.43	17.40	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.52	17.52	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.41	17.49	17.45	18.5	0.0	



Part27Q_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.60					
100	PI2 BPSK	1	137	17.59			18.5	0.0	
100	PI2 BPSK	1	271	17.51					
100	PI2 BPSK	135	9	17.56			18.5	0.0	
100	PI2 BPSK	135	69	17.52			18.5	0.0	
100	PI2 BPSK	135	138	17.59					
100	PI2 BPSK	270	0	17.48			18.5	0.0	
100	QPSK	1	1	17.52					
100	QPSK	1	137	17.51			18.5	0.0	
100	QPSK	1	271	17.57					
100	QPSK	135	9	17.53			18.5	0.0	
100	QPSK	135	69	17.55					
100	QPSK	135	138	17.49					
100	QPSK	270	0	17.53			18.5	0.0	
100	16QAM	1	1	17.58			18.5	0.0	
100	64QAM	1	1	17.51			18.5	0.0	
100	256QAM	1	1	17.50			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.57	17.50	17.55	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.56	17.49	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.49	17.47	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.54	17.47	17.42	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.44	17.43	17.43	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.54	17.43	17.44	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.52	17.42	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.45	17.43	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.51	17.47	17.25	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.48	17.38	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.55	17.48	17.42	18.5	0.0	

Part27O_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.56					
100	PI2 BPSK	1	137	17.53			18.5	0.0	
100	PI2 BPSK	1	271	17.48					
100	PI2 BPSK	135	9	17.54			18.5	0.0	
100	PI2 BPSK	135	69	17.56			18.5	0.0	
100	PI2 BPSK	135	138	17.53					
100	PI2 BPSK	270	0	17.56			18.5	0.0	
100	QPSK	1	1	17.52					
100	QPSK	1	137	17.48			18.5	0.0	
100	QPSK	1	271	17.48					
100	QPSK	135	9	17.54			18.5	0.0	
100	QPSK	135	69	17.57					
100	QPSK	135	138	17.48					
100	QPSK	270	0	17.56			18.5	0.0	
100	16QAM	1	1	17.41			18.5	0.0	
100	64QAM	1	1	17.45			18.5	0.0	
100	256QAM	1	1	17.55			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.47	17.55	17.52	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.45	17.42	17.41	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.42	17.44	17.42	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.50	17.42	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.41	17.40	17.40	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.37	17.53	17.46	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.33	17.51	17.48	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.43	17.45	17.53	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.45	17.43	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.52	17.52	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.41	17.49	17.45	18.5	0.0	



n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.76	22.78	22.85			
40	PI2 BPSK	1	108	22.68	22.82	22.78	24.0	0.0	
40	PI2 BPSK	1	214	22.58	22.73	22.70			
40	PI2 BPSK	108	0	22.97	22.43	22.38	23.5	0.5	
40	PI2 BPSK	108	54	22.85	22.92	22.87	24.0	0.0	
40	PI2 BPSK	108	108	22.37	22.43	22.35			
40	PI2 BPSK	216	0	22.34	22.41	22.30	23.5	0.5	
40	QPSK	1	1	22.97	23.02	22.99			
40	QPSK	1	108	22.98	22.98	22.92	24.0	0.0	
40	QPSK	1	214	22.77	22.83	22.74			
40	QPSK	108	0	21.78	21.88	21.80	23.0	1.0	
40	QPSK	108	54	22.88	22.89	22.87	24.0	0.0	
40	QPSK	108	108	21.83	21.84	21.83			
40	QPSK	216	0	21.75	21.85	21.71	23.0	1.0	
40	16QAM	1	1	21.62	21.64	21.53	23.0	1.0	
40	64QAM	1	1	20.05	20.11	20.01	21.5	2.5	
40	256QAM	1	1	18.68	18.72	18.61	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.95	22.90	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.84	23.01	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.89	22.95	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.92	23.00	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.84	22.98	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.93	22.93	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.93	22.87	24.0	0.0	

Reduced Power Mode for EC4									
n2_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.93	23.02	22.89			
40	PI2 BPSK	1	108	23.02	23.06	22.95	24.0	0.0	
40	PI2 BPSK	1	214	22.84	22.97	22.93			
40	PI2 BPSK	108	0	22.93	22.66	22.97	23.5	0.5	
40	PI2 BPSK	108	54	23.02	23.15	23.08	24.0	0.0	
40	PI2 BPSK	108	108	22.90	22.85	22.95			
40	PI2 BPSK	216	0	22.59	22.67	22.58	23.5	0.5	
40	QPSK	1	1	23.14	23.19	23.15			
40	QPSK	1	108	23.08	23.13	23.08	24.0	0.0	
40	QPSK	1	214	23.06	23.08	22.97			
40	QPSK	108	0	21.98	22.13	22.04	23.0	1.0	
40	QPSK	108	54	22.98	23.11	23.05	24.0	0.0	
40	QPSK	108	108	21.97	22.06	21.96			
40	QPSK	216	0	22.80	22.88	22.86	23.0	1.0	
40	16QAM	1	1	21.72	21.87	21.84	23.0	1.0	
40	64QAM	1	1	20.32	20.35	20.20	21.5	2.5	
40	256QAM	1	1	18.94	18.98	18.94	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.02	23.15	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.04	23.05	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.07	23.10	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.03	23.15	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.00	23.04	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.02	23.07	23.09	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.12	23.16	23.04	24.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 168800	Power Middle Ch. F Freq. 167500	Power High Ch. F Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.67	22.81	22.70			
20	PI2 BPSK	1	53	22.71	22.85	22.78	24.0	0.0	
20	PI2 BPSK	1	104	22.67	22.79	22.68			
20	PI2 BPSK	50	0	22.48	22.50	22.41	23.5	0.5	
20	PI2 BPSK	50	28	22.92	22.99	22.92	24.0	0.0	
20	PI2 BPSK	50	56	22.46	22.48	22.40			
20	PI2 BPSK	100	0	22.42	22.45	22.43	23.5	0.5	
20	QPSK	1	1	22.95	23.03	22.81			
20	QPSK	1	53	22.92	23.01	22.88	24.0	0.0	
20	QPSK	1	104	22.84	22.88	22.80			
20	QPSK	50	0	21.81	21.93	21.81	23.0	1.0	
20	QPSK	50	28	22.84	22.84	22.80	24.0	0.0	
20	QPSK	50	56	21.75	21.87	21.77			
20	QPSK	100	0	21.83	21.80	21.79	23.0	1.0	
20	16QAM	1	1	21.70	21.84	21.83	23.0	1.0	
20	64QAM	1	1	20.24	20.32	20.30	21.5	2.5	
20	256QAM	1	1	18.83	18.95	18.85	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.81	22.84	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.97	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.95	22.96	22.76	24.0	0.0	

n5_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 16650	Power Middle Ch. F. Freq. 16730	Power High Ch. F. Freq. 16780	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	839			
Frequency (MHz)									
20	PI2 BPSK	1	1	22.75	22.93	22.92			
20	PI2 BPSK	1	53	22.87	22.86	22.82	24.0	0.0	
20	PI2 BPSK	1	104	22.75	22.88	22.73			
20	PI2 BPSK	50	0	22.58	22.60	22.48	23.5	0.5	
20	PI2 BPSK	50	28	23.08	23.07	23.04	24.0	0.0	
20	PI2 BPSK	50	56	22.55	22.57	22.53	23.5	0.5	
20	PI2 BPSK	100	0	22.47	22.57	22.52			
20	QPSK	1	1	23.01	23.09	23.05			
20	QPSK	1	53	23.01	23.02	22.89	24.0	0.0	
20	QPSK	1	104	22.98	22.96	22.91			
20	QPSK	50	0	22.90	22.94	21.89	23.0	1.0	
20	QPSK	50	28	22.95	23.03	22.97	24.0	0.0	
20	QPSK	50	56	21.93	21.98	21.88			
20	QPSK	100	0	21.94	22.01	21.98	23.0	1.0	
20	16QAM	1	1	21.76	21.80	21.67	23.0	1.0	
20	64QAM	1	1	20.11	20.25	20.14	21.5	2.5	
20	256QAM	1	1	18.81	18.85	18.76	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.92	22.97	22.87	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.90	23.03	22.92	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.00	22.98	22.83	24.0	0.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 50550	Power Middle Ch. F. Freq. 50700	Power High Ch. F. Freq. 50950	Tune-up limit (dBm)	MPR (dB)	
Channel				2525	2535	2545			
Frequency (MHz)									
50	PI2 BPSK	1	1	23.07	23.19	23.04			
50	PI2 BPSK	1	115	23.09	23.24	23.17	24.0	0.0	
50	PI2 BPSK	1	208	22.99	23.14	23.08			
50	PI2 BPSK	135	0	22.70	22.85	22.73	23.5	0.5	
50	PI2 BPSK	135	68	23.10	23.24	23.19	24.0	0.0	
50	PI2 BPSK	135	135	22.72	22.83	22.69	23.5	0.5	
50	PI2 BPSK	270	0	22.80	22.81	22.68			
50	QPSK	1	1	23.28	23.34	23.23			
50	QPSK	1	135	23.24	23.27	23.17	24.0	0.0	
50	QPSK	1	268	23.14	23.22	23.08			
50	QPSK	135	0	22.31	22.52	22.23	23.0	1.0	
50	QPSK	135	68	23.25	23.32	23.25	24.0	0.0	
50	QPSK	135	135	22.17	22.27	22.22			
50	QPSK	270	0	22.29	22.24	22.17	23.0	1.0	
50	16QAM	1	1	22.02	22.07	21.93	23.0	1.0	
50	64QAM	1	1	20.48	20.52	20.43	21.5	2.5	
50	256QAM	1	1	19.06	19.13	19.09	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	23.15	23.25	23.17	24.0	0.0	
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
35	QPSK	1	1	23.23	23.19	23.12	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	23.18	23.20	23.17	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	23.15	23.33	23.19	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	23.18	23.26	23.10	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	23.25	23.25	23.10	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	23.27	23.32	23.17	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.23	23.27	23.19	24.0	0.0	

n12_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 141500	Power Middle Ch. F. Freq. 141600	Power High Ch. F. Freq. 141700	Tune-up limit (dBm)	MPR (dB)	
Channel				705.5	707.5	708.5			
Frequency (MHz)									
15	PI2 BPSK	1	1	22.86	22.88	22.75			
15	PI2 BPSK	1	40	22.81	22.84	22.83	24.0	0.0	
15	PI2 BPSK	1	77	22.75	22.81	22.74			
15	PI2 BPSK	36	0	22.39	22.54	22.50	23.5	0.5	
15	PI2 BPSK	36	22	22.83	22.91	22.84	24.0	0.0	
15	PI2 BPSK	36	43	22.47	22.51	22.47	23.5	0.5	
15	PI2 BPSK	75	0	22.41	22.52	22.38			
15	QPSK	1	1	22.95	23.03	22.99			
15	QPSK	1	40	22.89	22.86	22.82	24.0	0.0	
15	QPSK	1	77	22.85	22.82	22.81			
15	QPSK	36	0	21.93	21.97	21.89	23.0	1.0	
15	QPSK	36	22	22.76	22.87	22.84	24.0	0.0	
15	QPSK	36	43	21.94	21.96	21.91			
15	QPSK	75	0	21.99	21.92	21.89	23.0	1.0	
15	16QAM	1	1	21.81	21.76	21.68	23.0	1.0	
15	64QAM	1	1	20.17	20.23	20.15	21.5	2.5	
15	256QAM	1	1	18.82	18.84	18.70	19.5	4.5	
Channel				140500	141500	142500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.93	22.96	22.90	24.0	0.0	
Channel				140000	141500	143000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.85	23.01	22.85	24.0	0.0	

n12_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141500	Power Middle Ch. / Freq. 141500	Power High Ch. / Freq. 141700	Tune-up limit (dBm)	MPR (dB)
Channel				706.5	707.5	708.5		
Frequency (MHz)								
15	PI2 BPSK	1	1	22.84	22.93	22.79	24.0	0.0
15	PI2 BPSK	1	40	22.83	22.98	22.95		
15	PI2 BPSK	1	77	22.86	22.89	22.76		
15	PI2 BPSK	36	0	22.56	22.57	22.54	23.5	0.5
15	PI2 BPSK	36	22	22.87	22.96	22.84	24.0	0.0
15	PI2 BPSK	36	43	22.44	22.56	22.54		
15	PI2 BPSK	75	0	22.47	22.58	22.49	23.5	0.5
15	QPSK	1	1	22.93	22.99	22.98		
15	QPSK	1	40	22.90	22.95	22.91	24.0	0.0
15	QPSK	1	77	22.83	22.97	22.92		
15	QPSK	36	0	21.99	22.03	21.92	23.0	1.0
15	QPSK	36	22	22.82	22.91	22.87	24.0	0.0
15	QPSK	36	43	21.94	22.00	21.88		
15	QPSK	75	0	21.88	22.00	21.87	23.0	1.0
15	16QAM	1	1	21.63	21.76	21.66	23.0	1.0
15	64QAM	1	1	20.19	20.28	20.14	21.5	2.5
15	256QAM	1	1	18.78	18.87	18.83	19.5	4.5
Channel				14000	141500	142000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	22.80	22.87	22.87	24.0	0.0
Channel				140000	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	22.92	22.98	22.98	24.0	0.0

n14_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158100	Power Middle Ch. / Freq. 158600	Power High Ch. / Freq. 159000	Tune-up limit (dBm)	MPR (dB)
Channel				703				
Frequency (MHz)								
10	PI2 BPSK	1	1	23.06				
10	PI2 BPSK	1	26	23.10			24.0	0.0
10	PI2 BPSK	1	50	23.02				
10	PI2 BPSK	25	0	22.72			23.5	0.5
10	PI2 BPSK	25	14	23.06			24.0	0.0
10	PI2 BPSK	25	27	22.72			23.5	0.5
10	PI2 BPSK	50	0	22.68				
10	QPSK	1	1	23.13				
10	QPSK	1	26	23.02			24.0	0.0
10	QPSK	1	50	23.10				
10	QPSK	25	0	22.19			23.0	1.0
10	QPSK	25	14	23.06			24.0	0.0
10	QPSK	25	27	22.14			23.0	1.0
10	QPSK	50	0	22.06			23.0	1.0
10	16QAM	1	1	21.82			23.0	1.0
10	64QAM	1	1	20.37			21.5	2.5
10	256QAM	1	1	18.99			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	23.07	23.04	23.01	24.0	0.0

n14_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 158100	Power Middle Ch. / Freq. 158600	Power High Ch. / Freq. 159000	Tune-up limit (dBm)	MPR (dB)
Channel				703				
Frequency (MHz)								
10	PI2 BPSK	1	1	22.85				
10	PI2 BPSK	1	26	22.90			24.0	0.0
10	PI2 BPSK	1	50	22.78				
10	PI2 BPSK	25	0	22.52			23.5	0.5
10	PI2 BPSK	25	14	22.87			24.0	0.0
10	PI2 BPSK	25	27	22.48			23.5	0.5
10	PI2 BPSK	50	0	22.47				
10	QPSK	1	1	22.94				
10	QPSK	1	26	22.86			24.0	0.0
10	QPSK	1	50	22.91				
10	QPSK	25	0	21.97			23.0	1.0
10	QPSK	25	14	22.87			24.0	0.0
10	QPSK	25	27	21.91			23.0	1.0
10	QPSK	50	0	21.86			23.0	1.0
10	16QAM	1	1	21.65			23.0	1.0
10	64QAM	1	1	20.17			21.5	2.5
10	256QAM	1	1	18.78			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	22.80	22.88	22.91	24.0	0.0



n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 374500	Power High Ch. F Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.74	22.85	22.77			
40	PI2 BPSK	1	108	22.82	22.88	22.75	24.0	0.0	
40	PI2 BPSK	1	214	22.81	22.86	22.78			
40	PI2 BPSK	108	0	22.35	22.48	22.34	23.5	0.5	
40	PI2 BPSK	108	54	22.86	23.00	22.85	24.0	0.0	
40	PI2 BPSK	108	108	22.47	22.49	22.36			
40	PI2 BPSK	216	0	22.45	22.46	22.42	23.5	0.5	
40	QPSK	1	1	23.05	23.06	23.03			
40	QPSK	1	108	22.90	23.05	22.92	24.0	0.0	
40	QPSK	1	214	22.93	23.02	23.01			
40	QPSK	108	0	21.91	21.94	21.89	23.0	1.0	
40	QPSK	108	54	22.91	22.98	22.86	24.0	0.0	
40	QPSK	108	108	21.82	21.92	21.79			
40	QPSK	216	0	22.85	22.86	22.83	23.0	1.0	
40	16QAM	1	1	21.58	21.72	21.58	23.0	1.0	
40	64QAM	1	1	20.03	20.18	20.14	21.5	2.5	
40	256QAM	1	1	18.73	18.78	18.69	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.98	22.98	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.00	22.91	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.87	23.00	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.60	18.25	19.05	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.92	23.05	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.99	23.02	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.87	22.95	22.94	24.0	0.0	

n25_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 374500	Power High Ch. F Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.92	22.99	22.97			
40	PI2 BPSK	1	108	23.05	23.10	23.01	24.0	0.0	
40	PI2 BPSK	1	214	23.00	23.07	23.00			
40	PI2 BPSK	108	0	22.58	22.59	22.48	23.5	0.5	
40	PI2 BPSK	108	54	23.11	23.18	23.15	24.0	0.0	
40	PI2 BPSK	108	108	22.63	22.67	22.66			
40	PI2 BPSK	216	0	22.53	22.64	22.53	23.5	0.5	
40	QPSK	1	1	23.17	23.24	23.21			
40	QPSK	1	108	23.05	23.15	23.10	24.0	0.0	
40	QPSK	1	214	22.95	23.09	23.02			
40	QPSK	108	0	21.99	22.05	21.98	23.0	1.0	
40	QPSK	108	54	23.05	23.10	23.03	24.0	0.0	
40	QPSK	108	108	22.06	22.10	22.07			
40	QPSK	216	0	22.05	22.06	22.01	23.0	1.0	
40	16QAM	1	1	21.67	21.79	21.78	23.0	1.0	
40	64QAM	1	1	20.37	20.38	20.37	21.5	2.5	
40	256QAM	1	1	18.89	18.99	18.90	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.15	23.10	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.14	23.18	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.02	23.21	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.12	23.16	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.02	23.15	23.09	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.08	23.21	23.16	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.15	23.19	23.12	24.0	0.0	

n26(FCC)_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 164800	Power Middle Ch. F Freq. 165300	Power High Ch. F Freq. 165800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.91	22.96	22.93			
20	PI2 BPSK	1	53	22.87	22.99	22.87	24.0	0.0	
20	PI2 BPSK	1	104	22.84	22.89	22.75			
20	PI2 BPSK	50	0	22.51	22.60	22.55	23.5	0.5	
20	PI2 BPSK	50	28	23.07	23.10	23.05	24.0	0.0	
20	PI2 BPSK	50	56	22.58	22.60	22.45			
20	PI2 BPSK	100	0	22.50	22.61	22.59	23.5	0.5	
20	QPSK	1	1	23.13	23.22	23.16			
20	QPSK	1	53	23.05	23.18	23.03	24.0	0.0	
20	QPSK	1	104	22.88	23.02	22.91			
20	QPSK	50	0	21.98	22.05	21.92	23.0	1.0	
20	QPSK	50	28	23.00	23.05	23.01	24.0	0.0	
20	QPSK	50	56	21.89	22.01	22.00			
20	QPSK	100	0	21.94	22.01	21.97	23.0	1.0	
20	16QAM	1	1	21.65	21.80	21.70	23.0	1.0	
20	64QAM	1	1	20.29	20.30	20.17	21.5	2.5	
20	256QAM	1	1	18.77	18.92	18.81	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.07	23.07	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16300	16300	16300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16300	16300	16300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	161.5	161.5	161.5	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.11	23.15	23.14	24.0	0.0	



n26(FCC)_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 164800	Power Middle Ch. / Freq. 166300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				624	631.5	639			
Frequency (MHz)				22.82	22.84	22.70			
20	PI2 BPSK	1	1	22.82	22.84	22.70	24.0	0.0	
20	PI2 BPSK	1	53	23.04	23.06	22.91			
20	PI2 BPSK	1	104	22.92	22.98	22.83			
20	PI2 BPSK	50	0	22.42	22.53	22.47	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.04	22.96	24.0	0.0	
20	PI2 BPSK	50	56	22.44	22.54	22.49			
20	PI2 BPSK	100	0	22.41	22.55	22.44	23.5	0.5	
20	QPSK	1	1	23.11	23.17	23.05			
20	QPSK	1	53	23.02	23.09	23.00	24.0	0.0	
20	QPSK	1	104	22.96	23.01	22.94			
20	QPSK	50	0	22.03	22.11	21.97	23.0	1.0	
20	QPSK	50	28	23.00	23.02	22.87	24.0	0.0	
20	QPSK	50	56	21.98	22.02	21.90			
20	QPSK	100	0	22.01	22.04	21.98	23.0	1.0	
20	16QAM	1	1	21.77	21.79	21.76	23.0	1.0	
20	64QAM	1	1	20.40	20.44	20.40	21.5	2.5	
20	256QAM	1	1	18.88	18.89	18.88	19.5	4.5	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.99	23.09	22.99	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.97	23.05	23.04	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				23.04	23.07	22.97	24.0	0.0	
5	QPSK	1	1	23.04	23.07	22.97	24.0	0.0	

n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 461500	Power Middle Ch. / Freq. 462000	Power High Ch. / Freq. 462500	Tune-up limit (dBm)	MPR (dB)	
Channel				2310					
Frequency (MHz)				23.10					
10	PI2 BPSK	1	1	23.10			24.0	0.0	
10	PI2 BPSK	1	26	23.30					
10	PI2 BPSK	1	50	23.18					
10	PI2 BPSK	25	0	22.89			23.5	0.5	
10	PI2 BPSK	25	14	23.26			24.0	0.0	
10	PI2 BPSK	25	27	22.87					
10	PI2 BPSK	50	0	22.86			23.5	0.5	
10	QPSK	1	1	23.32					
10	QPSK	1	26	23.33			24.0	0.0	
10	QPSK	1	50	23.30					
10	QPSK	25	0	22.34			23.0	1.0	
10	QPSK	25	14	22.97			24.0	0.0	
10	QPSK	25	27	22.29					
10	QPSK	50	0	22.31			23.0	1.0	
10	16QAM	1	1	22.10			23.0	1.0	
10	64QAM	1	1	20.56			21.5	2.5	
10	256QAM	1	1	19.16			19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				23.07.5	23.10	23.12.5	24.0	0.0	
5	QPSK	1	1	23.21	23.27	23.23	24.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 345000	Power Middle Ch. / Freq. 345500	Power High Ch. / Freq. 346000	Tune-up limit (dBm)	MPR (dB)	
Channel				1752.5	1745	1757.5			
Frequency (MHz)				22.93	22.95	22.88			
45	PI2 BPSK	1	1	22.93	22.95	22.88	24.0	0.0	
45	PI2 BPSK	1	100	22.90	23.07	23.05			
45	PI2 BPSK	1	240	23.03	23.10	23.00			
45	PI2 BPSK	120	0	22.47	22.81	22.47	23.5	0.5	
45	PI2 BPSK	120	60	22.98	23.10	22.98	24.0	0.0	
45	PI2 BPSK	120	180	22.46	22.59	22.54			
45	PI2 BPSK	240	0	22.51	22.56	22.54	23.5	0.5	
45	QPSK	1	1	23.14	23.17	23.04			
45	QPSK	1	100	22.95	23.07	23.04	24.0	0.0	
45	QPSK	1	240	23.06	23.13	23.03			
45	QPSK	120	0	21.93	22.07	22.06	23.0	1.0	
45	QPSK	120	60	22.97	23.05	23.00	24.0	0.0	
45	QPSK	120	180	21.86	21.99	21.84			
45	QPSK	240	0	21.83	22.07	21.91	23.0	1.0	
45	16QAM	1	1	21.74	21.83	21.68	23.0	1.0	
45	64QAM	1	1	20.17	20.28	20.26	21.5	2.5	
45	256QAM	1	1	18.75	18.90	18.78	19.5	4.5	
Channel				345000	345500	346000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1750	1745	1760	24.0	0.0	
40	QPSK	1	1	23.05	23.14	23.00	24.0	0.0	
Channel				345500	346000	346500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1765	24.0	0.0	
35	QPSK	1	1	23.11	23.13	23.00	24.0	0.0	
Channel				345000	346000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	23.06	23.14	23.03	24.0	0.0	
Channel				345500	346000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0	
25	QPSK	1	1	23.00	23.05	22.90	24.0	0.0	
Channel				344000	345000	346000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1760	24.0	0.0	
20	QPSK	1	1	23.02	23.09	22.99	24.0	0.0	
Channel				343500	346000	346500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	23.12	23.02	22.99	24.0	0.0	
Channel				343000	346000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	23.06	23.13	22.91	24.0	0.0	
Channel				342500	346000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.08	23.13	22.93	24.0	0.0	



n66_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	22.97	22.98	22.94			
45	PI2 BPSK	1	120	23.10	23.18	23.12	24.0	0.0	
45	PI2 BPSK	1	240	23.08	23.15	23.01			
45	PI2 BPSK	120	0	22.51	22.81	22.56	23.5	0.5	
45	PI2 BPSK	120	60	23.11	23.23	23.18	24.0	0.0	
45	PI2 BPSK	120	120	22.54	22.85	22.94			
45	PI2 BPSK	240	0	22.43	22.59	22.49			
45	QPSK	1	1	23.25	23.26	23.21			
45	QPSK	1	120	23.21	23.24	23.17	24.0	0.0	
45	QPSK	1	240	23.15	23.17	23.06			
45	QPSK	120	0	21.99	22.09	22.04	23.0	1.0	
45	QPSK	120	60	23.13	23.14	22.99	24.0	0.0	
45	QPSK	120	120	21.98	22.11	22.00			
45	QPSK	240	0	21.89	22.03	21.94	23.0	1.0	
45	16QAM	1	1	21.69	21.81	21.86	23.0	1.0	
45	64QAM	1	1	20.27	20.38	20.36	21.5	2.5	
45	256QAM	1	1	18.91	18.99	18.85	19.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.19	23.20	23.13	24.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.14	23.23	23.13	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.22	23.17	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.19	23.13	23.18	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.22	23.16	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.19	23.11	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.22	23.24	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.22	23.14	23.20	24.0	0.0	

n70_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1		23.00				
15	PI2 BPSK	1	40		23.02		24.0	0.0	
15	PI2 BPSK	1	77		22.96				
15	PI2 BPSK	36	0		22.85		23.5	0.5	
15	PI2 BPSK	36	22		23.03		24.0	0.0	
15	PI2 BPSK	36	43		22.85		23.5	0.5	
15	PI2 BPSK	75	0		22.85				
15	QPSK	1	1		23.04				
15	QPSK	1	40		23.20		24.0	0.0	
15	QPSK	1	77		23.04				
15	QPSK	36	0		22.10		23.0	1.0	
15	QPSK	36	22		23.11		24.0	0.0	
15	QPSK	36	43		22.04		23.0	1.0	
15	QPSK	75	0		22.85		23.0	1.0	
15	16QAM	1	1		21.85		23.0	1.0	
15	64QAM	1	1		20.33		21.5	2.5	
15	256QAM	1	1		18.96		19.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.06	23.16	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.14	23.07	24.0	0.0	

n70_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1		22.99				
15	PI2 BPSK	1	40		23.09		24.0	0.0	
15	PI2 BPSK	1	77		23.16				
15	PI2 BPSK	36	0		22.87		23.5	0.5	
15	PI2 BPSK	36	22		23.12		24.0	0.0	
15	PI2 BPSK	36	43		22.87		23.5	0.5	
15	PI2 BPSK	75	0		22.87				
15	QPSK	1	1		23.27				
15	QPSK	1	40		23.22		24.0	0.0	
15	QPSK	1	77		23.21				
15	QPSK	36	0		22.05		23.0	1.0	
15	QPSK	36	22		23.16		24.0	0.0	
15	QPSK	36	43		22.14		23.0	1.0	
15	QPSK	75	0		22.86		23.0	1.0	
15	16QAM	1	1		21.83		23.0	1.0	
15	64QAM	1	1		20.31		21.5	2.5	
15	256QAM	1	1		18.94		19.5	4.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.24	23.15	23.26	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.24	23.19	23.18	24.0	0.0	

n71_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq 136100	Power Middle Ch. F Freq 136100	Power High Ch. F Freq 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	P1/2 BPSK	1	1	22.77	22.77	22.77		
35	P1/2 BPSK	1	90	22.82	22.82	22.82	24.0	0.0
35	P1/2 BPSK	1	186	22.70	22.70	22.70		
35	P1/2 BPSK	90	0	22.41	22.41	22.41	23.5	0.5
35	P1/2 BPSK	90	45	22.83	22.83	22.83	24.0	0.0
35	P1/2 BPSK	90	90	22.41	22.41	22.41	23.5	0.5
35	P1/2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.96	22.96	22.96		
35	QPSK	1	90	22.92	22.92	22.92	24.0	0.0
35	QPSK	1	186	22.83	22.83	22.83		
35	QPSK	90	0	21.89	21.89	21.89	23.0	1.0
35	QPSK	90	45	22.87	22.87	22.87	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.86	21.86	21.86	23.0	1.0
35	16QAM	1	1	21.81	21.81	21.81	23.0	1.0
35	64QAM	1	1	20.09	20.09	20.09	21.5	2.5
35	256QAM	1	1	18.69	18.69	18.69	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	693.5	693	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	137100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.77	22.97	22.81	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	137600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.87	22.83	22.91	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	133100	133100	133100	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	670.5	680.5	690.5	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.78	22.84	22.88	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	133600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	693.5	693	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.88	22.81	22.85	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	133100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	662.5	680.5	695.5	24.0	0.0

n71_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq 136100	Power Middle Ch. F Freq 136100	Power High Ch. F Freq 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	P1/2 BPSK	1	1	22.87	22.87	22.87		
35	P1/2 BPSK	1	90	22.86	22.86	22.86	24.0	0.0
35	P1/2 BPSK	1	186	22.81	22.81	22.81		
35	P1/2 BPSK	90	0	22.43	22.43	22.43	23.5	0.5
35	P1/2 BPSK	90	45	22.94	22.94	22.94	24.0	0.0
35	P1/2 BPSK	90	90	22.37	22.37	22.37	23.5	0.5
35	P1/2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.99	22.99	22.99		
35	QPSK	1	90	22.89	22.89	22.89	24.0	0.0
35	QPSK	1	186	22.79	22.79	22.79		
35	QPSK	90	0	21.92	21.92	21.92	23.0	1.0
35	QPSK	90	45	22.88	22.88	22.88	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.85	21.85	21.85	23.0	1.0
35	16QAM	1	1	21.82	21.82	21.82	23.0	1.0
35	64QAM	1	1	20.15	20.15	20.15	21.5	2.5
35	256QAM	1	1	18.75	18.75	18.75	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	693.5	693	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	137100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.91	22.96	22.89	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	137600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.97	22.94	22.86	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	133600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	693.5	693	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.91	22.93	22.96	24.0	0.0



FCC_n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.95	23.05	22.97			
100	PI2 BPSK	1	137	23.07	23.11	23.03	24.0	0.0	
100	PI2 BPSK	1	271	23.00	23.13	23.07			
100	PI2 BPSK	135	9	22.87	23.01	22.96	24.0	0.0	
100	PI2 BPSK	135	69	22.94	23.09	22.94	24.0	0.0	
100	PI2 BPSK	135	138	23.00	23.12	23.07	24.0	0.0	
100	PI2 BPSK	270	0	22.97	23.06	23.06			
100	QPSK	1	1	23.93	23.15	23.05			
100	QPSK	1	137	23.10	23.12	23.05	24.0	0.0	
100	QPSK	1	271	22.93	23.08	22.96			
100	QPSK	135	0	23.01	23.07	23.06			
100	QPSK	135	69	23.03	23.15	22.95	24.0	0.0	
100	QPSK	135	138	23.03	23.05	22.94	24.0	0.0	
100	QPSK	270	0	23.11	23.12	23.05	24.0	0.0	
100	16QAM	1	1	22.87	22.95	22.91	24.0	0.0	
100	64QAM	1	1	22.93	22.96	22.94	24.0	0.0	
100	256QAM	1	1	21.93	22.08	22.00	22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.00	23.13	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.06	23.06	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.10	23.06	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.07	23.05	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.02	23.10	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	23.09	23.12	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.13	23.16	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.07	23.07	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.10	23.05	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.11	23.07	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.07	23.17	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.03	23.14	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.04	23.09	23.04	24.0	0.0	

FCC_n41(HPUE) Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	26.17	26.21	26.07			
100	PI2 BPSK	1	137	26.06	26.07	25.92	27.0	0.0	
100	PI2 BPSK	1	271	26.04	26.19	26.09			
100	PI2 BPSK	135	9	25.75	25.86	25.77	26.5	0.5	
100	PI2 BPSK	135	69	26.00	26.03	26.00	27.0	0.0	
100	PI2 BPSK	135	138	25.86	25.72	25.68	26.5	0.5	
100	PI2 BPSK	270	0	25.87	25.71	25.70			
100	QPSK	1	1	26.15	26.26	26.14			
100	QPSK	1	137	26.18	26.23	26.09	27.0	0.0	
100	QPSK	1	271	26.07	26.17	26.03			
100	QPSK	135	0	25.20	25.29	25.17	27.0	0.0	
100	QPSK	135	69	25.25	25.35	25.11	27.0	0.0	
100	QPSK	135	138	25.29	25.30	25.28	27.0	0.0	
100	QPSK	270	0	25.12	25.23	25.19	26.0	1.0	
100	16QAM	1	1	24.89	24.88	24.84	26.0	1.0	
100	64QAM	1	1	23.44	23.52	23.43	24.5	2.5	
100	256QAM	1	1	22.01	22.11	22.09	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.15	26.23	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.12	26.13	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.12	26.25	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.18	26.25	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.13	26.13	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	26.10	26.16	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.22	26.25	26.03	27.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	26.18	26.18	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.16	26.12	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.17	26.24	26.12	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.18	26.22	26.07	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.13	26.15	26.13	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.12	26.15	26.13	27.0	0.0	

FCC_n41_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.07	23.20	23.09			
100	PI2 BPSK	1	137	23.09	23.19	23.04	24.0	0.0	
100	PI2 BPSK	1	271	23.10	23.16	23.05			
100	PI2 BPSK	135	9	23.14	23.17	23.02	24.0	0.0	
100	PI2 BPSK	135	69	23.11	23.17	23.12	24.0	0.0	
100	PI2 BPSK	135	138	23.08	23.16	23.02	24.0	0.0	
100	PI2 BPSK	270	0	23.12	23.23	23.17			
100	QPSK	1	1	23.12	23.26	23.11			
100	QPSK	1	137	23.14	23.20	23.15	24.0	0.0	
100	QPSK	1	271	23.10	23.16	23.08			
100	QPSK	135	0	23.10	23.20	23.18			
100	QPSK	135	69	23.11	23.22	23.11	24.0	0.0	
100	QPSK	135	138	23.07	23.20	23.17	24.0	0.0	
100	QPSK	270	0	23.07	23.16	23.07	24.0	0.0	
100	16QAM	1	1	22.88	22.84	22.83	24.0	0.0	
100	64QAM	1	1	22.79	22.82	22.86	24.0	0.0	
100	256QAM	1	1	21.91	22.05	21.90	22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.12	23.18	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.19	23.19	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.10	23.22	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.14	23.23	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.11	23.16	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
45	QPSK	1	1	23.09	23.11	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.14	23.14	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	23.13	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.20	23.12	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.19	23.21	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.13	23.17	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.03	23.20	23.18	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.17	23.15	23.12	24.0	0.0	





Appendix E

FCC_n41_Ant 7. Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), MPR (dB). Rows include Channel, Frequency (MHz), and QPSK entries for various RB sizes and offsets.

FCC_n41(HPU)E_Ant 7. Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), MPR (dB). Rows include Channel, Frequency (MHz), and QPSK entries for various RB sizes and offsets.

n48_Ant 5. Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), MPR (dB). Rows include Channel, Frequency (MHz), and QPSK entries for various RB sizes and offsets.

Part27Q_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.53					
100	PI2 BPSK	1	137	25.69			27.0	0.0	
100	PI2 BPSK	1	271	25.70					
100	PI2 BPSK	135	9	25.10			26.5	0.5	
100	PI2 BPSK	135	69	25.65			27.0	0.0	
100	PI2 BPSK	135	138	25.15					
100	PI2 BPSK	270	0	25.14			26.5	0.5	
100	QPSK	1	1	25.69					
100	QPSK	1	137	25.68			27.0	0.0	
100	QPSK	1	271	25.69					
100	QPSK	135	9	24.58			27.0	0.0	
100	QPSK	135	69	25.50					
100	QPSK	135	138	24.57					
100	QPSK	270	0	24.48			26.0	1.0	
100	16QAM	1	1	24.25			26.0	1.0	
100	64QAM	1	1	22.77			24.5	2.5	
100	256QAM	1	1	21.33			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.92	24.99	25.04	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.61	25.69	25.69	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.68	25.61	25.61	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.62	25.56	25.56	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.60	25.57	25.60	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.62	25.61	25.56	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.67	25.56	25.65	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.61	25.60	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.56	25.64	25.64	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.62	25.68	25.67	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.65	25.63	25.62	27.0	0.0	

Part27Q_n78(HPUE)_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.43					
100	PI2 BPSK	1	137	25.57			27.0	0.0	
100	PI2 BPSK	1	271	25.58					
100	PI2 BPSK	135	9	25.04			26.5	0.5	
100	PI2 BPSK	135	69	25.58			27.0	0.0	
100	PI2 BPSK	135	138	24.99					
100	PI2 BPSK	270	0	24.68			26.5	0.5	
100	QPSK	1	1	25.62					
100	QPSK	1	137	25.39			27.0	0.0	
100	QPSK	1	271	25.58					
100	QPSK	135	9	24.41			27.0	0.0	
100	QPSK	135	69	25.45					
100	QPSK	135	138	24.40					
100	QPSK	270	0	24.32			26.0	1.0	
100	16QAM	1	1	24.11			26.0	1.0	
100	64QAM	1	1	22.62			24.5	2.5	
100	256QAM	1	1	21.09			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.92	24.92	24.92	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.55	25.53	25.49	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.56	25.53	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.55	25.56	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.40	25.54	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.55	25.59	25.56	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.51	25.56	25.57	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.50	25.57	25.57	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.57	25.54	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.63	25.59	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.61	25.61	25.56	27.0	0.0	

Part27Q_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.61					
100	PI2 BPSK	1	137	22.66			24.0	0.0	
100	PI2 BPSK	1	271	22.69					
100	PI2 BPSK	135	9	22.60			24.0	0.0	
100	PI2 BPSK	135	69	22.66			24.0	0.0	
100	PI2 BPSK	135	138	22.67					
100	PI2 BPSK	270	0	22.63			24.0	0.0	
100	QPSK	1	1	22.52					
100	QPSK	1	137	22.65			24.0	0.0	
100	QPSK	1	271	22.71					
100	QPSK	135	9	22.47			24.0	0.0	
100	QPSK	135	69	22.52					
100	QPSK	135	138	22.51					
100	QPSK	270	0	22.43			24.0	0.0	
100	16QAM	1	1	22.31			24.0	0.0	
100	64QAM	1	1	22.29			24.0	0.0	
100	256QAM	1	1	21.41			22.5	1.5	
Channel									
Frequency (MHz)									
633000	633332	633666					Tune-up limit (dBm)	MPR (dB)	
3495	3499.98	3504.99							
90	QPSK	1	1	22.62	22.61	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
63098	63332	63400					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3510							
80	QPSK	1	1	22.63	22.63	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63234	63332	63432					Tune-up limit (dBm)	MPR (dB)	
3468.01	3469.98	3514.98							
70	QPSK	1	1	22.61	22.54	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
63000	63332	63466					Tune-up limit (dBm)	MPR (dB)	
3484	3489.98	3518.99							
60	QPSK	1	1	22.49	22.50	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
63168	63332	63500					Tune-up limit (dBm)	MPR (dB)	
3479.02	3499.98	3505							
50	QPSK	1	1	22.50	22.53	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63134	63332	63532					Tune-up limit (dBm)	MPR (dB)	
3470.01	3469.98	3529.98							
40	QPSK	1	1	22.50	22.57	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
63100	63332	63566					Tune-up limit (dBm)	MPR (dB)	
3466	3469.98	3534.99							
30	QPSK	1	1	22.54	22.58	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
63034	63332	63632					Tune-up limit (dBm)	MPR (dB)	
3462.01	3469.98	3537.98							
25	QPSK	1	1	22.45	22.50	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
63068	63332	63600					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3540							
20	QPSK	1	1	22.56	22.51	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
63050	63332	63736					Tune-up limit (dBm)	MPR (dB)	
3457.5	3469.98	3542.49							
15	QPSK	1	1	22.54	22.53	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
63034	63332	63632					Tune-up limit (dBm)	MPR (dB)	
3465.01	3469.98	3544.98							
10	QPSK	1	1	22.60	22.56	22.56	24.0	0.0	

Part27O_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.71					
100	PI2 BPSK	1	137	22.70			24.0	0.0	
100	PI2 BPSK	1	271	22.68					
100	PI2 BPSK	135	9	22.72			24.0	0.0	
100	PI2 BPSK	135	69	22.71			24.0	0.0	
100	PI2 BPSK	135	138	22.69					
100	PI2 BPSK	270	0	22.73			24.0	0.0	
100	QPSK	1	1	22.77					
100	QPSK	1	137	22.74			24.0	0.0	
100	QPSK	1	271	22.73					
100	QPSK	135	9	22.69			24.0	0.0	
100	QPSK	135	69	22.77					
100	QPSK	135	138	22.72					
100	QPSK	270	0	22.64			24.0	0.0	
100	16QAM	1	1	22.45			24.0	0.0	
100	64QAM	1	1	22.39			24.0	0.0	
100	256QAM	1	1	21.45			22.5	1.5	
Channel									
Frequency (MHz)									
646668	650000	650332					Tune-up limit (dBm)	MPR (dB)	
3745.02	3750	3754.98							
90	QPSK	1	1	22.73	22.71	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
646334	650000	650066					Tune-up limit (dBm)	MPR (dB)	
3740.01	3750	3759.99							
80	QPSK	1	1	22.71	22.61	22.59	24.0	0.0	
Channel									
Frequency (MHz)									
646000	650000	650100					Tune-up limit (dBm)	MPR (dB)	
3735	3750	3765							
70	QPSK	1	1	22.63	22.67	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
648668	650000	651332					Tune-up limit (dBm)	MPR (dB)	
3761.02	3760	3769.98							
60	QPSK	1	1	22.69	22.56	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
648334	650000	651666					Tune-up limit (dBm)	MPR (dB)	
3725.01	3750	3774.99							
50	QPSK	1	1	22.72	22.58	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
648000	650000	652000					Tune-up limit (dBm)	MPR (dB)	
3720	3750	3780							
40	QPSK	1	1	22.70	22.69	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
647668	650000	652332					Tune-up limit (dBm)	MPR (dB)	
3715.02	3750	3784.98							
30	QPSK	1	1	22.60	22.66	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3710.01	3750	3789.99							
20	QPSK	1	1	22.66	22.56	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	652900					Tune-up limit (dBm)	MPR (dB)	
3712.5	3750	3791.5							
25	QPSK	1	1	22.69	22.64	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3710.01	3750	3789.99							
15	QPSK	1	1	22.63	22.64	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)	
3705	3750	3785							
10	QPSK	1	1	22.61	22.61	22.55	24.0	0.0	



Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.49					
100	PI2 BPSK	1	137	25.57			26.5	0.0	
100	PI2 BPSK	1	271	25.51					
100	PI2 BPSK	135	9	25.50			26.0	0.5	
100	PI2 BPSK	135	69	25.52			26.5	0.0	
100	PI2 BPSK	135	138	25.50					
100	PI2 BPSK	270	0	25.52			26.0	0.5	
100	QPSK	1	1	25.49					
100	QPSK	1	137	25.47			26.5	0.0	
100	QPSK	1	271	25.49					
100	QPSK	135	0	24.86					
100	QPSK	135	69	25.45			26.5	0.0	
100	QPSK	135	138	24.91					
100	QPSK	270	0	24.81			25.5	1.0	
100	16QAM	1	1	24.54			25.5	1.0	
100	64QAM	1	1	23.07			24.0	2.5	
100	256QAM	1	1	21.72			22.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.34	25.41	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.37	25.34	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.34	25.38	25.29	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.37	25.36	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.30	25.40	25.32	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.30	25.44	25.38	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.24	25.40	25.36	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.37	25.39	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.38	25.32	25.29	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.24	25.41	25.41	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.38	25.43	25.38	26.5	0.0	

Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.56					
100	PI2 BPSK	1	137	25.58			26.5	0.0	
100	PI2 BPSK	1	271	25.41					
100	PI2 BPSK	135	9	25.61			26.0	0.5	
100	PI2 BPSK	135	69	25.59			26.5	0.0	
100	PI2 BPSK	135	138	25.63					
100	PI2 BPSK	270	0	25.61			26.0	0.5	
100	QPSK	1	1	25.56					
100	QPSK	1	137	25.49			26.5	0.0	
100	QPSK	1	271	25.30					
100	QPSK	135	0	25.08					
100	QPSK	135	69	25.07			26.5	0.0	
100	QPSK	135	138	25.10					
100	QPSK	270	0	24.87			25.5	1.0	
100	16QAM	1	1	24.73			25.5	1.0	
100	64QAM	1	1	23.07			24.0	2.5	
100	256QAM	1	1	21.54			22.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.47	25.59	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.49	25.54	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.42	25.62	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.41	25.56	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.42	25.62	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.37	25.49	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.40	25.59	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.50	25.50	25.41	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.38	25.55	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.46	25.56	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.48	25.50	25.38	26.5	0.0	



Part27Q_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.03					
100	PI2 BPSK	1	137	19.96			21.0	0.0	
100	PI2 BPSK	1	271	20.01					
100	PI2 BPSK	135	9	20.05			21.0	0.0	
100	PI2 BPSK	135	69	19.97			21.0	0.0	
100	PI2 BPSK	135	138	20.03					
100	PI2 BPSK	270	0	19.96			21.0	0.0	
100	QPSK	1	1	20.13					
100	QPSK	1	137	20.13			21.0	0.0	
100	QPSK	1	271	20.07					
100	QPSK	135	9	20.09					
100	QPSK	135	69	20.10			21.0	0.0	
100	QPSK	135	138	20.00					
100	QPSK	270	0	20.06			21.0	0.0	
100	16QAM	1	1	20.08			21.0	0.0	
100	64QAM	1	1	20.04			21.0	0.0	
100	256QAM	1	1	20.13			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.11	20.05	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.13	20.01	20.04	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.08	20.12	20.06	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.06	20.06	20.06	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.12	20.10	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.04	20.07	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.06	20.09	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.13	20.01	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.08	20.06	20.10	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.06	20.13	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.03	20.13	20.12	21.0	0.0	

Part27O_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.96					
100	PI2 BPSK	1	137	19.83			21.0	0.0	
100	PI2 BPSK	1	271	19.96					
100	PI2 BPSK	135	9	20.02			21.0	0.0	
100	PI2 BPSK	135	69	19.96			21.0	0.0	
100	PI2 BPSK	135	138	19.89					
100	PI2 BPSK	270	0	19.83			21.0	0.0	
100	QPSK	1	1	20.07					
100	QPSK	1	137	20.03			21.0	0.0	
100	QPSK	1	271	19.96					
100	QPSK	135	9	20.00					
100	QPSK	135	69	20.07			21.0	0.0	
100	QPSK	135	138	19.91					
100	QPSK	270	0	20.04			21.0	0.0	
100	16QAM	1	1	20.00			21.0	0.0	
100	64QAM	1	1	19.99			21.0	0.0	
100	256QAM	1	1	20.05			19.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.01	20.07	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.98	20.07	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.98	20.00	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.00	19.97	20.07	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.04	20.03	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.05	20.06	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.04	19.94	19.98	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.02	19.99	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.04	20.04	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.94	20.08	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.96	20.04	20.02	21.0	0.0	



Part27Q_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.99	20.03				
100	PI2 BPSK	1	137	19.96	19.96		21.0	0.0	
100	PI2 BPSK	1	271	20.01	20.01				
100	PI2 BPSK	135	9	20.05	20.05		20.5	0.5	
100	PI2 BPSK	135	69	19.97	19.97		21.0	0.0	
100	PI2 BPSK	135	138	20.03	20.03				
100	PI2 BPSK	270	0	19.98	19.98		20.5	0.5	
100	QPSK	1	1	20.07	20.07				
100	QPSK	1	137	20.13	20.13		21.0	0.0	
100	QPSK	1	271	20.07	20.07				
100	QPSK	135	9	20.09	20.09				
100	QPSK	135	69	20.10	20.10		21.0	0.0	
100	QPSK	135	138	20.06	20.06				
100	QPSK	270	0	20.08	20.08		20.0	1.0	
100	16QAM	1	1	20.08	20.08		20.0	1.0	
100	64QAM	1	1	20.04	20.04		16.5	2.5	
100	256QAM	1	1	20.13	20.13		16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.11	20.05	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.13	20.01	20.04	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.08	20.12	20.06	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.06	20.06	20.06	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.12	20.10	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.04	20.07	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.06	20.09	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.13	20.01	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.08	20.06	20.10	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.08	20.13	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.03	20.13	20.12	21.0	0.0	

Part27O_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.98	19.83				
100	PI2 BPSK	1	137	19.86	19.86		21.0	0.0	
100	PI2 BPSK	1	271	20.01	20.01				
100	PI2 BPSK	135	9	20.02	20.02		20.5	0.5	
100	PI2 BPSK	135	69	19.96	19.96		21.0	0.0	
100	PI2 BPSK	135	138	19.89	19.89				
100	PI2 BPSK	270	0	19.83	19.83		20.5	0.5	
100	QPSK	1	1	20.07	20.07				
100	QPSK	1	137	20.03	20.03		21.0	0.0	
100	QPSK	1	271	19.96	19.96				
100	QPSK	135	9	20.09	20.09				
100	QPSK	135	69	20.07	20.07		21.0	0.0	
100	QPSK	135	138	19.91	19.91				
100	QPSK	270	0	20.04	20.04		20.0	1.0	
100	16QAM	1	1	20.00	20.00		20.0	1.0	
100	64QAM	1	1	20.04	19.99		16.5	2.5	
100	256QAM	1	1	20.05	20.05		16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.03	20.07	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.98	20.07	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.98	20.00	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.00	19.97	20.07	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.04	20.03	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.05	20.06	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.04	19.94	19.98	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.02	19.99	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.04	20.04	20.08	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.94	20.08	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.96	20.04	20.02	21.0	0.0	



Part27Q_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.51					
100	PI2 BPSK	1	137	20.54			21.5	0.0	
100	PI2 BPSK	1	271	20.56					
100	PI2 BPSK	135	9	20.56			21.5	0.0	
100	PI2 BPSK	135	69	20.52					
100	PI2 BPSK	135	138	20.58					
100	PI2 BPSK	270	0	20.60			21.5	0.0	
100	QPSK	1	1	20.52					
100	QPSK	1	137	20.55			21.5	0.0	
100	QPSK	1	271	20.48					
100	QPSK	135	9	20.62					
100	QPSK	135	69	20.60			21.5	0.0	
100	QPSK	135	138	20.54					
100	QPSK	270	0	20.56			21.5	0.0	
100	16QAM	1	1	20.54			21.5	0.0	
100	64QAM	1	1	20.49			21.5	0.0	
100	256QAM	1	1	20.57			21.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.43	20.52	20.62	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.42	20.60	20.58	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.44	20.57	20.51	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.35	20.53	20.49	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.34	20.57	20.60	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.48	20.53	20.51	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.36	20.58	20.54	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.45	20.51	20.55	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.47	20.56	20.57	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.42	20.47	20.59	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.35	20.49	20.58	21.5	0.0	

Part27O_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.66					
100	PI2 BPSK	1	137	20.59			21.5	0.0	
100	PI2 BPSK	1	271	20.46					
100	PI2 BPSK	135	9	20.61			21.5	0.0	
100	PI2 BPSK	135	69	20.64					
100	PI2 BPSK	135	138	20.65					
100	PI2 BPSK	270	0	20.66			21.5	0.0	
100	QPSK	1	1	20.70					
100	QPSK	1	137	20.65			21.5	0.0	
100	QPSK	1	271	20.60					
100	QPSK	135	9	20.58					
100	QPSK	135	69	20.65			21.5	0.0	
100	QPSK	135	138	20.59					
100	QPSK	270	0	20.62			21.5	0.0	
100	16QAM	1	1	20.64			21.5	0.0	
100	64QAM	1	1	20.64			21.5	0.0	
100	256QAM	1	1	20.59			21.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.52	20.56	20.55	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.49	20.44	20.46	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.53	20.44	20.46	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.44	20.52	20.51	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.52	20.50	20.49	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.54	20.48	20.43	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.49	20.55	20.48	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.45	20.47	20.44	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.52	20.49	20.42	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.48	20.42	20.40	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.44	20.54	20.52	21.5	0.0	



Part27Q_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.51					
100	PI2 BPSK	1	137	20.54			21.5	0.0	
100	PI2 BPSK	1	271	20.56					
100	PI2 BPSK	135	9	20.56			21.5	0.0	
100	PI2 BPSK	135	69	20.52					
100	PI2 BPSK	135	138	20.58					
100	PI2 BPSK	270	0	20.60			21.5	0.0	
100	QPSK	1	1	20.52					
100	QPSK	1	137	20.55			21.5	0.0	
100	QPSK	1	271	20.48					
100	QPSK	135	9	20.62					
100	QPSK	135	69	20.60			21.5	0.0	
100	QPSK	135	138	20.54					
100	QPSK	270	0	20.56			21.5	0.0	
100	16QAM	1	1	20.54					
100	16QAM	1	1	20.49			21.5	0.0	
100	256QAM	1	1	20.57					
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.43	20.52	20.62	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.42	20.60	20.58	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.44	20.57	20.51	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.35	20.53	20.49	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.34	20.57	20.60	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.48	20.53	20.51	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.36	20.58	20.54	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.45	20.51	20.55	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.47	20.56	20.57	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.42	20.47	20.59	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.35	20.49	20.58	21.5	0.0	

Part27O_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.66					
100	PI2 BPSK	1	137	20.59			21.5	0.0	
100	PI2 BPSK	1	271	20.56					
100	PI2 BPSK	135	9	20.61			21.5	0.0	
100	PI2 BPSK	135	69	20.64					
100	PI2 BPSK	135	138	20.65					
100	PI2 BPSK	270	0	20.66			21.5	0.0	
100	QPSK	1	1	20.70					
100	QPSK	1	137	20.65			21.5	0.0	
100	QPSK	1	271	20.60					
100	QPSK	135	9	20.58					
100	QPSK	135	69	20.65			21.5	0.0	
100	QPSK	135	138	20.59					
100	QPSK	270	0	20.62			21.5	0.0	
100	16QAM	1	1	20.64					
100	16QAM	1	1	20.64			21.5	0.0	
100	256QAM	1	1	20.59					
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.59	20.56	20.55	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.49	20.44	20.46	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.53	20.44	20.46	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.44	20.52	20.51	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.52	20.50	20.49	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.54	20.48	20.43	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.49	20.55	20.48	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.45	20.47	20.44	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.52	20.49	20.42	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.48	20.42	20.40	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.44	20.54	20.52	21.5	0.0	

n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 376000	Power High Ch. Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	16.22	16.35	16.16			
40	PI2 BPSK	1	108	16.26	16.25	16.22	17.5	0.0	
40	PI2 BPSK	1	214	16.31	16.37	16.12			
40	PI2 BPSK	108	0	16.32	16.25	16.23	17.5	0.0	
40	PI2 BPSK	108	54	16.25	16.37	16.20	17.5	0.0	
40	PI2 BPSK	108	108	16.29	16.24	16.13			
40	PI2 BPSK	216	0	16.30	16.25	16.23	17.5	0.0	
40	QPSK	1	1	16.46	16.51	16.47			
40	QPSK	1	108	16.38	16.45	16.35	17.5	0.0	
40	QPSK	1	214	16.35	16.47	16.35			
40	QPSK	108	0	16.43	16.38	16.33	17.5	0.0	
40	QPSK	108	54	16.44	16.48	16.41	17.5	0.0	
40	QPSK	108	108	16.38	16.40	16.34	17.5	0.0	
40	QPSK	216	0	16.40	16.43	16.37			
40	16QAM	1	1	16.38	16.38	16.35	17.5	0.0	
40	64QAM	1	1	16.46	16.42	16.38	17.5	0.0	
40	256QAM	1	1	16.34	16.41	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.37	16.38	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.34	16.47	16.41	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.39	16.48	16.41	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.39	16.43	16.33	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.41	16.49	16.37	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.45	16.50	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.33	16.41	16.40	17.5	0.0	

Reduced Power Mode for ECI7									
n2_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 376000	Power High Ch. Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.82	14.93	14.82			
40	PI2 BPSK	1	108	14.83	15.00	14.79	16.0	0.0	
40	PI2 BPSK	1	214	14.85	14.98	14.85			
40	PI2 BPSK	108	0	14.83	14.96	14.81	16.0	0.0	
40	PI2 BPSK	108	54	14.86	14.91	14.82	16.0	0.0	
40	PI2 BPSK	108	108	14.86	14.91	14.77			
40	PI2 BPSK	216	0	14.84	14.95	14.88	16.0	0.0	
40	QPSK	1	1	15.14	15.16	15.13			
40	QPSK	1	108	15.09	15.07	15.10	16.0	0.0	
40	QPSK	1	214	15.03	15.09	15.07			
40	QPSK	108	0	15.05	15.11	15.04	16.0	0.0	
40	QPSK	108	54	15.09	15.13	15.06	16.0	0.0	
40	QPSK	108	108	14.99	15.10	15.02			
40	QPSK	216	0	15.06	15.08	15.07	16.0	0.0	
40	16QAM	1	1	15.07	15.08	15.12	16.0	0.0	
40	64QAM	1	1	15.09	15.06	15.02	16.0	0.0	
40	256QAM	1	1	15.09	15.13	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	15.06	15.01	14.98	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.03	15.12	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.10	15.13	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.05	15.12	14.98	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.01	15.14	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.01	15.01	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.08	15.07	15.11	16.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 168800	Power Middle Ch. Freq. 167800	Power High Ch. Freq. 169800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.14	21.30	21.17			
20	PI2 BPSK	1	53	21.08	21.23	21.18	22.5	0.0	
20	PI2 BPSK	1	104	21.16	21.24	21.14			
20	PI2 BPSK	50	0	21.03	21.22	21.06	22.5	0.0	
20	PI2 BPSK	50	28	21.13	21.23	21.12	22.5	0.0	
20	PI2 BPSK	50	56	21.07	21.22	21.18			
20	PI2 BPSK	100	0	21.08	21.17	21.07	22.5	0.0	
20	QPSK	1	1	21.50	21.57	21.46			
20	QPSK	1	53	21.36	21.48	21.26	22.5	0.0	
20	QPSK	1	104	21.39	21.48	21.32			
20	QPSK	50	0	21.43	21.39	21.28	22.5	0.0	
20	QPSK	50	28	21.46	21.55	21.44	22.5	0.0	
20	QPSK	50	56	21.42	21.46	21.35			
20	QPSK	100	0	21.42	21.45	21.32	22.5	0.0	
20	16QAM	1	1	21.33	21.50	21.31	22.5	0.0	
20	64QAM	1	1	20.22	20.26	20.17	21.5	1.0	
20	256QAM	1	1	18.82	18.90	18.75	19.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.45	21.47	21.40	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.45	21.49	21.43	22.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.39	21.43	21.32	22.5	0.0	

n12_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 141500	Power Middle Ch. / Freq. 141500	Power High Ch. / Freq. 141700	Tune-up limit (dBm)	MPR (dB)
Channel				706.5	707.5	706.5		
Frequency (MHz)								
15	PI2 BPSK	1	1	20.22	20.42	20.19	21.5	0.0
15	PI2 BPSK	1	40	20.32	20.32	20.22		
15	PI2 BPSK	1	77	20.29	20.30	20.19		
15	PI2 BPSK	36	0	20.22	20.29	20.16	21.5	0.0
15	PI2 BPSK	36	22	20.30	20.29	20.22		
15	PI2 BPSK	36	43	20.21	20.33	20.20	21.5	0.0
15	PI2 BPSK	75	0	20.32	20.30	20.17		
15	QPSK	1	1	20.36	20.54	20.44	21.5	0.0
15	QPSK	1	40	20.34	20.45	20.43		
15	QPSK	1	77	20.40	20.43	20.37		
15	QPSK	36	0	20.30	20.40	20.36	21.5	0.0
15	QPSK	36	22	20.36	20.44	20.42		
15	QPSK	36	43	20.35	20.41	20.39	21.5	0.0
15	QPSK	75	0	20.34	20.37	20.35		
15	16QAM	1	1	20.38	20.44	20.35	21.5	0.0
15	16QAM	1	1	20.19	20.28	20.14	21.5	0.0
15	256QAM	1	1	18.78	18.87	18.83	19.0	2.5
Channel				14000	141500	142000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	20.32	20.51	20.30	21.5	0.0
Channel				14000	141500	142000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	20.44	20.51	20.29	21.5	0.0

n14_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 156000	Power Middle Ch. / Freq. 156000	Power High Ch. / Freq. 156000	Tune-up limit (dBm)	MPR (dB)
Channel				703				
Frequency (MHz)								
10	PI2 BPSK	1	1	23.06			24.0	0.0
10	PI2 BPSK	1	26	23.10				
10	PI2 BPSK	1	50	23.02				
10	PI2 BPSK	25	0	22.72			23.5	0.5
10	PI2 BPSK	25	14	23.06			24.0	0.0
10	PI2 BPSK	25	27	22.72			23.5	0.5
10	PI2 BPSK	50	0	22.68				
10	QPSK	1	1	23.13				
10	QPSK	1	26	23.02			24.0	0.0
10	QPSK	1	50	23.10				
10	QPSK	25	0	22.19			23.0	1.0
10	QPSK	25	14	23.06			24.0	0.0
10	QPSK	25	27	22.14			23.0	1.0
10	QPSK	50	0	22.06			23.0	1.0
10	16QAM	1	1	21.82			23.0	1.0
10	16QAM	1	1	20.37			21.5	2.5
10	256QAM	1	1	18.99			19.5	4.5
Channel				156100	156000	156100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	23.07	23.04	23.01	24.0	0.0

n14_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 156000	Power Middle Ch. / Freq. 156000	Power High Ch. / Freq. 156000	Tune-up limit (dBm)	MPR (dB)
Channel				703				
Frequency (MHz)								
10	PI2 BPSK	1	1	20.33			21.5	0.0
10	PI2 BPSK	1	26	20.34				
10	PI2 BPSK	1	50	20.34				
10	PI2 BPSK	25	0	20.31			21.5	0.0
10	PI2 BPSK	25	14	20.34			21.5	0.0
10	PI2 BPSK	25	27	20.33			21.5	0.0
10	PI2 BPSK	50	0	20.31				
10	QPSK	1	1	20.47				
10	QPSK	1	26	20.35			21.5	0.0
10	QPSK	1	50	20.41				
10	QPSK	25	0	20.29			21.5	0.0
10	QPSK	25	14	20.44			21.5	0.0
10	QPSK	25	27	20.41			21.5	0.0
10	QPSK	50	0	20.40			21.5	0.0
10	16QAM	1	1	20.31			21.5	0.0
10	16QAM	1	1	20.42			21.5	0.0
10	256QAM	1	1	18.66			19.5	2.0
Channel				156100	156000	156100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	20.41	20.41	20.30	21.5	0.0



n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 374500	Power High Ch. Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	16.22	16.29	16.26			
40	Pi2 BPSK	1	108	16.28	16.44	16.33	17.5	0.0	
40	Pi2 BPSK	1	214	16.24	16.51	16.32			
40	Pi2 BPSK	108	0	16.37	16.35	16.27	17.5	0.0	
40	Pi2 BPSK	108	54	16.30	16.39	16.37	17.5	0.0	
40	Pi2 BPSK	108	108	16.34	16.40	16.37	17.5	0.0	
40	Pi2 BPSK	216	0	16.41	16.42	16.29			
40	QPSK	1	1	16.86	16.80	16.59			
40	QPSK	1	108	16.41	16.50	16.57	17.5	0.0	
40	QPSK	1	214	16.45	16.42	16.46			
40	QPSK	108	0	16.34	16.46	16.41	17.5	0.0	
40	QPSK	108	54	16.44	16.53	16.46	17.5	0.0	
40	QPSK	108	108	16.40	16.50	16.37	17.5	0.0	
40	QPSK	216	0	16.48	16.50	16.40			
40	16QAM	1	1	16.51	16.41	16.36	17.5	0.0	
40	64QAM	1	1	16.48	16.54	16.44	17.5	0.0	
40	256QAM	1	1	16.38	16.54	16.36	17.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.34	16.51	16.55	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.46	16.40	16.49	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.42	16.56	16.56	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.33	16.54	16.46	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.42	16.59	16.58	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.33	16.48	16.52	17.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.38	16.57	16.57	17.5	0.0	

n25_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 374000	Power Middle Ch. Freq. 374500	Power High Ch. Freq. 375000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	14.86	15.03	14.89			
40	Pi2 BPSK	1	108	14.96	15.02	15.10	16.0	0.0	
40	Pi2 BPSK	1	214	14.96	15.13	14.94			
40	Pi2 BPSK	108	0	15.01	15.04	14.95	16.0	0.0	
40	Pi2 BPSK	108	54	14.88	15.01	15.00	16.0	0.0	
40	Pi2 BPSK	108	108	14.96	15.05	14.86	16.0	0.0	
40	Pi2 BPSK	216	0	14.93	15.04	14.98			
40	QPSK	1	1	15.15	15.23	15.16			
40	QPSK	1	108	14.99	15.13	15.13	16.0	0.0	
40	QPSK	1	214	15.05	15.11	15.15			
40	QPSK	108	0	15.06	15.17	15.08	16.0	0.0	
40	QPSK	108	54	15.15	15.19	15.10	16.0	0.0	
40	QPSK	108	108	15.05	15.09	15.06	16.0	0.0	
40	QPSK	216	0	14.96	15.13	15.06			
40	16QAM	1	1	15.13	15.07	15.13	16.0	0.0	
40	64QAM	1	1	15.12	15.07	15.12	16.0	0.0	
40	256QAM	1	1	15.10	15.14	15.15	16.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	15.14	15.16	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.06	15.18	15.17	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.04	15.16	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.10	15.14	15.16	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.14	15.13	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.10	15.10	15.15	16.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.04	15.13	15.11	16.0	0.0	

n26(FCC)_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 164800	Power Middle Ch. Freq. 165300	Power High Ch. Freq. 165800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pi2 BPSK	1	1	21.48	21.52	21.47			
20	Pi2 BPSK	1	53	21.49	21.50	21.46	22.5	0.0	
20	Pi2 BPSK	1	104	21.43	21.52	21.42			
20	Pi2 BPSK	50	0	21.47	21.45	21.47	22.5	0.0	
20	Pi2 BPSK	50	28	21.39	21.55	21.50	22.5	0.0	
20	Pi2 BPSK	50	56	21.45	21.51	21.52	22.5	0.0	
20	Pi2 BPSK	100	0	21.39	21.55	21.46			
20	QPSK	1	1	21.61	21.76	21.66			
20	QPSK	1	53	21.55	21.58	21.58	22.5	0.0	
20	QPSK	1	104	21.52	21.64	21.61			
20	QPSK	50	0	21.58	21.67	21.57	22.5	0.0	
20	QPSK	50	28	21.59	21.71	21.63	22.5	0.0	
20	QPSK	50	56	21.52	21.57	21.59	22.5	0.0	
20	QPSK	100	0	21.49	21.70	21.59			
20	16QAM	1	1	21.62	21.71	21.69	22.5	0.0	
20	64QAM	1	1	20.27	20.19	20.07	21.5	1.0	
20	256QAM	1	1	18.66	18.80	18.73	19.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.59	21.64	21.62	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.49	21.74	21.62	22.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.50	21.75	21.61	22.5	0.0	

n66_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45	PI2 BPSK	1	1	15.37	15.43	15.39			
45	PI2 BPSK	1	120	15.38	15.42	15.43	16.5	0.0	
45	PI2 BPSK	1	240	15.41	15.43	15.31			
45	PI2 BPSK	120	0	15.36	15.36	15.33	16.5	0.0	
45	PI2 BPSK	120	60	15.33	15.33	15.36	16.5	0.0	
45	PI2 BPSK	120	120	15.45	15.33	15.41			
45	PI2 BPSK	240	0	15.32	15.43	15.36	16.5	0.0	
45	QPSK	1	1	15.66	15.74	15.68			
45	QPSK	1	120	15.67	15.69	15.60	16.5	0.0	
45	QPSK	1	240	15.66	15.67	15.62			
45	QPSK	120	0	15.54	15.64	15.60	16.5	0.0	
45	QPSK	120	60	15.63	15.66	15.63	16.5	0.0	
45	QPSK	120	120	15.57	15.52	15.37			
45	QPSK	240	0	15.51	15.56	15.34	16.5	0.0	
45	16QAM	1	1	15.48	15.50	15.46	16.5	0.0	
45	64QAM	1	1	15.57	15.58	15.45	16.5	0.0	
45	256QAM	1	1	15.62	15.62	15.46	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.61	15.60	15.54	16.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	15.57	15.58	15.54	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.55	15.51	15.50	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.22.5	17.45	17.22.5			
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.57	15.52	15.61	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.17.5	17.45	17.22.5			
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.59	15.59	15.51	16.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.12.5	17.45	17.77.5			
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.53	15.51	15.62	16.5	0.0	

n70_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	17.45	17.45				
15	PI2 BPSK	1	40	17.40	17.40		18.5	0.0	
15	PI2 BPSK	1	77	17.35	17.35				
15	PI2 BPSK	36	0	17.40	17.40		18.5	0.0	
15	PI2 BPSK	36	22	17.43	17.43		18.5	0.0	
15	PI2 BPSK	36	43	17.43	17.43		18.5	0.0	
15	PI2 BPSK	75	0	17.47	17.47		18.5	0.0	
15	QPSK	1	1	17.59	17.59				
15	QPSK	1	40	17.42	17.42		18.5	0.0	
15	QPSK	1	77	17.45	17.45				
15	QPSK	36	0	17.40	17.40		18.5	0.0	
15	QPSK	36	22	17.58	17.58		18.5	0.0	
15	QPSK	36	43	17.47	17.47		18.5	0.0	
15	QPSK	75	0	17.51	17.51		18.5	0.0	
15	16QAM	1	1	17.46	17.46		18.5	0.0	
15	64QAM	1	1	17.45	17.45		18.5	0.0	
15	256QAM	1	1	17.44	17.44		18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.46	17.52	17.54	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.54	17.52	17.44	15.5	0.0	

n70_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	17.45	17.45				
15	PI2 BPSK	1	40	17.47	17.47		16.5	0.0	
15	PI2 BPSK	1	77	15.37	15.37				
15	PI2 BPSK	36	0	15.40	15.40		16.5	0.0	
15	PI2 BPSK	36	22	15.34	15.34		16.5	0.0	
15	PI2 BPSK	36	43	15.41	15.41		16.5	0.0	
15	PI2 BPSK	75	0	15.36	15.36		16.5	0.0	
15	QPSK	1	1	15.72	15.72				
15	QPSK	1	40	15.68	15.68		16.5	0.0	
15	QPSK	1	77	15.66	15.66				
15	QPSK	36	0	15.62	15.62		16.5	0.0	
15	QPSK	36	22	15.66	15.66		16.5	0.0	
15	QPSK	36	43	15.65	15.65		16.5	0.0	
15	QPSK	75	0	15.64	15.64		16.5	0.0	
15	16QAM	1	1	15.62	15.62		16.5	0.0	
15	64QAM	1	1	15.71	15.71		16.5	0.0	
15	256QAM	1	1	15.62	15.62		16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.64	15.64	15.57	16.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.62	15.60	15.55	16.5	0.0	



n71_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 136100	Power Middle Ch. F Freq. 136100	Power High Ch. F Freq. 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	PI/2 BPSK	1	1	22.77	22.77	22.77		
35	PI/2 BPSK	1	90	22.82	22.82	22.82	24.0	0.0
35	PI/2 BPSK	1	186	22.70	22.70	22.70		
35	PI/2 BPSK	90	0	22.41	22.41	22.41	23.5	0.5
35	PI/2 BPSK	90	45	22.83	22.83	22.83	24.0	0.0
35	PI/2 BPSK	90	90	22.41	22.41	22.41	23.5	0.5
35	PI/2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.98	22.98	22.98		
35	QPSK	1	90	22.92	22.92	22.92	24.0	0.0
35	QPSK	1	186	22.83	22.83	22.83		
35	QPSK	90	0	21.89	21.89	21.89	23.0	1.0
35	QPSK	90	45	22.87	22.87	22.87	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.86	21.86	21.86	23.0	1.0
35	16QAM	1	1	21.81	21.81	21.81	23.0	1.0
35	64QAM	1	1	20.09	20.09	20.09	21.5	2.5
35	256QAM	1	1	18.69	18.69	18.69	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	680.5	683	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	675.5	680.5	685.5	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	670.5	680.5	680.5	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	680.5	683	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	133100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	665.5	680.5	695.5	24.0	0.0

n71_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 136100	Power Middle Ch. F Freq. 136100	Power High Ch. F Freq. 136100	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
35	PI/2 BPSK	1	1	22.87	22.87	22.87		
35	PI/2 BPSK	1	90	22.86	22.86	22.86	24.0	0.0
35	PI/2 BPSK	1	186	22.81	22.81	22.81		
35	PI/2 BPSK	90	0	22.43	22.43	22.43	23.5	0.5
35	PI/2 BPSK	90	45	22.84	22.84	22.84	24.0	0.0
35	PI/2 BPSK	90	90	22.37	22.37	22.37	23.5	0.5
35	PI/2 BPSK	180	0	22.38	22.38	22.38	23.5	0.5
35	QPSK	1	1	22.99	22.99	22.99		
35	QPSK	1	90	22.89	22.89	22.89	24.0	0.0
35	QPSK	1	186	22.79	22.79	22.79		
35	QPSK	90	0	21.92	21.92	21.92	23.0	1.0
35	QPSK	90	45	22.88	22.88	22.88	24.0	0.0
35	QPSK	90	90	21.84	21.84	21.84	23.0	1.0
35	QPSK	180	0	21.85	21.85	21.85	23.0	1.0
35	16QAM	1	1	21.82	21.82	21.82	23.0	1.0
35	64QAM	1	1	20.15	20.15	20.15	21.5	2.5
35	256QAM	1	1	18.75	18.75	18.75	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	678	680.5	683	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	675.5	680.5	685.5	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	673	680.5	688	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	670.5	680.5	680.5	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	136600	136100	136600	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	668	680.5	683	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	133100	136100	136100	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	665.5	680.5	695.5	24.0	0.0



Table for Part27Q_n77(HPUE)_Ant 1. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), and MPR (dB). Rows list channel configurations for various modulation types like Pi2 BPSK, QPSK, and 16QAM across different RB sizes and offsets.

Table for Part270_n77(HPUE)_Ant 1. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), and MPR (dB). Rows list channel configurations for various modulation types like Pi2 BPSK, QPSK, and 16QAM across different RB sizes and offsets.

Table for Part27Q_n77_Ant 2. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch. / Freq., Power Middle Ch. / Freq., Power High Ch. / Freq., Tune-up limit (dBm), and MPR (dB). Rows list channel configurations for various modulation types like Pi2 BPSK, QPSK, and 16QAM across different RB sizes and offsets.



Part27Q_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.61					
100	PI2 BPSK	1	137	22.66			24.0	0.0	
100	PI2 BPSK	1	271	22.69					
100	PI2 BPSK	135	9	22.60			24.0	0.0	
100	PI2 BPSK	135	69	22.66			24.0	0.0	
100	PI2 BPSK	135	138	22.67					
100	PI2 BPSK	270	0	22.63			24.0	0.0	
100	QPSK	1	1	22.52					
100	QPSK	1	137	22.65			24.0	0.0	
100	QPSK	1	271	22.71					
100	QPSK	135	9	22.47					
100	QPSK	135	69	22.52			24.0	0.0	
100	QPSK	135	138	22.51					
100	QPSK	270	0	22.43			24.0	0.0	
100	16QAM	1	1	22.31			24.0	0.0	
100	64QAM	1	1	22.29			24.0	0.0	
100	256QAM	1	1	21.41			22.5	1.5	
Channel									
Frequency (MHz)									
633000	633332	633666					Tune-up limit (dBm)	MPR (dB)	
3495	3499.98	3504.99							
90	QPSK	1	1	22.62	22.61	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
63098	63332	63400					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3510							
80	QPSK	1	1	22.63	22.63	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63234	63332	63432					Tune-up limit (dBm)	MPR (dB)	
3465.01	3469.98	3514.98							
70	QPSK	1	1	22.61	22.54	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
63000	63332	63466					Tune-up limit (dBm)	MPR (dB)	
3484	3489.98	3518.99							
60	QPSK	1	1	22.49	22.50	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
63168	63332	63500					Tune-up limit (dBm)	MPR (dB)	
3479.02	3499.98	3505							
50	QPSK	1	1	22.50	22.53	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
63134	63332	63332					Tune-up limit (dBm)	MPR (dB)	
3470.01	3469.98	3529.98							
40	QPSK	1	1	22.50	22.57	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
63100	63332	63506					Tune-up limit (dBm)	MPR (dB)	
3465	3469.98	3534.99							
30	QPSK	1	1	22.54	22.58	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
63034	63332	63632					Tune-up limit (dBm)	MPR (dB)	
3462.01	3469.98	3537.98							
25	QPSK	1	1	22.45	22.50	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
63068	63332	63600					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3540							
20	QPSK	1	1	22.56	22.51	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
63050	63332	63736					Tune-up limit (dBm)	MPR (dB)	
3457.5	3469.98	3542.49							
15	QPSK	1	1	22.54	22.53	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
63034	63332	63632					Tune-up limit (dBm)	MPR (dB)	
3465.01	3469.98	3544.98							
10	QPSK	1	1	22.60	22.56	22.56	24.0	0.0	

Part27O_n78_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.71					
100	PI2 BPSK	1	137	22.70			24.0	0.0	
100	PI2 BPSK	1	271	22.68					
100	PI2 BPSK	135	9	22.72			24.0	0.0	
100	PI2 BPSK	135	69	22.71			24.0	0.0	
100	PI2 BPSK	135	138	22.69					
100	PI2 BPSK	270	0	22.73			24.0	0.0	
100	QPSK	1	1	22.77					
100	QPSK	1	137	22.74			24.0	0.0	
100	QPSK	1	271	22.73					
100	QPSK	135	9	22.69					
100	QPSK	135	69	22.77			24.0	0.0	
100	QPSK	135	138	22.72					
100	QPSK	270	0	22.64			24.0	0.0	
100	16QAM	1	1	22.45			24.0	0.0	
100	64QAM	1	1	22.39			24.0	0.0	
100	256QAM	1	1	21.45			22.5	1.5	
Channel									
Frequency (MHz)									
646668	650000	650332					Tune-up limit (dBm)	MPR (dB)	
3745.02	3750	3754.98							
90	QPSK	1	1	22.73	22.71	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
646334	650000	650066					Tune-up limit (dBm)	MPR (dB)	
3740.01	3750	3759.99							
80	QPSK	1	1	22.71	22.61	22.59	24.0	0.0	
Channel									
Frequency (MHz)									
646000	650000	650100					Tune-up limit (dBm)	MPR (dB)	
3735	3750	3765							
70	QPSK	1	1	22.63	22.67	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
648668	650000	651332					Tune-up limit (dBm)	MPR (dB)	
3730.02	3750	3768.98							
60	QPSK	1	1	22.69	22.56	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
648334	650000	651666					Tune-up limit (dBm)	MPR (dB)	
3725.01	3750	3774.99							
50	QPSK	1	1	22.72	22.53	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
648000	650000	652000					Tune-up limit (dBm)	MPR (dB)	
3720	3750	3780							
40	QPSK	1	1	22.70	22.69	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
647668	650000	652332					Tune-up limit (dBm)	MPR (dB)	
3715.02	3750	3784.98							
30	QPSK	1	1	22.60	22.66	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3710.01	3750	3789.99							
20	QPSK	1	1	22.66	22.56	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	652900					Tune-up limit (dBm)	MPR (dB)	
3712.5	3750	3791.5							
25	QPSK	1	1	22.65	22.64	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3710.01	3750	3789.99							
15	QPSK	1	1	22.63	22.64	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)	
3705	3750	3785							
10	QPSK	1	1	22.61	22.61	22.55	24.0	0.0	



Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.91					
100	PI2 BPSK	1	137	22.92			24.5	0.0	
100	PI2 BPSK	1	271	22.96					
100	PI2 BPSK	135	0	22.98			24.5	0.0	
100	PI2 BPSK	135	69	22.90			24.5	0.0	
100	PI2 BPSK	135	138	23.04					
100	PI2 BPSK	270	0	22.95			24.5	0.0	
100	QPSK	1	1	22.97					
100	QPSK	1	137	22.97			24.5	0.0	
100	QPSK	1	271	22.98					
100	QPSK	135	0	23.00					
100	QPSK	135	69	23.03			24.5	0.0	
100	QPSK	135	138	22.99					
100	QPSK	270	0	23.00			24.5	0.0	
100	16QAM	1	1	22.95			24.5	0.0	
100	64QAM	1	1	22.96			24.5	0.0	
100	256QAM	1	1	21.72			22.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.04	22.90	23.00	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.85	22.82	22.98	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.92	22.83	22.87	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.97	22.75	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.95	22.70	22.87	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.94	22.76	22.96	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.98	22.78	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.99	22.83	22.97	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.02	22.87	22.85	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.98	22.78	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.03	22.86	22.97	24.5	0.0	

Part27Q_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.17					
100	PI2 BPSK	1	137	23.16			24.5	0.0	
100	PI2 BPSK	1	271	23.16					
100	PI2 BPSK	135	0	23.07			24.5	0.0	
100	PI2 BPSK	135	69	23.11			24.5	0.0	
100	PI2 BPSK	135	138	23.06					
100	PI2 BPSK	270	0	23.07			24.5	0.0	
100	QPSK	1	1	23.20					
100	QPSK	1	137	23.11			24.5	0.0	
100	QPSK	1	271	23.06					
100	QPSK	135	0	23.16			24.5	0.0	
100	QPSK	135	69	23.18					
100	QPSK	135	138	23.14					
100	QPSK	270	0	23.16			24.5	0.0	
100	16QAM	1	1	23.08			24.5	0.0	
100	64QAM	1	1	23.17			24.5	0.0	
100	256QAM	1	1	21.54			22.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.12	23.13	23.09	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.02	23.07	23.07	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.10	23.12	23.06	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.06	23.09	22.97	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.05	23.10	22.83	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.97	23.10	22.98	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.03	22.96	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.09	23.10	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.10	23.06	22.83	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.10	23.08	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.11	23.00	22.93	24.5	0.0	

Part27Q_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.01					
100	PI2 BPSK	1	137	15.03			16.0	0.0	
100	PI2 BPSK	1	271	14.98					
100	PI2 BPSK	135	9	15.01			16.0	0.0	
100	PI2 BPSK	135	69	15.05			16.0	0.0	
100	PI2 BPSK	135	138	14.99					
100	PI2 BPSK	270	0	15.12			16.0	0.0	
100	QPSK	1	1	15.10					
100	QPSK	1	137	15.03			16.0	0.0	
100	QPSK	1	271	15.06					
100	QPSK	135	9	15.12			16.0	0.0	
100	QPSK	135	69	15.04					
100	QPSK	135	138	15.04					
100	QPSK	270	0	15.02			16.0	0.0	
100	16QAM	1	1	15.10			16.0	0.0	
100	64QAM	1	1	15.09			16.0	0.0	
100	256QAM	1	1	15.03			16.0	0.0	
Channel									
Frequency (MHz)									
633000	633332	633666					Tune-up limit (dBm)	MPR (dB)	
3492	3499.98	3504.99							
90	QPSK	1	1	15.12	15.12	15.13	16.0	0.0	
Channel									
Frequency (MHz)									
630668	633332	634000					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3510							
80	QPSK	1	1	15.17	15.07	15.14	16.0	0.0	
Channel									
Frequency (MHz)									
632344	633332	634332					Tune-up limit (dBm)	MPR (dB)	
3465.01	3469.98	3514.98							
70	QPSK	1	1	15.06	15.14	15.11	16.0	0.0	
Channel									
Frequency (MHz)									
632000	633332	634666					Tune-up limit (dBm)	MPR (dB)	
3468	3469.98	3518.99							
60	QPSK	1	1	15.07	15.06	15.13	16.0	0.0	
Channel									
Frequency (MHz)									
631668	633332	635000					Tune-up limit (dBm)	MPR (dB)	
3472.02	3469.98	3525							
50	QPSK	1	1	15.06	15.00	15.13	16.0	0.0	
Channel									
Frequency (MHz)									
631334	633332	635332					Tune-up limit (dBm)	MPR (dB)	
3470.01	3469.98	3529.98							
40	QPSK	1	1	15.06	15.05	15.03	16.0	0.0	
Channel									
Frequency (MHz)									
631000	633332	635666					Tune-up limit (dBm)	MPR (dB)	
3465	3469.98	3534.99							
30	QPSK	1	1	15.08	15.12	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
630668	633332	636000					Tune-up limit (dBm)	MPR (dB)	
3462.01	3469.98	3537.48							
25	QPSK	1	1	15.04	15.12	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
630668	633332	636000					Tune-up limit (dBm)	MPR (dB)	
3460.02	3469.98	3540							
20	QPSK	1	1	15.17	15.04	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
630334	633332	636332					Tune-up limit (dBm)	MPR (dB)	
3457.5	3469.98	3542.49							
15	QPSK	1	1	15.14	15.14	15.03	16.0	0.0	
Channel									
Frequency (MHz)									
630334	633332	636332					Tune-up limit (dBm)	MPR (dB)	
3455.01	3469.98	3544.98							
10	QPSK	1	1	15.11	15.11	15.10	16.0	0.0	

Part27O_n78_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.88					
100	PI2 BPSK	1	137	14.88			16.0	0.0	
100	PI2 BPSK	1	271	14.89					
100	PI2 BPSK	135	9	14.91			16.0	0.0	
100	PI2 BPSK	135	69	14.98			16.0	0.0	
100	PI2 BPSK	135	138	14.85					
100	PI2 BPSK	270	0	14.87			16.0	0.0	
100	QPSK	1	1	15.02					
100	QPSK	1	137	14.92			16.0	0.0	
100	QPSK	1	271	15.05					
100	QPSK	135	9	14.99			16.0	0.0	
100	QPSK	135	69	15.00					
100	QPSK	135	138	14.92					
100	QPSK	270	0	14.92			16.0	0.0	
100	16QAM	1	1	14.85			16.0	0.0	
100	64QAM	1	1	15.03			16.0	0.0	
100	256QAM	1	1	14.97			16.0	0.0	
Channel									
Frequency (MHz)									
646668	650000	650332					Tune-up limit (dBm)	MPR (dB)	
3745.02	3750	3754.98							
90	QPSK	1	1	15.03	15.00	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
646334	650000	650666					Tune-up limit (dBm)	MPR (dB)	
3740.01	3750	3759.99							
80	QPSK	1	1	15.01	14.97	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
646000	650000	651000					Tune-up limit (dBm)	MPR (dB)	
3735	3750	3765							
70	QPSK	1	1	15.02	14.98	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
645668	650000	651332					Tune-up limit (dBm)	MPR (dB)	
3730.02	3750	3769.98							
60	QPSK	1	1	15.00	15.03	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
645334	650000	651666					Tune-up limit (dBm)	MPR (dB)	
3725.01	3750	3774.99							
50	QPSK	1	1	15.04	15.11	15.08	16.0	0.0	
Channel									
Frequency (MHz)									
645000	650000	652000					Tune-up limit (dBm)	MPR (dB)	
3720	3750	3780							
40	QPSK	1	1	15.11	15.04	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
644668	650000	652332					Tune-up limit (dBm)	MPR (dB)	
3715.02	3750	3784.98							
30	QPSK	1	1	15.10	15.09	15.08	16.0	0.0	
Channel									
Frequency (MHz)									
644334	650000	652666					Tune-up limit (dBm)	MPR (dB)	
3712.5	3750	3787.5							
25	QPSK	1	1	15.10	15.09	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
644000	650000	653000					Tune-up limit (dBm)	MPR (dB)	
3710	3750	3790							
20	QPSK	1	1	15.02	15.00	14.99	16.0	0.0	
Channel									
Frequency (MHz)									
643668	650000	653332					Tune-up limit (dBm)	MPR (dB)	
3707.52	3750	3792.48							
15	QPSK	1	1	15.07	15.10	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
643334	650000	653666					Tune-up limit (dBm)	MPR (dB)	
3705	3750	3795							
10	QPSK	1	1	15.10	15.02	14.98	16.0	0.0	

Part27Q_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.01					
100	PI2 BPSK	1	137	15.03			16.0	0.0	
100	PI2 BPSK	1	271	14.98					
100	PI2 BPSK	135	9	15.01			15.5	0.5	
100	PI2 BPSK	135	69	15.05			16.0	0.0	
100	PI2 BPSK	135	138	14.99					
100	PI2 BPSK	270	0	15.02			15.5	0.5	
100	QPSK	1	1	15.10					
100	QPSK	1	137	15.03			16.0	0.0	
100	QPSK	1	271	15.06					
100	QPSK	135	9	15.12					
100	QPSK	135	69	15.04			16.0	0.0	
100	QPSK	135	138	15.04					
100	QPSK	270	0	15.02			15.0	1.0	
100	16QAM	1	1	15.10			15.0	1.0	
100	64QAM	1	1	15.09			13.5	2.5	
100	256QAM	1	1	15.03			11.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.12	15.12	15.13	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.17	15.07	15.14	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.06	15.14	15.11	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.07	15.06	15.13	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.06	15.00	15.13	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.05	15.05	15.03	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.08	15.12	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.04	15.12	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.17	15.04	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.14	15.14	15.03	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.11	15.11	15.10	16.0	0.0	

Part27O_n78(HPUE)_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.88					
100	PI2 BPSK	1	137	14.88			16.0	0.0	
100	PI2 BPSK	1	271	14.88					
100	PI2 BPSK	135	9	14.91			15.5	0.5	
100	PI2 BPSK	135	69	14.98			16.0	0.0	
100	PI2 BPSK	135	138	14.85					
100	PI2 BPSK	270	0	14.87			15.5	0.5	
100	QPSK	1	1	15.02					
100	QPSK	1	137	14.92			16.0	0.0	
100	QPSK	1	271	15.05					
100	QPSK	135	9	14.99					
100	QPSK	135	69	15.04			16.0	0.0	
100	QPSK	135	138	15.00					
100	QPSK	270	0	14.92			15.0	1.0	
100	16QAM	1	1	14.85			15.0	1.0	
100	64QAM	1	1	15.03			13.5	2.5	
100	256QAM	1	1	14.97			11.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.03	15.00	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.01	14.97	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.02	14.98	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.00	15.03	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.04	15.11	15.08	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.11	15.04	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.10	15.09	15.08	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.10	15.09	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.02	15.00	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.07	15.10	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.10	15.02	14.98	16.0	0.0	



Part27Q_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.12					
100	PI2 BPSK	1	137	15.03			16.0	0.0	
100	PI2 BPSK	1	271	15.10					
100	PI2 BPSK	135	9	15.02			16.0	0.0	
100	PI2 BPSK	135	69	15.05			16.0	0.0	
100	PI2 BPSK	135	138	15.12					
100	PI2 BPSK	270	0	15.12			16.0	0.0	
100	QPSK	1	1	15.12					
100	QPSK	1	137	14.99			16.0	0.0	
100	QPSK	1	271	15.02					
100	QPSK	135	0	15.06			16.0	0.0	
100	QPSK	135	69	15.12					
100	QPSK	135	138	15.06					
100	QPSK	270	0	15.10			16.0	0.0	
100	16QAM	1	1	15.12			16.0	0.0	
100	64QAM	1	1	15.12			16.0	0.0	
100	256QAM	1	1	15.09			16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.07	15.10	15.11	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.92	15.08	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.03	15.06	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.06	15.04	15.05	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.06	14.97	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.94	15.07	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.95	15.08	14.99	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.02	15.01	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.96	14.95	15.03	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.00	14.96	14.96	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.98	14.95	15.07	16.0	0.0	

Part27O_n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.09					
100	PI2 BPSK	1	137	14.96			16.0	0.0	
100	PI2 BPSK	1	271	15.01					
100	PI2 BPSK	135	9	14.96			16.0	0.0	
100	PI2 BPSK	135	69	15.09			16.0	0.0	
100	PI2 BPSK	135	138	15.10					
100	PI2 BPSK	270	0	14.97			16.0	0.0	
100	QPSK	1	1	15.11					
100	QPSK	1	137	15.00			16.0	0.0	
100	QPSK	1	271	14.96					
100	QPSK	135	0	15.03			16.0	0.0	
100	QPSK	135	69	15.05					
100	QPSK	135	138	15.01					
100	QPSK	270	0	15.00			16.0	0.0	
100	16QAM	1	1	15.03			16.0	0.0	
100	64QAM	1	1	15.05			16.0	0.0	
100	256QAM	1	1	15.05			16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.97	15.04	15.01	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.85	14.96	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.96	15.00	14.96	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.96	14.92	14.90	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.92	15.02	14.91	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.96	14.97	14.92	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.84	14.92	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.93	14.99	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.92	15.02	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.93	15.00	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.85	14.90	15.00	16.0	0.0	



Part27Q_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.12					
100	PI2 BPSK	1	137	15.03			16.0	0.0	
100	PI2 BPSK	1	271	15.10					
100	PI2 BPSK	135	9	15.02			16.0	0.0	
100	PI2 BPSK	135	69	15.05			16.0	0.0	
100	PI2 BPSK	135	138	15.12			16.0	0.0	
100	PI2 BPSK	270	0	15.12					
100	QPSK	1	1	14.99			16.0	0.0	
100	QPSK	1	271	15.02					
100	QPSK	135	0	15.06			16.0	0.0	
100	QPSK	135	69	15.12					
100	QPSK	135	138	15.06			16.0	0.0	
100	QPSK	270	0	15.10			16.0	0.0	
100	16QAM	1	1	15.12			16.0	0.0	
100	64QAM	1	1	15.12			16.0	0.0	
100	256QAM	1	1	15.09			16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.07	15.10	15.11	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.92	15.08	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.03	15.06	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.06	15.04	15.05	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.06	14.97	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.94	15.07	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.95	15.08	14.99	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.02	15.01	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.96	14.95	15.03	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.00	14.96	14.96	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.98	14.95	15.07	16.0	0.0	

Part27O_n78(HPUE)_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.09					
100	PI2 BPSK	1	137	14.96			16.0	0.0	
100	PI2 BPSK	1	271	15.01					
100	PI2 BPSK	135	9	14.96			16.0	0.0	
100	PI2 BPSK	135	69	15.09			16.0	0.0	
100	PI2 BPSK	135	138	15.10			16.0	0.0	
100	PI2 BPSK	270	0	14.97					
100	QPSK	1	1	15.11			16.0	0.0	
100	QPSK	1	137	15.00					
100	QPSK	1	271	14.96			16.0	0.0	
100	QPSK	135	0	15.03			16.0	0.0	
100	QPSK	135	69	15.05					
100	QPSK	135	138	15.01			16.0	0.0	
100	QPSK	270	0	15.00			16.0	0.0	
100	16QAM	1	1	15.03			16.0	0.0	
100	64QAM	1	1	15.05			16.0	0.0	
100	256QAM	1	1	15.05			16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.97	15.04	15.01	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.85	14.96	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.96	15.00	14.96	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.96	14.92	14.90	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.92	15.02	14.91	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.96	14.97	14.92	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.84	14.92	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.93	14.99	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.92	15.02	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.93	15.00	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.85	14.90	15.00	16.0	0.0	



n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.65	20.77	20.52			
40	PI2 BPSK	1	108	20.71	20.70	20.58	22.0	0.0	
40	PI2 BPSK	1	214	20.66	20.64	20.51			
40	PI2 BPSK	108	0	20.71	20.66	20.52	22.0	0.0	
40	PI2 BPSK	108	54	20.66	20.72	20.64	22.0	0.0	
40	PI2 BPSK	108	108	20.67	20.67	20.56	22.0	0.0	
40	PI2 BPSK	216	0	20.68	20.72	20.64	22.0	0.0	
40	QPSK	1	1	20.95	21.04	20.97			
40	QPSK	1	108	20.82	20.95	20.88	22.0	0.0	
40	QPSK	1	214	20.95	20.91	20.90			
40	QPSK	108	0	20.88	20.95	20.93	22.0	0.0	
40	QPSK	108	54	20.95	20.88	20.95	22.0	0.0	
40	QPSK	108	108	20.87	20.87	20.85	22.0	0.0	
40	QPSK	216	0	20.82	20.97	20.86	22.0	0.0	
40	16QAM	1	1	20.95	20.96	20.91	22.0	0.0	
40	64QAM	1	1	18.97	20.07	19.94	21.5	0.5	
40	256QAM	1	1	18.58	18.61	18.54	19.5	2.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.84	20.83	20.81	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	374000	376000	378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	1860	1880	1890	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.82	20.85	20.83	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.81	20.85	20.91	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1862.5	1860	1867.5	Tune-up limit (dBm)	MPR (dB)	

Reduced Power Mode for EC110

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 166800	Power Middle Ch. F Freq. 167300	Power High Ch. F Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.67	22.81	22.70			
20	PI2 BPSK	1	53	22.71	22.86	22.76	24.0	0.0	
20	PI2 BPSK	1	104	22.67	22.79	22.68			
20	PI2 BPSK	50	0	22.48	22.50	22.41	23.5	0.5	
20	PI2 BPSK	50	28	22.92	22.99	22.92	24.0	0.0	
20	PI2 BPSK	50	56	22.46	22.48	22.40	23.5	0.5	
20	PI2 BPSK	100	0	22.42	22.45	22.43			
20	QPSK	1	1	22.95	23.03	22.97			
20	QPSK	1	53	22.92	23.01	22.88	24.0	0.0	
20	QPSK	1	104	22.84	22.86	22.80			
20	QPSK	50	0	21.81	21.93	21.81	23.0	1.0	
20	QPSK	50	28	22.84	22.84	22.86	24.0	0.0	
20	QPSK	50	56	21.75	21.87	21.77	23.0	1.0	
20	QPSK	100	0	21.83	21.80	21.79	23.0	1.0	
20	16QAM	1	1	21.70	21.84	21.83	23.0	1.0	
20	64QAM	1	1	20.24	20.32	20.30	21.5	2.5	
20	256QAM	1	1	18.83	18.95	18.85	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	166800	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	831.5	836.5	841.5	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	

n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq. 374000	Power Middle Ch. F Freq. 376000	Power High Ch. F Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.64	20.83	20.69			
40	PI2 BPSK	1	108	20.60	20.84	20.62	22.0	0.0	
40	PI2 BPSK	1	214	20.66	20.73	20.65			
40	PI2 BPSK	108	0	20.62	20.82	20.66	22.0	0.0	
40	PI2 BPSK	108	54	20.67	20.79	20.70	22.0	0.0	
40	PI2 BPSK	108	108	20.73	20.82	20.62	22.0	0.0	
40	PI2 BPSK	216	0	20.61	20.77	20.76	22.0	0.0	
40	QPSK	1	1	20.95	21.01	20.97			
40	QPSK	1	108	20.91	20.94	20.96	22.0	0.0	
40	QPSK	1	214	20.94	20.96	20.93			
40	QPSK	108	0	20.95	20.94	20.93	22.0	0.0	
40	QPSK	108	54	20.87	20.93	20.90	22.0	0.0	
40	QPSK	108	108	20.87	20.90	20.88	22.0	0.0	
40	QPSK	216	0	20.89	20.93	20.92	22.0	0.0	
40	16QAM	1	1	20.95	20.92	20.77	22.0	0.0	
40	64QAM	1	1	20.03	20.18	20.14	21.5	0.5	
40	256QAM	1	1	18.73	18.78	18.69	19.5	2.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.82	20.84	20.81	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	374000	376000	378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	1860	1882.5	1890	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.77	20.88	20.76	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.81	20.86	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1862.5	1862.5	1812.5	Tune-up limit (dBm)	MPR (dB)	

n26(FCC)_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 164800	Power Middle Ch. F. Freq. 166300	Power High Ch. F. Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.91	22.96	22.93		
20	PI2 BPSK	1	53	22.87	22.90	22.87	24.0	0.0
20	PI2 BPSK	1	104	22.84	22.88	22.75		
20	PI2 BPSK	50	0	22.51	22.60	22.55	23.5	0.5
20	PI2 BPSK	50	28	23.07	23.10	23.05	24.0	0.0
20	PI2 BPSK	50	56	22.58	22.60	22.45		
20	PI2 BPSK	100	0	22.50	22.61	22.59	23.5	0.5
20	QPSK	1	1	23.13	23.22	23.16		
20	QPSK	1	53	23.05	23.18	23.03	24.0	0.0
20	QPSK	1	104	22.88	23.02	22.91		
20	QPSK	50	0	21.98	22.05	21.92	23.0	1.0
20	QPSK	50	28	23.00	23.05	23.01	24.0	0.0
20	QPSK	50	56	21.89	22.01	22.00		
20	QPSK	100	0	21.94	22.01	21.87	23.0	1.0
20	16QAM	1	1	21.85	21.90	21.70	23.0	1.0
20	16QAM	1	1	20.29	20.30	20.17	21.5	2.5
20	256QAM	1	1	18.77	18.92	18.81	19.5	4.5
Channel								
Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.07	23.07	23.08	24.0	0.0
Channel								
Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.02	23.09	23.01	24.0	0.0
Channel								
Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.11	23.15	23.14	24.0	0.0

n66_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F. Freq. 345000	Power Middle Ch. F. Freq. 349000	Power High Ch. F. Freq. 353000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1722.5	1745	1757.5		
45	PI2 BPSK	1	1	21.38	21.33	21.31		
45	PI2 BPSK	1	100	21.30	21.39	21.37	22.5	0.0
45	PI2 BPSK	1	240	21.38	21.39	21.36		
45	PI2 BPSK	120	0	21.38	21.40	21.31	22.5	0.0
45	PI2 BPSK	120	60	21.33	21.38	21.33	22.5	0.0
45	PI2 BPSK	120	180	21.41	21.39	21.33		
45	PI2 BPSK	240	0	21.28	21.32	21.31	22.5	0.0
45	QPSK	1	1	21.85	21.88	21.80		
45	QPSK	1	100	21.83	21.82	21.48	22.5	0.0
45	QPSK	1	240	21.80	21.56	21.50		
45	QPSK	120	0	21.53	21.53	21.50	22.5	0.0
45	QPSK	120	60	21.80	21.83	21.50	22.5	0.0
45	QPSK	120	120	21.54	21.60	21.50		
45	QPSK	240	0	21.88	21.61	21.41	22.5	0.0
45	16QAM	1	1	21.92	21.97	21.42	22.5	0.0
45	16QAM	1	1	20.17	20.28	20.26	21.5	1.0
45	256QAM	1	1	18.75	18.90	18.78	19.5	3.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.53	21.60	21.49	22.5	0.0
Channel								
Frequency (MHz)				345000	349000	352500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	21.49	21.62	21.43	22.5	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.53	21.59	21.53	22.5	0.0
Channel								
Frequency (MHz)				1722.5	1745	1767.5	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.47	21.62	21.42	22.5	0.0
Channel								
Frequency (MHz)				345000	349000	354500	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.51	21.57	21.53	22.5	0.0
Channel								
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.58	21.60	21.48	22.5	0.0
Channel								
Frequency (MHz)				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.55	21.49	21.43	22.5	0.0
Channel								
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.48	21.57	21.47	22.5	0.0

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI/2 BPSK	1	1		21.38				
15	PI/2 BPSK	1	40		21.45		22.5	0.0	
15	PI/2 BPSK	1	77		21.47				
15	PI/2 BPSK	36	0		21.49		22.5	0.0	
15	PI/2 BPSK	36	22		21.48		22.5	0.0	
15	PI/2 BPSK	36	43		21.38		22.5	0.0	
15	PI/2 BPSK	75	0		21.42		22.5	0.0	
15	QPSK	1	1		21.58				
15	QPSK	1	40		21.41		22.5	0.0	
15	QPSK	1	77		21.45				
15	QPSK	36	0		21.47		22.5	0.0	
15	QPSK	36	22		21.53		22.5	0.0	
15	QPSK	36	43		21.51		22.5	0.0	
15	QPSK	75	0		21.43		22.5	0.0	
15	16QAM	1	1		21.41		22.5	0.0	
15	16QAM	1	1		20.33		21.5	1.0	
15	256QAM	1	1		18.96		19.5	3.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	348500	349500	341000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.44	21.45	21.47	22.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	197.5	172.5	177.5	22.5	0.0	
5	QPSK	1	1	21.43	21.44	21.47	22.5	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
35	PI/2 BPSK	1	1		680.5	680.5	681.5		
35	PI/2 BPSK	1	1		22.77				
35	PI/2 BPSK	1	80		22.82			24.0	0.0
35	PI/2 BPSK	1	166		22.70				
35	PI/2 BPSK	90	0		22.41		23.5	0.5	
35	PI/2 BPSK	90	45		22.83		24.0	0.0	
35	PI/2 BPSK	90	90		22.41		23.5	0.5	
35	PI/2 BPSK	180	0		22.38		23.5	0.5	
35	QPSK	1	1		22.96				
35	QPSK	1	90		22.92		24.0	0.0	
35	QPSK	1	166		22.83				
35	QPSK	90	0		21.89		23.0	1.0	
35	QPSK	90	45		22.87		24.0	0.0	
35	QPSK	90	90		21.84		23.0	1.0	
35	QPSK	180	0		21.86		23.0	1.0	
35	16QAM	1	1		21.61		23.0	1.0	
35	16QAM	1	1		20.09		21.5	2.5	
35	256QAM	1	1		18.69		19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	136600	136100	136800	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.90	22.83	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	135100	135100	135100	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.77	22.87	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	134600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	673	680.5	688	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	670.5	680.5	690.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.78	22.84	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.88	22.81	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	665.5	680.5	695.5	24.0	0.0	
5	QPSK	1	1	22.87	22.83	22.83	24.0	0.0	

Reduced Power Mode for EC11

n7_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50000	507000	509000		
Frequency (MHz)				2925	2935	2945		
50	PI/2 BPSK	1	1	21.52	21.61	21.46		
50	PI/2 BPSK	1	135	21.48	21.59	21.44	22.5	0.0
50	PI/2 BPSK	1	268	21.46	21.59	21.46		
50	PI/2 BPSK	135	0	21.49	21.57	21.43	22.5	0.0
50	PI/2 BPSK	135	68	21.50	21.58	21.42	22.5	0.0
50	PI/2 BPSK	135	135	21.53	21.68	21.46		
50	PI/2 BPSK	270	0	21.42	21.66	21.45	22.5	0.0
50	QPSK	1	1	21.75	21.80	21.70		
50	QPSK	1	135	21.69	21.79	21.68	22.5	0.0
50	QPSK	1	268	21.66	21.72	21.69		
50	QPSK	135	0	21.68	21.77	21.60	22.5	0.0
50	QPSK	135	68	21.72	21.78	21.68	22.5	0.0
50	QPSK	135	135	21.67	21.70	21.58		
50	QPSK	270	0	21.63	21.71	21.59	22.5	0.0
50	16QAM	1	1	21.72	21.70	21.63	22.5	0.0
50	64QAM	1	1	20.48	20.52	20.43	21.5	1.0
50	256QAM	1	1	19.06	19.13	19.09	19.5	3.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2920	2935	2950		
40	QPSK	1	1	21.61	21.69	21.61	22.5	0.0
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2917.5	2935	2952.5		
35	QPSK	1	1	21.64	21.68	21.59	22.5	0.0
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2915	2935	2955		
30	QPSK	1	1	21.66	21.63	21.55	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2912.5	2935	2957.5		
25	QPSK	1	1	21.60	21.77	21.62	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2910	2935	2960		
20	QPSK	1	1	21.66	21.64	21.62	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2907.5	2935	2962.5		
15	QPSK	1	1	21.71	21.71	21.64	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2905	2935	2966		
10	QPSK	1	1	21.70	21.72	21.60	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2902.5	2935	2967.5		
5	QPSK	1	1	21.58	21.66	21.53	22.5	0.0

n30_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				460000	463000	463000		
Frequency (MHz)				2310				
10	PI/2 BPSK	1	1		21.11			
10	PI/2 BPSK	1	26		21.20		22.0	0.0
10	PI/2 BPSK	1	50		21.19			
10	PI/2 BPSK	25	0		21.17		22.0	0.0
10	PI/2 BPSK	25	14		21.18		22.0	0.0
10	PI/2 BPSK	25	27		21.10			
10	PI/2 BPSK	50	0		21.13		22.0	0.0
10	QPSK	1	1		21.39			
10	QPSK	1	26		21.30		22.0	0.0
10	QPSK	1	50		21.31			
10	QPSK	25	0				22.0	0.0
10	QPSK	25	14		21.30		22.0	0.0
10	QPSK	25	27		21.17			
10	QPSK	50	0		21.23		22.0	0.0
10	16QAM	1	1		21.20		22.0	0.0
10	64QAM	1	1		20.56		21.5	0.5
10	256QAM	1	1		19.16		19.5	2.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	21.18	21.20	21.29	22.0	0.0



Part270_n78(HPUE)_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	25.58					
100	Pi2 BPSK	1	137	25.58			26.5	0.0	
100	Pi2 BPSK	1	271	25.41					
100	Pi2 BPSK	135	0	25.61			26.0	0.5	
100	Pi2 BPSK	135	69	25.59			26.5	0.0	
100	Pi2 BPSK	135	138	25.63			26.0	0.5	
100	Pi2 BPSK	270	0	25.61					
100	QPSK	1	1	25.08					
100	QPSK	1	137	25.49			26.5	0.0	
100	QPSK	1	271	25.30					
100	QPSK	135	0	25.08			26.5	0.0	
100	QPSK	135	69	25.07					
100	QPSK	135	138	25.10					
100	QPSK	270	0	24.87			25.5	1.0	
100	16QAM	1	1	24.73			26.5	1.0	
100	64QAM	1	1	23.07			24.0	2.5	
100	256QAM	1	1	21.54			22.0	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.47	25.59	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.49	25.54	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.42	25.51	25.44	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.41	25.55	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.42	25.62	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.37	25.49	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.40	25.59	25.43	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.50	25.55	25.41	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.30	25.55	25.39	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.45	25.55	25.37	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.48	25.50	25.38	26.5	0.0	

n71_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 136100	Power Middle Ch. / Freq. 136100	Power High Ch. / Freq. 136100	Tune-up limit (dBm)	MPR (dB)	
Channel				680.5	680.5	680.5			
Frequency (MHz)									
35	PI2 BPSK	1	1	22.87			24.0	0.0	
35	PI2 BPSK	1	90	22.86					
35	PI2 BPSK	1	186	22.81					
35	PI2 BPSK	90	0	22.43			23.5	0.5	
35	PI2 BPSK	90	45	22.94			24.0	0.0	
35	PI2 BPSK	90	90	22.37					
35	PI2 BPSK	180	0	22.38			23.5	0.5	
35	QPSK	1	1	22.98					
35	QPSK	1	90	22.89			24.0	0.0	
35	QPSK	1	186	22.79					
35	QPSK	90	0	21.52			23.0	1.0	
35	QPSK	90	45	22.88			24.0	0.0	
35	QPSK	90	90	21.84					
35	QPSK	180	0	21.85			23.0	1.0	
35	16QAM	1	1	21.62			23.0	1.0	
35	64QAM	1	1	20.15			21.5	2.5	
35	256QAM	1	1	18.75			19.5	4.5	
Channel				136000	136100	136600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				678	680.5	683			
30	QPSK	1	1	22.91	22.96	22.89	24.0	0.0	
Channel				136100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				676.5	680.5	684.5			
25	QPSK	1	1	22.85	22.94	22.89	24.0	0.0	
Channel				136600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				673	680.5	688			
20	QPSK	1	1	22.90	22.93	22.85	24.0	0.0	
Channel				137100	137100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.97	22.94	22.86	24.0	0.0	
Channel				138600	136100	139600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.94	22.84	22.89	24.0	0.0	
Channel				139100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665	680.5	695.5			
5	QPSK	1	1	22.91	22.93	22.98	24.0	0.0	

2.4GHz WLAN				Full Power Art 6		Head Standalone Art 6		Head Simultaneous Art 6		Extremity Standalone Art 6		Extremity Simultaneous Art 6		Body Worn Standalone Art 6		Body Worn Simultaneous Art 6		Hotspot Art 6		Duty Cycle %		
Mode	Channel	Frequency (MHz)	RU Config	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 1Mbps	1	2412	Full	21.50	23.00	15.90	17.50	13.10	14.50	20.30	22.00	15.50	17.00	17.90	19.50	15.90	17.50	16.50	18.00	100.00	
		6	2437	Full	21.70	23.00	16.10	17.50	13.30	14.50	20.60	22.00	15.60	17.00	18.00	19.50	16.10	17.50	16.60	18.00		
		11	2462	Full	21.60	23.00	16.00	17.50	13.40	14.50	20.40	22.00	15.40	17.00	18.00	19.50	16.00	17.50	16.50	18.00		
		6	2412	Full	19.80	21.50	15.60	17.00	14.50	19.80	21.50	17.00	19.00	21.50	17.00	17.50	19.00	15.60	17.00	16.40		18.00
		11	2462	Full	21.10	22.50	16.10	17.50	14.50	20.40	22.00	15.50	17.00	17.80	19.50	16.10	17.50	16.00	17.50	16.00		17.50
		6	2437	Full	19.80	21.50	15.60	17.00	14.50	19.80	21.50	17.00	19.00	21.50	17.00	17.50	19.00	15.60	17.00	16.10		17.50
	802.11n-HT20 MCS0	1	2412	Full	19.30	21.00	15.50	17.00	Not Required	14.50	19.30	21.00	Not Required	17.00	17.70	19.50	15.50	17.00	16.20	17.50	100.00	
		6	2437	Full	21.20	22.50	16.10	17.50	Not Required	14.50	20.40	22.00	Not Required	17.00	19.00	19.50	15.10	17.50	16.40	18.00		
		11	2462	Full	19.30	21.00	15.60	17.00	Not Required	14.50	19.30	21.00	Not Required	17.00	17.60	19.00	15.70	17.00	16.10	17.50		
		3	2422	Full	19.00	21.00	15.30	17.00	Not Required	14.50	19.00	21.00	Not Required	17.00	15.30	17.00	15.30	17.00	15.30	17.00		
		6	2437	Full	19.50	20.00	16.10	17.50	Not Required	14.50	18.70	20.00	Not Required	17.00	16.20	19.50	16.10	17.50	16.60	18.00		
		9	2452	Full	19.20	20.00	15.20	16.80	Not Required	14.50	18.20	20.00	Not Required	16.50	15.20	16.50	15.20	16.50	15.20	16.50		

<Bluetooth>			Ant 6					
Mode	Channel	Frequency (MHz)	Average power (dBm)					
			1Mbps	Tune-up Limit	2Mbps	Tune-up Limit	3Mbps	Tune-up Limit
BR / EDR	CH 00	2402	12.10	14.00	9.20	10.50	9.20	13.00
	CH 39	2441	12.20	14.00	9.30	10.50	9.30	13.00
	CH 76	2480	12.30	14.00	9.30	10.50	9.30	13.00

			Ant 6		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	125Kbps	500Kbps
LE	CH 00	2402	9.50	9.70	9.50
	CH 19	2440	9.70	9.50	9.70
	CH 39	2479	10.30	10.00	10.40
Tune-up Limit			11.50	11.50	11.50

			Ant 6	
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	
LE	CH 01	2404	10.50	
	CH 19	2440	10.30	
	CH 38	2476	10.70	
Tune-up Limit			11.50	