



Full&Default Power Mode

Tx Channel	Rated Average Power (dBm)			Turn-up (dBm)	Frame-Average Power Levels			Turn-up (dBm)
	5A.1	5A.4	5A.8		5A.1	5A.4	5A.8	
DMR 1 Tx Wd	31.72	31.81	31.88	33.50	22.72	22.81	22.88	24.50
DMR 2 Tx Wd	31.72	31.86	31.92	33.50	22.71	22.85	22.92	24.50
DMR 3 Tx Wd	30.55	30.59	30.62	32.00	24.05	24.09	24.12	25.50
DMR 4 Tx Wd	29.03	29.11	29.16	30.00	24.80	24.87	24.94	26.74
DMR 5 Tx Wd	27.70	27.87	27.92	29.00	24.70	24.87	24.92	26.00
EDGE 1 Tx Wd	26.36	26.37	26.41	28.00	17.00	17.01	17.04	19.00
EDGE 2 Tx Wd	25.20	25.31	25.29	26.50	19.28	19.31	19.29	20.50
EDGE 3 Tx Wd	23.34	23.39	23.23	24.50	19.08	19.13	19.07	20.24
EDGE 4 Tx Wd	21.81	21.85	21.79	23.00	18.83	18.85	18.78	20.00

Tx Channel	WCDMA V A/E G			Turn-up (dBm)
	4182	4182	4293	
SCPP Rel 99	22.30	22.49	22.44	24.00
SCPP Rel 99	22.41	22.53	22.50	24.00
SCPP Rel 8	21.50	21.58	21.48	23.00
SCPP Rel 8	21.44	21.51	21.43	23.00
SCPP Rel 8	20.98	21.06	21.02	22.50
SCPP Rel 8	20.94	21.05	20.94	22.50
SCPP Rel 8	21.55	21.55	21.55	23.00
SCPP Rel 8	21.44	21.49	21.53	23.00
SCPP Rel 8	20.94	21.00	21.01	22.50
SCPP Rel 8	20.98	21.05	21.04	22.50
SCPP Rel 8	21.55	21.56	21.47	23.00
SCPP Rel 8	19.53	19.53	19.49	21.00
SCPP Rel 8	20.50	20.59	20.48	22.00
SCPP Rel 8	19.45	19.55	19.46	21.00
SCPP Rel 8	21.54	21.48	21.48	23.00
SCPP Rel 7	19.05	19.05	19.03	20.50



GSM 1900 Ant 1 Tx Channel	Power Average Power (dBm)			Turn-up Limit (dBm)	Power Average Power (dBm)			Turn-up Limit (dBm)
	1502	1601	1810		1502	1601	1810	
Frequency (MHz)	1900.2	1900	1900.8	1900.2	1900	1900.8	1900	
GSM 1 Tx Wdr	28.97	28.97	28.97	30.50	19.97	20.04	20.00	
OPRR 1 Tx Wdr	28.97	28.04	28.00	30.50	19.97	20.04	20.00	
OPRR 2 Tx Wdr	28.19	28.23	28.20	29.50	22.19	22.23	22.20	
OPRR 3 Tx Wdr	28.22	28.27	28.24	27.50	21.96	22.01	21.98	
OPRR 4 Tx Wdr	25.18	25.22	25.18	26.50	22.18	22.22	22.18	
EDGE 1 Tx Wdr	23.71	23.71	23.64	25.00	14.71	14.71	14.64	
EDGE 2 Tx Wdr	22.21	22.16	22.23	23.50	18.21	18.16	18.23	
EDGE 3 Tx Wdr	22.18	22.24	22.19	21.50	18.18	18.24	18.19	
EDGE 4 Tx Wdr	18.81	18.74	18.85	20.00	15.81	15.74	15.85	

Band Tx Channel Rx Channel	WCDMA 8 Ant 1			Turn-up Limit (dBm)	WCDMA 8 Ant 1			Turn-up Limit (dBm)
	9602	9600	9608		1512	1511	1513	
Frequency (MHz)	9602	9600	9608	9602	9600	9608	9602	
SCPP Rel W	22.42	22.54	22.47	24.00	22.52	22.49	22.57	
SCPP Rel W	22.56	22.63	22.59	24.00	22.46	22.55	22.49	
SCPP Rel B	21.81	21.89	21.83	23.00	21.43	21.59	21.48	
SCPP Rel B	21.89	21.89	21.89	23.00	21.48	21.89	21.48	
SCPP Rel B	21.84	21.18	21.09	22.50	20.96	21.01	20.91	
SCPP Rel B	21.88	21.12	21.07	22.50	20.96	21.08	20.94	
SCPP Rel B	21.38	21.60	21.57	23.00	21.47	21.55	21.46	
SCPP Rel B	21.53	21.01	21.54	23.00	21.45	21.51	21.45	
SCPP Rel B	21.11	21.12	21.13	22.50	20.92	21.04	21.07	
SCPP Rel B	21.02	21.18	21.08	22.50	20.95	21.08	20.97	
SCPP Rel B	21.58	21.67	21.61	23.00	21.48	21.80	21.59	
SCPP Rel B	20.25	19.95	20.04	21.50	18.46	18.52	18.46	
SCPP Rel B	20.61	20.59	20.63	22.00	20.41	20.49	20.51	
SCPP Rel B	19.56	19.85	19.81	21.00	19.43	19.59	19.54	
SCPP Rel B	21.51	21.87	21.83	23.00	21.48	21.85	21.48	
SCPP Rel B	19.68	19.18	19.07	20.50	18.95	18.11	19.05	



GSM-R A/E 4	Band Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit
	19A	19B	20A		19A	19B	20A	
TX Channel	824.2	836.4	848.6	(dBm)	84.2	96.4	108.6	(dBm)
Frequency (MHz)	813.7	815.0	816.3	(dBm)	82.7	82.0	82.3	(dBm)
OPRR 1 Tx side	-31.21	-31.03	-31.16	-32.60	-22.21	-22.23	-22.16	-23.60
OPRR 2 Tx side	30.28	30.32	30.20	31.00	24.28	24.32	24.20	25.00
OPRR 3 Tx side	-28.36	-28.41	-28.39	-29.00	-24.13	-24.16	-24.13	-24.14
OPRR 4 Tx side	-27.13	-27.18	-27.15	-28.00	-24.13	-24.18	-24.15	-25.00
EDGE 1 Tx side	-29.93	-29.97	-29.91	-27.00	-17.29	-17.37	-17.31	-18.00
EDGE 2 Tx side	-24.79	-24.81	-24.76	-25.50	-18.79	-18.81	-18.78	-19.50
EDGE 3 Tx side	-21.86	-22.01	-22.72	-23.54	-18.56	-18.46	-18.24	-19.24
EDGE 4 Tx side	-21.34	-21.57	-21.23	-22.00	-18.24	-18.37	-18.23	-19.00

Band	WCDMA V A/E 4			Tune-up Limit
	4132	4133	4133	
TX Channel	4157	4157	4159	(dBm)
Rx Channel	4157	4157	4159	(dBm)
Frequency (MHz)	814	814	816	(dBm)
ISPP Rel 99	AWG 12 200us	-25.13	-25.18	-25.00
ISPP Rel 99	RMC 15 200us	-22.23	-22.28	-22.18
ISPP Rel 6	HEOPA Subclass 1	-21.19	-21.27	-21.18
ISPP Rel 6	HEOPA Subclass 2	-21.18	-21.25	-21.19
ISPP Rel 6	HEOPA Subclass 3	-22.72	-22.79	-22.69
ISPP Rel 6	HEOPA Subclass 4	-20.89	-20.89	-20.76
ISPP Rel 6	DC-HEOPA Subclass 1	-21.21	-21.20	-21.18
ISPP Rel 6	DC-HEOPA Subclass 2	-21.22	-21.20	-21.21
ISPP Rel 6	DC-HEOPA Subclass 3	-20.71	-20.75	-20.85
ISPP Rel 6	DC-HEOPA Subclass 4	-20.74	-20.78	-20.89
ISPP Rel 6	HELPA Subclass 1	-21.22	-21.20	-21.18
ISPP Rel 6	HELPA Subclass 2	-20.24	-20.25	-20.24
ISPP Rel 6	HELPA Subclass 3	-20.22	-20.21	-20.17
ISPP Rel 6	HELPA Subclass 4	-19.22	-19.23	-19.24
ISPP Rel 6	HELPA Subclass 5	-21.28	-21.29	-21.15
ISPP Rel 7	ISPPA (ISQAM) Subclass 1	-18.79	-18.77	-18.63



Band 2 Main&other PA Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (W) Ch. 1/Freq., Power (W) Ch. 2/Freq., Turn-up (min), MPR (dB). Rows include OFDM and OFDMA configurations for various frequencies.

Band 4 Main&other PA Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (W) Ch. 1/Freq., Power (W) Ch. 2/Freq., Turn-up (min), MPR (dB). Rows include OFDM and OFDMA configurations for various frequencies.

Band 5 Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (W) Ch. 1/Freq., Power (W) Ch. 2/Freq., Turn-up (min), MPR (dB). Rows include OFDM and OFDMA configurations for various frequencies.

Band 7 Main&other PA Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (W) Ch. 1/Freq., Power (W) Ch. 2/Freq., Turn-up (min), MPR (dB). Rows include OFDM and OFDMA configurations for various frequencies.



Band 42 FCC Part27Q Ant 3

Bit (Hz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42990	42990		
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	22.20	22.20	22.20	24	0
20	QPSK	1	48	22.20	22.31	22.23		
20	QPSK	1	96	22.20	22.21	22.18		
20	QPSK	50	0	21.35	21.30	21.33		
20	QPSK	50	24	21.22	21.28	21.25	23	1
20	QPSK	50	48	21.32	21.22	21.15		
20	QPSK	100	0	21.33	21.38	21.28		
20	HQAM	1	0	21.24	21.32	21.28		
20	HQAM	1	48	21.13	21.27	21.25	23	1
20	HQAM	1	96	21.31	21.17	21.10		
20	HQAM	50	0	20.38	20.36	20.29		
20	HQAM	50	24	20.35	20.30	20.30	22	2
20	HQAM	50	50	20.30	20.27	20.12		
20	HQAM	100	0	20.28	20.28	20.21		
20	HQAM	1	0	20.22	20.27	20.25		
20	HQAM	1	48	20.18	20.28	20.25	22	2
20	HQAM	1	96	20.35	20.20	20.13		
20	HQAM	50	0	19.37	19.43	19.32		
20	HQAM	50	24	19.20	19.32	19.22	21	3
20	HQAM	50	50	19.34	19.22	19.19		
20	HQAM	100	0	19.37	19.30	19.32		
20	SBSQAM	1	0	17.35	17.20	17.33		
20	SBSQAM	1	48	17.27	17.24	17.28	19	5
20	SBSQAM	1	96	17.27	17.27	17.17		
20	SBSQAM	36	0	17.28	17.28	17.28		
20	SBSQAM	36	24	17.25	17.34	17.25	19	5
20	SBSQAM	50	0	17.17	17.23	17.28		
20	SBSQAM	100	0	17.31	17.23	17.14		
Channel				42195	42990	43015		
Frequency (MHz)				3462.5	3500	3542.5		
15	QPSK	1	0	22.20	22.22	22.22	24	0
15	QPSK	1	37	22.15	22.30	22.17		
15	QPSK	1	74	22.20	22.21	22.08		
15	QPSK	36	0	21.33	21.27	21.33	23	1
15	QPSK	36	20	21.11	21.18	21.14		
15	QPSK	36	36	21.09	21.21	21.10		
15	QPSK	75	0	21.30	21.34	21.28		
15	HQAM	1	0	21.12	21.22	21.16		
15	HQAM	1	37	21.12	21.24	21.24	23	1
15	HQAM	1	74	21.30	21.00	21.02		
15	HQAM	36	0	20.34	20.24	20.29		
15	HQAM	36	36	20.19	20.22	20.18	22	2
15	HQAM	36	36	20.28	20.25	20.07		
15	HQAM	75	0	20.18	20.22	20.19		
15	HQAM	1	0	20.15	20.22	20.18		
15	HQAM	1	37	20.18	20.18	20.17	22	2
15	HQAM	1	74	20.32	20.16	20.11		
15	HQAM	36	0	19.35	19.34	19.22		
15	HQAM	36	20	19.16	19.31	19.13	21	3
15	HQAM	36	36	19.27	19.17	19.18		
15	HQAM	75	0	19.27	19.25	19.20		
15	SBSQAM	1	0	17.35	17.29	17.33	19	5
15	SBSQAM	1	37	17.22	17.35	17.27		
15	SBSQAM	1	74	17.27	17.24	17.11		
15	SBSQAM	36	0	17.28	17.31	17.23		
15	SBSQAM	36	20	17.21	17.29	17.25	19	5
15	SBSQAM	36	36	17.18	17.18	17.24		
15	SBSQAM	75	0	17.21	17.10	17.13		
Channel				42190	42990	43015		
Frequency (MHz)				3465	3500	3545		
10	QPSK	1	0	22.20	22.27	22.17	24	0
10	QPSK	1	25	22.18	22.21	22.13		
10	QPSK	1	49	22.25	22.21	22.07		
10	QPSK	36	0	21.33	21.38	21.29	23	1
10	QPSK	25	12	21.15	21.21	21.19		
10	QPSK	25	25	21.27	21.15	21.12		
10	QPSK	50	0	21.24	21.34	21.20		
10	HQAM	1	0	21.15	21.28	21.22	23	1
10	HQAM	1	25	21.13	21.16	21.22		
10	HQAM	1	49	21.28	21.11	21.01		
10	HQAM	25	0	20.34	20.30	20.24		
10	HQAM	25	12	20.18	20.22	20.24	22	2
10	HQAM	25	25	20.24	20.25	20.20		
10	HQAM	50	0	20.24	20.25	20.23		
10	HQAM	1	0	20.14	20.23	20.24		
10	HQAM	1	25	20.14	20.21	20.20	22	2
10	HQAM	1	49	20.27	20.15	20.01		
10	HQAM	25	0	19.28	19.29	19.24		
10	HQAM	25	12	19.09	19.23	19.18	21	3
10	HQAM	25	25	19.24	19.10	19.15		
10	HQAM	50	0	19.35	19.20	19.21		
10	SBSQAM	1	0	17.23	17.28	17.33		
10	SBSQAM	1	25	17.17	17.16	17.27	19	5
10	SBSQAM	1	49	17.24	17.19	17.06		
10	SBSQAM	25	0	17.19	17.34	17.18		
10	SBSQAM	25	12	17.21	17.28	17.17	19	5
10	SBSQAM	25	25	17.17	17.13	17.25		
10	SBSQAM	50	0	17.21	17.18	17.19		
Channel				42195	42990	43015		
Frequency (MHz)				3462.5	3500	3547.5		
5	QPSK	1	0	22.25	22.22	22.19	24	0
5	QPSK	1	15	22.18	22.21	22.15		
5	QPSK	1	24	22.25	22.21	22.10		
5	QPSK	12	0	21.32	21.36	21.44	23	1
5	QPSK	12	7	21.12	21.52	21.18		
5	QPSK	12	13	21.28	21.10	21.11		
5	QPSK	25	0	21.23	21.38	21.28		
5	HQAM	1	0	21.13	21.22	21.25	23	1
5	HQAM	1	12	21.12	21.23	21.20		
5	HQAM	1	24	21.21	21.08	21.02		
5	HQAM	12	0	20.28	20.24	20.28		
5	HQAM	12	7	20.18	20.22	20.25	22	2
5	HQAM	12	13	20.28	20.18	20.06		
5	HQAM	25	0	20.20	20.28	20.20		
5	HQAM	1	0	20.19	20.16	20.19	22	2
5	HQAM	1	12	20.08	20.21	20.16		
5	HQAM	1	24	20.32	20.16	20.04		
5	HQAM	12	0	19.38	19.24	19.22		
5	HQAM	12	7	19.15	19.21	19.18	21	3
5	HQAM	12	13	19.24	19.13	19.08		
5	HQAM	25	0	19.38	19.27	19.29		
5	SBSQAM	1	0	17.20	17.28	17.21		
5	SBSQAM	1	12	17.22	17.17	17.23	19	5
5	SBSQAM	1	24	17.22	17.28	17.13		
5	SBSQAM	12	0	17.20	17.30	17.24		
5	SBSQAM	12	7	17.18	17.34	17.19	19	5
5	SBSQAM	12	13	17.08	17.13	17.24		
5	SBSQAM	25	0	17.25	17.17	17.11		



Reduced Power Mode for ECI 2

ECI Channel	Redd. Average Power (dBm)			Tx Power (dBm)	Flatten Average Power (dBm)			Tx Power (dBm)
	842.2	848.4	848.8		842.2	848.4	848.8	
DRM 1 Tx Wd	31.72	31.81	31.86	33.50	22.72	22.81	22.86	24.50
OPRS 1 Tx Wd	31.75	31.88	31.95	33.50	22.71	22.86	22.92	24.50
OPRS 2 Tx Wd	30.56	30.99	30.92	30.00	24.65	24.90	24.92	26.00
OPRS 3 Tx Wd	29.08	29.15	29.18	30.00	24.62	24.87	24.84	26.74
OPRS 4 Tx Wd	27.79	27.87	27.92	29.00	24.79	24.87	24.92	26.00
EDGE 1 Tx Wd	26.36	26.69	26.86	26.00	19.89	19.89	19.89	20.00
EDGE 2 Tx Wd	25.39	25.31	25.30	26.00	19.29	19.31	19.29	20.00
EDGE 3 Tx Wd	23.34	23.39	23.23	24.00	18.05	18.13	18.07	20.24
EDGE 4 Tx Wd	21.85	21.88	21.78	23.00	16.82	16.85	16.78	20.00

Tx Channel	HSDMA 1 Redd. ECG			Tx Power (dBm)	
	4150	4180	4230		
Frequency (MHz)	4357	4407	4468		
ISPP Redd. #	856.4	856.4	848.8		
ISPP Redd. #	AMR 12 20ksp	22.38	22.49	22.44	24.00
ISPP Redd. #	RMG 12 20ksp	22.40	22.53	22.50	24.00
ISPP Redd. #	HSDPA Subclass 1	21.80	21.58	21.40	23.00
ISPP Redd. #	HSDPA Subclass 2	21.40	21.52	21.40	23.00
ISPP Redd. #	HSDPA Subclass 3	20.98	21.08	21.05	22.50
ISPP Redd. #	HSDPA Subclass 4	20.54	21.05	20.94	22.50
ISPP Redd. #	DCHSDPA Subclass 1	21.50	21.50	21.48	23.00
ISPP Redd. #	DCHSDPA Subclass 2	21.44	21.49	21.51	23.00
ISPP Redd. #	DCHSDPA Subclass 3	20.94	21.09	21.09	22.50
ISPP Redd. #	DCHSDPA Subclass 4	20.98	21.05	21.04	22.50
ISPP Redd. #	HSPA Subclass 1	21.66	21.68	21.47	23.00
ISPP Redd. #	HSPA Subclass 2	19.25	19.41	19.40	21.00
ISPP Redd. #	HSPA Subclass 3	20.90	20.99	20.48	22.00
ISPP Redd. #	HSPA Subclass 4	18.40	18.55	18.40	21.00
ISPP Redd. #	HSPA Subclass 5	21.54	21.48	21.48	23.00
ISPP Redd. #	HSPA 1 (VCAN) Subclass 1	18.90	19.08	19.00	20.50



GSM 1900 AM 1 EC2	E-UTRA Average Power (dBm)			Turn-up Limit (dBm)	E-UTRA Average Power (dBm)			Turn-up Limit (dBm)
	1920	1875	1830		1920	1875	1830	
Frequency (MHz)	1920.2	1890	1920.8	1920	1920.2	1890	1920.8	
GSM Tx Power	21.50	21.07	22.00	21.50	22.00	21.07	22.00	
OPRS 1 Tx Watt	28.07	29.04	29.02	30.50	30.07	29.04	29.02	
OPRS 2 Tx Watt	28.10	28.23	28.30	30.50	22.10	22.23	22.30	
OPRS 3 Tx Watt	28.22	28.27	28.34	31.00	21.00	22.00	21.00	
OPRS 4 Tx Watt	25.18	25.22	25.18	26.50	22.18	22.22	22.18	
EDGE 1 Tx Watt	23.71	23.71	23.84	25.00	14.71	14.71	14.84	
EDGE 2 Tx Watt	22.21	22.16	22.23	23.50	16.21	16.16	16.23	
EDGE 3 Tx Watt	22.30	22.29	22.37	23.50	16.30	16.29	16.37	
EDGE 4 Tx Watt	18.61	18.74	18.68	20.00	15.61	15.74	15.68	

Band	WCDMA II AM 1 EC2			Turn-up Limit (dBm)	WCDMA IV AM 1 EC2			Turn-up Limit (dBm)
	5925	5900	5925		1313	1313	1313	
Band	5925	5900	5925	1313	1313	1313		
Rx Channel	5925	5900	5925	1313	1313	1313		
Frequency (MHz)	5925.2	5900	5925.8	1313.4	1313	1313		
ISPP Ref 50	22.45	22.54	22.47	24.00	22.55	22.49		
ISPP Ref 50	RNC 12 20sec	22.55	22.53	24.00	22.45	22.50		
ISPP Ref 5	HSPA Subcat 3	21.01	21.09	21.00	21.43	21.50		
ISPP Ref 5	HSPA Subcat 2	21.50	21.89	21.50	21.48	21.60		
ISPP Ref 5	HSPA Subcat 3	21.04	21.16	21.03	20.95	21.00		
ISPP Ref 5	HSPA Subcat 4	21.08	21.12	21.07	22.50	20.96		
ISPP Ref 5	DC-HSPA Subcat 1	21.58	21.80	21.50	23.00	21.47		
ISPP Ref 5	DC-HSPA Subcat 2	21.51	21.80	21.54	23.00	21.40		
ISPP Ref 5	DC-HSPA Subcat 3	21.11	21.12	21.13	22.50	20.92		
ISPP Ref 5	DC-HSPA Subcat 4	21.02	21.18	21.08	22.00	20.95		
ISPP Ref 5	HSPA Subcat 1	21.58	21.87	21.61	23.00	21.48		
ISPP Ref 5	HSPA Subcat 2	18.50	18.58	18.54	21.00	18.50		
ISPP Ref 5	HSPA Subcat 3	20.01	20.09	20.03	22.00	20.41		
ISPP Ref 5	HSPA Subcat 4	19.56	19.65	19.61	21.00	19.43		
ISPP Ref 5	HSPA Subcat 3	21.51	21.82	21.63	23.00	21.48		
ISPP Ref 7	HSPA (HSPA) Subcat 1	19.08	19.18	19.07	20.50	18.95		



GSM900 Ar4 ECG	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame Average Power (dBm)			Time-up Limit (dBm)
	198	199	199.1		198	199	199.1	
TX Channel	437	437	437	437	437	437	437	
Frequency (MHz)	846.2	846.4	846.8	846.2	846.4	846.8	846.8	
QPSK 1 Tx rate	31.21	31.23	31.15	32.50	22.21	22.23	22.15	
QPSK 2 Tx rate	28.77	28.80	28.71	29.50	22.77	22.80	22.71	
QPSK 3 Tx rate	27.03	27.06	27.07	27.50	22.77	22.82	22.81	
QPSK 4 Tx rate	25.49	25.54	25.52	26.50	22.49	22.54	22.52	
EDGE 1 Tx rate	26.20	26.37	26.31	27.00	17.20	17.37	17.31	
EDGE 2 Tx rate	24.70	24.81	24.70	25.50	18.70	18.81	18.70	
EDGE 3 Tx rate	23.40	23.41	23.32	23.50	18.54	18.55	18.46	
EDGE 4 Tx rate	21.24	21.37	21.03	22.00	18.24	18.37	18.23	

Band	WCDMA Ar4 ECG			Time-up Limit (dBm)
	437	437	437	
TX Channel	437	437	437	437
Frequency (MHz)	846.2	846.4	846.8	846.8
SCPP Rel 99	AMR 12.2kps	21.45	21.47	21.41
SCPP Rel 99	AMR 12.2kps	21.47	21.48	21.46
SCPP Rel 8	HSPA Subcat 1	20.43	20.45	20.39
SCPP Rel 8	HSPA Subcat 2	20.40	20.46	20.45
SCPP Rel 8	HSPA Subcat 3	19.01	19.06	19.03
SCPP Rel 8	HSPA Subcat 4	18.98	19.01	18.94
SCPP Rel 8	DC-HSPA Subcat 1	20.44	20.47	20.42
SCPP Rel 8	DC-HSPA Subcat 2	20.55	20.49	20.51
SCPP Rel 8	DC-HSPA Subcat 3	19.90	19.96	19.85
SCPP Rel 8	DC-HSPA Subcat 4	19.93	20.04	20.00
SCPP Rel 8	HSPA Subcat 1	20.44	20.43	20.38
SCPP Rel 8	HSPA Subcat 2	20.44	20.46	20.39
SCPP Rel 8	HSPA Subcat 3	19.02	19.09	19.00
SCPP Rel 8	HSPA Subcat 4	18.46	18.48	18.47
SCPP Rel 7	HSPA (HSPA) Subcat 1	20.46	20.48	20.36
SCPP Rel 7	HSPA (HSPA) Subcat 1	18.04	18.02	17.94



Band 42 FCC Part27Q Ant 3 EC12

Bit (Hz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3490	3590	3690		
20	QPSK	1	0	14.96	15.00	14.92	16	0
20	QPSK	1	49	14.81	14.87	14.82		
20	QPSK	1	99	14.67	14.81	14.74		
20	QPSK	50	0	14.91	14.97	14.90		
20	QPSK	50	24	14.77	14.88	14.87		
20	QPSK	50	49	14.68	14.81	14.82		
20	QPSK	100	0	14.89	14.93	14.84		
20	HQAM	1	0	14.79	14.95	14.83		
20	HQAM	1	49	14.67	14.88	14.82		
20	HQAM	1	99	14.74	14.73	14.71		
20	HQAM	50	0	14.83	14.91	14.89		
20	HQAM	50	24	14.81	14.88	14.82		
20	HQAM	50	50	14.93	14.86	14.70		
20	HQAM	100	0	14.92	14.86	14.87		
20	HQAM	1	0	14.85	14.93	14.85		
20	HQAM	1	49	14.80	14.91	14.88		
20	HQAM	1	99	14.88	14.84	14.85		
20	HQAM	50	0	14.92	14.97	14.85		
20	HQAM	50	24	14.75	14.95	14.81		
20	HQAM	50	50	14.87	14.75	14.81		
20	HQAM	100	0	14.89	14.87	14.84		
20	SBSAM	1	0	14.89	14.96	14.89		
20	SBSAM	1	49	14.85	14.88	14.89		
20	SBSAM	1	99	14.81	14.88	14.75		
20	SBSAM	50	0	14.88	14.82	14.89		
20	SBSAM	50	24	14.78	14.94	14.89		
20	SBSAM	50	50	14.73	14.88	14.87		
20	SBSAM	100	0	14.88	14.82	14.73		
Channel								
Frequency (MHz)				3695	3795	3895		
15	QPSK	1	0	14.92	14.93	14.92	16	0
15	QPSK	1	37	14.79	14.78	14.74		
15	QPSK	1	74	14.84	14.77	14.83		
15	QPSK	36	0	14.89	14.87	14.87		
15	QPSK	36	20	14.68	14.87	14.85		
15	QPSK	36	39	14.77	14.78	14.86		
15	QPSK	75	0	14.79	14.83	14.77		
15	HQAM	1	0	14.76	14.89	14.77		
15	HQAM	1	37	14.68	14.77	14.68		
15	HQAM	1	74	14.74	14.72	14.64		
15	HQAM	36	0	14.82	14.87	14.80		
15	HQAM	36	39	14.74	14.83	14.70		
15	HQAM	36	39	14.87	14.84	14.86		
15	HQAM	75	0	14.90	14.82	14.77		
15	HQAM	1	0	14.78	14.82	14.85		
15	HQAM	1	37	14.70	14.89	14.81		
15	HQAM	1	74	14.82	14.74	14.83		
15	HQAM	36	0	14.88	14.84	14.84		
15	HQAM	36	20	14.69	14.84	14.77		
15	HQAM	36	39	14.65	14.89	14.81		
15	HQAM	75	0	14.89	14.92	14.90		
15	SBSAM	1	0	14.81	14.93	14.85		
15	SBSAM	1	37	14.83	14.82	14.83		
15	SBSAM	1	74	14.78	14.79	14.67		
15	SBSAM	36	0	14.84	14.85	14.89		
15	SBSAM	36	20	14.72	14.83	14.78		
15	SBSAM	36	39	14.70	14.79	14.80		
15	SBSAM	75	0	14.78	14.76	14.81		
Channel								
Frequency (MHz)				3895	3990	4095		
10	QPSK	1	0	14.84	14.81	14.86	16	0
10	QPSK	1	25	14.80	14.82	14.81		
10	QPSK	1	49	14.78	14.73	14.69		
10	QPSK	36	0	14.88	14.83	14.84		
10	QPSK	25	12	14.73	14.88	14.78		
10	QPSK	25	25	14.88	14.81	14.87		
10	QPSK	50	0	14.79	14.84	14.76		
10	HQAM	1	0	14.89	14.92	14.78		
10	HQAM	1	25	14.87	14.82	14.74		
10	HQAM	1	49	14.85	14.83	14.81		
10	HQAM	25	0	14.83	14.84	14.82		
10	HQAM	25	12	14.75	14.86	14.76		
10	HQAM	25	25	14.90	14.73	14.83		
10	HQAM	50	0	14.84	14.83	14.87		
10	HQAM	1	0	14.84	14.83	14.81		
10	HQAM	1	25	14.72	14.80	14.79		
10	HQAM	1	49	14.84	14.79	14.86		
10	HQAM	25	0	14.82	14.81	14.80		
10	HQAM	25	12	14.66	14.88	14.72		
10	HQAM	25	25	14.85	14.84	14.78		
10	HQAM	50	0	14.88	14.79	14.88		
10	SBSAM	1	0	14.85	14.81	14.87		
10	SBSAM	1	25	14.80	14.77	14.86		
10	SBSAM	1	49	14.77	14.78	14.84		
10	SBSAM	25	0	14.88	14.85	14.79		
10	SBSAM	25	12	14.70	14.84	14.83		
10	SBSAM	25	25	14.85	14.71	14.85		
10	SBSAM	50	0	14.87	14.81	14.85		
Channel								
Frequency (MHz)				4095	4200	4305		
5	QPSK	1	0	14.94	14.93	14.88	16	0
5	QPSK	1	19	14.70	14.84	14.72		
5	QPSK	1	24	14.83	14.78	14.85		
5	QPSK	12	0	14.80	14.89	14.79		
5	QPSK	12	7	14.75	14.77	14.81		
5	QPSK	12	13	14.80	14.84	14.82		
5	QPSK	25	0	14.77	14.87	14.84		
5	HQAM	1	0	14.76	14.90	14.80		
5	HQAM	1	12	14.87	14.88	14.79		
5	HQAM	1	24	14.71	14.72	14.63		
5	HQAM	12	0	14.91	14.98	14.72		
5	HQAM	12	7	14.78	14.83	14.76		
5	HQAM	12	13	14.89	14.83	14.70		
5	HQAM	25	0	14.84	14.78	14.77		
5	HQAM	1	0	14.83	14.70	14.80		
5	HQAM	1	12	14.75	14.80	14.84		
5	HQAM	1	24	14.80	14.77	14.60		
5	HQAM	12	0	14.81	14.86	14.83		
5	HQAM	12	7	14.73	14.87	14.77		
5	HQAM	12	13	14.87	14.69	14.79		
5	HQAM	25	0	14.78	14.78	14.83		
5	SBSAM	1	0	14.87	14.98	14.81		
5	SBSAM	1	12	14.74	14.81	14.83		
5	SBSAM	1	24	14.80	14.78	14.68		
5	SBSAM	12	0	14.84	14.82	14.85		
5	SBSAM	12	7	14.71	14.85	14.79		
5	SBSAM	12	13	14.72	14.88	14.81		
5	SBSAM	25	0	14.82	14.71	14.87		



Reduced Power Mode for ECI 3

VCCQMA_Ant 0 ECI3		Redd Average Power (dBm)			Transp			Transp Average Power (dBm)			Turn-up
3G Channel	Frequency (MHz)	834.2	834.4	834.8	834.2	834.4	834.8	834.2	834.4	834.8	dBm
DRM 1 Tx Wtd		31.72	31.81	31.86	33.50	22.72	22.81	22.86	24.50		
OPNS 1 Tx Wtd		31.75	31.88	31.95	33.50	22.71	22.86	22.82	24.50		
OPNS 2 Tx Wtd		30.50	30.52	29.50	31.50	24.00	24.52	21.50	25.50		
OPNS 3 Tx Wtd		28.61	28.54	28.61	28.50	24.20	24.00	24.27	25.04		
OPNS 4 Tx Wtd		28.60	28.83	28.70	28.50	23.80	23.83	23.70	25.10		
EDGE 1 Tx Wtd		25.20	25.31	25.24	25.00	19.20	19.31	19.24	20.00		
EDGE 2 Tx Wtd		25.24	25.30	25.25	24.50	19.00	19.13	19.07	20.24		
EDGE 4 Tx Wtd		21.95	21.80	21.70	23.00	18.80	18.85	18.70	20.00		

Band		VCCQMA_V Ant 0 ECI3			Turn-up
3G Channel	Frequency (MHz)	4150	4152	4250	dBm
SCPP Rel 0	AMR 12 2400s	22.38	22.49	22.44	24.00
SCPP Rel 0	AMR 12 2400s	22.42	22.53	22.52	24.00
SCPP Rel 0	HECPA Subcar-1	21.50	21.58	21.48	23.00
SCPP Rel 0	HECPA Subcar-2	21.40	21.51	21.40	23.00
SCPP Rel 0	HECPA Subcar-3	20.98	21.06	21.00	22.50
SCPP Rel 0	HECPA Subcar-4	20.94	21.00	20.94	22.50
SCPP Rel 0	DC-HECPA Subcar-2	21.44	21.49	21.53	23.00
SCPP Rel 0	DC-HECPA Subcar-3	20.94	21.00	21.01	22.50
SCPP Rel 0	DC-HECPA Subcar-4	20.90	21.02	21.04	22.50
SCPP Rel 0	HECPA Subcar-5	21.50	21.56	21.44	23.00
SCPP Rel 0	HECPA Subcar-6	19.51	19.51	19.40	21.00
SCPP Rel 0	HECPA Subcar-7	20.50	20.50	20.48	22.00
SCPP Rel 0	HECPA Subcar-8	19.45	19.55	19.46	21.00
SCPP Rel 0	HECPA Subcar-9	21.54	21.48	21.48	23.00
SCPP Rel 0	HECPA TDM-AMR Subcar-1	18.90	19.00	19.00	20.50



GSM 1900 Rev E EC3	Send Average Power (dBm)			Turn-up Limit	E-UTRA Average Power (dBm)			Turn-up Limit
	591	601	610		619	609	619	
Frequency (MHz)	1900.2	1900	1900.8	(dBm)	1900.2	1900	1900.8	(dBm)
QPSK 1 Tx Min	28.97	29.04	29.02	30.50	19.97	20.04	20.02	21.50
QPSK 2 Tx Min	28.19	28.23	28.20	29.50	20.19	20.23	20.20	21.50
QPSK 3 Tx Min	28.22	28.25	28.24	29.50	21.06	20.91	21.06	22.54
QPSK 4 Tx Min	25.16	25.22	25.18	26.50	22.16	22.22	22.18	23.55
EDGE 1 Tx Min	23.71	23.71	23.66	25.00	16.71	16.71	16.66	18.00
EDGE 2 Tx Min	22.21	22.18	22.23	23.50	16.21	16.18	16.23	17.50
EDGE 3 Tx Min	20.16	20.25	20.16	21.50	13.69	13.69	13.69	14.94
EDGE 4 Tx Min	18.61	18.74	18.66	20.00	15.61	15.74	15.66	17.00

Band	WCDMA II AM 1 EC3			Turn-up Limit	WCDMA IV AM 1 EC3			Turn-up Limit
	592	600	608		1537	1638	1738	
Tx Channel	592	600	608	(dBm)	1537	1638	1738	(dBm)
Rx Channel	592	600	608		1537	1638	1738	
Frequency (MHz)	1824	1808	1824	21.50	1824	1808	1824	21.50
ISPP Pwr 0	20.55	20.43	20.53	21.50	20.26	20.33	20.27	21.50
ISPP Pwr 0	20.41	20.52	20.45	21.60	20.28	20.43	20.31	21.50
ISPP Pwr 0	19.52	19.52	19.52	20.60	19.28	19.42	19.35	20.50
ISPP Pwr 0	19.46	19.60	19.39	20.60	19.40	19.41	19.27	20.50
ISPP Pwr 0	18.55	18.56	18.50	20.10	18.50	18.49	18.51	19.80
ISPP Pwr 0	18.60	18.66	18.69	20.10	18.79	18.68	18.86	19.69
ISPP Pwr 0	18.46	18.47	18.47	20.60	18.31	18.41	18.31	20.50
ISPP Pwr 0	18.55	18.55	18.48	20.60	18.35	18.35	18.25	20.50
ISPP Pwr 0	18.92	18.99	19.03	20.10	18.85	18.87	18.82	19.60
ISPP Pwr 0	18.88	19.03	18.90	20.10	18.78	18.89	18.81	19.60
ISPP Pwr 0	18.39	18.50	18.41	20.60	18.34	18.53	18.35	20.50
ISPP Pwr 0	17.54	17.45	17.52	18.60	17.26	17.27	17.41	18.50
ISPP Pwr 0	18.47	18.50	18.54	19.50	18.24	18.32	18.37	19.50
ISPP Pwr 0	17.44	17.52	17.50	18.60	17.25	17.51	17.44	18.50
ISPP Pwr 0	18.37	18.56	18.54	20.60	18.35	18.35	18.38	20.50
ISPP Pwr 7	16.91	17.07	16.92	18.10	16.81	17.03	16.88	17.80



GSM900 Av4 ECG	Burst Average Power (dBm)			Turn-up Limit (dBm)	Frame Average Power (dBm)			Turn-up Limit (dBm)
	19A	19B	19C		19A	19B	19C	
Frequency (MHz)	814.2	816.4	818.6	814.2	816.4	818.6	814.2	816.4
QPSK 1 Tx Rate	31.21	31.23	31.25	32.00	22.21	22.23	22.25	23.00
QPSK 2 Tx Rate	30.20	30.22	30.25	31.00	24.20	24.22	24.25	25.00
QPSK 3 Tx Rate	29.20	29.21	29.20	30.00	24.20	24.19	24.19	24.74
QPSK 4 Tx Rate	27.19	27.18	27.15	28.00	24.13	24.18	24.15	25.00
EDGE 1 Tx Rate	26.20	26.37	26.31	27.00	17.20	17.23	17.21	18.00
EDGE 2 Tx Rate	24.70	24.81	24.70	25.50	18.70	18.81	18.70	19.50
EDGE 3 Tx Rate	23.80	23.81	23.70	24.50	18.24	18.24	18.24	19.24
EDGE 4 Tx Rate	21.21	21.37	21.23	22.00	18.24	18.37	18.33	19.00

Band	WCDMA V Av4 ECG			Turn-up Limit (dBm)
	4150	4160	4163	
Tx Channel	4150	4160	4163	
Rx Channel	4167	4407	4408	
Frequency (MHz)	368	368	368	
SCPP Rat 96	29.15	29.18	29.05	23.00
SCPP Rat 98	29.23	29.26	29.18	23.00
SCPP Rat 9	21.10	21.27	21.18	22.00
SCPP Rat 8	21.10	21.25	21.10	22.00
SCPP Rat 6	20.71	20.70	20.65	21.50
SCPP Rat 5	20.69	20.66	20.70	21.50
SCPP Rat 4	21.21	21.30	21.18	22.00
SCPP Rat 3	21.25	21.30	21.21	22.00
SCPP Rat 2	20.71	20.75	20.65	21.50
SCPP Rat 1	20.71	20.78	20.60	21.50
SCPP Rat 8	21.22	21.30	21.18	22.00
SCPP Rat 7	20.71	20.75	20.61	21.50
SCPP Rat 6	20.52	20.51	20.17	21.00
SCPP Rat 5	19.22	19.28	19.24	20.00
SCPP Rat 4	21.26	21.22	21.15	22.00
SCPP Rat 3	18.70	18.77	18.63	19.50



Band 42 FCC Part27Q Ant 3 EC13

Bit (Hz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				3475	3500	3525		
20	QPSK	1	0	18.22	18.23	18.24	19.6	0
20	QPSK	1	49	18.23	18.31	18.26		
20	QPSK	1	99	18.26	18.27	18.17		
20	QPSK	50	0	18.32	18.33	18.34		
20	QPSK	50	24	18.23	18.29	18.25	19.6	0
20	QPSK	50	49	18.31	18.22	18.17		
20	QPSK	100	0	18.30	18.32	18.31		
20	HQAM	1	0	18.21	18.26	18.23		
20	HQAM	1	49	18.17	18.23	18.24	19.6	0
20	HQAM	1	99	18.31	18.18	18.14		
20	HQAM	50	0	18.32	18.26	18.29		
20	HQAM	50	24	18.23	18.29	18.27	19.6	0
20	HQAM	50	50	18.35	18.26	18.07		
20	HQAM	100	0	18.28	18.24	18.23		
20	HQAM	100	0	18.17	18.25	18.25		
20	HQAM	1	49	18.18	18.27	18.23	19.6	0
20	HQAM	1	99	18.31	18.23	18.18		
20	HQAM	50	0	18.33	18.32	18.34		
20	HQAM	50	24	18.20	18.31	18.22	19.6	0
20	HQAM	50	50	18.34	18.27	18.19		
20	HQAM	100	0	18.30	18.38	18.35		
20	SBSQAM	1	0	17.35	17.29	17.33		
20	SBSQAM	1	49	17.27	17.24	17.28	19	0.6
20	SBSQAM	1	99	17.27	17.27	17.17		
20	SBSQAM	50	0	17.28	17.28	17.28		
20	SBSQAM	50	24	17.25	17.34	17.29	19	0.6
20	SBSQAM	50	50	17.17	17.23	17.28		
20	SBSQAM	100	0	17.31	17.28	17.14		
Channel								
Frequency (MHz)				3475.5	3500	3525		
15	QPSK	1	0	18.21	18.23	18.23	19.6	0
15	QPSK	1	37	18.23	18.28	18.17		
15	QPSK	1	74	18.29	18.29	18.14		
15	QPSK	36	0	18.27	18.24	18.31		
15	QPSK	36	20	18.12	18.22	18.25	19.6	0
15	QPSK	36	39	18.30	18.18	18.12		
15	QPSK	75	0	18.22	18.23	18.24		
15	HQAM	1	0	18.18	18.18	18.15		
15	HQAM	1	37	18.11	18.23	18.21	19.6	0
15	HQAM	1	74	18.24	18.10	18.14		
15	HQAM	36	0	18.28	18.23	18.27		
15	HQAM	36	39	18.19	18.13	18.24	19.6	0
15	HQAM	36	39	18.26	18.14	18.00		
15	HQAM	75	0	18.19	18.32	18.27		
15	HQAM	1	0	18.13	18.29	18.28		
15	HQAM	1	37	18.14	18.28	18.13	19.6	0
15	HQAM	1	74	18.28	18.17	18.13		
15	HQAM	36	0	18.28	18.30	18.24		
15	HQAM	36	20	18.14	18.29	18.15	19.6	0
15	HQAM	36	39	18.12	18.12	18.11		
15	HQAM	75	0	18.35	18.25	18.20		
15	SBSQAM	1	0	17.35	17.29	17.33		
15	SBSQAM	1	37	17.22	17.35	17.27	19	0.6
15	SBSQAM	1	74	17.27	17.24	17.11		
15	SBSQAM	36	0	17.28	17.31	17.23		
15	SBSQAM	36	20	17.21	17.29	17.25	19	0.6
15	SBSQAM	36	39	17.16	17.18	17.24		
15	SBSQAM	75	0	17.31	17.10	17.13		
Channel								
Frequency (MHz)				3476	3500	3525		
10	QPSK	1	0	18.28	18.28	18.28		
10	QPSK	1	25	18.14	18.22	18.20	19.6	0
10	QPSK	1	49	18.15	18.21	18.13		
10	QPSK	36	0	18.21	18.31	18.25		
10	QPSK	25	12	18.12	18.21	18.20	19.6	0
10	QPSK	25	25	18.22	18.13	18.16		
10	QPSK	50	0	18.21	18.22	18.22		
10	HQAM	1	0	18.17	18.14	18.14		
10	HQAM	1	25	18.11	18.17	18.24	19.6	0
10	HQAM	1	49	18.20	18.09	18.09		
10	HQAM	25	0	18.30	18.32	18.25		
10	HQAM	25	12	18.23	18.26	18.21	19.6	0
10	HQAM	25	25	18.33	18.13	18.05		
10	HQAM	50	0	18.19	18.28	18.28		
10	HQAM	1	0	18.12	18.40	18.16		
10	HQAM	1	25	18.12	18.21	18.15	19.6	0
10	HQAM	25	0	18.24	18.31	18.25		
10	HQAM	25	12	18.12	18.28	18.16	19.6	0
10	HQAM	25	25	18.31	18.22	18.11		
10	HQAM	50	0	18.33	18.29	18.27		
10	SBSQAM	1	0	17.23	17.28	17.33		
10	SBSQAM	1	25	17.17	17.16	17.27	19	0.6
10	SBSQAM	49	0	17.24	17.19	17.06		
10	SBSQAM	25	0	17.19	17.34	17.18		
10	SBSQAM	25	13	17.21	17.28	17.17	19	0.6
10	SBSQAM	25	25	17.17	17.13	17.25		
10	SBSQAM	50	0	17.21	17.18	17.19		
Channel								
Frequency (MHz)				3476.5	3500	3525		
5	QPSK	1	0	18.29	18.25	18.24		
5	QPSK	1	15	18.12	18.23	18.24	19.6	0
5	QPSK	1	24	18.23	18.23	18.09		
5	QPSK	12	0	18.21	18.26	18.49		
5	QPSK	12	7	18.12	18.20	18.18	19.6	0
5	QPSK	12	13	18.24	18.11	18.12		
5	QPSK	25	0	18.20	18.31	18.22		
5	HQAM	1	0	18.15	18.19	18.13		
5	HQAM	1	12	18.17	18.19	18.21	19.6	0
5	HQAM	1	24	18.22	18.18	18.09		
5	HQAM	12	0	18.35	18.29	18.21		
5	HQAM	12	7	18.20	18.24	18.22	19.6	0
5	HQAM	12	13	18.07	18.22	18.01		
5	HQAM	25	0	18.23	18.38	18.28		
5	HQAM	1	0	18.08	18.25	18.14		
5	HQAM	1	12	18.09	18.19	18.17	19.6	0
5	HQAM	1	24	18.26	18.19	18.17		
5	HQAM	12	0	18.23	18.29	18.38		
5	HQAM	12	7	18.14	18.27	18.20	19.6	0
5	HQAM	12	13	18.28	18.21	18.15		
5	HQAM	25	0	18.36	18.34	18.38		
5	SBSQAM	1	0	17.20	17.28	17.21		
5	SBSQAM	1	12	17.22	17.17	17.23	19	0.6
5	SBSQAM	1	24	17.22	17.28	17.13		
5	SBSQAM	12	0	17.20	17.30	17.24		
5	SBSQAM	12	7	17.16	17.34	17.19	19	0.6
5	SBSQAM	12	13	17.08	17.13	17.24		
5	SBSQAM	25	0	17.25	17.17	17.11		



Reduced Power Mode for EC16

SMBR0 2x0 EC16	Retd.Average Power (dBm)			Turn-up (dB)	Frame-Average Power (dBm)			Turn-up (dB)
	30 Channe	30x2	30x4		30x2	30x4	30x8	
Frequency (MHz)	842.2	838.4	848.8		842.2	848.4	864.8	
DRM 1 Tx Wld	31.72	31.91	31.86	33.00	22.72	22.81	22.86	24.00
OPRA-1 Tx Wld	31.72	31.88	31.85	33.00	22.72	22.86	22.82	24.00
OPRA-2 Tx Wld	30.56	30.59	30.52	30.00	24.65	24.59	24.62	26.00
OPRA-3 Tx Wld	29.08	29.13	29.10	30.00	24.82	24.87	24.84	26.14
OPRA-4 Tx Wld	27.79	27.87	27.82	29.00	24.79	24.87	24.82	26.00
EDGE-1 Tx Wld	26.26	26.69	26.66	26.00	17.60	17.67	17.66	18.00
EDGE-2 Tx Wld	25.29	25.31	25.30	26.00	16.20	16.31	16.29	20.00
EDGE-3 Tx Wld	23.34	23.39	23.32	24.00	19.05	19.13	19.07	20.24
EDGE-4 Tx Wld	21.82	21.86	21.78	23.00	18.82	18.85	18.78	20.00

Retd. Tx Channel	MCCMA V.04 4 EC16			Turn-up (dB)	
	4152	4162	4232		
30 Channe	430	430	430		
Frequency (MHz)	430	434	438		
SCPP Ret 00	AMR 12 200ps	22.38	22.49	22.44	24.00
SCPP Ret 01	AMR 12 200ps	22.42	22.53	22.52	24.00
SCPP Ret 0	HEOPA Subcar-1	21.50	21.56	21.48	23.00
SCPP Ret 1	HEOPA Subcar-2	21.49	21.52	21.49	23.00
SCPP Ret 2	HEOPA Subcar-3	20.90	21.08	21.02	22.52
SCPP Ret 3	HEOPA Subcar-4	20.84	21.05	20.94	22.50
SCPP Ret 4	DC-HEOPA Subcar-1	21.50	21.56	21.48	23.00
SCPP Ret 5	DC-HEOPA Subcar-2	21.44	21.49	21.53	23.00
SCPP Ret 6	DC-HEOPA Subcar-3	20.94	21.08	21.01	22.50
SCPP Ret 7	DC-HEOPA Subcar-4	20.88	21.05	21.04	22.50
SCPP Ret 8	HEOPA Subcar-1	21.56	21.56	21.43	23.00
SCPP Ret 9	HEOPA Subcar-2	19.53	19.51	19.45	21.00
SCPP Ret 10	HEOPA Subcar-3	20.50	20.59	20.48	22.00
SCPP Ret 11	HEOPA Subcar-4	19.45	19.45	19.46	21.00
SCPP Ret 12	HEOPA Subcar-5	21.54	21.48	21.48	23.00
SCPP Ret 13	HEOPA TDD/AMR Subcar-1	18.90	18.98	18.90	20.50



OSM 100 Ant 1 ECR	Band Average Power (dBm)			Turn-up Limit (dBm)	Flare-Average Power (dBm)			Turn-up Limit (dBm)
	9502	9801	9908		9502	9801	9908	
Frequency (MHz)	1890.2	1890	1900.8	(dBm)	1901.2	1890	1901.8	(dBm)
OSM 1 Tx Wdr	28.50	28.00	28.00	28.50	19.20	21.00	20.00	21.50
OPRR 1 Tx Wdr	28.87	28.64	29.00	30.50	19.87	20.04	20.00	21.80
OPRR 2 Tx Wdr	28.10	28.23	28.20	28.90	22.10	22.23	22.20	23.00
OPRR 3 Tx Wdr	28.50	28.27	28.20	27.90	21.90	22.01	21.90	23.24
OPRR 4 Tx Wdr	25.10	25.22	25.10	26.50	22.10	22.22	22.10	23.50
EDGE 1 Tx Wdr	23.71	23.71	23.68	25.00	14.71	14.71	14.64	16.00
EDGE 2 Tx Wdr	22.21	22.16	22.21	23.50	16.21	16.16	16.23	17.50
EDGE 3 Tx Wdr	25.10	24.30	26.10	27.50	15.80	15.60	15.80	17.24
EDGE 4 Tx Wdr	18.61	18.74	18.60	20.00	15.61	15.74	15.60	17.00

Band	WCDMA 1X Ant 1 ECR			Turn-up Limit (dBm)	WCDMA 1X Ant 1 ECR			Turn-up Limit (dBm)	
	9502	9801	9908		1332	1413	1533		
Tx Channel	9502	9801	9908	Limit (dBm)	1332	1413	1533	Limit (dBm)	
Rx Channel	9502	9801	9908		1332	1413	1533		
Frequency (MHz)	1890.2	1890	1900.8	(dBm)	1332	1413	1533	(dBm)	
SCPP Rel 8	AWR 12 2Mbps	21.33	21.60	21.30	22.70	21.55	21.43	21.50	22.30
SCPP Rel 8	RMC 12 2Mbps	21.47	21.54	21.51	22.70	21.30	21.40	21.40	22.30
SCPP Rel 8	HEOPA Subsite-1	20.90	20.40	20.60	21.70	20.32	20.31	20.37	21.30
SCPP Rel 8	HEOPA Subsite-2	20.40	20.82	20.50	21.70	20.41	20.48	20.34	21.30
SCPP Rel 8	HEOPA Subsite-3	19.20	20.11	20.01	21.20	19.83	19.90	19.85	20.80
SCPP Rel 8	HEOPA Subsite-4	20.60	20.42	19.97	21.20	19.93	19.96	19.86	20.80
SCPP Rel 8	DC-HEOPA Subsite-1	20.47	20.46	20.21	21.70	20.43	20.43	20.37	21.30
SCPP Rel 8	DC-HEOPA Subsite-2	20.50	20.53	20.41	21.70	20.30	20.42	20.52	21.30
SCPP Rel 8	DC-HEOPA Subsite-3	20.90	20.07	20.00	21.20	19.89	19.89	19.94	20.80
SCPP Rel 8	DC-HEOPA Subsite-4	19.93	20.04	19.98	21.20	19.90	20.00	19.90	20.80
SCPP Rel 8	HEOPA Subsite-1	20.40	20.35	20.51	21.70	20.34	20.32	20.30	21.30
SCPP Rel 8	HEOPA Subsite-2	19.20	19.47	19.30	19.70	18.37	18.46	18.30	19.20
SCPP Rel 8	HEOPA Subsite-3	19.50	19.50	19.50	20.70	19.38	19.38	19.38	20.30
SCPP Rel 8	HEOPA Subsite-4	18.44	18.56	18.50	19.70	18.23	18.53	18.50	19.30
SCPP Rel 8	HEOPA Subsite-5	20.43	20.55	20.50	21.70	20.43	20.40	20.31	21.30
SCPP Rel 7	HEPA1 (SCDMA) Subsite-1	17.86	18.14	18.01	19.20	17.87	18.02	18.01	18.80



GSMSD Jet 4 ECR	Band Average Power (dBm)			Turn-up Limit (dBm)	Flame-Lights Power (dBm)			Turn-up Limit (dBm)
	TX Channel	199	198		201	199	198	
Frequency (MHz)	84.2	84.4	84.8		84.2	84.4	84.8	
QPSK 1 Tx Wds	17.27	17.30	17.23	22.50	22.23	22.30	22.21	23.00
QPSK 1 Tx Wds	11.21	11.23	11.18	30.60	22.21	22.23	22.18	23.00
QPSK 2 Tx Wds	10.28	10.32	10.25	31.00	24.20	24.32	24.25	25.00
QPSK 3 Tx Wds	28.36	28.41	28.35	25.00	24.10	24.15	24.13	24.74
QPSK 4 Tx Wds	27.13	27.18	27.15	28.00	24.10	24.18	24.15	25.00
EDGE 1 Tx Wds	26.26	26.37	26.31	27.00	17.20	17.37	17.31	18.00
EDGE 2 Tx Wds	24.79	24.81	24.78	25.50	18.79	18.81	18.78	19.50
EDGE 3 Tx Wds	23.85	23.91	23.79	25.00	18.24	18.36	18.30	19.24
EDGE 4 Tx Wds	21.24	21.37	21.23	22.00	18.24	18.37	18.23	19.00

Band	WCDMA V Jet 4 ECR			Turn-up Limit (dBm)	
	TX Channel	4150	4160		4133
Frequency (MHz)	4357	4407	4468		
SCPP Rel 0	19.8	20.4	19.8	23.00	
SCPP Rel 0	AWG 10 2Mbps	22.13	22.18	22.00	23.00
SCPP Rel 0	RMC 15 2Mbps	22.23	22.25	22.18	23.00
SCPP Rel 0	HEOPA Subsite-1	21.10	21.27	21.15	22.00
SCPP Rel 0	HEOPA Subsite-2	21.18	21.25	21.10	22.00
SCPP Rel 0	HEOPA Subsite-3	20.72	20.79	20.65	21.50
SCPP Rel 0	HEOPA Subsite-4	20.69	20.80	20.70	21.50
SCPP Rel 0	DC-HEOPA Subsite-1	21.21	21.25	21.10	22.00
SCPP Rel 0	DC-HEOPA Subsite-2	21.25	21.30	21.23	22.00
SCPP Rel 0	DC-HEOPA Subsite-3	20.71	20.75	20.65	21.50
SCPP Rel 0	DC-HEOPA Subsite-4	20.74	20.78	20.68	21.50
SCPP Rel 0	HELPA Subsite-1	21.22	21.20	21.10	22.00
SCPP Rel 0	HELPA Subsite-2	21.24	18.25	18.16	20.00
SCPP Rel 0	HELPA Subsite-3	20.22	20.31	20.17	21.00
SCPP Rel 0	HELPA Subsite-4	19.22	19.28	19.24	20.00
SCPP Rel 0	HELPA Subsite-5	21.28	21.22	21.15	22.00
SCPP Rel 7	HELPA (SCDMA) Subsite-1	18.73	18.77	18.65	19.50



Band 42 FCC Part27Q Ant 3 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)		
Channel				3470	3660	3850				
Frequency (MHz)										
20	QPSK	1	0	22.08	22.02	22.02				
20	QPSK	1	48	21.84	21.88	21.80	22.9	0		
20	QPSK	1	96	22.00	21.92	21.98				
20	QPSK	50	0	22.03	22.03	22.02				
20	QPSK	50	24	21.99	22.05	21.96	22.9	0		
20	QPSK	50	60	21.88	21.88	21.88				
20	QPSK	100	0	22.04	22.02	22.00				
20	HQAM	1	0	21.88	22.03	21.94				
20	HQAM	1	48	21.82	21.98	22.01	22.9	0		
20	HQAM	1	96	21.98	21.88	21.78				
20	HQAM	50	0	20.38	20.36	20.29				
20	HQAM	50	24	20.35	20.30	20.30	22	0.9		
20	HQAM	50	50	20.30	20.27	20.12				
20	HQAM	100	0	20.28	20.22	20.21				
20	HQAM	100	0	20.22	20.27	20.25				
20	HQAM	1	48	20.18	20.28	20.25	22	0.9		
20	HQAM	1	96	20.35	20.30	20.13				
20	HQAM	50	0	19.37	19.43	19.32				
20	HQAM	50	24	19.20	19.32	19.22	21	1.9		
20	HQAM	50	50	19.34	19.22	19.19				
20	HQAM	100	0	19.37	19.30	19.32				
20	SBSGAM	1	0	17.35	17.20	17.33				
20	SBSGAM	1	48	17.27	17.24	17.28	19	3.9		
20	SBSGAM	1	96	17.27	17.27	17.17				
20	SBSGAM	36	0	17.28	17.28	17.28				
20	SBSGAM	50	24	17.25	17.34	17.29	19	3.9		
20	SBSGAM	50	50	17.17	17.23	17.28				
20	SBSGAM	100	0	17.31	17.28	17.14				
Channel				42165	42560	43015				
Frequency (MHz)										
15	QPSK	1	0	22.00	22.00	21.92				
15	QPSK	1	37	21.84	21.88	21.82	22.9	0		
15	QPSK	1	74	21.92	21.87	21.84				
15	QPSK	36	0	21.09	21.88	21.98				
15	QPSK	36	20	21.88	21.97	21.89	22.9	0		
15	QPSK	36	59	21.88	21.78	21.83				
15	QPSK	75	0	21.97	21.90	21.98				
15	HQAM	1	0	21.90	21.84	21.92				
15	HQAM	1	37	21.71	21.88	21.97	22.9	0		
15	HQAM	1	74	21.87	21.85	21.72				
15	HQAM	36	0	20.34	20.24	20.29				
15	HQAM	36	39	20.19	20.22	20.18	22	0.9		
15	HQAM	36	59	20.28	20.25	20.07				
15	HQAM	75	0	20.18	20.32	20.19				
15	HQAM	1	0	20.15	20.22	20.18				
15	HQAM	1	37	20.18	20.18	20.17	22	0.9		
15	HQAM	1	74	20.32	20.16	20.11				
15	HQAM	36	0	19.35	19.34	19.22				
15	HQAM	36	20	19.16	19.31	19.13	21	1.9		
15	HQAM	36	59	19.32	19.17	19.18				
15	HQAM	75	0	19.27	19.25	19.20				
15	SBSGAM	1	0	17.35	17.29	17.33				
15	SBSGAM	1	37	17.22	17.25	17.27	19	3.9		
15	SBSGAM	1	74	17.27	17.24	17.11				
15	SBSGAM	36	0	17.28	17.21	17.23				
15	SBSGAM	36	20	17.21	17.29	17.25	19	3.9		
15	SBSGAM	36	39	17.18	17.18	17.24				
15	SBSGAM	75	0	17.21	17.10	17.13				
Channel				43440	43560	43680				
Frequency (MHz)										
10	QPSK	1	0	22.08	22.02	21.96				
10	QPSK	1	25	21.91	21.90	21.80	22.9	0		
10	QPSK	1	49	21.87	21.83	21.83				
10	QPSK	36	0	21.86	22.03	21.98				
10	QPSK	25	12	21.89	21.86	21.91	22.9	0		
10	QPSK	25	25	21.89	21.81	21.78				
10	QPSK	50	0	21.98	21.88	21.88				
10	HQAM	1	0	21.92	22.03	21.84				
10	HQAM	1	25	21.82	21.80	21.96	22.9	0		
10	HQAM	1	49	21.92	21.87	21.77				
10	HQAM	25	0	20.34	20.30	20.24				
10	HQAM	25	12	20.18	20.22	20.24	22	0.9		
10	HQAM	25	25	20.24	20.25	20.20				
10	HQAM	50	0	20.24	20.25	20.23				
10	HQAM	1	0	20.14	20.23	20.24				
10	HQAM	1	25	20.14	20.21	20.20	22	0.9		
10	HQAM	1	49	20.27	20.15	20.01				
10	HQAM	25	0	19.28	19.29	19.24				
10	HQAM	25	12	19.09	19.23	19.18	21	1.9		
10	HQAM	25	25	19.24	19.10	19.15				
10	HQAM	50	0	19.35	19.20	19.21				
10	SBSGAM	1	0	17.23	17.28	17.33				
10	SBSGAM	1	25	17.17	17.16	17.27	19	3.9		
10	SBSGAM	1	49	17.24	17.19	17.06				
10	SBSGAM	25	0	17.19	17.34	17.18				
10	SBSGAM	25	13	17.21	17.28	17.17	19	3.9		
10	SBSGAM	25	25	17.17	17.13	17.25				
10	SBSGAM	50	0	17.21	17.18	17.19				
Channel				44415	44560	44695				
Frequency (MHz)										
5	QPSK	1	0	21.97	22.05	21.99				
5	QPSK	1	15	21.91	21.89	21.84	22.9	0		
5	QPSK	1	24	21.88	21.90	21.81				
5	QPSK	12	0	21.99	22.02	21.92				
5	QPSK	12	7	21.88	21.86	21.89	22.9	0		
5	QPSK	12	13	21.86	21.78	21.79				
5	QPSK	25	0	21.84	22.01	21.84				
5	HQAM	1	0	21.95	21.99	21.88				
5	HQAM	1	12	21.77	21.95	21.99	22.9	0		
5	HQAM	1	24	21.93	21.88	21.73				
5	HQAM	12	0	20.28	20.24	20.28				
5	HQAM	12	7	20.18	20.22	20.25	22	0.9		
5	HQAM	12	13	20.28	20.18	20.06				
5	HQAM	25	0	20.20	20.28	20.20				
5	HQAM	1	0	20.19	20.16	20.19				
5	HQAM	1	12	20.08	20.21	20.16	22	0.9		
5	HQAM	1	24	20.32	20.16	20.04				
5	HQAM	12	0	19.38	19.24	19.22				
5	HQAM	12	7	19.15	19.21	19.18	21	1.9		
5	HQAM	12	13	19.24	19.13	19.08				
5	HQAM	25	0	19.18	19.27	19.28				
5	SBSGAM	1	0	17.20	17.20	17.21				
5	SBSGAM	1	12	17.22	17.17	17.23	19	3.9		
5	SBSGAM	1	24	17.22	17.28	17.13				
5	SBSGAM	12	0	17.20	17.30	17.24				
5	SBSGAM	12	7	17.18	17.34	17.19	19	3.9		
5	SBSGAM	12	13	17.08	17.13	17.24				
5	SBSGAM	25	0	17.25	17.17	17.11				



Reduced Power Mode for ECI 7

GSM900 ANI G ECI7				Burst Average Power (dBm)			Turn-up			Frame Average Power (dBm)			Turn-up		
TX Channel	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195
Frequency (MHz)	834.2	836.4	838.6	840.8	843.0	845.2	847.4	849.6	851.8	854.0	856.2	858.4	860.6	862.8	865.0
EDGE 1 Tx min	31.72	31.81	31.86	31.90	31.95	32.00	32.05	32.10	32.15	32.20	32.25	32.30	32.35	32.40	32.45
EDGE 1 Tx max	30.59	30.12	29.98	31.10	34.09	24.12	21.99	23.10	24.21	25.32	26.43	27.54	28.65	29.76	30.87
EDGE 2 Tx min	28.80	28.83	28.79	28.10	23.80	23.83	23.79	23.10	23.13	23.09	23.05	22.96	22.92	22.88	22.84
EDGE 2 Tx max	25.28	25.31	25.29	25.59	26.59	19.28	19.31	19.29	19.59	20.59	19.28	19.31	19.29	19.59	20.59
EDGE 4 Tx min	23.34	23.39	23.33	24.50	18.08	18.13	18.07	20.24	18.08	18.13	18.07	20.24	18.08	18.13	18.07
EDGE 4 Tx max	21.83	21.85	21.78	23.00	16.83	16.85	16.78	20.00	16.83	16.85	16.78	20.00	16.83	16.85	16.78

Band				WCDMA V ANI G ECI7			Turn-up		
TX Channel	4152	4162	4213	4152	4162	4213	4152	4162	4213
Frequency (MHz)	836.4	836.4	846.6	836.4	836.4	846.6	836.4	836.4	846.6
SOPF Full B	AMR 12.2Kbps	22.38	22.40	22.44	24.00				
SOPF Full B	AMR 12.2Kbps	22.49	22.53	22.59	24.00				
SOPF Full B	HSPA Subclass-1	21.50	21.50	21.49	23.00				
SOPF Full B	HSPA Subclass-2	21.40	21.52	21.49	22.00				
SOPF Full B	HSPA Subclass-3	20.95	21.08	21.02	22.50				
SOPF Full B	HSPA Subclass-4	20.94	21.05	20.94	22.50				
SOPF Full B	DC-HSPA Subclass-2	21.15	21.25	21.28	23.00				
SOPF Full B	DC-HSPA Subclass-3	21.44	21.49	21.53	23.00				
SOPF Full B	DC-HSPA Subclass-4	20.94	21.09	21.01	22.50				
SOPF Full B	DC-HSPA Subclass-5	20.98	21.05	21.04	22.50				
SOPF Full B	HSPA Subclass-1	21.55	21.58	21.57	23.00				
SOPF Full B	HSPA Subclass-2	19.53	19.51	19.49	21.00				
SOPF Full B	HSPA Subclass-3	20.95	20.99	20.98	22.00				
SOPF Full B	HSPA Subclass-4	19.45	19.55	19.48	21.00				
SOPF Full B	HSPA Subclass-5	21.54	21.48	21.48	23.00				
SOPF Full B	HSPA Subclass-Subclass-1	19.45	19.45	19.45	20.00				



CDMA 1X Rev E EC17	Best Average Power (dBm)			Tune-up Limit	Power/Average Power (dBm)			Tune-up Limit
	810	814	818		810	814	818	
Frequency (MHz)	1895.2	1900	1904.8	(dBm)	1895.2	1900	1904.8	(dBm)
QPSK 1 Tx Min	23.59	23.27	23.09	20.50	13.59	20.07	23.09	21.50
QPSK 1 Tx Max	28.87	28.04	28.02	30.00	18.87	20.04	20.82	21.80
QPSK 2 Tx Min	26.22	28.20	28.24	27.70	20.22	20.80	20.24	21.70
QPSK 2 Tx Max	24.41	24.40	24.37	24.00	20.15	20.27	20.11	21.84
QPSK 4 Tx Min	23.80	23.82	23.58	24.70	20.80	20.82	20.38	21.75
EDGE 1 Tx Min	23.71	23.71	23.84	20.00	18.71	18.71	18.84	18.00
EDGE 2 Tx Min	22.21	22.10	22.23	23.50	18.21	18.18	18.23	17.50
EDGE 3 Tx Min	20.16	20.20	20.18	21.00	15.84	15.89	15.89	17.04
EDGE 4 Tx Min	18.81	18.74	18.88	20.00	15.81	15.74	15.88	17.00

Band	WCDMA Rev E EC17			Tune-up Limit	WCDMA Rev E EC17			Tune-up Limit
	810	814	818		810	814	818	
TX Channel	8982	8980	8938	Limit	8932	8981	8933	Limit
Rx Channel	8982	8980	8938	(dBm)	8932	8981	8933	(dBm)
Frequency (MHz)	1895.2	1900	1904.8		1895.2	1900	1904.8	
SCPP Rel 60	18.76	18.00	18.80	20.10	18.72	18.00	18.70	20.30
SCPP Rel 60	18.87	19.00	18.88	20.10	18.82	18.84	18.90	20.30
SCPP Rel 60	17.93	17.87	17.88	18.10	17.84	17.88	17.82	18.30
SCPP Rel 60	17.93	17.80	17.85	18.10	17.88	17.88	17.80	18.30
SCPP Rel 60	17.93	17.80	17.80	18.00	17.80	17.80	17.80	18.00
SCPP Rel 60	17.42	17.48	17.41	18.60	17.42	17.51	17.33	18.80
SCPP Rel 60	17.80	17.87	17.85	18.10	17.84	17.86	17.80	18.30
SCPP Rel 60	17.85	17.91	17.85	18.10	17.85	17.87	17.85	18.30
SCPP Rel 60	17.44	17.43	17.50	18.60	17.30	17.39	17.37	18.80
SCPP Rel 60	17.33	17.50	17.37	18.60	17.30	17.39	17.40	18.80
SCPP Rel 60	17.80	18.00	17.91	18.10	17.88	18.04	17.80	18.30
SCPP Rel 60	18.21	18.20	18.51	17.10	18.06	18.00	18.06	17.80
SCPP Rel 60	18.07	18.08	18.08	18.10	18.70	18.02	18.95	18.30
SCPP Rel 60	18.04	18.08	18.04	17.10	18.70	18.04	18.08	17.30
SCPP Rel 60	17.79	17.87	17.84	18.10	17.81	17.85	17.90	18.30
SCPP Rel 7	18.37	18.45	18.44	18.60	18.37	18.46	18.44	18.80



GSM900 Rev 4 ECG	Sine Average Power (dBm)			Time-up Limit (min)	Frame Average Power (dBm)			Time-up Limit (min)
	19.9	19.9	20.1		19.9	19.9	20.1	
Frequency (MHz)	84.2	84.4	84.6	3000	84.2	84.4	84.6	3000
OPRS 1 Tx Wdr	31.21	31.23	31.15	32.40	22.21	22.23	22.11	23.60
OPRS 2 Tx Wdr	30.28	30.32	30.25	31.00	24.26	24.32	24.25	25.00
OPRS 3 Tx Wdr	29.36	29.41	29.39	29.00	24.15	24.16	24.11	24.74
OPRS 4 Tx Wdr	27.13	27.18	27.15	28.00	24.13	24.18	24.15	25.00
EDGE 1 Tx Wdr	26.29	26.37	26.31	27.00	17.26	17.37	17.31	18.00
EDGE 2 Tx Wdr	24.79	24.81	24.79	25.50	18.79	18.81	18.79	18.50
EDGE 3 Tx Wdr	22.88	22.91	22.79	23.50	18.54	18.56	18.49	19.24
EDGE 4 Tx Wdr	21.24	21.37	21.23	22.00	18.24	18.37	18.23	19.00

Band	WCDMA V. Rev 4 ECG			Time-up Limit (min)	
	4150	4160	4235		
Tx Channel	4357	4407	4458	3000	
Rx Channel	4357	4407	4458	3000	
Frequency (MHz)	21.94	21.94	21.94	3000	
SCPP Ref 00	AWG 10 2Mbps	21.93	21.40	21.50	22.40
SCPP Ref 01	RMC 15 2Mbps	21.41	21.44	21.37	22.40
SCPP Ref 02	HEOPA Subclass 1	20.43	20.51	20.53	21.40
SCPP Ref 03	HEOPA Subclass 2	20.34	20.40	20.38	21.40
SCPP Ref 04	HEOPA Subclass 3	19.86	19.91	19.88	20.90
SCPP Ref 05	HEOPA Subclass 4	19.85	19.96	19.94	20.90
SCPP Ref 06	DC-HEOPA Subclass 1	20.41	20.51	20.22	21.40
SCPP Ref 07	DC-HEOPA Subclass 2	20.45	20.53	20.45	21.40
SCPP Ref 08	DC-HEOPA Subclass 3	19.85	19.99	19.81	20.90
SCPP Ref 09	DC-HEOPA Subclass 4	19.85	19.98	19.93	20.90
SCPP Ref 10	HELPA Subclass 1	20.47	20.59	20.59	21.40
SCPP Ref 11	HELPA Subclass 2	20.26	20.41	20.36	18.40
SCPP Ref 12	HELPA Subclass 3	19.37	19.53	19.38	20.40
SCPP Ref 13	HELPA Subclass 4	18.44	18.51	18.40	19.40
SCPP Ref 14	HELPA Subclass 5	20.43	20.59	20.59	21.40
SCPP Ref 15	HELPA (ISQAM) Subclass 1	17.86	18.00	17.81	18.90



Band 5 Ant 0 ECI7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Turn-up limit (dB), MPR (dB). Includes sub-tables for Channel and Frequency (MHz).

Band 12 Ant 0 ECI7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Turn-up limit (dB), MPR (dB). Includes sub-tables for Channel and Frequency (MHz).

Band 13 Ant 0 ECI7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Turn-up limit (dB), MPR (dB). Includes sub-tables for Channel and Frequency (MHz).



Band 42 FCC Part27Q Ant 3 EC17

Bit/s (Hz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				3490	3690	3890		
Frequency (MHz)								
20	QPSK	1	0	15.96	16.02	15.94	17	0
20	QPSK	1	49	15.78	15.88	15.84		
20	QPSK	1	99	15.84	15.89	15.78	17	0
20	QPSK	50	0	15.97	16.00	15.93		
20	QPSK	50	24	15.85	15.89	15.90	17	0
20	QPSK	50	99	15.87	15.89	15.75		
20	QPSK	100	0	15.89	15.90	15.83	17	0
20	QPSK	50	0	15.89	15.93	15.88		
20	HQAM	1	49	15.71	15.89	15.89	17	0
20	HQAM	1	99	15.94	15.75	15.74		
20	HQAM	50	0	15.92	16.00	15.89	17	0
20	HQAM	50	24	15.89	15.85	15.95		
20	HQAM	50	50	15.94	15.92	15.79	17	0
20	HQAM	100	0	15.88	15.90	15.82		
20	HQAM	1	0	15.77	15.95	15.81	17	0
20	HQAM	1	49	15.80	15.81	15.88		
20	HQAM	1	99	15.81	15.81	15.73	17	0
20	HQAM	50	0	15.01	16.04	15.93		
20	HQAM	50	24	15.83	15.94	15.83	17	0
20	HQAM	50	50	15.00	15.92	15.73		
20	HQAM	100	0	16.01	15.88	15.94	17	0
20	HQAM	1	0	15.95	16.02	15.98		
20	HQAM	1	49	15.84	15.92	15.88	17	0
20	HQAM	1	99	15.92	15.87	15.82		
20	HQAM	36	0	15.84	15.88	15.82	17	0
20	HQAM	36	0	15.84	15.88	15.82		
20	HQAM	50	24	15.89	15.94	15.94	17	0
20	HQAM	50	50	15.73	15.77	15.87		
20	HQAM	100	0	15.97	15.73	15.74	17	0
				42165	42990	43015		
Channel								
				3497.5	3500	3497.5		
Frequency (MHz)								
15	QPSK	1	0	15.83	16.02	15.83	17	0
15	QPSK	1	37	15.76	15.83	15.81		
15	QPSK	1	74	15.78	15.88	15.74	17	0
15	QPSK	36	0	15.88	15.89	15.89		
15	QPSK	36	20	15.76	15.79	15.89	17	0
15	QPSK	36	39	15.81	15.71	15.88		
15	QPSK	75	0	15.79	15.84	15.79	17	0
15	HQAM	1	0	15.72	15.82	15.81		
15	HQAM	1	37	15.60	15.84	15.77	17	0
15	HQAM	1	74	15.84	15.71	15.72		
15	HQAM	36	0	15.89	15.99	15.78	17	0
15	HQAM	36	39	15.77	15.77	15.84		
15	HQAM	36	39	15.90	15.90	15.72	17	0
15	HQAM	75	0	15.85	15.89	15.89		
15	HQAM	1	0	15.69	15.81	15.70	17	0
15	HQAM	1	37	15.72	15.88	15.75		
15	HQAM	1	74	15.81	15.77	15.80	17	0
15	HQAM	36	3	15.00	15.82	15.81		
15	HQAM	36	20	15.89	15.87	15.76	17	0
15	HQAM	36	39	15.91	15.74	15.82		
15	HQAM	75	0	15.93	15.73	15.92	17	0
15	HQAM	1	0	15.88	15.93	15.94		
15	HQAM	1	37	15.72	15.87	15.75	17	0
15	HQAM	1	74	15.88	15.85	15.71		
15	HQAM	36	0	15.80	15.91	15.92	17	0
15	HQAM	36	20	15.84	15.89	15.85		
15	HQAM	36	39	15.69	15.74	15.83	17	0
15	HQAM	75	0	15.83	15.86	15.87		
				42440	42900	42900		
Channel								
				3497.5	3500	3497.5		
Frequency (MHz)								
10	QPSK	1	0	15.84	15.88	15.83	17	0
10	QPSK	1	25	15.89	15.75	15.79		
10	QPSK	1	49	15.77	15.85	15.77	17	0
10	QPSK	36	0	15.86	15.85	15.89		
10	QPSK	25	12	15.84	15.80	15.79	17	0
10	QPSK	25	25	15.82	15.71	15.87		
10	QPSK	50	0	15.88	15.83	15.86	17	0
10	HQAM	1	0	15.77	15.88	15.80		
10	HQAM	1	25	15.88	15.84	15.83	17	0
10	HQAM	1	49	15.87	15.68	15.83		
10	HQAM	25	0	15.88	15.93	15.85	17	0
10	HQAM	25	12	15.82	15.81	15.86		
10	HQAM	25	25	15.85	15.82	15.70	17	0
10	HQAM	50	0	15.86	15.85	15.88		
10	HQAM	1	0	15.65	15.82	15.79	17	0
10	HQAM	1	25	15.70	15.88	15.75		
10	HQAM	1	49	15.89	15.72	15.65	17	0
10	HQAM	25	0	15.89	15.92	15.92		
10	HQAM	25	12	15.83	15.90	15.78	17	0
10	HQAM	25	25	15.99	15.75	15.72		
10	HQAM	50	0	15.92	15.83	15.84	17	0
10	HQAM	1	0	15.87	15.95	15.92		
10	HQAM	1	25	15.76	15.81	15.84	17	0
10	HQAM	1	49	15.83	15.79	15.81		
10	HQAM	25	0	15.82	15.88	15.88	17	0
10	HQAM	25	13	15.84	15.84	15.88		
10	HQAM	25	25	15.89	15.73	15.81	17	0
10	HQAM	50	0	15.87	15.73	15.84		
				42415	42900	42900		
Channel								
				3497.5	3500	3497.5		
Frequency (MHz)								
5	QPSK	1	0	15.84	15.97	15.90	17	0
5	QPSK	1	15	15.75	15.81	15.74		
5	QPSK	1	24	15.77	15.81	15.67	17	0
5	QPSK	12	0	15.86	15.89	15.89		
5	QPSK	12	7	15.81	15.85	15.87	17	0
5	QPSK	12	13	15.82	15.74	15.86		
5	QPSK	25	0	15.77	15.84	15.77	17	0
5	HQAM	1	0	15.70	15.89	15.83		
5	HQAM	1	12	15.85	15.85	15.82	17	0
5	HQAM	1	24	15.93	15.85	15.71		
5	HQAM	12	0	15.83	15.94	15.80	17	0
5	HQAM	12	7	15.88	15.82	15.87		
5	HQAM	12	13	15.94	15.80	15.84	17	0
5	HQAM	25	0	15.77	15.83	15.88		
5	HQAM	1	0	15.75	15.74	15.73	17	0
5	HQAM	1	12	15.75	15.80	15.78		
5	HQAM	1	24	15.91	15.80	15.81	17	0
5	HQAM	12	0	15.88	15.94	15.83		
5	HQAM	12	7	15.77	15.85	15.72	17	0
5	HQAM	12	13	15.91	15.72	15.65		
5	HQAM	25	0	15.90	15.85	15.87	17	0
5	HQAM	1	0	15.94	15.98	15.95		
5	HQAM	1	12	15.75	15.88	15.75	17	0
5	HQAM	1	24	15.83	15.79	15.73		
5	HQAM	12	0	15.79	15.89	15.89	17	0
5	HQAM	12	7	15.80	15.84	15.89		
5	HQAM	12	13	15.87	15.74	15.77	17	0
5	HQAM	25	0	15.93	15.68	15.83		



Full&Default Power Mode

n5 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				166800	167300	167800			
Frequency (MHz)				834	834.5	835			
20	PI/2 BPSK	1	1	22.50	22.84	22.55	24.0	0.0	
20	PI/2 BPSK	1	53	22.55	22.59	22.56			
20	PI/2 BPSK	1	104	22.53	22.84	22.50			
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5	0.5	
20	PI/2 BPSK	50	28	22.48	22.57	22.54	24.0	0.0	
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5	
20	PI/2 BPSK	100	0	22.07	22.19	22.06			
20	QPSK	1	1	22.83	22.85	22.81			
20	QPSK	1	53	22.50	22.61	22.59	24.0	0.0	
20	QPSK	1	104	22.62	22.64	22.58			
20	QPSK	50	0	21.53	21.57	21.47	23.0	1.0	
20	QPSK	50	28	22.54	22.57	22.48	24.0	0.0	
20	QPSK	50	56	21.50	21.56	21.52	23.0	1.0	
20	QPSK	100	0	21.50	21.59	21.57			
20	16QAM	1	1	21.21	21.33	21.20	23.0	1.0	
20	64QAM	1	1	19.77	19.87	19.77	21.5	2.5	
20	256QAM	1	1	18.41	18.47	18.44	19.5	4.5	
Channel				166300	167800	168300			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.50	22.82	22.49	24.0	0.0	
Channel				165900	167300	168500			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.53	22.83	22.61	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.56	22.62	22.55	24.0	0.0	

n26 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	22.93	22.91	22.89	24.0	0.0	
20	PI/2 BPSK	1	53	22.87	22.88	22.84			
20	PI/2 BPSK	1	104	22.81	22.88	22.82			
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5	0.5	
20	PI/2 BPSK	50	28	22.96	22.88	22.84	24.0	0.0	
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5	
20	PI/2 BPSK	100	0	22.44	22.48	22.47			
20	QPSK	1	1	22.94	22.96	22.93			
20	QPSK	1	53	22.87	22.94	22.88	24.0	0.0	
20	QPSK	1	104	22.89	22.91	22.86			
20	QPSK	50	0	21.98	21.92	21.94	23.0	1.0	
20	QPSK	50	28	22.86	22.89	22.84	24.0	0.0	
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0	
20	QPSK	100	0	21.88	21.93	21.90			
20	16QAM	1	1	21.68	21.70	21.67	23.0	1.0	
20	64QAM	1	1	20.26	20.29	20.24	21.5	2.5	
20	256QAM	1	1	18.84	18.89	18.82	19.5	4.5	
Channel				164300	166300	168300			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.92	22.93	22.88	24.0	0.0	
Channel				163900	166300	168500			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0	
Channel				163300	166300	169300			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0	



n2 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)				1870	1880	1890			
40	PI2 BPSK	1	1	22.43	22.64	22.49			
40	PI2 BPSK	1	108	22.54	22.59	22.49	24.0	0.0	
40	PI2 BPSK	1	214	22.46	22.57	22.51			
40	PI2 BPSK	108	0	21.66	21.71	21.70	23.5	0.5	
40	PI2 BPSK	108	54	22.73	22.75	22.70	24.0	0.0	
40	PI2 BPSK	108	108	22.22	22.26	22.18	23.5	0.5	
40	PI2 BPSK	216	0	22.24	22.28	22.21			
40	QPSK	1	1	22.72	22.78	22.75			
40	QPSK	1	108	22.55	22.64	22.51	24.0	0.0	
40	QPSK	1	214	22.44	22.66	22.49			
40	QPSK	108	0	21.77	21.79	21.74	23.0	1.0	
40	QPSK	108	54	22.72	22.77	22.74	24.0	0.0	
40	QPSK	108	108	21.73	21.76	21.71	23.0	1.0	
40	QPSK	216	0	21.75	21.80	21.76			
40	16QAM	1	1	21.38	21.43	21.41	23.0	1.0	
40	64QAM	1	1	19.94	19.98	19.96	21.5	2.5	
40	256QAM	1	1	18.52	18.80	18.58	19.5	4.5	
Channel									
Frequency (MHz)				37650	37600	37600	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	22.68	22.65	22.63	24.0	0.0	
Channel									
Frequency (MHz)				37300	37600	37900	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.59	22.67	22.67	24.0	0.0	
Channel									
Frequency (MHz)				37250	37600	37950	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.48	22.61	22.53	24.0	0.0	
Channel									
Frequency (MHz)				37600	37600	38000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.46	22.63	22.46	24.0	0.0	
Channel									
Frequency (MHz)				37650	37600	38050	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	1827.5	1880	1927.5	24.0	0.0	
Channel									
Frequency (MHz)				37100	37000	38100	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.52	22.62	22.54	24.0	0.0	
Channel									
Frequency (MHz)				37650	37600	38150	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.54	22.62	22.47	24.0	0.0	

22.7

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									
Frequency (MHz)				2625	2635	2645			
50	PI2 BPSK	1	1	22.35	22.47	22.36			
50	PI2 BPSK	1	135	22.29	22.31	22.28	24.0	0.0	
50	PI2 BPSK	1	268	22.26	22.36	22.34			
50	PI2 BPSK	135	0	21.95	22.06	22.04	23.5	0.5	
50	PI2 BPSK	135	68	22.45	22.53	22.48	24.0	0.0	
50	PI2 BPSK	135	135	21.95	22.05	21.97	23.5	0.5	
50	PI2 BPSK	270	0	22.00	22.04	22.01			
50	QPSK	1	1	22.54	22.58	22.57			
50	QPSK	1	135	22.32	22.37	22.32	24.0	0.0	
50	QPSK	1	268	22.35	22.36	22.34			
50	QPSK	135	0	21.45	21.58	21.50	23.0	1.0	
50	QPSK	135	68	22.49	22.55	22.52	24.0	0.0	
50	QPSK	135	135	21.44	21.57	21.47	23.0	1.0	
50	QPSK	270	0	21.80	21.85	21.83			
50	16QAM	1	1	21.08	21.14	21.11	23.0	1.0	
50	64QAM	1	1	19.70	19.75	19.74	21.5	2.5	
50	256QAM	1	1	18.28	18.35	18.30	19.5	4.5	
Channel									
Frequency (MHz)				50300	50700	51000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.48	22.51	22.48	24.0	0.0	
Channel									
Frequency (MHz)				50300	50700	51050	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	22.50	22.47	22.53	24.0	0.0	
Channel									
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.46	22.53	22.47	24.0	0.0	
Channel									
Frequency (MHz)				50250	50700	51150	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.47	22.51	22.51	24.0	0.0	
Channel									
Frequency (MHz)				50200	50700	51200	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	22.40	22.51	22.47	24.0	0.0	
Channel									
Frequency (MHz)				2577.5	2635	2592.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.41	22.54	22.50	24.0	0.0	
Channel									
Frequency (MHz)				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.47	22.48	22.53	24.0	0.0	
Channel									
Frequency (MHz)				50500	50700	51350	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.51	22.52	22.47	24.0	0.0	

n66 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)				1732.5	1745	1757.5			
45	PI2 BPSK	1	1	22.61	22.71	22.72			
45	PI2 BPSK	1	120	22.60	22.62	22.61	24.0	0.0	
45	PI2 BPSK	1	240	22.53	22.70	22.68			
45	PI2 BPSK	120	0	22.21	22.35	22.31	23.5	0.5	
45	PI2 BPSK	120	60	22.71	22.79	22.76	24.0	0.0	
45	PI2 BPSK	120	120	22.23	22.28	22.26	23.5	0.5	
45	PI2 BPSK	240	0	22.25	22.34	22.29			
45	QPSK	1	1	22.71	22.85	22.72			
45	QPSK	1	120	22.61	22.69	22.65	24.0	0.0	
45	QPSK	1	240	22.58	22.72	22.68			
45	QPSK	120	0	21.89	21.82	21.80	23.0	1.0	
45	QPSK	120	60	22.74	22.80	22.77	24.0	0.0	
45	QPSK	120	120	21.80	21.81	21.79	23.0	1.0	
45	QPSK	240	0	21.80	21.85	21.82			
45	16QAM	1	1	21.44	21.50	21.48	23.0	1.0	
45	64QAM	1	1	19.88	20.03	20.00	21.5	2.5	
45	256QAM	1	1	18.59	18.65	18.62	19.5	4.5	
Channel									
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.60	22.80	22.59	24.0	0.0	
Channel									
Frequency (MHz)				34500	34900	35250	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	22.61	22.83	22.64	24.0	0.0	
Channel									
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.59	22.74	22.63	24.0	0.0	
Channel									
Frequency (MHz)				34450	34900	35350	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.58	22.74	22.72	24.0	0.0	
Channel									
Frequency (MHz)				34400	34900	35400	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.62	22.70	22.66	24.0	0.0	
Channel									
Frequency (MHz)				34350	34900	35450	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.64	22.67	22.72	24.0	0.0	
Channel									
Frequency (MHz)				34300	34900	35500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.58	22.67	22.65	24.0	0.0	
Channel									
Frequency (MHz)				34250	34900	35550	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.52	22.67	22.69	24.0	0.0	



n2 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)				1870	1880	1890			
40	PI2 BPSK	1	1	22.12	22.16	22.07			
40	PI2 BPSK	1	108	22.14	22.11	22.12	24.0	0.0	
40	PI2 BPSK	1	214	22.06	22.14	22.13			
40	PI2 BPSK	108	0	21.87	21.88	21.84	23.5	0.5	
40	PI2 BPSK	108	54	22.05	22.15	22.07	24.0	0.0	
40	PI2 BPSK	108	108	21.86	21.86	21.83	23.5	0.5	
40	PI2 BPSK	216	0	21.82	21.86	21.85			
40	QPSK	1	1	22.14	22.16	22.15			
40	QPSK	1	108	22.13	22.16	22.14	24.0	0.0	
40	QPSK	1	214	22.13	22.17	22.16			
40	QPSK	108	0	21.17	21.18	21.16	23.0	1.0	
40	QPSK	108	54	22.11	22.17	22.14	24.0	0.0	
40	QPSK	108	108	21.13	21.15	21.09	23.0	1.0	
40	QPSK	216	0	21.16	21.21	21.20			
40	16QAM	1	1	21.10	21.14	21.11	23.0	1.0	
40	16QAM	1	1	19.80	19.87	19.82	21.5	2.5	
40	256QAM	1	1	17.87	18.03	17.89	19.5	4.5	
Channel									
Frequency (MHz)				376500	376600	376700	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	22.10	22.08	22.09	24.0	0.0	
Channel									
Frequency (MHz)				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.03	22.09	22.09	24.0	0.0	
Channel									
Frequency (MHz)				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.07	22.12	22.08	24.0	0.0	
Channel									
Frequency (MHz)				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.09	22.14	22.09	24.0	0.0	
Channel									
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	1827.5	1880	1922.5	24.0	0.0	
Channel									
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.06	22.13	22.12	24.0	0.0	
Channel									
Frequency (MHz)				376500	376600	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.05	22.15	22.07	24.0	0.0	

n5 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)				166800	167300	167800			
20	PI2 BPSK	1	1	22.83	22.87	22.81			
20	PI2 BPSK	1	53	22.58	22.85	22.80	24.0	0.0	
20	PI2 BPSK	1	104	22.58	22.83	22.57			
20	PI2 BPSK	50	0	21.94	22.08	22.02	23.5	0.5	
20	PI2 BPSK	50	28	22.38	22.49	22.44	24.0	0.0	
20	PI2 BPSK	50	58	21.99	22.09	21.95	23.5	0.5	
20	PI2 BPSK	100	0	22.08	22.10	22.06			
20	QPSK	1	1	22.84	22.88	22.82			
20	QPSK	1	53	22.84	22.86	22.80	24.0	0.0	
20	QPSK	1	104	22.84	22.87	22.80			
20	QPSK	50	0	21.42	21.56	21.47	23.0	1.0	
20	QPSK	50	28	22.45	22.55	22.53	24.0	0.0	
20	QPSK	50	58	21.40	21.53	21.48	23.0	1.0	
20	QPSK	100	0	21.52	21.55	21.52			
20	16QAM	1	1	21.33	21.43	21.35	23.0	1.0	
20	16QAM	1	1	19.93	19.96	19.91	21.5	2.5	
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5	
Channel									
Frequency (MHz)				165300	167300	165300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.85	22.88	22.81	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.82	22.83	22.59	24.0	0.0	

n7 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)				2525	2535	2545			
50	PI2 BPSK	1	1	21.80	21.95	21.84			
50	PI2 BPSK	1	135	21.83	21.91	21.78	23.0	0.0	
50	PI2 BPSK	1	268	21.73	21.86	21.80			
50	PI2 BPSK	135	0	21.39	21.41	21.40	22.5	0.5	
50	PI2 BPSK	135	68	21.84	21.93	21.90	23.0	0.0	
50	PI2 BPSK	135	135	21.35	21.36	21.37	22.5	0.5	
50	PI2 BPSK	270	0	21.40	21.47	21.42			
50	QPSK	1	1	21.80	21.95	21.82			
50	QPSK	1	135	21.80	21.94	21.77	23.0	0.0	
50	QPSK	1	268	21.76	21.95	21.83			
50	QPSK	135	0	20.85	20.89	20.87	22.0	1.0	
50	QPSK	135	68	21.88	21.94	21.91	23.0	0.0	
50	QPSK	135	135	20.89	20.96	20.91	22.0	1.0	
50	QPSK	270	0	21.00	21.08	21.04			
50	16QAM	1	1	20.57	20.62	20.59	22.0	1.0	
50	16QAM	1	1	19.12	19.17	19.15	20.5	2.5	
50	256QAM	1	1	17.70	17.78	17.72	18.5	4.5	
Channel									
Frequency (MHz)				50900	50700	51000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.81	21.93	21.73	23.0	0.0	
Channel									
Frequency (MHz)				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	21.75	22.35	22.52	23.0	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.79	21.92	21.75	23.0	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	21.77	21.88	21.82	23.0	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	21.80	21.92	21.83	23.0	0.0	
Channel									
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.80	21.90	21.77	23.0	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.79	21.91	21.84	23.0	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	21.72	21.80	21.84	23.0	0.0	



n26 Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				163300	163300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	24.0	0.0
20	PI2 BPSK	1	104	22.77	22.84	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.71	22.87	24.0	0.0
20	PI2 BPSK	50	56	22.16	22.26	22.22	23.5	0.5
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81	24.0	0.0
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	23.0	1.0
20	QPSK	50	28	22.81	22.70	22.86	24.0	0.0
20	QPSK	50	56	21.80	21.74	21.68	23.0	1.0
20	QPSK	100	0	21.72	21.75	21.74		
20	16QAM	1	1	21.48	21.53	21.49	23.0	1.0
20	64QAM	1	1	20.04	20.10	20.07	21.5	2.5
20	256QAM	1	1	18.81	18.70	18.65	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.74	22.79	22.78	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	22.70	22.80	22.75	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				345500	345500	351500		
Frequency (MHz)				1727.5	1745	1757.5		
45	PI2 BPSK	1	1	22.41	22.50	22.45		
45	PI2 BPSK	1	120	22.44	22.49	22.46	24.0	0.0
45	PI2 BPSK	1	240	22.46	22.42	22.41		
45	PI2 BPSK	120	0	21.92	21.94	21.98	23.5	0.5
45	PI2 BPSK	120	60	22.40	22.44	22.42	24.0	0.0
45	PI2 BPSK	120	120	21.90	21.94	21.98	23.5	0.5
45	PI2 BPSK	240	0	21.92	21.98	21.96		
45	QPSK	1	1	22.45	22.51	22.48		
45	QPSK	1	120	22.44	22.48	22.46	24.0	0.0
45	QPSK	1	240	22.44	22.48	22.44		
45	QPSK	120	0	21.41	21.51	21.49	23.0	1.0
45	QPSK	120	60	22.41	22.48	22.45	24.0	0.0
45	QPSK	120	120	21.36	21.46	21.40	23.0	1.0
45	QPSK	240	0	21.48	21.53	21.50		
45	16QAM	1	1	21.15	21.20	21.14	23.0	1.0
45	64QAM	1	1	19.68	19.74	19.72	21.5	2.5
45	256QAM	1	1	18.02	18.05	18.00	19.5	4.5
Channel				346000	349000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	22.38	22.48	22.37	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	22.43	22.45	22.40	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.44	22.48	22.47	24.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.38	22.42	22.40	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.45	22.46	22.42	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	22.42	22.49	22.47	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.44	22.45	22.44	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	22.38	22.45	22.40	24.0	0.0



n38 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				2590.02	2595	2599.98		
Frequency (MHz)				518004	519000	519996		
40	PI/2 BPSK	1	1	21.01	21.07	21.07		
40	PI/2 BPSK	1	108	21.01	21.14	21.03	22.0	0.0
40	PI/2 BPSK	1	214	21.03	21.01	21.09		
40	PI/2 BPSK	108	0	20.55	20.88	20.81	21.5	0.5
40	PI/2 BPSK	108	54	20.97	21.14	21.05	22.0	0.0
40	PI/2 BPSK	108	108	20.48	20.88	20.58	21.5	0.5
40	PI/2 BPSK	216	0	20.54	20.54	20.48		
40	QPSK	1	1	21.06	21.23	21.07		
40	QPSK	1	108	21.01	21.13	21.04	22.0	0.0
40	QPSK	1	214	21.06	21.14	21.05		
40	QPSK	108	0	20.05	20.12	20.05	21.0	1.0
40	QPSK	108	54	21.02	21.12	21.10	22.0	0.0
40	QPSK	108	108	20.04	20.14	20.14	21.0	1.0
40	QPSK	216	0	20.08	20.13	20.10		
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0
40	16QAM	1	1	18.07	18.10	18.07	19.5	2.5
40	256QAM	1	1	18.76	18.82	18.71	17.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	22.0	0.0
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2292.52	2295	2307.48	22.0	0.0
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610	22.0	0.0
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	22.0	0.0
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	22.0	0.0
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0

n41 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				2546.01	2592.99	2640		
Frequency (MHz)				5246.01	5292.99	5240		
100	PI/2 BPSK	1	1	21.15	21.24	21.17		
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0
100	PI/2 BPSK	1	271	21.10	21.19	21.24		
100	PI/2 BPSK	135	0	20.83	20.74	20.72	21.5	0.5
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5
100	PI/2 BPSK	270	0	20.65	20.71	20.65		
100	QPSK	1	1	21.16	21.28	21.22		
100	QPSK	1	137	21.15	21.27	21.14	22.0	0.0
100	QPSK	1	271	21.17	21.26	21.21		
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0
100	QPSK	135	138	20.19	20.22	20.21	21.0	1.0
100	QPSK	270	0	20.22	20.29	20.25		
100	16QAM	1	1	19.88	19.74	19.71	21.0	1.0
100	16QAM	1	1	18.21	18.27	18.24	19.5	2.5
100	256QAM	1	1	18.87	18.91	18.88	17.5	4.5
Channel				5241	5292.99	2644.98	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.99	22.0	0.0
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0
Channel				526202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	22.0	0.0
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99	22.0	0.0
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	0.0
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2667.48	22.0	0.0
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670	22.0	0.0
40	QPSK	1	1	21.15	21.21	21.20	22.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49	22.0	0.0
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	22.0	0.0
30	QPSK	1	1	21.15	21.24	21.14	22.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5	22.0	0.0
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0
Channel				501204	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48	22.0	0.0
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	22.0	0.0
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0



n38 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				519304	519300	519696		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.53	22.59	22.57		
40	PI/2 BPSK	1	108	22.49	22.54	22.58		0.0
40	PI/2 BPSK	1	214	22.46	22.54	22.52		
40	PI/2 BPSK	108	0	22.17	22.22	22.15	23.5	0.5
40	PI/2 BPSK	108	54	22.57	22.61	22.58	24.0	0.0
40	PI/2 BPSK	108	108	22.07	22.20	22.18	23.5	0.5
40	PI/2 BPSK	216	0	22.16	22.20	22.17		
40	QPSK	1	1	22.58	22.76	22.59		
40	QPSK	1	108	22.53	22.57	22.56	24.0	0.0
40	QPSK	1	214	22.49	22.55	22.52		
40	QPSK	108	0	21.58	21.70	21.66	23.0	1.0
40	QPSK	108	54	22.62	22.67	22.63	24.0	0.0
40	QPSK	108	108	21.65	21.67	21.59	23.0	1.0
40	QPSK	216	0	21.60	21.68	21.65		
40	16QAM	1	1	21.27	21.32	21.29	23.0	1.0
40	16QAM	1	1	19.81	19.89	19.88	21.5	2.5
40	256QAM	1	1	18.46	18.53	18.50	19.5	4.5
Channel				517002	516900	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.58	22.59	22.53	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	22.52	22.60	22.55	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.50	22.55	22.52	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.52	22.59	22.57	24.0	0.0
Channel				515004	519000	529996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.53	22.57	22.53	24.0	0.0

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				526202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.54	22.78	22.55		
100	PI/2 BPSK	1	137	22.51	22.74	22.48	24.0	0.0
100	PI/2 BPSK	1	271	22.52	22.78	22.52		
100	PI/2 BPSK	135	0	22.08	22.29	22.10	23.5	0.5
100	PI/2 BPSK	135	69	22.51	22.80	22.46	24.0	0.0
100	PI/2 BPSK	135	138	22.06	22.34	22.06	23.5	0.5
100	PI/2 BPSK	270	0	22.15	22.35	22.02		
100	QPSK	1	1	22.58	22.85	22.58		
100	QPSK	1	137	22.59	22.80	22.52	24.0	0.0
100	QPSK	1	271	22.50	22.82	22.56		
100	QPSK	135	0	21.61	21.82	21.54	23.0	1.0
100	QPSK	135	69	22.60	22.84	22.54	24.0	0.0
100	QPSK	135	138	21.58	21.84	21.58	23.0	1.0
100	QPSK	270	0	21.65	21.87	21.57		
100	16QAM	1	1	21.33	21.41	21.35	23.0	1.0
100	16QAM	1	1	19.82	19.93	19.88	21.5	2.5
100	256QAM	1	1	18.50	18.59	18.51	19.5	4.5
Channel				526200	518998	529198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	22.59	22.76	22.59	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.57	22.77	22.56	24.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.53	22.78	22.53	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	22.53	22.81	22.53	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.57	22.73	22.53	24.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.05	2592.99	2669.49		
45	QPSK	1	1	22.56	22.77	22.54	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	22.53	22.73	22.50	24.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	22.55	22.75	22.55	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.50	22.78	22.53	24.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	22.56	22.70	22.50	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.50	22.82	22.57	24.0	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.05	2592.99	2682.48		
15	QPSK	1	1	22.55	22.77	22.50	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.60	22.77	22.54	24.0	0.0



n38 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				2590.02	2595	2599.98		
Frequency (MHz)				519304	519300	519396		
40	PI/2 BPSK	1	1	18.88	18.95	18.76		
40	PI/2 BPSK	1	108	18.94	18.89	18.71	20.0	0.0
40	PI/2 BPSK	1	214	18.80	19.04	18.74		
40	PI/2 BPSK	108	0	18.32	18.33	18.23	19.5	0.5
40	PI/2 BPSK	108	54	18.66	18.84	18.69	20.0	0.0
40	PI/2 BPSK	108	108	18.20	18.39	18.27	19.5	0.5
40	PI/2 BPSK	216	0	18.27	18.33	18.25		
40	QPSK	1	1	18.92	19.09	18.90		
40	QPSK	1	108	18.93	18.99	18.72	20.0	0.0
40	QPSK	1	214	18.84	19.07	18.74		
40	QPSK	108	0	17.73	17.91	17.84	19.0	1.0
40	QPSK	108	54	18.82	18.83	18.73	20.0	0.0
40	QPSK	108	108	17.78	17.82	17.70	19.0	1.0
40	QPSK	216	0	17.84	17.97	17.84		
40	16QAM	1	1	17.78	17.78	17.70	19.0	1.0
40	16QAM	1	1	18.29	18.28	18.23	17.5	2.5
40	256QAM	1	1	14.85	14.99	14.78	15.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.81	18.97	18.78	20.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	18.93	18.99	18.74	20.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.92	19.00	18.74	20.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	18.90	19.01	18.80	20.0	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.88	18.94	18.73	20.0	0.0

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				2546.01	2592.99	2640		
Frequency (MHz)				519202	518998	520000		
100	PI/2 BPSK	1	1	18.98	18.12	18.89		
100	PI/2 BPSK	1	137	18.03	19.06	18.86	20.0	0.0
100	PI/2 BPSK	1	271	18.92	19.11	18.90		
100	PI/2 BPSK	135	0	18.40	18.47	18.33	19.5	0.5
100	PI/2 BPSK	135	69	18.84	18.92	18.79	20.0	0.0
100	PI/2 BPSK	135	138	18.36	18.49	18.37	19.5	0.5
100	PI/2 BPSK	270	0	18.37	18.46	18.35		
100	QPSK	1	1	19.00	19.15	18.90		
100	QPSK	1	137	19.00	19.13	18.85	20.0	0.0
100	QPSK	1	271	18.99	19.13	18.89		
100	QPSK	135	0	17.87	18.00	17.75	19.0	1.0
100	QPSK	135	69	18.92	18.98	18.81	20.0	0.0
100	QPSK	135	138	17.94	17.85	17.83	19.0	1.0
100	QPSK	270	0	18.00	18.08	18.01		
100	16QAM	1	1	17.91	17.95	17.86	19.0	1.0
100	16QAM	1	1	18.44	18.46	18.40	17.5	2.5
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.5
Channel				520200	518998	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	18.98	19.08	18.91	20.0	0.0
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	18.93	19.11	18.17	20.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2685		
70	QPSK	1	1	18.96	19.08	18.92	20.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2678.99		
60	QPSK	1	1	19.00	19.06	18.85	20.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2684.99		
50	QPSK	1	1	18.96	19.08	18.89	20.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2687.48		
45	QPSK	1	1	18.98	19.05	18.81	20.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	18.95	19.14	18.93	20.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	18.90	19.06	18.84	20.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.92	19.10	18.84	20.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	18.95	19.11	18.80	20.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.95	19.14	18.85	20.0	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.43		
15	QPSK	1	1	18.98	19.09	18.91	20.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.93	19.09	18.89	20.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.28	22.44	22.30		
100	PI2 BPSK	1	137	22.23	22.42	22.14		0.0
100	PI2 BPSK	1	271	22.24	22.37	22.12		
100	PI2 BPSK	135	0	22.28	22.30	22.16	24.0	0.0
100	PI2 BPSK	135	69	22.29	22.35	22.30	24.0	0.0
100	PI2 BPSK	135	138	22.31	22.22	22.24	24.0	0.0
100	PI2 BPSK	270	0	22.31	22.31	22.21		
100	QPSK	1	1	22.30	22.46	22.11		
100	QPSK	1	137	22.23	22.42	22.13	24.0	0.0
100	QPSK	1	271	22.23	22.40	22.12		
100	QPSK	135	0	22.31	22.35	22.25	24.0	0.0
100	QPSK	135	69	22.34	22.38	22.30	24.0	0.0
100	QPSK	135	138	22.30	22.31	22.29	24.0	0.0
100	QPSK	270	0	22.29	22.35	22.22		
100	16QAM	1	1	22.20	22.29	22.24	24.0	0.0
100	16QAM	1	1	22.28	22.32	22.30	24.0	0.0
100	256QAM	1	1	21.42	21.44	21.38	23.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.25	22.39	22.09	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.52	22.45	22.11	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.26	22.42	22.07	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.24	22.43	22.04	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.23	22.45	22.13	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.27	22.42	22.14	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.22	22.42	22.07	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.24	22.38	22.08	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.33	22.44	22.07	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.32	22.39	22.03	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.22	22.45	22.11	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.45	25.51	25.17		
100	PI2 BPSK	1	137	25.43	25.53	25.09		
100	PI2 BPSK	1	271	25.42	25.51	25.13	27.0	0.0
100	PI2 BPSK	135	0	24.88	24.94	24.52	26.5	0.5
100	PI2 BPSK	135	69	25.38	25.45	25.36	27.0	0.0
100	PI2 BPSK	135	138	24.88	24.98	24.89	26.5	0.5
100	PI2 BPSK	270	0	24.92	24.93	24.90		
100	QPSK	1	1	25.51	25.54	25.16		
100	QPSK	1	137	25.45	25.52	25.14	27.0	0.0
100	QPSK	1	271	25.51	25.50	25.11		
100	QPSK	135	0	24.40	24.44	24.43	26.0	1.0
100	QPSK	135	69	25.40	25.45	25.38	27.0	0.0
100	QPSK	135	138	24.43	24.46	24.39	26.0	1.0
100	QPSK	270	0	24.44	24.46	24.42		
100	16QAM	1	1	24.18	24.27	24.23	26.0	1.0
100	16QAM	1	1	22.81	22.86	22.85	24.5	2.5
100	256QAM	1	1	21.38	21.45	21.41	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.44	25.51	25.17	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.50	25.49	25.13	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.49	25.47	25.13	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.50	25.45	25.08	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.47	25.50	25.17	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.52	25.53	25.10	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.47	25.49	25.15	27.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	25.46	25.51	25.17	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.47	25.49	25.13	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.46	25.51	25.15	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.50	25.50	25.12	27.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		22.36			
100	PI2 BPSK	1	137		22.28		24.0	0.0
100	PI2 BPSK	1	271		22.30			
100	PI2 BPSK	135	0		22.37		24.0	0.0
100	PI2 BPSK	135	69		22.37		24.0	0.0
100	PI2 BPSK	135	138		22.31		24.0	0.0
100	PI2 BPSK	270	0		22.31			
100	QPSK	1	1		22.42			
100	QPSK	1	137		22.37		24.0	0.0
100	QPSK	1	271		22.39			
100	QPSK	135	0		22.36		24.0	0.0
100	QPSK	135	69		22.37		24.0	0.0
100	QPSK	135	138		22.35		24.0	0.0
100	QPSK	270	0		22.37			
100	16QAM	1	1		22.24		24.0	0.0
100	16QAM	1	1		22.08		24.0	0.0
100	256QAM	1	1		21.23		23.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.37	22.39	22.34	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.20	22.36	22.29	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.31	22.41	22.32	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.33	22.41	22.25	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.52	22.38	22.31	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.34	22.36	22.35	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.24	22.37	22.35	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.36	22.35	22.30	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.39	22.35	22.27	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.33	22.34	22.35	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.37	22.35	22.27	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3760	3760	3760			
100	PI2 BPSK	1	1		25.41				
100	PI2 BPSK	1	137		25.38		27.0	0.0	
100	PI2 BPSK	1	271		25.39				
100	PI2 BPSK	135	0		24.87		28.5	0.5	
100	PI2 BPSK	135	69		25.40		27.0	0.0	
100	PI2 BPSK	135	138		24.88				
100	PI2 BPSK	270	0		24.86				
100	QPSK	1	1		25.43				
100	QPSK	1	137		25.39		27.0	0.0	
100	QPSK	1	271		25.40				
100	QPSK	135	0		24.33		28.0	1.0	
100	QPSK	135	69		25.41		27.0	0.0	
100	QPSK	135	138		24.36				
100	QPSK	270	0		24.38		28.0	1.0	
100	16QAM	1	1		24.18		26.0	1.0	
100	16QAM	1	1		22.68		24.5	2.5	
100	256QAM	1	1		21.30		22.5	4.5	
Channel				649688	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		25.33	25.39	25.36	27.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.29	25.39	25.34	27.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		25.24	25.39	25.29	27.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3750.01			
60	QPSK	1	1		25.35	25.38	25.39	27.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.32	25.34	25.37	27.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		25.34	25.36	25.27	27.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		25.31	25.40	25.30	27.0	0.0
Channel				647300	650000	652000			
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		25.35	25.35	25.39	27.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.35	25.39	25.35	27.0	0.0
Channel				647188	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		25.28	25.34	25.28	27.0	0.0
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.33	25.36	25.27	27.0	0.0



n38 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				519304	519500	519696		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.11	22.19	22.17		
40	PI/2 BPSK	1	108	22.04	22.12	22.11	24.0	0.0
40	PI/2 BPSK	1	214	22.06	22.16	22.02		
40	PI/2 BPSK	108	0	21.59	21.72	21.68	23.5	0.5
40	PI/2 BPSK	108	54	22.03	22.19	22.09	24.0	0.0
40	PI/2 BPSK	108	108	21.66	21.72	21.61	23.5	0.5
40	PI/2 BPSK	216	0	21.63	21.73	21.64		
40	QPSK	1	1	22.12	22.30	22.14		
40	QPSK	1	108	22.06	22.13	22.11	24.0	0.0
40	QPSK	1	214	22.14	22.15	22.10		
40	QPSK	108	0	21.10	21.21	21.16	23.0	1.0
40	QPSK	108	54	22.23	22.28	22.26	24.0	0.0
40	QPSK	108	108	21.06	21.22	21.16	23.0	1.0
40	QPSK	216	0	21.25	21.29	21.27		
40	16QAM	1	1	21.11	21.18	21.14	23.0	1.0
40	16QAM	1	1	19.79	19.87	19.82	21.5	2.5
40	256QAM	1	1	18.02	18.10	18.06	19.5	4.5
Channel				517002	517000	533998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2585	2604.99		
30	QPSK	1	1	22.05	22.15	22.17	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	22.10	22.13	22.15	24.0	0.0
Channel				516000	519000	523000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.04	22.10	22.05	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.15	22.18	22.14	24.0	0.0
Channel				515004	519000	529996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.10	22.16	22.12	24.0	0.0

n41 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				526202	518998	529000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.21	22.26	22.14		
100	PI/2 BPSK	1	137	22.15	22.24	22.11	24.0	0.0
100	PI/2 BPSK	1	271	22.16	22.18	22.16		
100	PI/2 BPSK	135	0	21.73	21.86	21.70	23.5	0.5
100	PI/2 BPSK	135	69	22.24	22.33	22.22	24.0	0.0
100	PI/2 BPSK	135	138	21.78	21.82	21.78	23.5	0.5
100	PI/2 BPSK	270	0	21.77	21.90	21.76		
100	QPSK	1	1	22.22	22.38	22.19		
100	QPSK	1	137	22.15	22.27	22.13	24.0	0.0
100	QPSK	1	271	22.19	22.23	22.14		
100	QPSK	135	0	21.27	21.29	21.20	23.0	1.0
100	QPSK	135	69	22.29	22.34	22.25	24.0	0.0
100	QPSK	135	138	21.25	21.31	21.30	23.0	1.0
100	QPSK	270	0	21.30	21.33	21.27		
100	16QAM	1	1	21.23	21.25	21.20	23.0	1.0
100	16QAM	1	1	19.92	19.98	19.87	21.5	2.5
100	256QAM	1	1	18.20	18.24	18.22	19.5	4.5
Channel				506300	518998	530998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	22.17	22.25	22.13	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	22.15	22.27	22.19	24.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.20	22.25	22.19	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	22.19	22.25	22.18	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.14	22.22	22.13	24.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.05	2592.99	2667.48		
45	QPSK	1	1	22.08	22.17	22.14	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	22.21	22.25	22.11	24.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	22.08	22.20	22.15	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.15	22.27	22.14	24.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.01	2592.99	2677.5		
25	QPSK	1	1	22.15	22.25	22.15	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.14	22.26	22.22	24.0	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.05	2592.99	2682.48		
15	QPSK	1	1	22.13	22.22	22.12	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.22	22.20	22.10	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.72	22.99	22.75		
100	PI2 BPSK	1	137	22.89	23.02	22.27		0.0
100	PI2 BPSK	1	271	22.80	22.99	22.80		
100	PI2 BPSK	135	0	22.72	22.72	22.69	24.0	0.0
100	PI2 BPSK	135	69	22.70	22.80	22.72	24.0	0.0
100	PI2 BPSK	135	138	22.26	22.75	22.73	24.0	0.0
100	PI2 BPSK	270	0	22.71	22.76	22.74		
100	QPSK	1	1	22.71	22.76	22.75		
100	QPSK	1	137	22.72	23.05	22.65	24.0	0.0
100	QPSK	1	271	22.63	22.98	22.67		
100	QPSK	135	0	22.70	22.79	22.78	24.0	0.0
100	QPSK	135	69	22.78	22.81	22.80	24.0	0.0
100	QPSK	135	138	22.73	22.76	22.75	24.0	0.0
100	QPSK	270	0	22.74	22.77	22.72		
100	16QAM	1	1	22.78	22.82	22.80	24.0	0.0
100	16QAM	1	1	22.81	22.85	22.83	24.0	0.0
100	256QAM	1	1	21.98	22.03	22.01	23.0	1.0
Channel								
Frequency (MHz)				649334	650000	649334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.65	23.04	22.71	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.65	23.04	22.69	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.65	23.05	22.72	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	648334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.71	23.03	22.71	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.74	23.00	22.66	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.63	23.00	22.64	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	644334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.74	23.00	22.69	24.0	0.0
Channel								
Frequency (MHz)				647500	650000	644500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.63	23.01	22.73	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	644668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.62	22.97	22.65	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	644834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.67	23.03	22.69	24.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.65	22.99	22.76	24.0	0.0

Part270 n77 HPUE Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.84	25.99	25.76		
100	PI2 BPSK	1	137	25.81	25.83	25.75	27.0	0.0
100	PI2 BPSK	1	271	25.79	25.82	25.70		
100	PI2 BPSK	135	0	25.33	25.41	25.28	26.5	0.5
100	PI2 BPSK	135	69	25.82	25.85	25.83	27.0	0.0
100	PI2 BPSK	135	138	25.29	25.39	25.34	26.5	0.5
100	PI2 BPSK	270	0	25.31	25.36	25.31		
100	QPSK	1	1	25.87	26.04	25.83		
100	QPSK	1	137	25.80	25.85	25.73	27.0	0.0
100	QPSK	1	271	25.78	25.84	25.78		
100	QPSK	135	0	24.80	24.82	24.83	26.0	1.0
100	QPSK	135	69	25.83	25.86	25.81	27.0	0.0
100	QPSK	135	138	24.84	24.89	24.79	26.0	1.0
100	QPSK	270	0	24.78	24.83	24.76		
100	16QAM	1	1	24.77	24.81	24.79	26.0	1.0
100	16QAM	1	1	23.34	23.42	23.38	24.5	2.5
100	256QAM	1	1	21.61	21.66	21.64	22.5	4.5
Channel								
Frequency (MHz)				649668	650000	649334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.85	25.93	25.79	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.84	25.98	25.70	27.0	0.0
Channel								
Frequency (MHz)				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.82	25.99	25.74	27.0	0.0
Channel								
Frequency (MHz)				648668	650000	648334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.85	26.00	25.76	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.82	25.92	25.72	27.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.84	25.97	25.76	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	644334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.79	26.00	25.82	27.0	0.0
Channel								
Frequency (MHz)				647500	650000	644500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	25.81	25.98	25.72	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	644668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.78	25.95	25.73	27.0	0.0
Channel								
Frequency (MHz)				647168	650000	644834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.81	25.96	25.75	27.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.83	26.02	25.80	27.0	0.0

Part270 n78 Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		22.86			
100	PI2 BPSK	1	137		22.77		24.0	0.0
100	PI2 BPSK	1	271		22.80			
100	PI2 BPSK	135	0		22.87		24.0	0.0
100	PI2 BPSK	135	69		22.66		24.0	0.0
100	PI2 BPSK	135	138		22.87		24.0	0.0
100	PI2 BPSK	270	0		22.71			
100	QPSK	1	1		22.86			
100	QPSK	1	137		22.76		24.0	0.0
100	QPSK	1	271		22.84			
100	QPSK	135	0		22.88		24.0	0.0
100	QPSK	135	69		22.73		24.0	0.0
100	QPSK	135	138		22.87		24.0	0.0
100	QPSK	270	0		22.71			
100	16QAM	1	1		22.43		24.0	0.0
100	16QAM	1	1		22.50		24.0	0.0
100	256QAM	1	1		21.82		23.0	1.0
Channel								
Frequency (MHz)				649668	650000	649334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.81	22.87	22.83	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.82	22.84	22.82	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.75	22.79	22.85	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	648334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.73	22.81	22.74	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.73	22.83	22.75	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.82	22.85	22.75	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	644334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.79	22.85	22.85	24.0	0.0
Channel								
Frequency (MHz)				647500	650000	644500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.82	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	644668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.78	22.83	22.78	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	644834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.75	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.80	22.83	22.84	24.0	0.0



Part270 n78 HPUE Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3760	3760	3760			
100	PI/2 BPSK	1	1		25.83				
100	PI/2 BPSK	1	137		25.80		27.0	0.0	
100	PI/2 BPSK	1	271		25.78				
100	PI/2 BPSK	135	0		25.29		28.5	0.5	
100	PI/2 BPSK	135	69		25.81		27.0	0.0	
100	PI/2 BPSK	135	138		25.35				
100	PI/2 BPSK	270	0		25.38				
100	QPSK	1	1		25.80				
100	QPSK	1	137		25.88		27.0	0.0	
100	QPSK	1	271		25.86				
100	QPSK	135	0		24.81		28.0	1.0	
100	QPSK	135	69		25.83		27.0	0.0	
100	QPSK	135	138		24.78				
100	QPSK	270	0		24.80		28.0	1.0	
100	16QAM	1	1		24.76		28.0	1.0	
100	16QAM	1	1		23.25		24.5	2.5	
100	256QAM	1	1		21.58		22.5	4.5	
Channel				649688	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		25.84	25.86	25.86	27.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.87	25.82	25.87	27.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		25.81	25.88	25.85	27.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3750.01			
60	QPSK	1	1		25.86	25.81	25.81	27.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.78	25.79	25.80	27.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		25.83	25.86	25.80	27.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		25.79	25.89	25.80	27.0	0.0
Channel				647300	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		25.85	25.81	25.80	27.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.81	25.84	25.83	27.0	0.0
Channel				647188	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		25.83	25.85	25.82	27.0	0.0
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.83	25.86	25.83	27.0	0.0



Reduced Power Mode for ECI 2

n5 Ant 0 ECI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				166800	167300	167800	
Frequency (MHz)				834	838.5	839	
20	PI/2 BPSK	1	1	22.50	22.84	22.55	
20	PI/2 BPSK	1	53	22.56	22.89	22.56	24.0
20	PI/2 BPSK	1	104	22.53	22.84	22.50	
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5
20	PI/2 BPSK	50	28	22.48	22.57	22.54	24.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5
20	PI/2 BPSK	100	0	22.07	22.19	22.06	
20	QPSK	1	1	22.63	22.65	22.61	
20	QPSK	1	53	22.50	22.61	22.59	24.0
20	QPSK	1	104	22.62	22.64	22.58	
20	QPSK	50	0	21.53	21.57	21.47	23.0
20	QPSK	50	28	22.54	22.57	22.48	24.0
20	QPSK	50	56	21.50	21.56	21.52	23.0
20	QPSK	100	0	21.50	21.59	21.57	
20	16QAM	1	1	21.21	21.33	21.20	23.0
20	64QAM	1	1	19.77	19.87	19.77	21.5
20	256QAM	1	1	18.41	18.47	18.44	19.5
Channel				168300	167300	168300	
Frequency (MHz)				831.5	836.5	841.5	
15	QPSK	1	1	22.58	22.62	22.49	24.0
Channel				165800	167300	166800	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	22.23	22.63	22.61	24.0
Channel				165300	167300	165300	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	1	22.56	22.62	22.55	24.0

n26 Ant 0 ECI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				164400	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	22.90	22.91	22.89	
20	PI/2 BPSK	1	53	22.87	22.88	22.84	24.0
20	PI/2 BPSK	1	104	22.91	22.88	22.82	
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5
20	PI/2 BPSK	100	0	22.44	22.48	22.47	
20	QPSK	1	1	22.94	22.96	22.93	
20	QPSK	1	53	22.87	22.94	22.86	24.0
20	QPSK	1	104	22.89	22.91	22.86	
20	QPSK	50	0	21.98	21.92	21.84	23.0
20	QPSK	50	28	22.86	22.89	22.84	24.0
20	QPSK	50	56	21.90	21.86	21.91	23.0
20	QPSK	100	0	21.88	21.93	21.90	
20	16QAM	1	1	21.68	21.70	21.67	23.0
20	64QAM	1	1	20.26	20.28	20.24	21.5
20	256QAM	1	1	18.84	18.89	18.82	19.5
Channel				164900	166300	166300	
Frequency (MHz)				831.5	831.5	841.5	
15	QPSK	1	1	22.92	22.95	22.86	24.0
Channel				163800	166300	168800	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	22.92	22.94	22.87	24.0
Channel				163300	166300	163300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.91	22.94	22.88	24.0



n2 Ant 1 EC12							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)				1870	1880	1890	
40	PI2 BPSK	1	1	22.46	22.64	22.49	
40	PI2 BPSK	1	168	22.54	22.59	22.49	24.0
40	PI2 BPSK	1	214	22.46	22.57	22.51	
40	PI2 BPSK	168	0	21.86	21.71	21.70	23.5
40	PI2 BPSK	168	54	22.73	22.75	22.70	24.0
40	PI2 BPSK	168	108	22.22	22.26	22.18	23.5
40	PI2 BPSK	216	0	22.24	22.28	22.21	
40	QPSK	1	1	22.72	22.78	22.75	
40	QPSK	1	168	22.55	22.54	22.51	24.0
40	QPSK	1	214	22.44	22.66	22.49	
40	QPSK	168	0	21.77	21.79	21.74	23.0
40	QPSK	168	54	22.72	22.77	22.74	24.0
40	QPSK	168	108	21.73	21.76	21.71	23.0
40	QPSK	216	0	21.75	21.83	21.79	23.0
40	16QAM	1	1	21.38	21.43	21.41	23.0
40	16QAM	1	1	19.94	19.98	19.96	21.5
40	256QAM	1	1	18.52	18.60	18.58	19.5
Channel							
Frequency (MHz)				37650	37660	37660	
35	QPSK	1	1	22.68	22.65	22.63	24.0
Channel							
Frequency (MHz)				37900	37900	37900	
30	QPSK	1	1	22.59	22.67	22.67	24.0
Channel							
Frequency (MHz)				37920	37920	37920	
25	QPSK	1	1	22.48	22.61	22.53	24.0
Channel							
Frequency (MHz)				37920	37920	38000	
20	QPSK	1	1	22.46	22.63	22.48	24.0
Channel							
Frequency (MHz)				37950	37950	38050	
15	QPSK	1	1	22.48	22.60	22.47	24.0
Channel							
Frequency (MHz)				38100	38100	38100	
10	QPSK	1	1	22.52	22.62	22.54	24.0
Channel							
Frequency (MHz)				37950	37950	38150	
5	QPSK	1	1	22.54	22.62	22.47	24.0

n7 Ant 1 EC12							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)				50500	50500	50500	
50	PI2 BPSK	1	1	22.35	22.47	22.36	
50	PI2 BPSK	1	135	22.29	22.31	22.28	24.0
50	PI2 BPSK	1	268	22.26	22.36	22.34	
50	PI2 BPSK	135	0	21.85	22.06	22.04	23.5
50	PI2 BPSK	135	68	22.45	22.53	22.48	24.0
50	PI2 BPSK	135	135	21.85	22.05	21.97	23.5
50	PI2 BPSK	270	0	22.00	22.04	22.01	
50	QPSK	1	1	22.54	22.58	22.57	
50	QPSK	1	135	22.32	22.37	22.32	24.0
50	QPSK	1	268	22.35	22.36	22.34	
50	QPSK	135	0	21.45	21.58	21.50	23.0
50	QPSK	135	68	22.49	22.55	22.52	24.0
50	QPSK	135	135	21.44	21.57	21.47	23.0
50	QPSK	270	0	21.80	21.85	21.83	23.0
50	16QAM	1	1	21.08	21.14	21.11	23.0
50	16QAM	1	1	19.70	19.75	19.74	21.5
50	256QAM	1	1	18.28	18.35	18.30	19.5
Channel							
Frequency (MHz)				50500	50700	51050	
40	QPSK	1	1	22.48	22.51	22.48	24.0
Channel							
Frequency (MHz)				50300	50700	51050	
35	QPSK	1	1	22.59	22.47	22.53	24.0
Channel							
Frequency (MHz)				50300	50700	51100	
30	QPSK	1	1	22.46	22.53	22.47	24.0
Channel							
Frequency (MHz)				50500	50700	51150	
25	QPSK	1	1	22.47	22.51	22.51	24.0
Channel							
Frequency (MHz)				50200	50700	51200	
20	PI2 BPSK	1	1	22.40	22.51	22.47	24.0
Channel							
Frequency (MHz)				50150	50700	51250	
15	QPSK	1	1	22.41	22.54	22.50	24.0
Channel							
Frequency (MHz)				50100	50700	51300	
10	QPSK	1	1	22.47	22.48	22.53	24.0
Channel							
Frequency (MHz)				50050	50700	51350	
5	QPSK	1	1	22.51	22.52	22.47	24.0

n66 Ant 1 EC12							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)				1732.5	1745	1757.5	
45	PI2 BPSK	1	1	22.61	22.71	22.72	
45	PI2 BPSK	1	120	22.60	22.62	22.61	24.0
45	PI2 BPSK	1	240	22.63	22.70	22.68	
45	PI2 BPSK	120	0	22.21	22.35	22.31	23.5
45	PI2 BPSK	120	60	22.71	22.79	22.76	24.0
45	PI2 BPSK	120	120	22.23	22.28	22.28	23.5
45	QPSK	1	1	22.71	22.85	22.72	
45	QPSK	1	120	22.61	22.69	22.65	24.0
45	QPSK	1	240	22.68	22.72	22.68	
45	QPSK	120	0	21.69	21.82	21.80	23.0
45	QPSK	120	60	22.74	22.80	22.77	24.0
45	QPSK	120	120	21.80	21.81	21.73	23.0
45	QPSK	240	0	21.80	21.85	21.82	23.0
45	16QAM	1	1	21.44	21.50	21.48	23.0
45	16QAM	1	1	19.98	20.03	20.00	21.5
45	256QAM	1	1	18.59	18.65	18.62	19.5
Channel							
Frequency (MHz)				34500	34500	35200	
40	QPSK	1	1	22.60	22.80	22.59	24.0
Channel							
Frequency (MHz)				34500	34900	35200	
35	QPSK	1	1	22.61	22.83	22.84	24.0
Channel							
Frequency (MHz)				34500	34900	35300	
30	QPSK	1	1	22.59	22.74	22.83	24.0
Channel							
Frequency (MHz)				34400	34900	35300	
25	QPSK	1	1	22.58	22.74	22.72	24.0
Channel							
Frequency (MHz)				34400	34600	34600	
20	QPSK	1	1	22.62	22.70	22.65	24.0
Channel							
Frequency (MHz)				34500	34500	35200	
15	QPSK	1	1	22.64	22.67	22.72	24.0
Channel							
Frequency (MHz)				34300	34900	35200	
10	QPSK	1	1	22.58	22.67	22.65	24.0
Channel							
Frequency (MHz)				34200	34900	35500	
5	QPSK	1	1	22.62	22.67	22.69	24.0



n2 Ant 4 ECI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	18.11	18.12	18.09		
40	PI2 BPSK	1	108	18.12	18.12	18.06		0.0
40	PI2 BPSK	1	214	18.06	18.12	18.08		
40	PI2 BPSK	108	0	18.18	18.16	18.15	19.3	0.0
40	PI2 BPSK	108	54	18.06	18.14	18.11	19.3	0.0
40	PI2 BPSK	108	108	18.21	18.15	18.15	19.3	0.0
40	PI2 BPSK	216	0	18.16	18.18	18.19		
40	QPSK	1	1	18.16	18.22	18.16		
40	QPSK	1	108	18.14	18.10	18.10	19.3	0.0
40	QPSK	1	214	18.10	18.12	18.15		
40	QPSK	108	0	18.15	18.17	18.16	19.3	0.0
40	QPSK	108	54	18.15	18.20	18.18	19.3	0.0
40	QPSK	108	108	18.09	18.13	18.13		
40	QPSK	216	0	18.14	18.18	18.14		
40	16QAM	1	1	18.13	18.08	18.14	19.3	0.0
40	16QAM	1	1	18.16	18.19	18.12	19.3	0.0
40	256QAM	1	1	17.87	18.03	17.89	19.3	0.0
Channel								
Frequency (MHz)				374000	376000	378000	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	18.18	18.15	18.17	24.0	0.0
Channel								
Frequency (MHz)				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.05	18.09	18.05	24.0	0.0
Channel								
Frequency (MHz)				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.25	18.20	18.21	24.0	0.0
Channel								
Frequency (MHz)				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.12	18.20	18.08	24.0	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.23	18.20	18.19	19.3	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.19	18.15	18.09	19.3	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.24	18.15	18.15	19.3	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	22.63	22.67	22.61		
20	PI2 BPSK	1	53	22.58	22.65	22.60	23.8	0.0
20	PI2 BPSK	1	104	22.58	22.63	22.57		
20	PI2 BPSK	50	0	21.94	22.08	22.02	23.5	0.3
20	PI2 BPSK	50	28	22.38	22.49	22.44	23.8	0.0
20	PI2 BPSK	50	56	21.99	22.09	21.95	23.5	0.3
20	PI2 BPSK	100	0	22.08	22.10	22.06		
20	QPSK	1	1	22.64	22.68	22.62		
20	QPSK	1	53	22.64	22.66	22.60	23.8	0.0
20	QPSK	1	104	22.64	22.67	22.60		
20	QPSK	50	0	21.42	21.56	21.47	23.0	0.8
20	QPSK	50	28	22.45	22.55	22.53	23.8	0.0
20	QPSK	50	56	21.40	21.53	21.48	23.0	0.8
20	QPSK	100	0	21.52	21.55	21.52		
20	16QAM	1	1	21.33	21.43	21.35	23.0	0.8
20	16QAM	1	1	19.93	19.96	19.91	21.5	2.3
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.3
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.57	22.64	22.58	23.8	0.0
Channel								
Frequency (MHz)				164800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.65	22.68	22.61	23.8	0.0
Channel								
Frequency (MHz)				163300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.62	22.63	22.59	23.8	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	18.29	18.44	18.30		
50	PI2 BPSK	1	135	18.38	18.41	18.32	19.4	0.0
50	PI2 BPSK	1	268	18.19	18.41	18.27		
50	PI2 BPSK	135	0	18.38	18.37	18.34	19.4	0.0
50	PI2 BPSK	135	68	18.28	18.43	18.41	19.4	0.0
50	PI2 BPSK	135	135	18.32	18.35	18.38	19.4	0.0
50	PI2 BPSK	270	0	18.35	18.44	18.42		
50	QPSK	1	1	18.38	18.46	18.38		
50	QPSK	1	135	18.27	18.38	18.22	19.4	0.0
50	QPSK	1	268	18.31	18.41	18.31		
50	QPSK	135	0	18.33	18.42	18.36	19.4	0.0
50	QPSK	135	68	18.42	18.44	18.37	19.4	0.0
50	QPSK	135	135	18.39	18.41	18.38		
50	QPSK	270	0	18.41	18.44	18.42		
50	16QAM	1	1	18.04	18.07	18.05	19.4	0.0
50	16QAM	1	1	18.12	18.19	18.18	19.4	0.0
50	256QAM	1	1	17.70	17.78	17.72	18.5	0.9
Channel								
Frequency (MHz)				50200	50700	51000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.27	18.43	18.27	19.4	0.0
Channel								
Frequency (MHz)				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	18.33	18.35	18.29	23.0	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.29	18.39	18.25	19.4	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.30	18.45	18.30	19.4	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	18.32	18.37	18.25	19.4	0.0
Channel								
Frequency (MHz)				2517.5	2535	2552.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.29	18.45	18.29	19.4	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.35	18.35	18.31	19.4	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.31	18.37	18.33	19.4	0.0



n26 Ant 4 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				168300	169300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	23.8	0.0
20	PI2 BPSK	1	104	22.77	22.84	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.3
20	PI2 BPSK	50	28	22.82	22.71	22.87	23.8	0.0
20	PI2 BPSK	50	58	22.16	22.26	22.22	23.5	0.3
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81	23.8	0.0
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	23.0	0.8
20	QPSK	50	28	22.81	22.70	22.86	23.8	0.0
20	QPSK	50	58	21.80	21.74	21.68	23.0	0.8
20	QPSK	100	0	21.72	21.75	21.74		
20	16QAM	1	1	21.48	21.53	21.49	23.0	0.8
20	64QAM	1	1	20.04	20.10	20.07	21.5	2.3
20	256QAM	1	1	18.81	18.70	18.65	19.5	4.3
Channel				168300	169300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	23.8	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.74	22.79	22.78	23.8	0.0
Channel				163300	166300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.70	22.80	22.75	23.8	0.0

n66 Ant 4 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	345500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	17.93	18.05	17.90		
45	PI2 BPSK	1	120	17.98	18.05	17.93	19.0	0.0
45	PI2 BPSK	1	240	17.97	17.87	17.85		
45	PI2 BPSK	120	0	17.86	17.92	17.91	19.0	0.0
45	PI2 BPSK	120	60	17.84	17.98	17.97	19.0	0.0
45	PI2 BPSK	120	120	17.92	17.95	17.94	19.0	0.0
45	PI2 BPSK	240	0	17.94	17.95	17.97		
45	QPSK	1	1	17.95	18.06	17.93		
45	QPSK	1	120	17.99	18.00	17.98	19.0	0.0
45	QPSK	1	240	17.88	17.94	17.99		
45	QPSK	120	0	17.96	18.00	17.95	19.0	0.0
45	QPSK	120	60	17.87	18.03	17.99	19.0	0.0
45	QPSK	120	120	17.82	17.83	17.81	19.0	0.0
45	QPSK	240	0	17.99	18.04	17.97		
45	16QAM	1	1	17.63	17.74	17.60	19.0	0.0
45	64QAM	1	1	17.67	17.74	17.74	19.0	0.0
45	256QAM	1	1	18.02	18.05	18.00	19.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	17.89	18.04	17.91	19.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	17.94	17.95	17.82	19.0	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	17.86	18.05	17.88	19.0	0.0
Channel				344500	349000	344500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	17.84	17.98	17.85	19.0	0.0
Channel				344000	349000	344000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.90	18.00	17.82	19.0	0.0
Channel				343500	349000	343500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	17.90	18.04	17.88	19.0	0.0
Channel				343000	349000	343000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.94	18.02	17.91	19.0	0.0
Channel				342500	349000	342500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.94	18.05	17.88	19.0	0.0



n38 Ant 0 ECI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519394	519500	519596			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09			
40	PI/2 BPSK	50	0	20.55	20.86	20.81	21.5	0.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	50	56	20.46	20.86	20.58	21.5	0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.05	20.12	20.05	21.0	1.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	80	56	20.04	20.14	20.14	21.0	1.0	
40	QPSK	100	0	20.08	20.13	20.10			
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0	
40	16QAM	1	1	18.07	18.10	18.07	19.5	2.5	
40	256QAM	1	1	18.76	18.82	18.71	17.5	4.5	
Channel				517002	516900	520398	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.91	2595	2604.99	22.0	0.0	
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	22.0	0.0	
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				516000	519000	523000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	22.0	0.0	
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				515502	519000	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	22.0	0.0	
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				515004	519000	525996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	22.0	0.0	
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

n41 Ant 0 ECI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526202	518598	526200			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72	21.5	0.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.65			
100	QPSK	1	1	21.16	21.26	21.22			
100	QPSK	1	137	21.15	21.27	21.14	22.0	0.0	
100	QPSK	1	271	21.17	21.26	21.21			
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0	
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0	
100	QPSK	135	138	20.19	20.22	20.21	21.0	1.0	
100	QPSK	270	0	20.22	20.29	20.25			
100	16QAM	1	1	19.88	19.74	19.71	21.0	1.0	
100	16QAM	1	1	18.21	18.27	18.24	19.5	2.5	
100	256QAM	1	1	18.87	18.91	18.88	17.5	4.5	
Channel				506300	518598	526398	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0	
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0	
Channel				507204	518598	529898	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99	22.0	0.0	
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2665	22.0	0.0	
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.99	22.0	0.0	
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	0.0	
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0	
Channel				503200	518598	533498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.05	2592.99	2667.48	22.0	0.0	
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670	22.0	0.0	
40	QPSK	1	1	21.15	21.21	21.20	22.0	0.0	
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	22.0	0.0	
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	22.0	0.0	
30	QPSK	1	1	21.15	21.24	21.14	22.0	0.0	
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	22.0	0.0	
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0	
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.05	2592.99	2682.48	22.0	0.0	
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	22.0	0.0	
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0	



n38 Ant 1 ECI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519300	519696		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	22.53	22.59	22.57		
40	Pl/2 BPSK	1	53	22.49	22.54	22.58		
40	Pl/2 BPSK	1	104	22.46	22.54	22.52	24.0	0.0
40	Pl/2 BPSK	50	0	22.17	22.22	22.15	23.5	0.5
40	Pl/2 BPSK	50	28	22.57	22.61	22.58	24.0	0.0
40	Pl/2 BPSK	50	56	22.07	22.20	22.18	23.5	0.5
40	Pl/2 BPSK	100	0	22.16	22.20	22.17		
40	QPSK	1	1	22.58	22.76	22.59		
40	QPSK	1	53	22.53	22.57	22.56	24.0	0.0
40	QPSK	1	104	22.49	22.55	22.52		
40	QPSK	50	0	21.58	21.70	21.66	23.0	1.0
40	QPSK	50	28	22.62	22.67	22.63	24.0	0.0
40	QPSK	80	56	21.65	21.67	21.59	23.0	1.0
40	QPSK	100	0	21.60	21.68	21.65		
40	16QAM	1	1	21.27	21.32	21.29	23.0	1.0
40	16QAM	1	1	19.81	19.89	19.88	21.5	2.5
40	256QAM	1	1	18.46	18.53	18.50	19.5	4.5
Channel				517002	516900	520398	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.58	22.59	22.53	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	22.52	22.60	22.55	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.50	22.55	22.52	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.52	22.59	22.57	24.0	0.0
Channel				515004	519000	529996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.53	22.57	22.53	24.0	0.0

n41 Ant 1 ECI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	22.54	22.78	22.55		
100	Pl/2 BPSK	1	137	22.51	22.74	22.48	24.0	0.0
100	Pl/2 BPSK	1	271	22.52	22.78	22.52		
100	Pl/2 BPSK	135	0	22.08	22.29	22.10	23.5	0.5
100	Pl/2 BPSK	135	69	22.51	22.80	22.46	24.0	0.0
100	Pl/2 BPSK	135	138	22.06	22.34	22.06	23.5	0.5
100	Pl/2 BPSK	270	0	22.15	22.35	22.02		
100	QPSK	1	1	22.58	22.85	22.58		
100	QPSK	1	137	22.59	22.80	22.52	24.0	0.0
100	QPSK	1	271	22.50	22.82	22.56		
100	QPSK	135	0	21.61	21.82	21.54	23.0	1.0
100	QPSK	135	69	22.60	22.84	22.54	24.0	0.0
100	QPSK	135	138	21.58	21.80	21.58	23.0	1.0
100	QPSK	270	0	21.65	21.87	21.57		
100	16QAM	1	1	21.33	21.41	21.35	23.0	1.0
100	16QAM	1	1	19.82	19.93	19.88	21.5	2.5
100	256QAM	1	1	18.50	18.59	18.51	19.5	4.5
Channel				526200	518998	529198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	22.59	22.76	22.59	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.57	22.77	22.58	24.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.53	22.78	22.53	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	22.53	22.81	22.53	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.57	22.73	22.53	24.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.05	2592.99	2669.49		
45	QPSK	1	1	22.56	22.77	22.54	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	22.53	22.73	22.50	24.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	22.55	22.75	22.55	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.50	22.78	22.53	24.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	22.56	22.70	22.50	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.50	22.82	22.57	24.0	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.55	22.77	22.50	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.60	22.77	22.54	24.0	0.0



n38 Ant 2 ECI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98		
Frequency (MHz)				519304	519350	519396		
40	Pl/2 BPSK	1	1	18.37	18.38	18.18		
40	Pl/2 BPSK	1	53	18.42	18.39	18.23	19.6	0.0
40	Pl/2 BPSK	1	104	18.39	18.40	18.34		
40	Pl/2 BPSK	50	0	18.24	18.32	18.16	19.5	0.1
40	Pl/2 BPSK	50	28	18.27	18.28	18.22	19.6	0.0
40	Pl/2 BPSK	50	56	18.19	18.41	18.22	19.5	0.1
40	Pl/2 BPSK	100	0	18.26	18.30	18.22		
40	QPSK	1	1	18.40	18.43	18.26		
40	QPSK	1	53	18.37	18.39	18.27	19.6	0.0
40	QPSK	1	104	18.33	18.39	18.28		
40	QPSK	50	0	17.71	17.90	17.58	19.0	0.6
40	QPSK	50	28	18.27	18.35	18.27	19.6	0.0
40	QPSK	80	56	17.86	17.87	17.89	19.0	0.6
40	QPSK	100	0	17.86	17.88	17.84		
40	16QAM	1	1	17.83	17.89	17.69	19.0	0.6
40	16QAM	1	1	18.28	18.37	18.30	17.5	2.1
40	256QAM	1	1	14.88	14.99	14.77	15.5	4.1
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.40	18.40	18.18	19.6	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	18.37	18.35	18.13	19.6	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.39	18.38	18.14	19.6	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	18.40	18.33	18.16	19.6	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.41	18.37	18.16	19.6	0.0

n41 Ant 2 ECI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640		
Frequency (MHz)				509204	518998	529000		
100	Pl/2 BPSK	1	1	18.47	18.52	18.35		
100	Pl/2 BPSK	1	137	18.50	18.55	18.39	19.6	0.0
100	Pl/2 BPSK	1	271	18.45	18.52	18.43		
100	Pl/2 BPSK	135	0	18.40	18.47	18.33	19.5	0.1
100	Pl/2 BPSK	135	69	18.39	18.45	18.29	19.6	0.0
100	Pl/2 BPSK	135	138	18.36	18.49	18.37	19.5	0.1
100	Pl/2 BPSK	270	0	18.37	18.46	18.35		
100	QPSK	1	1	18.54	18.58	18.38		
100	QPSK	1	137	18.53	18.58	18.34	19.6	0.0
100	QPSK	1	271	18.47	18.55	18.38		
100	QPSK	135	0	17.87	18.00	17.75	19.0	0.6
100	QPSK	135	69	18.37	18.43	18.35	19.6	0.0
100	QPSK	135	138	17.94	17.85	17.83		
100	QPSK	270	0	18.00	18.08	18.01	19.0	0.6
100	16QAM	1	1	17.91	17.95	17.86	19.0	0.6
100	16QAM	1	1	18.44	18.46	18.40	17.5	2.1
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.1
Channel				509200	518998	529000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	18.54	18.51	18.29	19.6	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.45	18.48	18.21	19.6	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.44	18.48	18.38	19.6	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	18.44	18.52	18.34	19.6	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.53	18.47	18.28	19.6	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2669.49		
45	QPSK	1	1	18.52	18.54	18.28	20.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510.01	2592.99	2670		
40	QPSK	1	1	18.44	18.50	18.31	19.6	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	18.54	18.56	18.32	20.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.43	18.58	18.33	19.6	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	18.42	18.53	18.28	20.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.43	18.48	18.28	19.6	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.43		
15	QPSK	1	1	18.45	18.48	18.29	19.6	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.52	18.48	18.36	19.6	0.0



Part270 n77 PC3&PC2 Ant 3 EC12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq	Power Middle Ch./ Freq	Power High Ch./ Freq	Tune-up limit (dBm)	MPR (dB)
	Channel			3750	3840	3930		
	Frequency (MHz)							
100	Pl/2 BPSK	1	1	17.47	17.48	17.19		
100	Pl/2 BPSK	1	137	17.42	17.52	17.09	18.5	0.0
100	Pl/2 BPSK	1	271	17.37	17.53	17.08		
100	Pl/2 BPSK	135	0	17.42	17.49	17.38	18.5	0.0
100	Pl/2 BPSK	135	69	17.41	17.41	17.40	18.5	0.0
100	Pl/2 BPSK	135	138	17.38	17.41	17.43	18.5	0.0
100	Pl/2 BPSK	270	0	17.43	17.43	17.37		
100	QPSK	1	1	17.51	17.56	17.46		
100	QPSK	1	137	17.40	17.54	17.41	18.5	0.0
100	QPSK	1	271	17.48	17.54	17.42		
100	QPSK	135	0	17.40	17.48	17.44	18.5	0.0
100	QPSK	135	69	17.40	17.48	17.42	18.5	0.0
100	QPSK	135	138	17.44	17.44	17.40	18.5	0.0
100	QPSK	270	0	17.44	17.48	17.45		
100	16QAM	1	1	17.15	17.27	17.28	18.5	0.0
100	16QAM	1	1	17.32	17.35	17.30	18.5	0.0
100	256QAM	1	1	17.44	17.50	17.40	18.5	0.0
	Channel			64968	65000	65234	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3745.02	3840	3935.01		
90	QPSK	1	1	17.48	17.48	17.42	18.5	0.0
	Channel			649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3740.01	3840	3940.02		
80	QPSK	1	1	17.43	17.47	17.25	18.5	0.0
	Channel			649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3735	3840	3945		
70	QPSK	1	1	17.47	17.45	17.42	18.5	0.0
	Channel			648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3730.02	3840	3930.01		
60	QPSK	1	1	17.41	17.47	17.42	18.5	0.0
	Channel			648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3725.01	3840	3935.02		
50	QPSK	1	1	17.20	17.54	17.37	18.5	0.0
	Channel			648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3720	3840	3960		
40	QPSK	1	1	17.50	17.53	17.39	18.5	0.0
	Channel			647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3715.02	3840	3955.01		
30	QPSK	1	1	17.40	17.47	17.38	18.5	0.0
	Channel			647334	650000	654500	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3712.5	3840	3967.5		
25	QPSK	1	1	17.49	17.54	17.40	18.5	0.0
	Channel			647000	650000	654668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3710.01	3840	3970.02		
20	QPSK	1	1	17.48	17.50	17.33	18.5	0.0
	Channel			647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3707.52	3840	3972.51		
15	QPSK	1	1	17.43	17.48	17.43	18.5	0.0
	Channel			647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3705	3840	3975		
10	QPSK	1	1	17.49	17.50	17.43	18.5	0.0

Part270 n78 PC3&PC2 Ant 3 EC12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq	Power Middle Ch./ Freq	Power High Ch./ Freq	Tune-up limit (dBm)	MPR (dB)
	Channel			3750	3760	3760		
	Frequency (MHz)							
100	Pl/2 BPSK	1	1	17.41	17.41	17.41		
100	Pl/2 BPSK	1	137	17.38	17.38	17.38	18.5	0.0
100	Pl/2 BPSK	1	271	17.35	17.35	17.35		
100	Pl/2 BPSK	135	0	17.34	17.34	17.34	18.5	0.0
100	Pl/2 BPSK	135	69	17.44	17.44	17.44	18.5	0.0
100	Pl/2 BPSK	135	138	17.37	17.37	17.37	18.5	0.0
100	Pl/2 BPSK	270	0	17.32	17.32	17.32		
100	QPSK	1	1	17.48	17.48	17.48		
100	QPSK	1	137	17.39	17.39	17.39	18.5	0.0
100	QPSK	1	271	17.42	17.42	17.42		
100	QPSK	135	0	17.38	17.38	17.38	18.5	0.0
100	QPSK	135	69	17.40	17.40	17.40	18.5	0.0
100	QPSK	135	138	17.35	17.35	17.35	18.5	0.0
100	QPSK	270	0	17.43	17.43	17.43		
100	16QAM	1	1	17.13	17.13	17.13	18.5	0.0
100	16QAM	1	1	17.17	17.17	17.17	18.5	0.0
100	256QAM	1	1	17.44	17.44	17.44	18.5	0.0
	Channel			64968	650000	65334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3745.02	3760	3765.01		
90	QPSK	1	1	17.30	17.44	17.32	18.5	0.0
	Channel			649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3740.01	3760	3760.02		
80	QPSK	1	1	17.23	17.44	17.29	18.5	0.0
	Channel			649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3735	3760	3765		
70	QPSK	1	1	17.32	17.40	17.35	18.5	0.0
	Channel			648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3730.02	3760	3730.01		
60	QPSK	1	1	17.31	17.42	17.35	18.5	0.0
	Channel			648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3725.01	3760	3775.02		
50	QPSK	1	1	17.33	17.28	17.33	18.5	0.0
	Channel			648000	650000	653000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3720	3760	3780		
40	QPSK	1	1	17.28	17.42	17.37	18.5	0.0
	Channel			647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3715.02	3760	3725.01		
30	QPSK	1	1	17.27	17.29	17.40	18.5	0.0
	Channel			647334	650000	652500	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3712.5	3760	3787.5		
25	QPSK	1	1	17.39	17.43	17.35	18.5	0.0
	Channel			647000	650000	652668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3710.01	3760	3790.02		
20	QPSK	1	1	17.29	17.42	17.38	18.5	0.0
	Channel			647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3707.52	3760	3792.51		
15	QPSK	1	1	17.37	17.44	17.38	18.5	0.0
	Channel			647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3705	3760	3795		
10	QPSK	1	1	17.32	17.43	17.30	18.5	0.0



n38 Ant 4 EC12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98		
Frequency (MHz)				18.59	18.73	18.89		
40	PI2 BPSK	1	1	18.59	18.73	18.89		
40	PI2 BPSK	1	53	18.49	18.60	18.65	19.7	0.0
40	PI2 BPSK	1	104	18.61	18.61	18.53		
40	PI2 BPSK	50	0	18.53	18.66	18.65	19.7	0.0
40	PI2 BPSK	50	28	18.55	18.66	18.57	19.7	0.0
40	PI2 BPSK	50	56	18.70	18.74	18.58	19.7	0.0
40	PI2 BPSK	100	0	18.59	18.76	18.60		
40	QPSK	1	1	18.73	18.80	18.77		
40	QPSK	1	53	18.61	18.72	18.60	19.7	0.0
40	QPSK	1	104	18.66	18.70	18.63		
40	QPSK	50	0	18.60	18.76	18.64	19.7	0.0
40	QPSK	50	28	18.76	18.78	18.72	19.7	0.0
40	QPSK	80	56	18.57	18.69	18.61		
40	QPSK	100	0	18.69	18.74	18.72	19.7	0.0
40	16QAM	1	1	18.60	18.73	18.67	19.7	0.0
40	16QAM	1	1	18.71	18.78	18.75	19.7	0.0
40	256QAM	1	1	18.02	18.10	18.06	19.5	0.2
Channel				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.62	18.76	18.58	19.7	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	18.54	18.73	18.59	19.7	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.58	18.76	18.57	19.7	0.0
Channel				515502	519000	52498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	18.60	18.74	18.59	19.7	0.0
Channel				515004	519000	52996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.57	18.73	18.63	19.7	0.0

n41 Ant 4 EC12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640		
Frequency (MHz)				18.68	18.76	18.65		
100	PI2 BPSK	1	1	18.68	18.76	18.65		
100	PI2 BPSK	1	137	18.59	18.73	18.58	19.7	0.0
100	PI2 BPSK	1	271	18.72	18.72	18.55		
100	PI2 BPSK	135	0	18.78	18.82	18.73	19.7	0.0
100	PI2 BPSK	135	69	18.73	18.79	18.70	19.7	0.0
100	PI2 BPSK	135	138	18.74	18.80	18.73	19.7	0.0
100	PI2 BPSK	270	0	18.79	18.86	18.78		
100	QPSK	1	1	18.78	18.88	18.81		
100	QPSK	1	137	18.71	18.78	18.77	19.7	0.0
100	QPSK	1	271	18.68	18.76	18.64		
100	QPSK	135	0	18.73	18.75	18.69	19.7	0.0
100	QPSK	135	69	18.75	18.80	18.77	19.7	0.0
100	QPSK	135	138	18.74	18.79	18.76		
100	QPSK	270	0	18.76	18.82	18.78	19.7	0.0
100	16QAM	1	1	18.76	18.71	18.74	19.7	0.0
100	16QAM	1	1	18.77	18.84	18.81	19.7	0.0
100	256QAM	1	1	18.20	18.24	18.22	19.5	0.2
Channel				506300	518598	520896	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.78	18.78	18.80	19.7	0.0
Channel				507204	518598	529988	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	18.67	18.84	18.69	19.7	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2665		
70	QPSK	1	1	18.78	18.76	18.76	19.7	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	18.69	18.86	18.75	19.7	0.0
Channel				504204	518598	532988	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.67	18.80	18.73	19.7	0.0
Channel				503200	518598	533984	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.05	2592.99	2667.48		
45	QPSK	1	1	18.71	18.86	18.70	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.71	18.81	18.71	19.7	0.0
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	18.69	18.84	18.79	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.69	18.82	18.71	19.7	0.0
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	18.77	18.87	18.80	24.0	0.0
Channel				501204	518598	535986	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.68	18.76	18.72	19.7	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.43		
15	QPSK	1	1	18.75	18.82	18.70	19.7	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.74	18.82	18.81	19.7	0.0



Part270 n77 PC3&PC2 Ant 5 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				18.37	18.33	18.31			
100	PI/2 BPSK	1	1	18.37	18.33	18.31			
100	PI/2 BPSK	1	137	18.26	18.37	18.30	19.3	0.0	
100	PI/2 BPSK	1	271	18.33	18.38	18.27			
100	PI/2 BPSK	135	0	18.39	18.40	18.36	19.3	0.0	
100	PI/2 BPSK	135	69	18.31	18.32	18.29	19.3	0.0	
100	PI/2 BPSK	135	138	18.30	18.38	18.33	19.3	0.0	
100	PI/2 BPSK	270	0	18.37	18.40	18.39			
100	QPSK	1	1	18.37	18.42	18.35			
100	QPSK	1	137	18.32	18.32	18.30	19.3	0.0	
100	QPSK	1	271	18.31	18.34	18.31			
100	QPSK	135	0	18.29	18.35	18.33	19.3	0.0	
100	QPSK	135	69	18.33	18.38	18.30	19.3	0.0	
100	QPSK	135	138	18.29	18.30	18.26	19.3	0.0	
100	QPSK	270	0	18.38	18.40	18.38			
100	16QAM	1	1	18.31	18.34	18.24	19.3	0.0	
100	16QAM	1	1	18.34	18.37	18.33	19.3	0.0	
100	256QAM	1	1	17.93	17.91	17.89	19.3	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.30	18.37	18.30	19.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.29	18.39	18.27	19.3	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.25	18.37	18.33	19.3	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.25	18.39	18.31	19.3	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.31	18.30	18.26	19.3	0.0	
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.34	18.39	18.35	19.3	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.23	18.32	18.25	19.3	0.0	
Channel				647000	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.25	18.38	18.34	19.3	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.29	18.38	18.31	19.3	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.29	18.40	18.28	19.3	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.32	18.34	18.29	19.3	0.0	

Part270 n78 PC3&PC2 Ant 5 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)				18.24	18.24	18.24			
100	PI/2 BPSK	1	1	18.24	18.24	18.24			
100	PI/2 BPSK	1	137	18.34	18.34	18.34	19.3	0.0	
100	PI/2 BPSK	1	271	18.23	18.23	18.23			
100	PI/2 BPSK	135	0	18.31	18.31	18.31	19.3	0.0	
100	PI/2 BPSK	135	69	18.29	18.29	18.29	19.3	0.0	
100	PI/2 BPSK	135	138	18.34	18.34	18.34	19.3	0.0	
100	PI/2 BPSK	270	0	18.30	18.30	18.30			
100	QPSK	1	1	18.28	18.28	18.28			
100	QPSK	1	137	18.28	18.28	18.28	19.3	0.0	
100	QPSK	1	271	18.24	18.24	18.24			
100	QPSK	135	0	18.25	18.25	18.25	19.3	0.0	
100	QPSK	135	69	18.34	18.34	18.34	19.3	0.0	
100	QPSK	135	138	18.32	18.32	18.32	19.3	0.0	
100	QPSK	270	0	18.31	18.31	18.31			
100	16QAM	1	1	18.33	18.33	18.33	19.3	0.0	
100	16QAM	1	1	18.38	18.38	18.38	19.3	0.0	
100	256QAM	1	1	17.77	17.77	17.77	19.3	0.0	
Channel				64968	650000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	18.18	18.32	18.23	19.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	18.14	18.32	18.23	19.3	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	18.12	18.38	18.15	19.3	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	18.12	18.38	18.21	19.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	18.14	18.33	18.17	19.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	18.15	18.29	18.18	19.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	18.21	18.29	18.15	19.3	0.0	
Channel				647000	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	18.21	18.29	18.22	19.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	18.12	18.37	18.20	19.3	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	18.11	18.38	18.19	19.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	18.13	18.33	18.15	19.3	0.0	



Part270 n77 PC3&PC2 Ant 7 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI/2 BPSK	1	1	18.53	16.40	16.55			
100	PI/2 BPSK	1	137	18.46	16.47	16.46	18.0	0.0	
100	PI/2 BPSK	1	271	18.58	16.59	16.54			
100	PI/2 BPSK	135	0	18.61	16.84	16.56	18.0	0.0	
100	PI/2 BPSK	135	69	18.36	16.45	16.49	18.0	0.0	
100	PI/2 BPSK	135	138	18.63	16.62	16.81	18.0	0.0	
100	PI/2 BPSK	270	0	18.63	16.60	16.51			
100	QPSK	1	1	18.61	16.75	16.80			
100	QPSK	1	137	18.57	16.41	16.49	18.0	0.0	
100	QPSK	1	271	18.64	16.47	16.59			
100	QPSK	135	0	18.47	16.59	16.51	18.0	0.0	
100	QPSK	135	69	18.43	16.64	16.56	18.0	0.0	
100	QPSK	135	138	18.54	16.63	16.46	18.0	0.0	
100	QPSK	270	0	18.64	16.70	16.53			
100	16QAM	1	1	16.49	16.61	16.41	18.0	0.0	
100	16QAM	1	1	18.66	16.69	16.53	18.0	0.0	
100	256QAM	1	1	18.60	16.54	16.60	18.0	0.0	
Channel				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.57	16.65	16.51	18.0	0.0	
Channel				649334	656000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.57	16.65	16.59	18.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.58	16.73	16.48	18.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.03			
60	QPSK	1	1	16.58	16.65	16.59	18.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.52	16.74	16.52	18.0	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.59	16.69	16.51	18.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.61	16.64	16.53	18.0	0.0	
Channel				647334	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	16.53	16.68	16.52	18.0	0.0	
Channel				647000	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.53	16.74	16.52	18.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	16.51	16.72	16.49	18.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.53	16.69	16.49	18.0	0.0	

Part270 n78 PC3&PC2 Ant 7 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)									
100	PI/2 BPSK	1	1	16.43					
100	PI/2 BPSK	1	137	16.50			18.0	0.0	
100	PI/2 BPSK	1	271	16.37					
100	PI/2 BPSK	135	0	16.54			18.0	0.0	
100	PI/2 BPSK	135	69	16.48			18.0	0.0	
100	PI/2 BPSK	135	138	16.58			18.0	0.0	
100	PI/2 BPSK	270	0	16.47					
100	QPSK	1	1	16.61					
100	QPSK	1	137	16.44			18.0	0.0	
100	QPSK	1	271	16.45					
100	QPSK	135	0	16.59			18.0	0.0	
100	QPSK	135	69	16.44			18.0	0.0	
100	QPSK	135	138	16.44			18.0	0.0	
100	QPSK	270	0	16.60					
100	16QAM	1	1	16.45			18.0	0.0	
100	16QAM	1	1	16.50			18.0	0.0	
100	256QAM	1	1	16.51			18.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	16.36	16.48	16.39	18.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	16.35	16.37	16.44	18.0	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	16.40	16.42	16.45	18.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	16.32	16.39	16.40	18.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	16.36	16.45	16.45	18.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	16.38	16.48	16.40	18.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	16.34	16.47	16.45	18.0	0.0	
Channel				647334	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	16.35	16.43	16.35	18.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	16.32	16.41	16.40	18.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	16.37	16.40	16.45	18.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	16.36	16.40	16.43	18.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.72	22.99	22.76		
100	PI2 BPSK	1	137	22.89	23.02	22.27		0.0
100	PI2 BPSK	1	271	22.80	22.99	22.80		0.0
100	PI2 BPSK	135	8	22.72	22.72	22.89	24.0	0.0
100	PI2 BPSK	135	69	22.70	22.80	22.72	24.0	0.0
100	PI2 BPSK	135	138	22.26	22.75	22.73	24.0	0.0
100	PI2 BPSK	270	0	22.71	22.76	22.74		0.0
100	QPSK	1	1	22.71	22.66	22.75		0.0
100	QPSK	1	137	22.72	23.05	22.85	24.0	0.0
100	QPSK	1	271	22.63	22.98	22.87		0.0
100	QPSK	135	0	22.70	22.79	22.78	24.0	0.0
100	QPSK	135	69	22.78	22.81	22.80	24.0	0.0
100	QPSK	135	138	22.73	22.78	22.75	24.0	0.0
100	QPSK	270	0	22.74	22.77	22.72		0.0
100	16QAM	1	1	22.78	22.82	22.80	24.0	0.0
100	16QAM	1	1	22.81	22.85	22.83	24.0	0.0
100	256QAM	1	1	21.86	22.03	22.01	23.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.85	23.04	22.71	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.65	23.04	22.69	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.85	23.05	22.72	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.71	23.03	22.71	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.74	23.00	22.66	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.63	23.00	22.64	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.74	23.00	22.68	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.83	23.01	22.73	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.82	22.97	22.85	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.67	23.03	22.69	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.65	22.99	22.76	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.84	25.99	25.76		
100	PI2 BPSK	1	137	25.81	25.83	25.75	27.0	0.0
100	PI2 BPSK	1	271	25.79	25.92	25.70		0.0
100	PI2 BPSK	135	8	25.33	25.41	25.28	26.5	0.5
100	PI2 BPSK	135	69	25.82	25.85	25.83	27.0	0.0
100	PI2 BPSK	135	138	25.29	25.39	25.34	26.5	0.5
100	PI2 BPSK	270	0	25.31	25.38	25.31		0.0
100	QPSK	1	1	25.87	26.04	25.83		0.0
100	QPSK	1	137	25.80	25.85	25.73	27.0	0.0
100	QPSK	1	271	25.78	25.84	25.78		0.0
100	QPSK	135	0	24.80	24.82	24.83	26.0	1.0
100	QPSK	135	69	25.83	25.86	25.81	27.0	0.0
100	QPSK	135	138	24.84	24.98	24.78	26.0	1.0
100	QPSK	270	0	24.78	24.83	24.76		0.0
100	16QAM	1	1	24.77	24.81	24.79	26.0	1.0
100	16QAM	1	1	23.34	23.42	23.38	24.5	2.5
100	256QAM	1	1	21.61	21.66	21.64	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.85	25.93	25.79	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.84	25.98	25.70	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.82	25.99	25.74	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.85	26.00	25.76	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.82	25.92	25.72	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.84	25.97	25.76	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.78	26.00	25.82	27.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	25.81	25.98	25.72	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.78	25.95	25.73	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.81	25.96	25.75	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.83	26.02	25.80	27.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		22.86			
100	PI2 BPSK	1	137		22.77		24.0	0.0
100	PI2 BPSK	1	271		22.80			0.0
100	PI2 BPSK	135	0		22.87		24.0	0.0
100	PI2 BPSK	135	69		22.66		24.0	0.0
100	PI2 BPSK	135	138		22.87		24.0	0.0
100	PI2 BPSK	270	0		22.71			0.0
100	QPSK	1	1		22.86			0.0
100	QPSK	1	137		22.76		24.0	0.0
100	QPSK	1	271		22.84			0.0
100	QPSK	135	0		22.88		24.0	0.0
100	QPSK	135	69		22.73		24.0	0.0
100	QPSK	135	138		22.87		24.0	0.0
100	QPSK	270	0		22.71			0.0
100	16QAM	1	1		22.43		24.0	0.0
100	16QAM	1	1		22.50		24.0	0.0
100	256QAM	1	1		21.82		23.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.81	22.87	22.83	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.82	22.84	22.82	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.75	22.79	22.85	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.73	22.81	22.74	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.73	22.83	22.75	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.82	22.85	22.75	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.79	22.85	22.85	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.82	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.78	22.83	22.78	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.75	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.80	22.83	22.84	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3760	3760	3760		
Frequency (MHz)								
100	PI2 BPSK	1	1	25.83				
100	PI2 BPSK	1	137	25.80			27.0	0.0
100	PI2 BPSK	1	271	25.78				
100	PI2 BPSK	135	0	25.29			28.5	0.5
100	PI2 BPSK	135	69	25.81			27.0	0.0
100	PI2 BPSK	135	138	25.35			28.5	0.5
100	PI2 BPSK	270	0	25.38				
100	QPSK	1	1	25.80				
100	QPSK	1	137	25.88			27.0	0.0
100	QPSK	1	271	25.86				
100	QPSK	135	0	24.81			28.0	1.0
100	QPSK	135	69	25.83			27.0	0.0
100	QPSK	135	138	24.78			28.0	1.0
100	QPSK	270	0	24.80				
100	16QAM	1	1	24.76			28.0	1.0
100	16QAM	1	1	23.25			24.5	2.5
100	256QAM	1	1	21.58			22.5	4.5
Channel				649688	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.84	25.88	25.86	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.87	25.82	25.87	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.81	25.88	25.85	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3730.01		
60	QPSK	1	1	25.86	25.81	25.81	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.78	25.79	25.80	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.83	25.86	25.80	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	25.79	25.89	25.80	27.0	0.0
Channel				647300	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.85	25.81	25.80	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.81	25.84	25.83	27.0	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.83	25.85	25.82	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.83	25.86	25.83	27.0	0.0



Reduced Power Mode for ECI 3

n5 Ant 0 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 166650	Middle Ch. / Freq. 167300	High Ch. / Freq. 167900		
Channel				834	838.5	839		
Frequency (MHz)				834	838.5	839		
20	PI/2 BPSK	1	1	22.50	22.84	22.55		
20	PI/2 BPSK	1	53	22.55	22.59	22.56	24.0	0.0
20	PI/2 BPSK	1	104	22.53	22.64	22.50		
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5	0.5
20	PI/2 BPSK	50	28	22.48	22.57	22.54	24.0	0.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5
20	PI/2 BPSK	100	0	22.07	22.19	22.06		
20	QPSK	1	1	22.63	22.85	22.61		
20	QPSK	1	53	22.50	22.61	22.59	24.0	0.0
20	QPSK	1	104	22.62	22.84	22.58		
20	QPSK	50	0	21.53	21.57	21.47	23.0	1.0
20	QPSK	50	28	22.54	22.57	22.48	24.0	0.0
20	QPSK	50	56	21.50	21.56	21.52	23.0	1.0
20	QPSK	100	0	21.50	21.59	21.57		
20	16QAM	1	1	21.21	21.33	21.20	23.0	1.0
20	64QAM	1	1	19.77	19.87	19.77	21.5	2.5
20	256QAM	1	1	18.41	18.47	18.44	19.5	4.5
Channel				163300	167300	169300		
Frequency (MHz)				163300	167300	169300		
15	QPSK	1	1	22.56	22.62	22.49	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				165800	167300	168800		
10	QPSK	1	1	22.53	22.63	22.61	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				165300	167300	169300		
5	QPSK	1	1	22.56	22.62	22.55	24.0	0.0

n26 Ant 0 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 164800	Middle Ch. / Freq. 166300	High Ch. / Freq. 167800		
Channel				834	831.5	839		
Frequency (MHz)				834	831.5	839		
20	PI/2 BPSK	1	1	22.90	22.91	22.89		
20	PI/2 BPSK	1	53	22.87	22.88	22.84	24.0	0.0
20	PI/2 BPSK	1	104	22.81	22.89	22.82		
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5	0.5
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0	0.0
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5
20	PI/2 BPSK	100	0	22.44	22.48	22.47		
20	QPSK	1	1	22.94	22.95	22.93		
20	QPSK	1	53	22.87	22.94	22.88	24.0	0.0
20	QPSK	1	104	22.89	22.91	22.86		
20	QPSK	50	0	21.98	21.92	21.84	23.0	1.0
20	QPSK	50	28	22.86	22.89	22.84	24.0	0.0
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0
20	QPSK	100	0	21.88	21.93	21.90		
20	16QAM	1	1	21.68	21.70	21.67	23.0	1.0
20	64QAM	1	1	20.26	20.28	20.24	21.5	2.5
20	256QAM	1	1	18.84	18.83	18.82	19.5	4.5
Channel				163300	166300	169300		
Frequency (MHz)				163300	166300	169300		
15	QPSK	1	1	22.92	22.95	22.86	24.0	0.0
Channel				163800	166300	168800		
Frequency (MHz)				163800	166300	168800		
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				163300	166300	169300		
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0



n2 Ant 1 ECI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	21.88	22.19	21.99		
40	PI2 BPSK	1	108	22.04	22.10	21.96		0.0
40	PI2 BPSK	1	214	21.99	22.04	22.05		
40	PI2 BPSK	108	0	21.86	21.71	21.70	23.3	0.0
40	PI2 BPSK	108	54	22.23	22.30	22.23	23.3	0.0
40	PI2 BPSK	108	108	22.22	22.26	22.18	23.3	0.0
40	PI2 BPSK	216	0	22.24	22.29	22.21		
40	QPSK	1	1	22.20	22.31	22.24		
40	QPSK	1	108	22.07	22.13	21.98	23.3	0.0
40	QPSK	1	214	21.97	22.18	21.95		
40	QPSK	108	0	21.77	21.79	21.74	23.0	0.3
40	QPSK	108	54	22.25	22.30	22.26	23.3	0.0
40	QPSK	108	108	21.73	21.76	21.71	23.0	0.3
40	QPSK	216	0	21.75	21.80	21.76		
40	16QAM	1	1	21.38	21.43	21.41	23.0	0.3
40	64QAM	1	1	19.94	19.98	19.96	21.5	1.8
40	256QAM	1	1	18.52	18.80	18.58	19.5	3.8
Channel								
Frequency (MHz)				37600	37600	37600	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	22.16	22.28	22.21	23.3	0.0
Channel								
Frequency (MHz)				37600	37600	379000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.08	22.20	22.20	23.3	0.0
Channel								
Frequency (MHz)				37600	37600	379000	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.13	22.28	22.18	23.3	0.0
Channel								
Frequency (MHz)				37600	37600	380000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.11	22.22	22.13	23.3	0.0
Channel								
Frequency (MHz)				37600	37600	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.11	22.20	22.21	23.3	0.0
Channel								
Frequency (MHz)				37600	37600	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.14	22.23	22.16	23.3	0.0
Channel								
Frequency (MHz)				37600	37600	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.15	22.20	22.18	23.3	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2625	2635	2645		
50	PI2 BPSK	1	1	21.41	21.55	21.38		
50	PI2 BPSK	1	135	21.33	21.31	21.38	22.6	0.0
50	PI2 BPSK	1	268	21.35	21.36	21.39		
50	PI2 BPSK	135	0	21.50	21.59	21.56	22.6	0.0
50	PI2 BPSK	135	68	21.50	21.56	21.49	22.6	0.0
50	PI2 BPSK	135	135	21.46	21.57	21.56	22.6	0.0
50	PI2 BPSK	270	0	21.50	21.54	21.52		
50	QPSK	1	1	21.61	21.66	21.59		
50	QPSK	1	135	21.41	21.43	21.37	22.6	0.0
50	QPSK	1	268	21.39	21.41	21.40		
50	QPSK	135	0	21.45	21.54	21.50	22.6	0.0
50	QPSK	135	68	21.55	21.62	21.54	22.6	0.0
50	QPSK	135	135	21.44	21.52	21.47	22.6	0.0
50	QPSK	270	0	21.60	21.65	21.63		
50	16QAM	1	1	21.08	21.14	21.11	22.6	0.0
50	64QAM	1	1	19.70	19.75	19.74	21.5	1.1
50	256QAM	1	1	18.28	18.35	18.30	19.5	3.1
Channel								
Frequency (MHz)				50900	50900	510000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.55	21.64	21.48	22.6	0.0
Channel								
Frequency (MHz)				50900	50900	510500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	21.56	21.62	21.45	22.6	0.0
Channel								
Frequency (MHz)				50900	50900	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.52	21.58	21.54	22.6	0.0
Channel								
Frequency (MHz)				50900	50900	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.58	21.59	21.49	22.6	0.0
Channel								
Frequency (MHz)				50900	50900	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	21.51	21.55	21.54	22.6	0.0
Channel								
Frequency (MHz)				50900	50900	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.59	21.65	21.48	22.6	0.0
Channel								
Frequency (MHz)				50900	50900	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.58	21.56	21.51	22.6	0.0
Channel								
Frequency (MHz)				50900	50900	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.60	21.61	21.52	22.6	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	21.61	21.72	21.68		
45	PI2 BPSK	1	120	21.57	21.67	21.55	22.9	0.0
45	PI2 BPSK	1	240	21.49	21.71	21.70		
45	PI2 BPSK	120	0	21.69	21.84	21.78	22.9	0.0
45	PI2 BPSK	120	60	21.69	21.76	21.73	22.9	0.0
45	PI2 BPSK	120	120	21.74	21.81	21.80	22.9	0.0
45	PI2 BPSK	240	0	21.71	21.80	21.77		
45	QPSK	1	1	21.75	21.86	21.78		
45	QPSK	1	120	21.63	21.69	21.61	22.9	0.0
45	QPSK	1	240	21.62	21.72	21.63		
45	QPSK	120	0	21.69	21.82	21.80	22.9	0.0
45	QPSK	120	60	21.80	21.86	21.75	22.9	0.0
45	QPSK	120	120	21.80	21.81	21.78	22.9	0.0
45	QPSK	240	0	21.80	21.85	21.82		
45	16QAM	1	1	21.44	21.50	21.48	22.9	0.0
45	64QAM	1	1	19.88	20.03	20.00	21.5	1.4
45	256QAM	1	1	18.59	18.65	18.82	19.5	3.4
Channel								
Frequency (MHz)				34650	34650	349000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.64	21.78	21.68	22.9	0.0
Channel								
Frequency (MHz)				34650	34650	349500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	21.73	21.86	21.69	22.9	0.0
Channel								
Frequency (MHz)				34650	34650	350000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.64	21.86	21.76	22.9	0.0
Channel								
Frequency (MHz)				34650	34650	350500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.71	21.79	21.76	22.9	0.0
Channel								
Frequency (MHz)				34650	34650	351000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.72	21.75	21.72	22.9	0.0
Channel								
Frequency (MHz)				34650	34650	351500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.73	21.79	21.76	22.9	0.0
Channel								
Frequency (MHz)				34650	34650	352000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.68	21.86	21.73	22.9	0.0
Channel								
Frequency (MHz)				34650	34650	352500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.68	21.80	21.74	22.9	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	18.11	18.12	18.09		
40	PI2 BPSK	1	108	18.12	18.12	18.06		0.0
40	PI2 BPSK	1	214	18.06	18.12	18.08		
40	PI2 BPSK	108	0	18.18	18.16	18.15	19.1	0.0
40	PI2 BPSK	108	54	18.06	18.14	18.11	19.1	0.0
40	PI2 BPSK	108	108	18.21	18.15	18.15	19.1	0.0
40	PI2 BPSK	216	0	18.16	18.18	18.19		
40	QPSK	1	1	18.16	18.22	18.16		
40	QPSK	1	108	18.14	18.10	18.10	19.1	0.0
40	QPSK	1	214	18.10	18.12	18.15		
40	QPSK	108	0	18.15	18.17	18.16	19.1	0.0
40	QPSK	108	54	18.15	18.20	18.18	19.1	0.0
40	QPSK	108	108	18.09	18.13	18.13	19.1	0.0
40	QPSK	216	0	18.14	18.18	18.14		
40	16QAM	1	1	18.13	18.08	18.14	19.1	0.0
40	16QAM	1	1	18.16	18.19	18.12	19.1	0.0
40	256QAM	1	1	17.87	18.03	17.89	19.1	0.0
Channel								
Frequency (MHz)				372500	373000	373500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	18.18	18.15	18.17	24.0	0.0
Channel								
Frequency (MHz)				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.10	18.14	18.10	24.0	0.0
Channel								
Frequency (MHz)				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.27	18.20	18.11	24.0	0.0
Channel								
Frequency (MHz)				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.12	18.20	18.08	24.0	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.27	18.20	18.19	19.1	0.0
Channel								
Frequency (MHz)				371000	375000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.19	18.15	18.09	19.1	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.14	18.15	18.15	19.1	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	22.63	22.67	22.61		
20	PI2 BPSK	1	53	22.58	22.65	22.60	24.0	0.0
20	PI2 BPSK	1	104	22.58	22.63	22.57		
20	PI2 BPSK	50	0	21.94	22.08	22.02	23.5	0.5
20	PI2 BPSK	50	28	22.38	22.49	22.44	24.0	0.0
20	PI2 BPSK	50	56	21.99	22.09	21.95	23.5	0.5
20	PI2 BPSK	100	0	22.08	22.10	22.06		
20	QPSK	1	1	22.64	22.68	22.62		
20	QPSK	1	53	22.64	22.66	22.60	24.0	0.0
20	QPSK	1	104	22.64	22.67	22.60		
20	QPSK	50	0	21.42	21.56	21.47	23.0	1.0
20	QPSK	50	28	22.45	22.55	22.53	24.0	0.0
20	QPSK	50	56	21.40	21.53	21.48	23.0	1.0
20	QPSK	100	0	21.52	21.55	21.52		
20	16QAM	1	1	21.33	21.43	21.35	23.0	1.0
20	16QAM	1	1	19.93	19.96	19.91	21.5	2.5
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.65	22.68	22.61	24.0	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.62	22.63	22.59	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	17.77	17.95	17.85		
50	PI2 BPSK	1	135	17.85	17.85	17.76	18.9	0.0
50	PI2 BPSK	1	268	17.71	17.85	17.81		
50	PI2 BPSK	135	0	17.89	17.92	17.89	18.9	0.0
50	PI2 BPSK	135	68	17.82	17.98	17.89	18.9	0.0
50	PI2 BPSK	135	135	17.89	17.91	17.84	18.9	0.0
50	PI2 BPSK	270	0	17.90	17.99	17.88		
50	QPSK	1	1	17.94	18.00	17.88		
50	QPSK	1	135	17.87	17.96	17.84	18.9	0.0
50	QPSK	1	268	17.75	17.98	17.81		
50	QPSK	135	0	17.87	17.88	17.85	18.9	0.0
50	QPSK	135	68	17.93	17.94	17.85	18.9	0.0
50	QPSK	135	135	17.92	17.93	17.87	18.9	0.0
50	QPSK	270	0	17.92	17.98	17.94		
50	16QAM	1	1	17.54	17.65	17.57	18.9	0.0
50	16QAM	1	1	17.61	17.71	17.70	18.9	0.0
50	256QAM	1	1	17.70	17.78	17.72	18.5	0.4
Channel								
Frequency (MHz)				50900	509500	510000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	17.88	17.96	17.88	18.9	0.0
Channel								
Frequency (MHz)				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	17.83	17.90	17.83	18.9	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.83	17.96	17.83	18.9	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	17.83	17.96	17.79	18.9	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	17.85	17.97	17.85	18.9	0.0
Channel								
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.87	17.92	17.88	18.9	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.84	17.94	17.80	18.9	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.88	17.90	17.78	18.9	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				168300	169300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	24.0	0.0
20	PI2 BPSK	1	104	22.77	22.84	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.71	22.87	24.0	0.0
20	PI2 BPSK	50	56	22.16	22.26	22.22		
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81	24.0	0.0
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	23.0	1.0
20	QPSK	50	28	22.81	22.70	22.86	24.0	0.0
20	QPSK	50	56	21.80	21.74	21.68		
20	QPSK	100	0	21.72	21.75	21.74	23.0	1.0
20	16QAM	1	1	21.48	21.53	21.49	23.0	1.0
20	64QAM	1	1	20.04	20.10	20.07	21.5	2.5
20	256QAM	1	1	18.81	18.70	18.65	19.5	4.5
Channel				168300	169300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.74	22.79	22.78	24.0	0.0
Channel				163300	166300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	345500		
Frequency (MHz)				1727.5	1745	1757.5		
45	PI2 BPSK	1	1	17.93	18.05	17.90		
45	PI2 BPSK	1	120	17.98	18.05	17.93	19.0	0.0
45	PI2 BPSK	1	240	17.97	17.87	17.85		
45	PI2 BPSK	120	0	17.86	17.92	17.91	19.0	0.0
45	PI2 BPSK	120	60	17.84	17.98	17.97	19.0	0.0
45	PI2 BPSK	120	120	17.92	17.95	17.94	19.0	0.0
45	PI2 BPSK	240	0	17.94	17.95	17.97		
45	QPSK	1	1	17.95	18.06	17.93		
45	QPSK	1	120	17.99	18.00	17.98	19.0	0.0
45	QPSK	1	240	17.88	17.94	17.99		
45	QPSK	120	0	17.96	18.00	17.95	19.0	0.0
45	QPSK	120	60	17.87	18.03	17.99	19.0	0.0
45	QPSK	120	120	17.82	17.83	17.81	19.0	0.0
45	QPSK	240	0	17.99	18.04	17.97		
45	16QAM	1	1	17.63	17.74	17.60	19.0	0.0
45	64QAM	1	1	17.67	17.74	17.74	19.0	0.0
45	256QAM	1	1	18.02	18.05	18.00	19.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	17.89	18.04	17.91	24.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
30	QPSK	1	1	17.94	17.95	17.82	24.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	17.86	18.05	17.88	19.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	17.84	17.98	17.85	19.0	0.0
Channel				344000	349000	344000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.90	18.00	17.82	19.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	17.90	18.04	17.88	19.0	0.0
Channel				343000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.94	18.02	17.91	19.0	0.0
Channel				342500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.94	18.05	17.88	19.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519394	519500	519596			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09			
40	PI/2 BPSK	50	0	20.55	20.86	20.81	21.5	0.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	50	56	20.46	20.86	20.58	21.5	0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.05	20.12	20.05	21.0	1.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	80	56	20.04	20.14	20.14	21.0	1.0	
40	QPSK	100	0	20.08	20.13	20.10			
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0	
40	16QAM	1	1	18.07	18.10	18.07	19.5	2.5	
40	256QAM	1	1	18.76	18.82	18.71	17.5	4.5	
Channel				517002	516900	520398	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.91	2585	2604.99	22.0	0.0	
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	22.0	0.0	
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	22.0	0.0	
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	22.0	0.0	
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	22.0	0.0	
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

n41 Ant 0 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526202	518598	526200			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72	21.5	0.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.85			
100	QPSK	1	1	21.16	21.28	21.22			
100	QPSK	1	137	21.15	21.27	21.14	22.0	0.0	
100	QPSK	1	271	21.17	21.26	21.21			
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0	
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0	
100	QPSK	135	138	20.19	20.22	20.21	21.0	1.0	
100	QPSK	270	0	20.22	20.29	20.25			
100	16QAM	1	1	19.88	19.74	19.71	21.0	1.0	
100	16QAM	1	1	18.21	18.27	18.24	19.5	2.5	
100	256QAM	1	1	18.87	18.91	18.88	17.5	4.5	
Channel				506300	518598	526398	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0	
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0	
Channel				507204	518598	529898	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99	22.0	0.0	
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	22.0	0.0	
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.99	22.0	0.0	
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	0.0	
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0	
Channel				503200	518598	533498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.05	2592.99	2667.48	22.0	0.0	
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510.01	2592.99	2670	22.0	0.0	
40	QPSK	1	1	21.15	21.21	21.20	22.0	0.0	
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	22.0	0.0	
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	22.0	0.0	
30	QPSK	1	1	21.15	21.24	21.14	22.0	0.0	
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	22.0	0.0	
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0	
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.05	2592.99	2682.48	22.0	0.0	
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	22.0	0.0	
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0	



n38 Ant 1 ECI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519500	519596		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	21.58	21.60	21.52		
40	PI/2 BPSK	1	53	21.55	21.60	21.64	23.1	0.0
40	PI/2 BPSK	1	104	21.42	21.57	21.54		
40	PI/2 BPSK	50	0	21.70	21.71	21.68	23.1	0.0
40	PI/2 BPSK	50	28	21.56	21.58	21.56	23.1	0.0
40	PI/2 BPSK	50	56	21.58	21.74	21.67	23.1	0.0
40	PI/2 BPSK	100	0	21.64	21.70	21.68		
40	QPSK	1	1	21.58	21.75	21.56		
40	QPSK	1	53	21.47	21.62	21.54	23.1	0.0
40	QPSK	1	104	21.47	21.58	21.53		
40	QPSK	50	0	21.58	21.70	21.66	23.0	0.1
40	QPSK	50	28	21.60	21.72	21.62	23.1	0.0
40	QPSK	80	56	21.65	21.67	21.59	23.0	0.1
40	QPSK	100	0	21.60	21.68	21.65		
40	16QAM	1	1	21.27	21.32	21.29	23.0	0.1
40	16QAM	1	1	19.81	19.89	19.88	21.5	1.6
40	256QAM	1	1	18.46	18.53	18.50	19.5	3.6
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.52	21.72	21.54	23.1	0.0
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	21.54	21.65	21.52	23.1	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	21.55	21.68	21.47	23.1	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.58	21.72	21.50	23.1	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.47	21.72	21.54	23.1	0.0

n41 Ant 1 ECI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526202	518598	526200		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.50	21.78	21.61		
100	PI/2 BPSK	1	137	21.56	21.76	21.54	23.1	0.0
100	PI/2 BPSK	1	271	21.55	21.73	21.53		
100	PI/2 BPSK	135	0	21.54	21.85	21.63	23.1	0.0
100	PI/2 BPSK	135	69	21.48	21.78	21.48	23.1	0.0
100	PI/2 BPSK	135	138	21.58	21.86	21.58	23.1	0.0
100	PI/2 BPSK	270	0	21.60	21.88	21.54		
100	QPSK	1	1	21.67	21.91	21.66		
100	QPSK	1	137	21.60	21.83	21.55	23.1	0.0
100	QPSK	1	271	21.48	21.85	21.54		
100	QPSK	135	0	21.61	21.62	21.54	23.0	0.1
100	QPSK	135	69	21.67	21.88	21.62	23.1	0.0
100	QPSK	135	138	21.58	21.84	21.58	23.0	0.1
100	QPSK	270	0	21.65	21.87	21.57		
100	16QAM	1	1	21.33	21.41	21.35	23.0	0.1
100	16QAM	1	1	19.82	19.93	19.88	21.5	1.6
100	256QAM	1	1	18.50	18.59	18.51	19.5	3.6
Channel				526200	518598	526198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	21.58	21.80	21.54	23.1	0.0
Channel				507204	518598	529898	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	21.60	21.84	21.57	23.1	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.67	21.86	21.60	23.1	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	21.66	21.83	21.58	23.1	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.59	21.85	21.68	23.1	0.0
Channel				503200	518598	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.05	2592.99	2669.49		
45	QPSK	1	1	21.62	21.86	21.84	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	21.55	21.69	21.54	23.1	0.0
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	21.66	21.85	21.59	24.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.64	21.79	21.62	23.1	0.0
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	21.62	21.83	21.58	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.59	21.80	21.58	23.1	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	21.63	21.83	21.55	23.1	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	21.63	21.88	21.66	23.1	0.0



n38 Ant 2 ECI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519394	519900	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	18.88	18.95	18.76		
40	PI2 BPSK	1	53	18.94	18.89	18.71	20.0	0.0
40	PI2 BPSK	1	104	18.80	19.04	18.74		
40	PI2 BPSK	50	0	18.32	18.33	18.23	19.5	0.5
40	PI2 BPSK	50	28	18.66	18.84	18.69	20.0	0.0
40	PI2 BPSK	50	56	18.20	18.39	18.27	19.5	0.5
40	PI2 BPSK	100	0	18.27	18.33	18.25		
40	QPSK	1	1	18.92	19.09	18.90		
40	QPSK	1	53	18.93	18.99	18.72	20.0	0.0
40	QPSK	1	104	18.84	19.07	18.74		
40	QPSK	50	0	17.73	17.91	17.84	19.0	1.0
40	QPSK	50	28	18.82	18.83	18.73	20.0	0.0
40	QPSK	80	56	17.78	17.82	17.70	19.0	1.0
40	QPSK	100	0	17.84	17.97	17.84		
40	16QAM	1	1	17.78	17.78	17.70	19.0	1.0
40	16QAM	1	1	18.29	18.28	18.23	17.5	2.5
40	256QAM	1	1	14.85	14.99	14.78	15.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.81	18.97	18.78	20.0	0.0
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	18.93	18.99	18.74	20.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.92	19.00	18.74	20.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	18.90	19.01	18.80	20.0	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.88	18.94	18.73	20.0	0.0

n41 Ant 2 ECI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				529202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.98	18.12	18.89		
100	PI2 BPSK	1	137	18.03	19.06	18.86	20.0	0.0
100	PI2 BPSK	1	271	18.92	19.11	18.90		
100	PI2 BPSK	135	0	18.40	18.47	18.33	19.5	0.5
100	PI2 BPSK	135	69	18.84	18.92	18.79	20.0	0.0
100	PI2 BPSK	135	138	18.36	18.49	18.37	19.5	0.5
100	PI2 BPSK	270	0	18.37	18.46	18.35		
100	QPSK	1	1	19.00	19.15	18.90		
100	QPSK	1	137	19.00	19.13	18.85	20.0	0.0
100	QPSK	1	271	18.99	19.13	18.89		
100	QPSK	135	0	17.87	18.00	17.75	19.0	1.0
100	QPSK	135	69	18.92	18.98	18.81	20.0	0.0
100	QPSK	135	138	17.94	17.85	17.83	19.0	1.0
100	QPSK	270	0	18.00	18.08	18.01		
100	16QAM	1	1	17.91	17.95	17.86	19.0	1.0
100	16QAM	1	1	18.44	18.46	18.40	17.5	2.5
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.5
Channel				529200	518998	529198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	18.98	19.08	18.91	20.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	18.93	19.11	18.17	20.0	0.0
Channel				530202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2685		
70	QPSK	1	1	18.96	19.08	18.92	20.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2679.99		
60	QPSK	1	1	19.00	19.06	18.85	20.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2684.99		
50	QPSK	1	1	18.96	19.08	18.89	20.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2687.48		
45	QPSK	1	1	18.98	19.05	18.81	20.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	18.95	19.14	18.83	20.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	18.90	19.06	18.84	20.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.92	19.10	18.84	20.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	18.95	19.11	18.80	20.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.95	19.14	18.85	20.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	18.95	19.09	18.91	20.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.93	19.09	18.89	20.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	19.40	19.48	19.16		
100	Pl2 BPSK	1	137	19.44	19.52	19.13	20.4	0.0
100	Pl2 BPSK	1	271	19.48	19.51	19.11		
100	Pl2 BPSK	135	0	19.35	19.47	19.39	20.4	0.0
100	Pl2 BPSK	135	69	19.37	19.41	19.30	20.4	0.0
100	Pl2 BPSK	135	138	19.37	19.50	19.44	20.4	0.0
100	Pl2 BPSK	270	0	19.39	19.40	19.38		
100	QPSK	1	1	19.58	19.59	19.18		
100	QPSK	1	137	19.39	19.47	19.09	20.4	0.0
100	QPSK	1	271	19.51	19.44	19.14		
100	QPSK	135	0	19.42	19.45	19.44	20.4	0.0
100	QPSK	135	69	19.40	19.48	19.39	20.4	0.0
100	QPSK	135	138	19.43	19.41	19.37		
100	QPSK	270	0	19.40	19.45	19.41	20.4	0.0
100	16QAM	1	1	19.15	19.31	19.27	20.4	0.0
100	64QAM	1	1	19.30	19.38	19.30	20.4	0.0
100	256QAM	1	1	19.32	19.38	19.36	20.4	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.45	19.58	19.14	20.4	0.0
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.40	19.47	19.07	20.4	0.0
Channel								
Frequency (MHz)				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.47	19.50	19.18	20.4	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.45	19.48	19.08	20.4	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.50	19.57	19.11	20.4	0.0
Channel								
Frequency (MHz)				648000	650000	653000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.48	19.57	19.09	20.4	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.54	19.53	19.16	20.4	0.0
Channel								
Frequency (MHz)				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	19.51	19.58	19.09	20.4	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.51	19.55	19.15	20.4	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.50	19.52	19.10	20.4	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.48	19.55	19.11	20.4	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3760	3760		
100	Pl2 BPSK	1	1	19.37	19.43			
100	Pl2 BPSK	1	137	19.41			20.4	0.0
100	Pl2 BPSK	1	271	19.43				
100	Pl2 BPSK	135	0	19.32			20.4	0.0
100	Pl2 BPSK	135	69	19.35			20.4	0.0
100	Pl2 BPSK	135	138	19.37			20.4	0.0
100	Pl2 BPSK	270	0	19.30				
100	QPSK	1	1	19.44				
100	QPSK	1	137	19.38			20.4	0.0
100	QPSK	1	271	19.35				
100	QPSK	135	0	19.34			20.4	0.0
100	QPSK	135	69	19.41			20.4	0.0
100	QPSK	135	138	19.34			20.4	0.0
100	QPSK	270	0	19.35			20.4	0.0
100	16QAM	1	1	19.15			20.4	0.0
100	64QAM	1	1	19.20			20.4	0.0
100	256QAM	1	1	19.26			20.4	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.31	19.40	19.33	20.4	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.23	19.43	19.39	20.4	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.30	19.40	19.39	20.4	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.27	19.39	19.34	20.4	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.37	19.40	19.32	20.4	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.27	19.34	19.33	20.4	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.23	19.40	19.41	20.4	0.0
Channel								
Frequency (MHz)				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	19.31	19.40	19.41	20.4	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.30	19.39	19.33	20.4	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.38	19.38	19.42	20.4	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.39	19.33	19.30	20.4	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519300	519396		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	17.58	17.73	17.84		
40	Pl/2 BPSK	1	53	17.53	17.63	17.59	18.9	0.0
40	Pl/2 BPSK	1	104	17.57	17.61	17.50		
40	Pl/2 BPSK	50	0	17.57	17.76	17.72	18.9	0.0
40	Pl/2 BPSK	50	28	17.55	17.70	17.61	18.9	0.0
40	Pl/2 BPSK	50	56	17.59	17.69	17.60	18.9	0.0
40	Pl/2 BPSK	100	0	17.58	17.72	17.61		
40	QPSK	1	1	17.62	17.78	17.67		
40	QPSK	1	53	17.55	17.63	17.58	18.9	0.0
40	QPSK	1	104	17.65	17.61	17.60		
40	QPSK	50	0	17.60	17.70	17.63	18.9	0.0
40	QPSK	50	28	17.71	17.73	17.70	18.9	0.0
40	QPSK	50	56	17.58	17.71	17.67	18.9	0.0
40	QPSK	100	0	17.75	17.78	17.76		
40	16QAM	1	1	17.58	17.66	17.59	18.9	0.0
40	16QAM	1	1	17.70	17.72	17.71	18.9	0.0
40	256QAM	1	1	17.45	17.52	17.44	18.9	0.0
Channel				517002	516900	520398	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.91	2595	2604.99		
30	QPSK	1	1	17.55	17.68	17.60	18.9	0.0
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	17.62	17.70	17.65	18.9	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	17.54	17.69	17.66	18.9	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	17.59	17.73	17.63	18.9	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	17.51	17.69	17.56	18.9	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				529202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	17.71	17.80	17.60		
100	Pl/2 BPSK	1	137	17.65	17.74	17.55	18.9	0.0
100	Pl/2 BPSK	1	271	17.67	17.67	17.62		
100	Pl/2 BPSK	135	0	17.77	17.85	17.67	18.9	0.0
100	Pl/2 BPSK	135	69	17.74	17.82	17.75	18.9	0.0
100	Pl/2 BPSK	135	138	17.78	17.81	17.72	18.9	0.0
100	Pl/2 BPSK	270	0	17.79	17.89	17.76		
100	QPSK	1	1	17.81	17.94	17.86		
100	QPSK	1	137	17.74	17.85	17.78	18.9	0.0
100	QPSK	1	271	17.73	17.88	17.71		
100	QPSK	135	0	17.74	17.77	17.71	18.9	0.0
100	QPSK	135	69	17.84	17.89	17.79	18.9	0.0
100	QPSK	270	0	17.74	17.78	17.83		
100	QPSK	270	0	17.80	17.87	17.73	18.9	0.0
100	16QAM	1	1	17.69	17.71	17.73	18.9	0.0
100	16QAM	1	1	17.90	17.91	17.85	18.9	0.0
100	256QAM	1	1	17.59	17.67	17.62	18.9	0.0
Channel				529200	518998	529198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.59	17.83	17.84	18.9	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.62	2592.99	2648.99		
80	QPSK	1	1	17.65	17.80	17.67	18.9	0.0
Channel				529202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2665		
70	QPSK	1	1	17.65	17.87	17.65	18.9	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	17.60	17.89	17.57	18.9	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.62	2592.99	2664.99		
50	QPSK	1	1	17.55	17.84	17.61	18.9	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2667.48		
45	QPSK	1	1	17.63	17.83	17.58	18.9	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	17.65	17.81	17.64	18.9	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	17.57	17.86	17.62	18.9	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.63	17.92	17.63	18.9	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	17.55	17.82	17.59	18.9	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.59	17.83	17.66	18.9	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	17.55	17.83	17.62	18.9	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.60	17.92	17.62	18.9	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				652000	655000	658000			
Frequency (MHz)									
100	Pl/2 BPSK	1	1	19.37	19.34	19.32			
100	Pl/2 BPSK	1	137	19.33	19.39	19.34	20.4	0.0	
100	Pl/2 BPSK	1	271	19.37	19.37	19.28			
100	Pl/2 BPSK	135	0	19.38	19.41	19.37	20.4	0.0	
100	Pl/2 BPSK	135	69	19.25	19.29	19.29	20.4	0.0	
100	Pl/2 BPSK	135	138	19.31	19.40	19.36	20.4	0.0	
100	Pl/2 BPSK	270	0	19.34	19.38	19.37			
100	QPSK	1	1	19.37	19.44	19.39			
100	QPSK	1	137	19.34	19.33	19.30	20.4	0.0	
100	QPSK	1	271	19.30	19.34	19.32			
100	QPSK	135	0	19.28	19.30	19.29	20.4	0.0	
100	QPSK	135	69	19.24	19.31	19.29	20.4	0.0	
100	QPSK	135	138	19.30	19.30	19.23			
100	QPSK	270	0	19.34	19.42	19.40	20.4	0.0	
100	16QAM	1	1	19.32	19.38	19.28	20.4	0.0	
100	64QAM	1	1	19.33	19.34	19.37	20.4	0.0	
100	256QAM	1	1	17.93	17.51	17.89	19.5	0.9	
Channel									
Frequency (MHz)				648968	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Channel				3745.02	3840	3935.01	20.4	0.0	
90	QPSK	1	1	19.38	19.38	19.30	20.4	0.0	
Channel									
Frequency (MHz)				649334	656000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel				3740.01	3840	3940.02	20.4	0.0	
80	QPSK	1	1	19.29	19.34	19.34	20.4	0.0	
Channel									
Frequency (MHz)				649000	655000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel				3735	3840	3945	20.4	0.0	
70	QPSK	1	1	19.39	19.37	19.31	20.4	0.0	
Channel									
Frequency (MHz)				648668	655000	653334	Tune-up limit (dBm)	MPR (dB)	
Channel				3730.02	3840	3930.03	20.4	0.0	
60	QPSK	1	1	19.31	19.40	19.38	20.4	0.0	
Channel									
Frequency (MHz)				648334	656000	653668	Tune-up limit (dBm)	MPR (dB)	
Channel				3725.01	3840	3935.02	20.4	0.0	
50	QPSK	1	1	19.30	19.35	19.35	20.4	0.0	
Channel									
Frequency (MHz)				647668	656000	654334	Tune-up limit (dBm)	MPR (dB)	
Channel				3720	3840	3960	20.4	0.0	
40	QPSK	1	1	19.34	19.39	19.35	20.4	0.0	
Channel									
Frequency (MHz)				647668	656000	654334	Tune-up limit (dBm)	MPR (dB)	
Channel				3715.02	3840	3935.01	20.4	0.0	
30	QPSK	1	1	19.22	19.34	19.32	20.4	0.0	
Channel									
Frequency (MHz)				647500	656000	654500	Tune-up limit (dBm)	MPR (dB)	
Channel				3712.5	3840	3967.5	20.4	0.0	
25	QPSK	1	1	19.29	19.40	19.34	20.4	0.0	
Channel									
Frequency (MHz)				647334	656000	654668	Tune-up limit (dBm)	MPR (dB)	
Channel				3710.01	3840	3930.02	20.4	0.0	
20	QPSK	1	1	19.38	19.40	19.38	20.4	0.0	
Channel									
Frequency (MHz)				647168	656000	654834	Tune-up limit (dBm)	MPR (dB)	
Channel				3707.52	3840	3972.51	20.4	0.0	
15	QPSK	1	1	19.32	19.33	19.35	20.4	0.0	
Channel									
Frequency (MHz)				647000	656000	655000	Tune-up limit (dBm)	MPR (dB)	
Channel				3705	3840	3975	20.4	0.0	
10	QPSK	1	1	19.30	19.33	19.29	20.4	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				652000	655000	658000			
Frequency (MHz)									
100	Pl/2 BPSK	1	1	19.37	19.34	19.32			
100	Pl/2 BPSK	1	137	19.33	19.39	19.34	20.4	0.0	
100	Pl/2 BPSK	1	271	19.37	19.37	19.28			
100	Pl/2 BPSK	135	0	19.38	19.41	19.37	20.4	0.0	
100	Pl/2 BPSK	135	69	19.25	19.29	19.29	20.4	0.0	
100	Pl/2 BPSK	135	138	19.31	19.40	19.36	20.4	0.0	
100	Pl/2 BPSK	270	0	19.34	19.38	19.37			
100	QPSK	1	1	19.37	19.44	19.39			
100	QPSK	1	137	19.34	19.33	19.30	20.4	0.0	
100	QPSK	1	271	19.30	19.34	19.32			
100	QPSK	135	0	19.28	19.30	19.29	20.4	0.0	
100	QPSK	135	69	19.24	19.31	19.29	20.4	0.0	
100	QPSK	135	138	19.30	19.30	19.23			
100	QPSK	270	0	19.34	19.42	19.40	20.4	0.0	
100	16QAM	1	1	19.32	19.38	19.28	20.4	0.0	
100	64QAM	1	1	19.33	19.34	19.37	20.4	0.0	
100	256QAM	1	1	17.93	17.51	17.89	19.5	0.9	
Channel									
Frequency (MHz)				648968	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Channel				3745.02	3760	3765.01	20.4	0.0	
90	QPSK	1	1	19.20	19.28	19.16	20.4	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel				3740.01	3760	3760.02	20.4	0.0	
80	QPSK	1	1	19.15	19.20	19.14	20.4	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel				3735	3760	3765	20.4	0.0	
70	QPSK	1	1	19.16	19.27	19.18	20.4	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel				3730.02	3760	3730.01	20.4	0.0	
60	QPSK	1	1	19.13	19.34	19.18	20.4	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Channel				3725.01	3760	3775.02	20.4	0.0	
50	QPSK	1	1	19.13	19.30	19.15	20.4	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Channel				3720	3760	3780	20.4	0.0	
40	QPSK	1	1	19.11	19.35	19.22	20.4	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel				3715.02	3760	3725.01	20.4	0.0	
30	QPSK	1	1	19.12	19.35	19.22	20.4	0.0	
Channel									
Frequency (MHz)				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Channel				3712.5	3760	3787.5	20.4	0.0	
25	QPSK	1	1	19.11	19.34	19.21	20.4	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel				3710.01	3760	3730.02	20.4	0.0	
20	QPSK	1	1	19.18	19.32	19.18	20.4	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Channel				3707.52	3760	3792.51	20.4	0.0	
15	QPSK	1	1	19.22	19.29	19.24	20.4	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel				3705	3760	3795	20.4	0.0	
10	QPSK	1	1	19.10	19.29	19.21	20.4	0.0	



Part270 n77 PC3&PC2 Ant 7 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	18.54	18.45	18.55			
100	PI/2 BPSK	1	137	18.44	18.41	18.49	19.8	0.0	
100	PI/2 BPSK	1	271	18.52	18.61	18.61			
100	PI/2 BPSK	135	0	18.55	18.66	18.49	19.8	0.0	
100	PI/2 BPSK	135	69	18.36	18.41	18.50	19.8	0.0	
100	PI/2 BPSK	135	138	18.63	18.67	18.63	19.8	0.0	
100	PI/2 BPSK	270	0	18.56	18.67	18.49			
100	QPSK	1	1	18.62	18.74	18.54			
100	QPSK	1	137	18.56	18.49	18.48	19.8	0.0	
100	QPSK	1	271	18.64	18.55	18.52			
100	QPSK	135	0	18.52	18.63	18.59	19.8	0.0	
100	QPSK	135	69	18.68	18.72	18.64	19.8	0.0	
100	QPSK	135	138	18.53	18.66	18.44	19.8	0.0	
100	QPSK	270	0	18.64	18.70	18.54			
100	16QAM	1	1	18.53	18.61	18.37	19.8	0.0	
100	16QAM	1	1	18.61	18.70	18.48	19.8	0.0	
100	256QAM	1	1	18.14	18.09	18.16	19.5	0.3	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.58	18.68	18.62	19.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.53	18.72	18.51	19.8	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.59	18.69	18.63	19.8	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.52	18.69	18.63	19.8	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.60	18.65	18.53	19.8	0.0	
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.50	18.67	18.56	19.8	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.55	18.73	18.54	19.8	0.0	
Channel				647300	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.54	18.71	18.57	19.8	0.0	
Channel				647000	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.59	18.73	18.64	19.8	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.52	18.72	18.62	19.8	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.53	18.69	18.53	19.8	0.0	

Part270 n78 PC3&PC2 Ant 7 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3760	3760			
100	PI/2 BPSK	1	1		18.42				
100	PI/2 BPSK	1	137		18.43		19.8	0.0	
100	PI/2 BPSK	1	271		18.46				
100	PI/2 BPSK	135	0		18.62		19.8	0.0	
100	PI/2 BPSK	135	69		18.46		19.8	0.0	
100	PI/2 BPSK	135	138		18.56		19.8	0.0	
100	PI/2 BPSK	270	0		18.49				
100	QPSK	1	1		18.64				
100	QPSK	1	137		18.38		19.8	0.0	
100	QPSK	1	271		18.46				
100	QPSK	135	0		18.52		19.8	0.0	
100	QPSK	135	69		18.55		19.8	0.0	
100	QPSK	135	138		18.38		19.8	0.0	
100	QPSK	270	0		18.57				
100	16QAM	1	1		18.55		19.8	0.0	
100	16QAM	1	1		18.52		19.8	0.0	
100	256QAM	1	1		18.02		19.5	0.3	
Channel				64968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	18.37	18.46	18.40	19.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	18.32	18.41	18.45	19.8	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	18.35	18.46	18.42	19.8	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	18.30	18.40	18.42	19.8	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	18.34	18.42	18.40	19.8	0.0	
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	18.31	18.40	18.40	19.8	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	18.33	18.37	18.34	19.8	0.0	
Channel				647300	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	18.32	18.45	18.46	19.8	0.0	
Channel				647000	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	18.35	18.42	18.41	19.8	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	18.32	18.37	18.36	19.8	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	18.32	18.49	18.45	19.8	0.0	



Part270 n77 PC3&PC2 Ant 9 EC13

BW (MHz)	Modulation	RB 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	PI/2 BPSK	1	1	3750	3840	3930		
100	PI/2 BPSK	1	1	21.89	21.99	21.72		
100	PI/2 BPSK	1	137	21.83	21.87	21.73	23.1	0.0
100	PI/2 BPSK	1	271	21.84	21.78	21.71		
100	PI/2 BPSK	135	0	21.88	21.91	21.83	23.1	0.0
100	PI/2 BPSK	135	69	21.82	21.87	21.83	23.1	0.0
100	PI/2 BPSK	135	138	21.74	21.88	21.81	23.1	0.0
100	PI/2 BPSK	270	0	21.86	21.85	21.82		
100	QPSK	1	1	21.88	22.10	21.84		
100	QPSK	1	137	21.82	21.88	21.77	23.1	0.0
100	QPSK	1	271	21.78	21.79	21.74		
100	QPSK	135	0	21.76	21.84	21.84	23.1	0.0
100	QPSK	135	69	21.78	21.82	21.79	23.1	0.0
100	QPSK	135	138	21.82	21.91	21.79	23.1	0.0
100	QPSK	270	0	21.82	21.85	21.74		
100	16QAM	1	1	21.72	21.77	21.82	23.1	0.0
100	64QAM	1	1	21.82	21.85	21.83	23.1	0.0
100	256QAM	1	1	21.81	21.88	21.84	22.5	0.6
Channel								
Frequency (MHz)								
90	QPSK	1	1	64934	65900	65268	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.85	22.00	21.81	23.1	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64934	65000	65268	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.87	21.99	21.74	23.1	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	64900	65000	65300	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3840	3945		
70	QPSK	1	1	21.81	22.08	21.83	23.1	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	64868	65000	65334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.82	21.90	21.82	23.1	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	64834	65000	65368	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3745.02	3840	3955.01		
50	QPSK	1	1	21.85	22.09	21.74	23.1	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64768	65000	65434	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3729	3840	3960		
40	QPSK	1	1	21.77	22.04	21.78	23.1	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64700	65000	65500	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3975.01		
30	QPSK	1	1	21.77	22.03	21.83	23.1	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	64700	65000	65500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3712.5	3840	3987.5		
25	QPSK	1	1	21.78	21.99	21.76	23.1	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64734	65000	65688	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3840	3991.02		
20	QPSK	1	1	21.80	22.08	21.80	23.1	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	64718	65000	65834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3707.52	3840	3972.51		
15	QPSK	1	1	21.79	22.08	21.80	23.1	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	64700	65000	65900	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3705	3840	3975		
10	QPSK	1	1	21.78	22.04	21.83	23.1	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	3750	3760	3760		
100	PI/2 BPSK	1	1	21.85				
100	PI/2 BPSK	1	137	21.81			23.1	0.0
100	PI/2 BPSK	1	271	21.82				
100	PI/2 BPSK	135	0	21.80			23.1	0.0
100	PI/2 BPSK	135	69	21.84			23.1	0.0
100	PI/2 BPSK	135	138	21.88			23.1	0.0
100	PI/2 BPSK	270	0	21.87				
100	QPSK	1	1	21.82				
100	QPSK	1	137	21.85			23.1	0.0
100	QPSK	1	271	21.80				
100	QPSK	135	0	21.81			23.1	0.0
100	QPSK	135	69	21.83			23.1	0.0
100	QPSK	135	138	21.73			23.1	0.0
100	QPSK	270	0	21.84				
100	16QAM	1	1	21.81			23.1	0.0
100	64QAM	1	1	21.78			23.1	0.0
100	256QAM	1	1	21.58			22.5	0.6
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745.02	3760	3765.01		
90	QPSK	1	1	21.85	21.82	21.88	23.1	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.82	21.90	21.82	23.1	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3760	3785		
70	QPSK	1	1	21.85	21.87	21.83	23.1	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.69	3760	3770.01		
60	QPSK	1	1	21.89	21.91	21.84	23.1	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3725.01	3760	3775.02		
50	QPSK	1	1	21.85	21.83	21.81	23.1	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3760	3780		
40	QPSK	1	1	21.81	21.91	21.82	23.1	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3760	3785.01		
30	QPSK	1	1	21.81	21.85	21.82	23.1	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	64700	65000	65500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3712.5	3760	3787.5		
25	QPSK	1	1	21.79	21.90	21.89	23.1	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64734	65000	65688	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3760	3791.02		
20	QPSK	1	1	21.88	21.88	21.90	23.1	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	64718	65000	65834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3707.52	3760	3792.51		
15	QPSK	1	1	21.84	21.89	21.90	23.1	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	64700	65000	65900	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3705	3760	3795		
10	QPSK	1	1	21.82	21.83	21.86	23.1	0.0



Reduced Power Mode for ECI 4

n5 Ant 0 ECI4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				166800	167300	167800	
Frequency (MHz)				834	838.5	839	
20	PI/2 BPSK	1	1	22.50	22.64	22.55	
20	PI/2 BPSK	1	53	22.55	22.59	22.56	24.0
20	PI/2 BPSK	1	104	22.53	22.64	22.50	
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5
20	PI/2 BPSK	50	28	22.46	22.57	22.54	24.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	
20	PI/2 BPSK	100	0	22.07	22.19	22.06	23.5
20	QPSK	1	1	22.63	22.65	22.61	
20	QPSK	1	53	22.50	22.61	22.59	24.0
20	QPSK	1	104	22.62	22.64	22.58	
20	QPSK	50	0	21.53	21.57	21.47	23.0
20	QPSK	50	28	22.54	22.57	22.48	24.0
20	QPSK	50	56	21.50	21.56	21.52	
20	QPSK	100	0	21.50	21.59	21.57	23.0
20	16QAM	1	1	21.21	21.33	21.20	23.0
20	64QAM	1	1	19.77	19.87	19.77	21.5
20	256QAM	1	1	18.41	18.47	18.44	19.5
Channel				169300	167300	168300	
Frequency (MHz)				831.5	838.5	841.5	
15	QPSK	1	1	22.56	22.62	22.49	24.0
Channel				163800	167300	166800	
Frequency (MHz)				829	838.5	844	
10	QPSK	1	1	22.53	22.63	22.61	24.0
Channel				165300	167300	166300	
Frequency (MHz)				826.5	838.5	846.5	
5	QPSK	1	1	22.56	22.62	22.55	24.0

n26 Ant 0 ECI4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	22.90	22.91	22.89	
20	PI/2 BPSK	1	53	22.97	22.88	22.94	24.0
20	PI/2 BPSK	1	104	22.81	22.88	22.82	
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0
20	PI/2 BPSK	50	56	22.42	22.46	22.43	
20	PI/2 BPSK	100	0	22.44	22.48	22.47	23.5
20	QPSK	1	1	22.94	22.95	22.93	
20	QPSK	1	53	22.87	22.94	22.88	24.0
20	QPSK	1	104	22.89	22.91	22.86	
20	QPSK	50	0	21.98	21.92	21.94	23.0
20	QPSK	50	28	22.85	22.89	22.84	24.0
20	QPSK	50	56	21.90	21.86	21.91	
20	QPSK	100	0	21.88	21.93	21.90	23.0
20	16QAM	1	1	21.68	21.70	21.67	23.0
20	64QAM	1	1	20.26	20.28	20.24	21.5
20	256QAM	1	1	18.84	18.89	18.82	19.5
Channel				164300	166300	165300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	22.82	22.95	22.86	24.0
Channel				163800	166300	166800	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	22.93	22.94	22.87	24.0
Channel				163300	166300	166300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.91	22.94	22.88	24.0



n2 Ant 1 EC14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	22.43	22.64	22.49				
40	PI2 BPSK	1	108	22.54	22.59	22.49	24.0	0.0		
40	PI2 BPSK	1	214	22.46	22.57	22.51				
40	PI2 BPSK	108	0	21.66	21.71	21.70	23.5	0.5		
40	PI2 BPSK	108	54	22.73	22.75	22.70	24.0	0.0		
40	PI2 BPSK	108	108	22.22	22.26	22.18	23.5	0.5		
40	PI2 BPSK	216	0	22.24	22.28	22.21				
40	QPSK	1	1	22.72	22.78	22.75				
40	QPSK	1	108	22.55	22.64	22.51	24.0	0.0		
40	QPSK	1	214	22.44	22.66	22.49				
40	QPSK	108	0	21.77	21.79	21.74	23.0	1.0		
40	QPSK	108	54	22.72	22.77	22.74	24.0	0.0		
40	QPSK	108	108	21.73	21.76	21.71	23.0	1.0		
40	QPSK	216	0	21.75	21.80	21.76				
40	16QAM	1	1	21.38	21.43	21.41	23.0	1.0		
40	64QAM	1	1	19.94	19.98	19.96	21.5	2.5		
40	256QAM	1	1	18.52	18.80	18.58	19.5	4.5		
Channel										
Frequency (MHz)										
				376500	376000	376500	Tune-up limit (dBm)	MPR (dB)		
35	QPSK	1	1	22.68	22.65	22.63	24.0	0.0		
Channel										
Frequency (MHz)										
				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.59	22.67	22.62	24.0	0.0		
Channel										
Frequency (MHz)										
				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	22.48	22.61	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	22.46	22.63	22.46	24.0	0.0		
Channel										
Frequency (MHz)										
				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	22.48	22.60	22.47	24.0	0.0		
Channel										
Frequency (MHz)										
				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	22.52	22.62	22.54	24.0	0.0		
Channel										
Frequency (MHz)										
				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	22.54	22.62	22.47	24.0	0.0		

n7 Ant 1 EC14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	22.35	22.47	22.36				
50	PI2 BPSK	1	135	22.29	22.31	22.28	24.0	0.0		
50	PI2 BPSK	1	268	22.26	22.36	22.34				
50	PI2 BPSK	135	0	21.95	22.06	22.04	23.5	0.5		
50	PI2 BPSK	135	68	22.45	22.53	22.48	24.0	0.0		
50	PI2 BPSK	135	135	21.95	22.05	21.97	23.5	0.5		
50	PI2 BPSK	270	0	22.00	22.04	22.01				
50	QPSK	1	1	22.54	22.58	22.57				
50	QPSK	1	135	22.32	22.37	22.32	24.0	0.0		
50	QPSK	1	268	22.35	22.36	22.34				
50	QPSK	135	0	21.45	21.58	21.50	23.0	1.0		
50	QPSK	135	68	22.49	22.55	22.52	24.0	0.0		
50	QPSK	135	135	21.44	21.57	21.47	23.0	1.0		
50	QPSK	270	0	21.80	21.85	21.83				
50	16QAM	1	1	21.08	21.14	21.11	23.0	1.0		
50	64QAM	1	1	19.70	19.75	19.74	21.5	2.5		
50	256QAM	1	1	18.28	18.35	18.30	19.5	4.5		
Channel										
Frequency (MHz)										
				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	22.48	22.51	22.48	24.0	0.0		
Channel										
Frequency (MHz)										
				501500	507000	510500	Tune-up limit (dBm)	MPR (dB)		
35	QPSK	1	1	22.50	22.47	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.46	22.53	22.47	24.0	0.0		
Channel										
Frequency (MHz)										
				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	22.47	22.51	22.51	24.0	0.0		
Channel										
Frequency (MHz)										
				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
20	PI2 BPSK	1	1	22.40	22.51	22.47	24.0	0.0		
Channel										
Frequency (MHz)										
				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	22.41	22.54	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	22.47	22.48	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	22.51	22.52	22.47	24.0	0.0		

n66 Ant 1 EC14										
BW (MHz)	Modulation	RB 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	22.61	22.71	22.72				
45	PI2 BPSK	1	120	22.60	22.62	22.61	24.0	0.0		
45	PI2 BPSK	1	240	22.53	22.70	22.68				
45	PI2 BPSK	120	0	22.21	22.35	22.31	23.5	0.5		
45	PI2 BPSK	120	60	22.71	22.79	22.76	24.0	0.0		
45	PI2 BPSK	120	120	22.23	22.28	22.26	23.5	0.5		
45	PI2 BPSK	240	0	22.25	22.34	22.29				
45	QPSK	1	1	22.71	22.85	22.72				
45	QPSK	1	120	22.61	22.69	22.65	24.0	0.0		
45	QPSK	1	240	22.58	22.72	22.68				
45	QPSK	120	0	21.69	21.82	21.80	23.0	1.0		
45	QPSK	120	60	22.74	22.80	22.77	24.0	0.0		
45	QPSK	120	120	21.80	21.81	21.78	23.0	1.0		
45	QPSK	240	0	21.80	21.85	21.82				
45	16QAM	1	1	21.44	21.50	21.48	23.0	1.0		
45	64QAM	1	1	19.88	20.03	20.00	21.5	2.5		
45	256QAM	1	1	18.59	18.65	18.82	19.5	4.5		
Channel										
Frequency (MHz)										
				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	22.60	22.80	22.59	24.0	0.0		
Channel										
Frequency (MHz)										
				343500	349000	352500	Tune-up limit (dBm)	MPR (dB)		
35	QPSK	1	1	22.61	22.83	22.64	24.0	0.0		
Channel										
Frequency (MHz)										
				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.59	22.74	22.63	24.0	0.0		
Channel										
Frequency (MHz)										
				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	22.58	22.74	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	22.62	22.70	22.66	24.0	0.0		
Channel										
Frequency (MHz)										
				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	22.64	22.67	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	22.58	22.67	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	22.52	22.67	22.69	24.0	0.0		



n2 Ant 4 ECI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	22.12	22.16	22.07		
40	PI2 BPSK	1	108	22.14	22.11	22.12	24.0	0.0
40	PI2 BPSK	1	214	22.06	22.14	22.13		
40	PI2 BPSK	108	0	21.87	21.88	21.84	23.5	0.5
40	PI2 BPSK	108	54	22.05	22.15	22.07	24.0	0.0
40	PI2 BPSK	108	108	21.86	21.86	21.83	23.5	0.5
40	PI2 BPSK	216	0	21.82	21.86	21.85		
40	QPSK	1	1	22.14	22.16	22.15		
40	QPSK	1	108	22.13	22.16	22.14	24.0	0.0
40	QPSK	1	214	22.13	22.17	22.16		
40	QPSK	108	0	21.17	21.18	21.16	23.0	1.0
40	QPSK	108	54	22.11	22.17	22.14	24.0	0.0
40	QPSK	108	108	21.13	21.15	21.09	23.0	1.0
40	QPSK	216	0	21.16	21.21	21.20		
40	16QAM	1	1	21.10	21.14	21.11	23.0	1.0
40	64QAM	1	1	19.80	19.87	19.82	21.5	2.5
40	256QAM	1	1	17.87	18.03	17.89	19.5	4.5
Channel								
Frequency (MHz)				376000	376000	376000	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	22.10	22.08	22.09	24.0	0.0
Channel								
Frequency (MHz)				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.03	22.09	22.09	24.0	0.0
Channel								
Frequency (MHz)				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.07	22.12	22.08	24.0	0.0
Channel								
Frequency (MHz)				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.09	22.14	22.09	24.0	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	1827.5	1880	1922.5		
Channel								
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.06	22.13	22.12	24.0	0.0
Channel								
Frequency (MHz)				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.05	22.15	22.07	24.0	0.0

n5 Ant 4 ECI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	22.83	22.87	22.81		
20	PI2 BPSK	1	53	22.58	22.85	22.80	24.0	0.0
20	PI2 BPSK	1	104	22.58	22.83	22.57		
20	PI2 BPSK	50	0	21.94	22.08	22.02	23.5	0.5
20	PI2 BPSK	50	28	22.38	22.49	22.44	24.0	0.0
20	PI2 BPSK	50	56	21.99	22.09	21.95	23.5	0.5
20	PI2 BPSK	100	0	22.08	22.10	22.06		
20	QPSK	1	1	22.84	22.88	22.82		
20	QPSK	1	53	22.84	22.86	22.80	24.0	0.0
20	QPSK	1	104	22.84	22.87	22.80		
20	QPSK	50	0	21.42	21.56	21.47	23.0	1.0
20	QPSK	50	28	22.45	22.55	22.53	24.0	0.0
20	QPSK	50	56	21.40	21.53	21.48	23.0	1.0
20	QPSK	100	0	21.52	21.55	21.52		
20	16QAM	1	1	21.33	21.43	21.35	23.0	1.0
20	64QAM	1	1	19.93	19.96	19.91	21.5	2.5
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0
Channel								
Frequency (MHz)				163000	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.85	22.88	22.81	24.0	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.82	22.83	22.59	24.0	0.0

n7 Ant 4 ECI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	21.80	21.95	21.84		
50	PI2 BPSK	1	135	21.83	21.91	21.78	23.0	0.0
50	PI2 BPSK	1	268	21.73	21.86	21.80		
50	PI2 BPSK	135	0	21.39	21.41	21.40	22.5	0.5
50	PI2 BPSK	135	68	21.84	21.93	21.90	23.0	0.0
50	PI2 BPSK	135	135	21.35	21.36	21.37	22.5	0.5
50	PI2 BPSK	270	0	21.40	21.47	21.42		
50	QPSK	1	1	21.80	21.96	21.82		
50	QPSK	1	135	21.80	21.94	21.77	23.0	0.0
50	QPSK	1	268	21.76	21.95	21.83		
50	QPSK	135	0	20.85	20.89	20.87	22.0	1.0
50	QPSK	135	68	21.88	21.94	21.91	23.0	0.0
50	QPSK	135	135	20.89	20.96	20.91	22.0	1.0
50	QPSK	270	0	21.00	21.08	21.04		
50	16QAM	1	1	20.57	20.62	20.59	22.0	1.0
50	64QAM	1	1	19.12	19.17	19.15	20.5	2.5
50	256QAM	1	1	17.70	17.78	17.72	18.5	4.5
Channel								
Frequency (MHz)				50900	50700	51000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.81	21.93	21.73	23.0	0.0
Channel								
Frequency (MHz)				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	21.75	22.35	22.52	23.0	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.79	21.92	21.75	23.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.77	21.88	21.82	23.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	21.80	21.92	21.83	23.0	0.0
Channel								
Frequency (MHz)				2577.5	2535	2592.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.80	21.90	21.77	23.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.79	21.91	21.84	23.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.72	21.90	21.84	23.0	0.0



n26 Ant 4 ECI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				163300	163300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	24.0	0.0
20	PI2 BPSK	1	104	22.77	22.84	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.71	22.87	24.0	0.0
20	PI2 BPSK	50	56	22.16	22.26	22.22	23.5	0.5
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81	24.0	0.0
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	23.0	1.0
20	QPSK	50	28	22.81	22.70	22.86	24.0	0.0
20	QPSK	50	56	21.80	21.74	21.68	23.0	1.0
20	QPSK	100	0	21.72	21.75	21.74		
20	16QAM	1	1	21.48	21.53	21.49	23.0	1.0
20	64QAM	1	1	20.04	20.10	20.07	21.5	2.5
20	256QAM	1	1	18.81	18.70	18.65	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.74	22.79	22.78	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	22.70	22.80	22.75	24.0	0.0

n66 Ant 4 ECI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				345500	345500	345500		
Frequency (MHz)				1727.5	1745	1757.5		
45	PI2 BPSK	1	1	22.41	22.50	22.45		
45	PI2 BPSK	1	120	22.44	22.49	22.46	24.0	0.0
45	PI2 BPSK	1	240	22.46	22.42	22.41		
45	PI2 BPSK	120	0	21.92	21.94	21.98	23.5	0.5
45	PI2 BPSK	120	60	22.40	22.44	22.42	24.0	0.0
45	PI2 BPSK	120	120	21.90	21.94	21.98	23.5	0.5
45	PI2 BPSK	240	0	21.92	21.98	21.96		
45	QPSK	1	1	22.45	22.51	22.48		
45	QPSK	1	120	22.44	22.48	22.46	24.0	0.0
45	QPSK	1	240	22.44	22.48	22.44		
45	QPSK	120	0	21.41	21.51	21.49	23.0	1.0
45	QPSK	120	60	22.41	22.48	22.45	24.0	0.0
45	QPSK	120	120	21.36	21.46	21.40	23.0	1.0
45	QPSK	240	0	21.48	21.53	21.50		
45	16QAM	1	1	21.15	21.20	21.14	23.0	1.0
45	64QAM	1	1	19.68	19.74	19.72	21.5	2.5
45	256QAM	1	1	18.02	18.05	18.00	19.5	4.5
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	22.38	22.48	22.37	24.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	22.43	22.45	22.40	24.0	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.44	22.48	22.47	24.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1762.5		
25	QPSK	1	1	22.38	22.42	22.40	24.0	0.0
Channel				344000	349000	344000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.45	22.46	22.42	24.0	0.0
Channel				345500	345500	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.42	22.49	22.47	24.0	0.0
Channel				343000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.44	22.45	22.44	24.0	0.0
Channel				342500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.38	22.45	22.40	24.0	0.0



n38 Ant 0 ECI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519394	519500	519596			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09			
40	PI/2 BPSK	50	0	20.55	20.86	20.81	21.5	0.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	50	56	20.46	20.86	20.58	21.5	0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.05	20.12	20.05	21.0	1.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	80	56	20.04	20.14	20.14	21.0	1.0	
40	QPSK	100	0	20.08	20.13	20.10			
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0	
40	16QAM	1	1	18.07	18.10	18.07	19.5	2.5	
40	256QAM	1	1	18.76	18.82	18.71	17.5	4.5	
Channel				517002	516900	520398	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.91	2585	2604.99	22.0	0.0	
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48	22.0	0.0	
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	22.0	0.0	
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	22.0	0.0	
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	22.0	0.0	
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

n41 Ant 0 ECI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526202	518598	526200			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72	21.5	0.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.85			
100	QPSK	1	1	21.16	21.29	21.22			
100	QPSK	1	137	21.15	21.27	21.14	22.0	0.0	
100	QPSK	1	271	21.17	21.26	21.21			
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0	
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0	
100	QPSK	135	138	20.19	20.22	20.21	21.0	1.0	
100	QPSK	270	0	20.22	20.29	20.25			
100	16QAM	1	1	19.88	19.74	19.71	21.0	1.0	
100	16QAM	1	1	18.21	18.27	18.24	19.5	2.5	
100	256QAM	1	1	18.87	18.91	18.88	17.5	4.5	
Channel				526200	518598	526198	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0	
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0	
Channel				507204	518598	529898	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.62	2592.99	2648.99	22.0	0.0	
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	22.0	0.0	
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2529	2592.99	2659.99	22.0	0.0	
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.62	2592.99	2664.99	22.0	0.0	
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0	
Channel				503200	518598	533498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	22.0	0.0	
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	22.0	0.0	
40	QPSK	1	1	21.15	21.21	21.20	22.0	0.0	
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	22.0	0.0	
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	22.0	0.0	
30	QPSK	1	1	21.15	21.24	21.14	22.0	0.0	
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	22.0	0.0	
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0	
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	22.0	0.0	
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	22.0	0.0	
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0	



n38 Ant 1 ECI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519500	519696		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	22.53	22.59	22.57		
40	Pl/2 BPSK	1	53	22.49	22.54	22.58	24.0	0.0
40	Pl/2 BPSK	1	104	22.46	22.54	22.52		
40	Pl/2 BPSK	50	0	22.17	22.22	22.15	23.5	0.5
40	Pl/2 BPSK	50	28	22.57	22.61	22.58	24.0	0.0
40	Pl/2 BPSK	50	56	22.07	22.20	22.18	23.5	0.5
40	Pl/2 BPSK	100	0	22.16	22.20	22.17		
40	QPSK	1	1	22.58	22.76	22.59		
40	QPSK	1	53	22.53	22.57	22.56	24.0	0.0
40	QPSK	1	104	22.49	22.55	22.52		
40	QPSK	50	0	21.58	21.70	21.66	23.0	1.0
40	QPSK	50	28	22.62	22.67	22.63	24.0	0.0
40	QPSK	80	56	21.65	21.67	21.59	23.0	1.0
40	QPSK	100	0	21.60	21.68	21.65		
40	16QAM	1	1	21.27	21.32	21.29	23.0	1.0
40	16QAM	1	1	19.81	19.89	19.88	21.5	2.5
40	256QAM	1	1	18.46	18.53	18.50	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.58	22.59	22.53	24.0	0.0
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	22.52	22.60	22.55	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.50	22.55	22.52	24.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.52	22.59	22.57	24.0	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.53	22.57	22.53	24.0	0.0

n41 Ant 1 ECI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526202	518598	526200		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	22.54	22.78	22.55		
100	Pl/2 BPSK	1	137	22.51	22.74	22.48	24.0	0.0
100	Pl/2 BPSK	1	271	22.52	22.78	22.52		
100	Pl/2 BPSK	135	0	22.08	22.29	22.10	23.5	0.5
100	Pl/2 BPSK	135	69	22.51	22.80	22.46	24.0	0.0
100	Pl/2 BPSK	135	138	22.06	22.34	22.06	23.5	0.5
100	Pl/2 BPSK	270	0	22.15	22.35	22.02		
100	QPSK	1	1	22.58	22.85	22.58		
100	QPSK	1	137	22.59	22.80	22.52	24.0	0.0
100	QPSK	1	271	22.50	22.82	22.56		
100	QPSK	135	0	21.61	21.82	21.54	23.0	1.0
100	QPSK	135	69	22.60	22.84	22.54	24.0	0.0
100	QPSK	135	138	21.58	21.84	21.58	23.0	1.0
100	QPSK	270	0	21.65	21.87	21.57		
100	16QAM	1	1	21.33	21.41	21.35	23.0	1.0
100	16QAM	1	1	19.82	19.93	19.88	21.5	2.5
100	256QAM	1	1	18.50	18.59	18.51	19.5	4.5
Channel				526200	518598	526198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	22.59	22.76	22.59	24.0	0.0
Channel				507204	518598	529898	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	22.57	22.77	22.58	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.53	22.78	22.53	24.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	22.53	22.81	22.53	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.57	22.73	22.53	24.0	0.0
Channel				503200	518598	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.05	2592.99	2667.48		
45	QPSK	1	1	22.56	22.77	22.54	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	22.53	22.73	22.50	24.0	0.0
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	22.55	22.75	22.55	24.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.50	22.78	22.53	24.0	0.0
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	22.56	22.70	22.50	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.50	22.82	22.57	24.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.05	2592.99	2682.48		
15	QPSK	1	1	22.55	22.77	22.50	24.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.60	22.77	22.54	24.0	0.0



n38 Ant 2 ECI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98		
Frequency (MHz)				519304	519350	519396		
40	PI/2 BPSK	1	1	18.40	18.43	18.22		
40	PI/2 BPSK	1	53	18.38	18.46	18.26	19.5	0.0
40	PI/2 BPSK	1	104	18.38	18.40	18.35		
40	PI/2 BPSK	50	0	18.32	18.36	18.20	19.5	0.0
40	PI/2 BPSK	50	28	18.27	18.33	18.18	19.5	0.0
40	PI/2 BPSK	50	56	18.23	18.39	18.27	19.5	0.0
40	PI/2 BPSK	100	0	18.22	18.39	18.21		
40	QPSK	1	1	18.36	18.51	18.25		
40	QPSK	1	53	18.46	18.46	18.26	19.5	0.0
40	QPSK	1	104	18.30	18.45	18.23		
40	QPSK	50	0	17.79	17.82	17.57	19.0	0.5
40	QPSK	50	28	18.26	18.29	18.25	19.5	0.0
40	QPSK	80	56	17.82	17.82	17.75		
40	QPSK	100	0	17.83	17.84	17.84	19.0	0.5
40	16QAM	1	1	17.76	17.78	17.79	19.0	0.5
40	16QAM	1	1	18.38	18.37	18.26	17.5	2.0
40	256QAM	1	1	14.78	14.99	14.71	15.5	4.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.44	18.34	18.18	19.5	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	18.43	18.41	18.23	19.5	0.0
Channel				516000	519000	523000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.44	18.42	18.23	19.5	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	18.41	18.44	18.17	19.5	0.0
Channel				515004	519000	525996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.44	18.38	18.16	19.5	0.0

n41 Ant 2 ECI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640		
Frequency (MHz)				509202	518998	529000		
100	PI/2 BPSK	1	1	18.47	18.52	18.35		
100	PI/2 BPSK	1	137	18.50	18.55	18.39	19.5	0.0
100	PI/2 BPSK	1	271	18.45	18.52	18.43		
100	PI/2 BPSK	135	0	18.40	18.47	18.33	19.5	0.0
100	PI/2 BPSK	135	69	18.39	18.45	18.29	19.5	0.0
100	PI/2 BPSK	135	138	18.36	18.49	18.37	19.5	0.0
100	PI/2 BPSK	270	0	18.37	18.46	18.35		
100	QPSK	1	1	18.54	18.58	18.38		
100	QPSK	1	137	18.53	18.56	18.34	19.5	0.0
100	QPSK	1	271	18.47	18.55	18.38		
100	QPSK	135	0	17.87	18.00	17.75	19.0	0.5
100	QPSK	135	69	18.37	18.43	18.35	19.5	0.0
100	QPSK	135	138	17.94	17.85	17.83		
100	QPSK	270	0	18.00	18.08	18.01	19.0	0.5
100	16QAM	1	1	17.91	17.95	17.86	19.0	0.5
100	16QAM	1	1	18.44	18.46	18.40	17.5	2.0
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.0
Channel				509200	518998	529000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	18.54	18.51	18.29	19.5	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.45	18.48	18.21	19.5	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2531.01	2592.99	2665		
70	QPSK	1	1	18.44	18.48	18.38	19.5	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	18.44	18.52	18.34	19.5	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.53	18.47	18.28	19.5	0.0
Channel				503200	518998	533998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2518.5	2592.99	2667.49		
45	QPSK	1	1	18.52	18.54	18.28	20.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.44	18.50	18.31	19.5	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	18.54	18.56	18.32	20.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.43	18.56	18.33	19.5	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	18.42	18.58	18.28	20.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.43	18.48	18.28	19.5	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR
Frequency (MHz)				2503.5	2592.99	2682.43		
15	QPSK	1	1	18.45	18.48	18.28	19.5	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.52	18.48	18.36	19.5	0.0



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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 various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequencies and power levels.

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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 various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequencies and power levels.

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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 various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different frequencies and power levels.



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3760	3760	3760			
100	PI2 BPSK	1	1		25.41				
100	PI2 BPSK	1	137		25.38		27.0	0.0	
100	PI2 BPSK	1	271		25.39				
100	PI2 BPSK	135	0		24.87		28.5	0.5	
100	PI2 BPSK	135	69		25.40		27.0	0.0	
100	PI2 BPSK	135	138		24.88				
100	PI2 BPSK	270	0		24.86				
100	QPSK	1	1		25.43				
100	QPSK	1	137		25.39		27.0	0.0	
100	QPSK	1	271		25.40				
100	QPSK	135	0		24.33		28.0	1.0	
100	QPSK	135	69		25.41		27.0	0.0	
100	QPSK	135	138		24.36				
100	QPSK	270	0		24.38		28.0	1.0	
100	16QAM	1	1		24.18		26.0	1.0	
100	16QAM	1	1		22.68		24.5	2.5	
100	256QAM	1	1		21.30		22.5	4.5	
Channel				649688	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		25.33	25.39	25.36	27.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.29	25.36	25.34	27.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		25.24	25.39	25.29	27.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		25.35	25.38	25.39	27.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.32	25.34	25.37	27.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		25.34	25.36	25.27	27.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		25.31	25.40	25.30	27.0	0.0
Channel				647300	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		25.35	25.35	25.39	27.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.35	25.39	25.35	27.0	0.0
Channel				647188	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		25.28	25.34	25.28	27.0	0.0
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.33	25.36	25.27	27.0	0.0



n38 Ant 4 ECI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				51904	51900	51996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.11	22.19	22.17		
40	PI/2 BPSK	1	53	22.04	22.12	22.11	24.0	0.0
40	PI/2 BPSK	1	104	22.06	22.16	22.02		
40	PI/2 BPSK	50	0	21.59	21.72	21.68	23.5	0.5
40	PI/2 BPSK	50	28	22.03	22.19	22.09	24.0	0.0
40	PI/2 BPSK	50	56	21.66	21.72	21.81	23.5	0.5
40	PI/2 BPSK	100	0	21.63	21.73	21.84		
40	QPSK	1	1	22.12	22.30	22.14		
40	QPSK	1	53	22.06	22.13	22.11	24.0	0.0
40	QPSK	1	104	22.14	22.15	22.10		
40	QPSK	50	0	21.10	21.21	21.16	23.0	1.0
40	QPSK	50	28	22.23	22.28	22.26	24.0	0.0
40	QPSK	80	56	21.06	21.22	21.16	23.0	1.0
40	QPSK	100	0	21.25	21.29	21.27		
40	16QAM	1	1	21.11	21.18	21.14	23.0	1.0
40	16QAM	1	1	19.79	19.87	19.82	21.5	2.5
40	256QAM	1	1	18.02	18.10	18.06	19.5	4.5
Channel				51702	51690	53398	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.91	2595	2604.99		
30	QPSK	1	1	22.05	22.15	22.17	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	22.10	22.13	22.15	24.0	0.0
Channel				516000	519000	523000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.04	22.10	22.05	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.15	22.18	22.14	24.0	0.0
Channel				515004	519000	529996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.10	22.16	22.12	24.0	0.0

n41 Ant 4 ECI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				52602	51898	52600		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.21	22.26	22.14		
100	PI/2 BPSK	1	137	22.15	22.24	22.11	24.0	0.0
100	PI/2 BPSK	1	271	22.18	22.18	22.16		
100	PI/2 BPSK	135	0	21.73	21.86	21.70	23.5	0.5
100	PI/2 BPSK	135	69	22.24	22.33	22.22	24.0	0.0
100	PI/2 BPSK	135	138	21.78	21.82	21.78	23.5	0.5
100	PI/2 BPSK	270	0	21.77	21.90	21.76		
100	QPSK	1	1	22.22	22.38	22.19		
100	QPSK	1	137	22.15	22.27	22.13	24.0	0.0
100	QPSK	1	271	22.19	22.23	22.14		
100	QPSK	135	0	21.27	21.29	21.20	23.0	1.0
100	QPSK	135	69	22.29	22.34	22.25	24.0	0.0
100	QPSK	135	138	21.26	21.31	21.30	23.0	1.0
100	QPSK	270	0	21.30	21.33	21.27		
100	16QAM	1	1	21.23	21.25	21.20	23.0	1.0
100	16QAM	1	1	19.92	19.98	19.87	21.5	2.5
100	256QAM	1	1	18.20	18.24	18.22	19.5	4.5
Channel				50600	51898	53398	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	22.17	22.25	22.13	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	22.15	22.27	22.19	24.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2665		
70	QPSK	1	1	22.20	22.25	22.19	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	22.19	22.25	22.18	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.14	22.22	22.13	24.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2667.49		
45	QPSK	1	1	22.08	22.17	22.14	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	22.21	22.25	22.11	24.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	22.08	22.20	22.15	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	22.15	22.27	22.14	24.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	22.15	22.25	22.15	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.14	22.26	22.22	24.0	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.13	22.22	22.12	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.22	22.20	22.10	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.29	22.31	22.27		
100	PI2 BPSK	1	137	22.29	22.38	22.22	24.0	0.0
100	PI2 BPSK	1	271	22.36	22.37	22.28		
100	PI2 BPSK	135	0	21.92	21.93	21.90	23.5	0.5
100	PI2 BPSK	135	69	22.29	22.32	22.35	24.0	0.0
100	PI2 BPSK	135	138	21.96	21.94	21.88	23.5	0.5
100	PI2 BPSK	270	0	21.97	21.91	21.84		
100	QPSK	1	1	22.42	22.45	22.38		
100	QPSK	1	137	22.37	22.32	22.35	24.0	0.0
100	QPSK	1	271	22.40	22.31	22.36		
100	QPSK	135	0	21.35	21.43	21.38	23.0	1.0
100	QPSK	135	69	22.29	22.39	22.30	24.0	0.0
100	QPSK	135	138	21.35	21.46	21.26	23.0	1.0
100	QPSK	270	0	21.38	21.48	21.39		
100	16QAM	1	1	21.27	21.42	21.27	23.0	1.0
100	16QAM	1	1	19.93	19.97	19.86	21.5	2.5
100	256QAM	1	1	17.93	17.91	17.89	19.5	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.29	22.39	22.30	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				645000	650000	663000		
70	QPSK	1	1	22.36	22.38	22.33	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
60	QPSK	1	1	22.28	22.33	22.27	24.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.31	22.33	22.29	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.32	22.37	22.34	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	22.33	22.33	22.31	24.0	0.0
Channel								
Frequency (MHz)				647500	650000	664500		
25	QPSK	1	1	22.32	22.34	22.23	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	22.26	22.34	22.28	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	664834		
15	QPSK	1	1	22.26	22.41	22.26	24.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.30	22.41	22.31	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.58	16.52	16.47		
100	PI2 BPSK	1	137	16.54	16.60	16.38	17.5	0.0
100	PI2 BPSK	1	271	16.56	16.60	16.37		
100	PI2 BPSK	135	0	16.19	16.20	15.97	17.0	0.5
100	PI2 BPSK	135	69	16.53	16.62	16.52	17.5	0.0
100	PI2 BPSK	135	138	16.10	16.12	15.94	17.0	0.5
100	PI2 BPSK	270	0	16.00	16.05	15.80		
100	QPSK	1	1	16.83	16.84	16.39		
100	QPSK	1	137	16.82	16.56	16.42	17.5	0.0
100	QPSK	1	271	16.82	16.59	16.30		
100	QPSK	135	0	15.61	15.66	15.31	16.5	1.0
100	QPSK	135	69	16.46	16.62	16.59	17.5	0.0
100	QPSK	135	138	15.51	15.54	15.41	16.5	1.0
100	QPSK	270	0	15.59	15.60	15.46		
100	16QAM	1	1	15.22	15.27	15.31	16.5	1.0
100	16QAM	1	1	13.87	13.88	13.81	15.0	2.5
100	256QAM	1	1	12.06	12.13	12.06	13.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.57	16.54	16.27	17.5	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				645000	650000	663000		
70	QPSK	1	1	16.54	16.53	16.34	17.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
60	QPSK	1	1	16.58	16.55	16.30	17.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.59	16.53	16.33	17.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.50	16.61	16.38	17.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	16.59	16.56	16.30	17.5	0.0
Channel								
Frequency (MHz)				647500	650000	664500		
25	QPSK	1	1	16.61	16.57	16.32	17.5	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	16.52	16.57	16.36	17.5	0.0
Channel								
Frequency (MHz)				647168	650000	664834		
15	QPSK	1	1	16.58	16.56	16.30	17.5	0.0
Channel								
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.51	16.61	16.27	17.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.56	19.57	19.50		
100	PI2 BPSK	1	137	19.54	19.58	19.37	20.5	0.0
100	PI2 BPSK	1	271	19.54	19.56	19.31		
100	PI2 BPSK	135	0	19.14	19.15	18.93	20.0	0.5
100	PI2 BPSK	135	69	19.50	19.60	19.54	20.5	0.0
100	PI2 BPSK	135	138	19.10	19.17	18.89	20.0	0.5
100	PI2 BPSK	270	0	19.03	19.07	18.86		
100	QPSK	1	1	19.59	19.62	19.38		
100	QPSK	1	137	19.58	19.58	19.36	20.5	0.0
100	QPSK	1	271	19.57	19.58	19.33		
100	QPSK	135	0	18.58	18.62	18.34	19.5	1.0
100	QPSK	135	69	19.51	19.58	19.53	20.5	0.0
100	QPSK	135	138	18.55	18.60	18.42	19.5	1.0
100	QPSK	270	0	18.55	18.58	18.52		
100	16QAM	1	1	18.28	18.32	18.29	19.5	1.0
100	16QAM	1	1	16.81	16.86	16.85	18.0	2.5
100	256QAM	1	1	15.01	15.07	15.02	16.0	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.46	19.50	19.36	20.5	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				645000	650000	663000		
70	QPSK	1	1	19.51	19.51	19.27	20.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
60	QPSK	1	1	19.55	19.50	19.32	20.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.50	19.53	19.28	20.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.48	19.57	19.34	20.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	19.59	19.55	19.25	20.5	0.0
Channel								
Frequency (MHz)				647500	650000	664500		
25	QPSK	1	1	19.46	19.55	19.31	20.5	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	19.47	19.58	19.35	20.5	0.0
Channel								
Frequency (MHz)				647168	650000	664834		
15	QPSK	1	1	19.52	19.54	19.34	20.5	0.0
Channel								
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.56	19.54	19.34	20.5	0.0



Part270 n78 Ant 5 ECI4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	3750	3750	3750				
100	PI2 BPSK	1	137		22.18	22.28		24.0	0.0	
100	PI2 BPSK	1	271		22.29	22.29		24.0	0.0	
100	PI2 BPSK	135	0		21.88	21.88		23.5	0.5	
100	PI2 BPSK	135	69		22.28	22.28		24.0	0.0	
100	PI2 BPSK	135	138		21.83	21.83		23.5	0.5	
100	PI2 BPSK	270	0		21.79	21.79		24.0	0.0	
100	QPSK	1	1		22.34	22.34		24.0	0.0	
100	QPSK	1	137		22.18	22.18		24.0	0.0	
100	QPSK	1	271		22.18	22.18		23.0	1.0	
100	QPSK	135	0		21.38	21.38		24.0	0.0	
100	QPSK	135	69		22.32	22.32		23.0	1.0	
100	QPSK	135	138		21.32	21.32		23.0	1.0	
100	QPSK	270	0		21.43	21.43		23.0	1.0	
100	16QAM	1	1		21.35	21.35		23.0	1.0	
100	16QAM	1	1		19.88	19.88		21.5	2.5	
100	256QAM	1	1		17.77	17.77		19.5	4.5	
Channel										
Frequency (MHz)										
90	QPSK	1	1		649688	650000	650334		MPR	(dB)
Channel										
Frequency (MHz)										
90	QPSK	1	1		22.16	22.32	22.19	24.0	0.0	0.0
Channel										
Frequency (MHz)										
80	QPSK	1	1		649334	650000	650668		MPR	(dB)
Channel										
Frequency (MHz)										
80	QPSK	1	1		22.24	22.25	22.20	24.0	0.0	0.0
Channel										
Frequency (MHz)										
70	QPSK	1	1		648900	650000	651000		MPR	(dB)
Channel										
Frequency (MHz)										
70	QPSK	1	1		22.19	22.30	22.22	24.0	0.0	0.0
Channel										
Frequency (MHz)										
60	QPSK	1	1		648668	650000	651334		MPR	(dB)
Channel										
Frequency (MHz)										
60	QPSK	1	1		22.21	22.29	22.23	24.0	0.0	0.0
Channel										
Frequency (MHz)										
50	QPSK	1	1		648334	650000	651668		MPR	(dB)
Channel										
Frequency (MHz)										
50	QPSK	1	1		22.17	22.30	22.23	24.0	0.0	0.0
Channel										
Frequency (MHz)										
40	QPSK	1	1		648000	650000	652000		MPR	(dB)
Channel										
Frequency (MHz)										
40	QPSK	1	1		22.19	22.25	22.20	24.0	0.0	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1		647668	650000	652334		MPR	(dB)
Channel										
Frequency (MHz)										
30	QPSK	1	1		22.23	22.21	22.18	24.0	0.0	0.0
Channel										
Frequency (MHz)										
25	QPSK	1	1		647500	650000	652500		MPR	(dB)
Channel										
Frequency (MHz)										
25	QPSK	1	1		22.23	22.33	22.20	24.0	0.0	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1		647334	650000	652668		MPR	(dB)
Channel										
Frequency (MHz)										
20	QPSK	1	1		22.23	22.25	22.21	24.0	0.0	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1		647188	650000	652834		MPR	(dB)
Channel										
Frequency (MHz)										
15	QPSK	1	1		22.23	22.29	22.28	24.0	0.0	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1		647000	650000	653000		MPR	(dB)
Channel										
Frequency (MHz)										
10	QPSK	1	1		22.24	22.28	22.23	24.0	0.0	0.0

Part270 n78 other PA Ant 5 ECI4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		16.37	16.44		17.5	0.0	
100	PI2 BPSK	1	137		16.40	16.40		17.5	0.0	
100	PI2 BPSK	1	271		16.30	16.30		17.0	0.5	
100	PI2 BPSK	135	0		16.13	16.13		17.5	0.0	
100	PI2 BPSK	135	69		16.55	16.55		17.5	0.0	
100	PI2 BPSK	135	138		16.02	16.02		17.0	0.5	
100	PI2 BPSK	270	0		15.95	15.95		17.5	0.0	
100	QPSK	1	1		16.38	16.38		17.5	0.0	
100	QPSK	1	137		16.44	16.44		17.5	0.0	
100	QPSK	1	271		16.48	16.48		18.5	1.0	
100	QPSK	135	0		15.59	15.59		18.5	1.0	
100	QPSK	135	69		16.54	16.54		17.5	0.0	
100	QPSK	135	138		15.47	15.47		18.5	1.0	
100	QPSK	270	0		15.48	15.48		18.5	1.0	
100	16QAM	1	1		15.15	15.15		16.5	1.0	
100	16QAM	1	1		13.78	13.78		15.0	2.5	
100	256QAM	1	1		12.03	12.03		13.0	4.5	
Channel										
Frequency (MHz)										
90	QPSK	1	1		649688	650000	650334		MPR	(dB)
Channel										
Frequency (MHz)										
90	QPSK	1	1		16.48	16.41	16.19	17.5	0.0	0.0
Channel										
Frequency (MHz)										
80	QPSK	1	1		649334	650000	650668		MPR	(dB)
Channel										
Frequency (MHz)										
80	QPSK	1	1		16.51	16.48	16.21	17.5	0.0	0.0
Channel										
Frequency (MHz)										
70	QPSK	1	1		648900	650000	651000		MPR	(dB)
Channel										
Frequency (MHz)										
70	QPSK	1	1		16.47	16.42	16.18	17.5	0.0	0.0
Channel										
Frequency (MHz)										
60	QPSK	1	1		648668	650000	651334		MPR	(dB)
Channel										
Frequency (MHz)										
60	QPSK	1	1		16.52	16.41	16.22	17.5	0.0	0.0
Channel										
Frequency (MHz)										
50	QPSK	1	1		648334	650000	651668		MPR	(dB)
Channel										
Frequency (MHz)										
50	QPSK	1	1		16.52	16.41	16.17	17.5	0.0	0.0
Channel										
Frequency (MHz)										
40	QPSK	1	1		648000	650000	652000		MPR	(dB)
Channel										
Frequency (MHz)										
40	QPSK	1	1		16.52	16.46	16.22	17.5	0.0	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1		647668	650000	652334		MPR	(dB)
Channel										
Frequency (MHz)										
30	QPSK	1	1		16.49	16.49	16.16	17.5	0.0	0.0
Channel										
Frequency (MHz)										
25	QPSK	1	1		647500	650000	652500		MPR	(dB)
Channel										
Frequency (MHz)										
25	QPSK	1	1		16.47	16.44	16.15	17.5	0.0	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1		647334	650000	652668		MPR	(dB)
Channel										
Frequency (MHz)										
20	QPSK	1	1		16.45	16.43	16.12	17.5	0.0	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1		647188	650000	652834		MPR	(dB)
Channel										
Frequency (MHz)										
15	QPSK	1	1		16.42	16.43	16.19	17.5	0.0	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1		647000	650000	653000		MPR	(dB)
Channel										
Frequency (MHz)										
10	QPSK	1	1		16.47	16.43	16.21	17.5	0.0	0.0

Part270 n78 other PA HPUE Ant 5 ECI4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1		19.46	19.46		20.5	0.0	
100	PI2 BPSK	1	137		19.49	19.49		20.5	0.0	
100	PI2 BPSK	1	271		19.41	19.41		20.0	0.5	
100	PI2 BPSK	135	0		19.07	19.07		20.0	0.0	
100	PI2 BPSK	135	69		19.45	19.45		20.5	0.0	
100	PI2 BPSK	135	138		19.08	19.08		20.0	0.5	
100	PI2 BPSK	270	0		18.98	18.98		20.5	0.0	
100	QPSK	1	1		19.85	19.85		20.5	0.0	
100	QPSK	1	137		19.43	19.43		20.5	0.0	
100	QPSK	1	271		19.52	19.52		19.5	1.0	
100	QPSK	135	0		18.47	18.47		20.5	0.0	
100	QPSK	135	69		19.45	19.45		19.5	1.0	
100	QPSK	135	138		18.49	18.49		19.5	1.0	
100	QPSK	270	0		18.50	18.50		18.0	4.5	
100	16QAM	1	1		18.17	18.17		18.0	2.5	
100	16QAM	1	1		16.82	16.82		18.0	2.5	
100	256QAM	1	1		14.98	14.98		18.0	4.5	
Channel										
Frequency (MHz)										
90	QPSK	1	1		649688	650000	650334		MPR	(dB)
Channel										
Frequency (MHz)										
90	QPSK	1	1		19.38	19.45	19.22	20.5	0.0	0.0
Channel										
Frequency (MHz)										
80	QPSK	1	1		649334	650000	650668		MPR	(dB)
Channel										
Frequency (MHz)										
80										



Part270 n77 Ant 7 ECI4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				65000	65000	65000		
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	22.58	22.40	22.51	24.0	0.0
100	PI2 BPSK	1	137	22.43	22.47	22.45		
100	PI2 BPSK	1	271	22.54	22.41	22.57		
100	PI2 BPSK	135	0	22.07	22.11	22.04	23.5	0.5
100	PI2 BPSK	135	69	22.41	22.43	22.54	24.0	0.0
100	PI2 BPSK	135	138	22.18	22.23	22.13	23.5	0.5
100	PI2 BPSK	270	0	22.09	22.13	21.98		
100	QPSK	1	1	22.59	22.68	22.62		
100	QPSK	1	137	22.52	22.45	22.53	24.0	0.0
100	QPSK	1	271	22.63	22.51	22.57		
100	QPSK	135	0	21.50	21.64	21.55	23.0	1.0
100	QPSK	135	69	22.47	22.63	22.50	24.0	0.0
100	QPSK	135	138	21.54	21.68	21.45	23.0	1.0
100	QPSK	270	0	21.86	21.87	21.54		
100	16QAM	1	1	21.50	21.80	21.40	23.0	1.0
100	16QAM	1	1	20.16	20.16	20.03	21.5	2.5
100	256QAM	1	1	18.14	18.09	18.16	19.5	4.5
Channel				64868	65000	66334		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.52	22.56	22.48	24.0	0.0
Channel				649334	65000	66268		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.48	22.54	22.50	24.0	0.0
Channel				649000	65000	66300		
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.51	22.50	22.43	24.0	0.0
Channel				64868	65000	66334		
Frequency (MHz)				3740.02	3840	3930.01		
60	QPSK	1	1	22.48	22.54	22.53	24.0	0.0
Channel				648334	65000	66368		
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.55	22.50	22.49	24.0	0.0
Channel				64868	65000	66300		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.56	22.57	22.52	24.0	0.0
Channel				64768	65000	66434		
Frequency (MHz)				3715.02	3840	3950.01		
30	QPSK	1	1	22.52	22.56	22.48	24.0	0.0
Channel				647500	65000	664500		
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.48	22.49	22.52	24.0	0.0
Channel				647334	65000	66468		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.54	22.50	22.46	24.0	0.0
Channel				647168	65000	664834		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.52	22.57	22.45	24.0	0.0
Channel				647000	65000	66500		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.51	22.56	22.44	24.0	0.0

Part270 n77 other PA Ant 7 ECI4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				65000	65000	65000		
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	19.79	19.82	19.70	20.5	0.0
100	PI2 BPSK	1	137	19.80	19.82	19.81		
100	PI2 BPSK	1	271	19.76	19.78	19.71		
100	PI2 BPSK	135	0	19.22	19.31	19.14	20.0	0.5
100	PI2 BPSK	135	69	19.66	19.71	19.65	20.5	0.0
100	PI2 BPSK	135	138	19.27	19.27	19.23	20.0	0.5
100	PI2 BPSK	270	0	19.26	19.27	19.22		
100	QPSK	1	1	19.81	19.83	19.78		
100	QPSK	1	137	19.76	19.78	19.74	20.5	0.0
100	QPSK	1	271	19.76	19.80	19.70		
100	QPSK	135	0	18.75	18.79	18.64	19.5	1.0
100	QPSK	135	69	19.74	19.76	19.70	20.5	0.0
100	QPSK	135	138	18.73	18.78	18.75	19.5	1.0
100	QPSK	270	0	18.77	18.78	18.68		
100	16QAM	1	1	18.68	18.72	18.61	19.5	1.0
100	16QAM	1	1	17.20	17.24	17.16	18.0	2.5
100	256QAM	1	1	15.06	15.13	15.01	16.0	4.5
Channel				64868	65000	66334		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel				649334	65000	66268		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.76	19.75	19.70	20.5	0.0
Channel				649000	65000	66300		
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel				64868	65000	66334		
Frequency (MHz)				3740.02	3840	3930.01		
60	QPSK	1	1	19.81	19.77	19.76	20.5	0.0
Channel				648334	65000	66368		
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.79	19.78	19.76	20.5	0.0
Channel				64868	65000	66300		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.73	19.79	19.75	20.5	0.0
Channel				64768	65000	66434		
Frequency (MHz)				3715.02	3840	3950.01		
30	QPSK	1	1	19.77	19.77	19.72	20.5	0.0
Channel				647500	65000	664500		
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	19.76	19.79	19.77	20.5	0.0
Channel				647334	65000	66468		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.82	19.77	19.76	20.5	0.0
Channel				647168	65000	664834		
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	19.75	19.76	19.75	20.5	0.0
Channel				647000	65000	66500		
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.74	19.75	19.81	20.5	0.0

Part270 n77 other PA HPUE Ant 7 ECI4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				65000	65000	65000		
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	22.51	22.43	22.44	23.5	0.0
100	PI2 BPSK	1	137	22.27	22.32	22.34		
100	PI2 BPSK	1	271	22.44	22.55	22.46		
100	PI2 BPSK	135	0	21.99	21.96	21.92	23.0	0.5
100	PI2 BPSK	135	69	22.24	22.32	22.39	23.5	0.0
100	PI2 BPSK	135	138	22.01	22.12	21.97	23.0	0.5
100	PI2 BPSK	270	0	22.00	22.06	21.82		
100	QPSK	1	1	22.42	22.57	22.46		
100	QPSK	1	137	22.41	22.35	22.45	23.5	0.0
100	QPSK	1	271	22.51	22.44	22.50		
100	QPSK	135	0	21.38	21.47	21.43	22.5	1.0
100	QPSK	135	69	22.32	22.56	22.42	23.5	0.0
100	QPSK	135	138	21.40	21.58	21.36	22.5	1.0
100	QPSK	270	0	21.58	21.52	21.47		
100	16QAM	1	1	21.37	21.48	21.33	22.5	1.0
100	16QAM	1	1	20.08	20.03	19.94	21.0	2.5
100	256QAM	1	1	18.07	17.94	18.10	19.0	4.5
Channel				64868	65000	66334		
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.37	22.50	22.35	23.5	0.0
Channel				649334	65000	66268		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.38	22.42	22.38	23.5	0.0
Channel				649000	65000	66300		
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.43	22.38	22.40	23.5	0.0
Channel				64868	65000	66334		
Frequency (MHz)				3740.02	3840	3930.01		
60	QPSK	1	1	22.45	22.40	22.38	23.5	0.0
Channel				648334	65000	66368		
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.40	22.43	22.37	23.5	0.0
Channel				64868	65000	66300		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.36	22.49	22.41	23.5	0.0
Channel				64768	65000	66434		
Frequency (MHz)				3715.02	3840	3950.01		
30	QPSK	1	1	22.42	22.38	22.35	23.5	0.0
Channel				647500	65000	664500		
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.43	22.42	22.33	23.5	0.0
Channel				647334	65000	66468		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.34	22.43	22.34	23.5	0.0
Channel				647168				



Part270 n78 Ant 7 EC14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	22.40	22.48		24.0	0.0	
100	PI2 BPSK	1	271	22.52	22.52				
100	PI2 BPSK	135	0	22.08	22.08		23.5	0.5	
100	PI2 BPSK	135	69	22.51	22.51		24.0	0.0	
100	PI2 BPSK	135	138	22.05	22.05		23.0	0.5	
100	PI2 BPSK	270	0	21.84	21.84				
100	QPSK	1	1	22.84	22.84		24.0	0.0	
100	QPSK	1	137	22.38	22.38				
100	QPSK	1	271	22.43	22.43				
100	QPSK	135	0	21.82	21.82		23.0	1.0	
100	QPSK	135	69	22.48	22.48		24.0	0.0	
100	QPSK	135	138	21.43	21.43		23.0	1.0	
100	QPSK	270	0	21.82	21.82				
100	16QAM	1	1	21.50	21.50		23.0	1.0	
100	64QAM	1	1	19.99	19.99		21.5	2.5	
100	256QAM	1	1	18.02	18.02		19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.34	22.43	22.40	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.30	22.41	22.39	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.33	22.43	22.42	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.44	22.49	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.34	22.51	22.39	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.37	22.49	22.36	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65234	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.35	22.52	22.37	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	64734	65000	65268	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.34	22.51	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.43	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64718	65000	65284	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.36	22.48	22.38	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.38	22.43	22.46	24.0	0.0	

Part270 n78 other PA Ant 7 EC14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	19.81	19.81		20.5	0.0	
100	PI2 BPSK	1	271	19.88	19.88				
100	PI2 BPSK	135	0	19.24	19.24		20.0	0.5	
100	PI2 BPSK	135	69	19.70	19.70		20.5	0.0	
100	PI2 BPSK	135	138	19.25	19.25		20.0	0.5	
100	PI2 BPSK	270	0	19.23	19.23				
100	QPSK	1	1	19.82	19.82		20.5	0.0	
100	QPSK	1	137	19.79	19.79				
100	QPSK	1	271	19.76	19.76				
100	QPSK	135	0	18.78	18.78		19.5	1.0	
100	QPSK	135	69	19.22	19.22		20.5	0.0	
100	QPSK	135	138	18.77	18.77		19.5	1.0	
100	QPSK	270	0	18.79	18.79				
100	16QAM	1	1	18.74	18.74		19.5	1.0	
100	64QAM	1	1	17.34	17.34		18.0	2.5	
100	256QAM	1	1	15.19	15.19		18.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.72	19.77	19.74	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.83	19.80	19.89	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.64	19.69	19.68	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.87	19.75	19.70	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.75	19.73	19.69	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.66	19.78	19.69	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65234	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.86	19.78	19.68	20.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	64734	65000	65268	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.67	19.74	19.68	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.84	19.74	19.68	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64718	65000	65284	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.68	19.69	19.73	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.84	19.79	19.75	20.5	0.0	

Part270 n78 other PA HPUE Ant 7 EC14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	22.28	22.28		23.5	0.0	
100	PI2 BPSK	1	271	22.44	22.44				
100	PI2 BPSK	135	0	21.91	21.91		23.0	0.5	
100	PI2 BPSK	135	69	22.40	22.40		23.5	0.0	
100	PI2 BPSK	135	138	21.97	21.97		23.0	0.5	
100	PI2 BPSK	270	0	21.80	21.80				
100	QPSK	1	1	22.48	22.48		23.5	0.0	
100	QPSK	1	137	22.26	22.26				
100	QPSK	1	271	22.28	22.28				
100	QPSK	135	0	21.52	21.52		22.5	1.0	
100	QPSK	135	69	22.32	22.32		23.5	0.0	
100	QPSK	135	138	21.32	21.32		22.5	1.0	
100	QPSK	270	0	21.46	21.46				
100	16QAM	1	1	21.38	21.38		22.5	1.0	
100	64QAM	1	1	19.89	19.89		21.0	2.5	
100	256QAM	1	1	17.91	17.91		19.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.19	22.34	22.23	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.17	22.35	22.29	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.24	22.29	22.23	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.25	22.28	22.25	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit (dBm)	MPR	
Channel									



Part270 n77 PC2&PC3 Ant 9 EC14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.35	21.40	21.24			
100	PI2 BPSK	1	137	21.35	21.37	21.26	22.6	0.0	
100	PI2 BPSK	1	271	21.27	21.33	21.20			
100	PI2 BPSK	135	0	21.30	21.38	21.34	22.6	0.0	
100	PI2 BPSK	135	69	21.36	21.37	21.32	22.6	0.0	
100	PI2 BPSK	135	138	21.27	21.35	21.32	22.6	0.0	
100	PI2 BPSK	270	0	21.31	21.34	21.33			
100	QPSK	1	1	21.37	21.45	21.36			
100	QPSK	1	137	21.36	21.32	21.28	22.6	0.0	
100	QPSK	1	271	21.28	21.35	21.29			
100	QPSK	135	0	21.30	21.30	21.29	22.6	0.0	
100	QPSK	135	69	21.33	21.44	21.34	22.6	0.0	
100	QPSK	135	138	21.32	21.34	21.24	22.6	0.0	
100	QPSK	270	0	21.28	21.32	21.31			
100	16QAM	1	1	21.32	21.26	21.26	22.6	0.0	
100	16QAM	1	1	21.36	21.40	21.34	22.6	0.0	
100	256QAM	1	1	21.30	21.38	21.33	22.5	0.1	
Channel				648968	650000	652334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.32	21.39	21.26	22.6	0.0	
Channel				649334	650000	652668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.32	21.43	21.33	22.6	0.0	
Channel				649000	650000	653000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.28	21.38	21.28	22.6	0.0	
Channel				648668	650000	653334			
Frequency (MHz)				3730.02	3840	3950.03			
60	QPSK	1	1	21.31	21.36	21.34	22.6	0.0	
Channel				648334	650000	653668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.27	21.43	21.26	22.6	0.0	
Channel				648000	650000	654000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.30	21.43	21.25	22.6	0.0	
Channel				647668	650000	654334			
Frequency (MHz)				3715.02	3840	3965.03			
30	QPSK	1	1	21.25	21.44	21.25	22.6	0.0	
Channel				647500	650000	654500			
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	21.35	21.39	21.24	22.6	0.0	
Channel				647334	650000	654668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.30	21.33	21.32	22.6	0.0	
Channel				647168	650000	654834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.31	21.43	21.26	22.6	0.0	
Channel				647000	650000	655000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.28	21.37	21.36	22.6	0.0	

Part270 n78 PC2&PC3 Ant 9 EC14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)				3750	3760	3760			
100	PI2 BPSK	1	1		21.33				
100	PI2 BPSK	1	137		21.29		22.6	0.0	
100	PI2 BPSK	1	271		21.28				
100	PI2 BPSK	135	0		21.27		22.6	0.0	
100	PI2 BPSK	135	69		21.33		22.6	0.0	
100	PI2 BPSK	135	138		21.31		22.6	0.0	
100	PI2 BPSK	270	0		21.33				
100	QPSK	1	1		21.37				
100	QPSK	1	137		21.33		22.6	0.0	
100	QPSK	1	271		21.34				
100	QPSK	135	0		21.32		22.6	0.0	
100	QPSK	135	69		21.35		22.6	0.0	
100	QPSK	135	138		21.23		22.6	0.0	
100	QPSK	270	0		21.34				
100	16QAM	1	1		21.30		22.6	0.0	
100	16QAM	1	1		21.31		22.6	0.0	
100	256QAM	1	1		21.28		22.5	0.1	
Channel				648968	650000	650334			
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	21.27	21.32	21.31	22.6	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3760	3767.02			
80	QPSK	1	1	21.32	21.35	21.29	22.6	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	21.30	21.29	21.30	22.6	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	21.26	21.36	21.36	22.6	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	21.32	21.34	21.26	22.6	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	21.23	21.31	21.29	22.6	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3760	3785.03			
30	QPSK	1	1	21.30	21.35	21.29	22.6	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	21.33	21.30	21.29	22.6	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	21.30	21.28	21.30	22.6	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	21.28	21.29	21.32	22.6	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	21.29	21.33	21.30	22.6	0.0	



Reduced Power Mode for ECI 6

n5 Ant 0 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166600	167300	167600			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	22.50	22.64	22.55			
20	PI/2 BPSK	1	53	22.56	22.59	22.56	24.0	0.0	
20	PI/2 BPSK	1	104	22.53	22.64	22.50			
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5	0.5	
20	PI/2 BPSK	50	28	22.46	22.57	22.54	24.0	0.0	
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5	
20	PI/2 BPSK	100	0	22.07	22.19	22.06			
20	QPSK	1	1	22.63	22.65	22.61			
20	QPSK	1	53	22.50	22.61	22.59	24.0	0.0	
20	QPSK	1	104	22.62	22.64	22.58			
20	QPSK	50	0	21.53	21.57	21.47	23.0	1.0	
20	QPSK	50	28	22.54	22.57	22.48	24.0	0.0	
20	QPSK	50	56	21.50	21.58	21.52	23.0	1.0	
20	QPSK	100	0	21.50	21.59	21.57			
20	16QAM	1	1	21.21	21.33	21.20	23.0	1.0	
20	64QAM	1	1	19.77	19.87	19.77	21.5	2.5	
20	256QAM	1	1	18.41	18.47	18.44	19.5	4.5	
Channel				166300	167000	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	834.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.56	22.62	22.49	24.0	0.0	
Channel				165800	167000	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.53	22.63	22.61	24.0	0.0	
Channel				165300	167000	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.58	22.62	22.55	24.0	0.0	

n26 Ant 0 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164500	166300	167600			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	22.90	22.91	22.89			
20	PI/2 BPSK	1	53	22.87	22.88	22.84	24.0	0.0	
20	PI/2 BPSK	1	104	22.81	22.88	22.82			
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5	0.5	
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0	0.0	
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5	
20	PI/2 BPSK	100	0	22.44	22.48	22.47			
20	QPSK	1	1	22.94	22.96	22.93			
20	QPSK	1	53	22.87	22.84	22.86	24.0	0.0	
20	QPSK	1	104	22.85	22.91	22.86			
20	QPSK	50	0	21.98	21.92	21.84	23.0	1.0	
20	QPSK	50	28	22.86	22.89	22.84	24.0	0.0	
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0	
20	QPSK	100	0	21.88	21.93	21.90			
20	16QAM	1	1	21.68	21.70	21.67	23.0	1.0	
20	64QAM	1	1	20.26	20.28	20.24	21.5	2.5	
20	256QAM	1	1	18.84	18.89	18.82	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.92	22.95	22.86	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				819	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0	
Channel				163300	166300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0	



n2 Ant 1 ECI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	22.43	22.64	22.49		
40	PI2 BPSK	1	108	22.54	22.59	22.49	24.0	0.0
40	PI2 BPSK	1	214	22.46	22.57	22.51		
40	PI2 BPSK	108	0	21.86	21.71	21.70	23.5	0.5
40	PI2 BPSK	108	54	22.73	22.75	22.70	24.0	0.0
40	PI2 BPSK	108	108	22.22	22.26	22.18	23.5	0.5
40	PI2 BPSK	216	0	22.24	22.28	22.21		
40	QPSK	1	1	22.72	22.78	22.75		
40	QPSK	1	108	22.55	22.84	22.51	24.0	0.0
40	QPSK	1	214	22.44	22.86	22.49		
40	QPSK	108	0	21.77	21.79	21.74	23.0	1.0
40	QPSK	108	54	22.72	22.77	22.74	24.0	0.0
40	QPSK	108	108	21.73	21.76	21.71	23.0	1.0
40	QPSK	216	0	21.75	21.80	21.76		
40	16QAM	1	1	21.38	21.43	21.41	23.0	1.0
40	64QAM	1	1	19.94	19.98	19.96	21.5	2.5
40	256QAM	1	1	18.52	18.80	18.58	19.5	4.5
Channel				376500	376000	376500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1892.5		
35	QPSK	1	1	22.68	22.85	22.63	24.0	0.0
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1895	1890	1895		
30	QPSK	1	1	22.59	22.67	22.67	24.0	0.0
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1897.5		
25	QPSK	1	1	22.48	22.61	22.53	24.0	0.0
Channel				374000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	1	22.46	22.63	22.46	24.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.48	22.80	22.47	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.52	22.62	22.54	24.0	0.0
Channel				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1822.5	1880	1907.5		
5	QPSK	1	1	22.54	22.62	22.47	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2625	2635	2645		
50	PI2 BPSK	1	1	21.82	21.94	21.88		
50	PI2 BPSK	1	135	21.84	21.86	21.77	22.9	0.0
50	PI2 BPSK	1	268	21.76	21.87	21.87		
50	PI2 BPSK	135	0	21.95	22.06	22.04	22.9	0.0
50	PI2 BPSK	135	68	21.97	21.99	21.92	22.9	0.0
50	PI2 BPSK	135	135	21.95	22.05	21.97	22.9	0.0
50	PI2 BPSK	270	0	22.00	22.04	22.01		
50	QPSK	1	1	22.04	22.12	22.04		
50	QPSK	1	135	21.87	21.88	21.84	22.9	0.0
50	QPSK	1	268	21.85	21.91	21.82		
50	QPSK	135	0	21.45	21.58	21.50	22.9	0.0
50	QPSK	135	68	21.95	22.01	21.98	22.9	0.0
50	QPSK	135	135	21.44	21.57	21.47	22.9	0.0
50	QPSK	270	0	21.80	21.85	21.83		
50	16QAM	1	1	21.08	21.14	21.11	22.9	0.0
50	64QAM	1	1	19.70	19.75	19.74	21.5	1.4
50	256QAM	1	1	18.28	18.35	18.30	19.5	3.4
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2620	2635	2650		
40	QPSK	1	1	22.03	22.07	22.01	22.9	0.0
Channel				503000	507000	510500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2617.5	2633	2652.5		
35	QPSK	1	1	22.01	22.03	21.94	22.9	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2615	2635	2655		
30	QPSK	1	1	22.02	22.08	22.03	22.9	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2612.5	2635	2657.5		
25	QPSK	1	1	22.01	22.09	22.03	22.9	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610	2635	2650		
20	PI2 BPSK	1	1	21.84	22.07	21.85	22.9	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2607.5	2635	2662.5		
15	QPSK	1	1	22.01	22.08	22.02	22.9	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2605	2635	2660		
10	QPSK	1	1	21.97	22.08	22.00	22.9	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2602.5	2635	2667.5		
5	QPSK	1	1	21.98	22.08	21.92	22.9	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	22.61	22.71	22.72		
45	PI2 BPSK	1	120	22.60	22.62	22.61	24.0	0.0
45	PI2 BPSK	1	240	22.53	22.70	22.68		
45	PI2 BPSK	120	0	22.21	22.35	22.31	23.5	0.5
45	PI2 BPSK	120	60	22.71	22.79	22.76	24.0	0.0
45	PI2 BPSK	120	120	22.23	22.28	22.26	23.5	0.5
45	PI2 BPSK	240	0	22.25	22.34	22.28		
45	QPSK	1	1	22.71	22.85	22.72		
45	QPSK	1	120	22.81	22.88	22.85	24.0	0.0
45	QPSK	1	240	22.58	22.72	22.88		
45	QPSK	120	0	21.89	21.82	21.80	23.0	1.0
45	QPSK	120	60	22.74	22.80	22.77	24.0	0.0
45	QPSK	120	120	21.80	21.81	21.78	23.0	1.0
45	QPSK	240	0	21.80	21.85	21.82		
45	16QAM	1	1	21.44	21.50	21.48	23.0	1.0
45	64QAM	1	1	19.88	20.03	20.00	21.5	2.5
45	256QAM	1	1	18.59	18.65	18.82	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	22.80	22.80	22.59	24.0	0.0
Channel				345000	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	22.81	22.83	22.84	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.59	22.74	22.63	24.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.58	22.74	22.72	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.82	22.70	22.86	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	22.84	22.67	22.72	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.58	22.67	22.65	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	22.52	22.67	22.69	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	19.53	19.55	19.52		
40	PI2 BPSK	1	108	19.52	19.55	19.51		0.0
40	PI2 BPSK	1	214	19.46	19.59	19.58		
40	PI2 BPSK	108	0	19.51	19.55	19.55	20.6	0.0
40	PI2 BPSK	108	54	19.41	19.50	19.49	20.6	0.0
40	PI2 BPSK	108	108	19.60	19.61	19.49	20.6	0.0
40	PI2 BPSK	216	0	19.52	19.55	19.58		
40	QPSK	1	1	19.56	19.57	19.51		
40	QPSK	1	108	19.51	19.58	19.49	20.6	0.0
40	QPSK	1	214	19.56	19.56	19.54		
40	QPSK	108	0	19.56	19.57	19.52	20.6	0.0
40	QPSK	108	54	19.46	19.59	19.55	20.6	0.0
40	QPSK	108	108	19.55	19.56	19.52	20.6	0.0
40	QPSK	216	0	19.50	19.57	19.54		
40	16QAM	1	1	19.53	19.50	19.50	20.6	0.0
40	16QAM	1	1	19.52	19.60	19.52	20.6	0.0
40	256QAM	1	1	17.87	18.03	17.89	19.5	1.1
Channel								
Frequency (MHz)				373500	376000	379000	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	19.52	19.59	19.50	20.6	0.0
Channel								
Frequency (MHz)				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.49	19.50	19.41	20.6	0.0
Channel								
Frequency (MHz)				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	19.56	19.50	19.41	20.6	0.0
Channel								
Frequency (MHz)				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.49	19.57	19.41	20.6	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.58	19.50	19.40	20.6	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.55	19.59	19.43	20.6	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.51	19.60	19.43	20.6	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	22.63	22.67	22.61		
20	PI2 BPSK	1	53	22.58	22.65	22.60	24.0	0.0
20	PI2 BPSK	1	104	22.58	22.63	22.57		
20	PI2 BPSK	50	0	21.94	22.08	22.02	23.5	0.5
20	PI2 BPSK	50	28	22.38	22.49	22.44	24.0	0.0
20	PI2 BPSK	50	56	21.99	22.09	21.95	23.5	0.5
20	PI2 BPSK	100	0	22.08	22.10	22.06		
20	QPSK	1	1	22.64	22.68	22.62		
20	QPSK	1	53	22.64	22.66	22.60	24.0	0.0
20	QPSK	1	104	22.64	22.67	22.60		
20	QPSK	50	0	21.42	21.56	21.47	23.0	1.0
20	QPSK	50	28	22.45	22.55	22.53	24.0	0.0
20	QPSK	50	56	21.40	21.53	21.48	23.0	1.0
20	QPSK	100	0	21.52	21.55	21.52		
20	16QAM	1	1	21.33	21.43	21.35	23.0	1.0
20	16QAM	1	1	19.93	19.96	19.91	21.5	2.5
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.65	22.68	22.61	24.0	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.62	22.63	22.59	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	19.32	19.42	19.30		
50	PI2 BPSK	1	135	19.39	19.46	19.30	20.3	0.0
50	PI2 BPSK	1	268	19.20	19.39	19.30		
50	PI2 BPSK	135	0	19.33	19.43	19.35	20.3	0.0
50	PI2 BPSK	135	68	19.30	19.44	19.42	20.3	0.0
50	PI2 BPSK	135	135	19.33	19.41	19.39	20.3	0.0
50	PI2 BPSK	270	0	19.42	19.47	19.41		
50	QPSK	1	1	19.38	19.50	19.43		
50	QPSK	1	135	19.38	19.48	19.38	20.3	0.0
50	QPSK	1	268	19.32	19.49	19.39		
50	QPSK	135	0	19.33	19.43	19.37	20.3	0.0
50	QPSK	135	68	19.41	19.48	19.47	20.3	0.0
50	QPSK	135	135	19.39	19.42	19.40	20.3	0.0
50	QPSK	270	0	19.42	19.43	19.40		
50	16QAM	1	1	19.08	19.08	19.14	20.3	0.0
50	16QAM	1	1	19.12	19.17	19.15	20.3	0.0
50	256QAM	1	1	17.70	17.78	17.72	18.5	1.8
Channel								
Frequency (MHz)				2520	2535	2550	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.28	19.39	19.33	20.3	0.0
Channel								
Frequency (MHz)				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	19.32	19.44	19.34	20.3	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.26	19.46	19.38	20.3	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	19.30	19.45	19.41	20.3	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	19.28	19.49	19.33	20.3	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.28	19.48	19.32	20.3	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.38	19.49	19.32	20.3	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.35	19.49	19.36	20.3	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				168300	169300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	24.0	0.0
20	PI2 BPSK	1	104	22.77	22.84	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.71	22.87	24.0	0.0
20	PI2 BPSK	50	56	22.16	22.26	22.22	23.5	0.5
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81	24.0	0.0
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	23.0	1.0
20	QPSK	50	28	22.81	22.70	22.66	24.0	0.0
20	QPSK	50	56	21.80	21.74	21.68	23.0	1.0
20	QPSK	100	0	21.72	21.75	21.74		
20	16QAM	1	1	21.48	21.53	21.49	23.0	1.0
20	64QAM	1	1	20.04	20.10	20.07	21.5	2.5
20	256QAM	1	1	18.81	18.70	18.65	19.5	4.5
Channel				168300	169300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.74	22.79	22.78	24.0	0.0
Channel				163300	166300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	345500		
Frequency (MHz)				1727.5	1745	1757.5		
45	PI2 BPSK	1	1	20.91	20.96	20.93		
45	PI2 BPSK	1	120	20.90	20.95	20.93	21.8	0.0
45	PI2 BPSK	1	240	20.90	20.95	20.92		
45	PI2 BPSK	120	0	20.88	20.92	20.83	21.8	0.0
45	PI2 BPSK	120	60	20.85	20.89	20.81	21.8	0.0
45	PI2 BPSK	120	120	20.85	20.91	20.83	21.8	0.0
45	PI2 BPSK	240	0	20.92	20.95	20.93		
45	QPSK	1	1	20.90	20.96	20.85		
45	QPSK	1	120	20.95	20.97	20.84	21.8	0.0
45	QPSK	1	240	20.95	20.96	20.95		
45	QPSK	120	0	20.85	20.94	20.88	21.8	0.0
45	QPSK	120	60	20.96	20.87	20.92	21.8	0.0
45	QPSK	120	120	20.86	20.96	20.86	21.8	0.0
45	QPSK	240	0	20.92	20.95	20.91		
45	16QAM	1	1	20.70	20.74	20.65	21.8	0.0
45	64QAM	1	1	19.68	19.74	19.72	21.5	0.3
45	256QAM	1	1	18.02	18.05	18.00	19.5	2.3
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	20.85	20.95	20.89	24.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	20.89	20.92	20.89	24.0	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.89	20.92	20.85	21.8	0.0
Channel				344500	349000	344500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	20.89	20.91	20.88	21.8	0.0
Channel				344000	349000	344000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.88	20.90	20.83	21.8	0.0
Channel				343500	349000	343500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.87	20.87	20.92	21.8	0.0
Channel				343000	349000	343000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.90	20.88	20.85	21.8	0.0
Channel				342500	349000	342500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.84	20.92	20.91	21.8	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2590.02	2595	2599.98			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09			
40	PI/2 BPSK	50	0	20.55	20.88	20.81	21.5	0.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	50	56	20.48	20.88	20.58	21.5	0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.05	20.12	20.05	21.0	1.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	80	56	20.04	20.14	20.14	21.0	1.0	
40	QPSK	100	0	20.08	20.13	20.10			
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0	
40	16QAM	1	1	18.07	18.10	18.07	19.5	2.5	
40	256QAM	1	1	18.76	18.82	18.71	17.5	4.5	
Channel				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5170.02	5190.00	5209.98			
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				5165.04	5190.00	5214.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5165.04	5190.00	5214.98			
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				5160.00	5190.00	5220.00	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5160.00	5190.00	5220.00			
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				5155.02	5190.00	5224.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5155.02	5190.00	5224.98			
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				5150.04	5190.00	5229.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5150.04	5190.00	5229.98			
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72	21.5	0.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.65			
100	QPSK	1	1	21.16	21.28	21.22			
100	QPSK	1	137	21.15	21.27	21.14	22.0	0.0	
100	QPSK	1	271	21.17	21.28	21.21			
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0	
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0	
100	QPSK	135	138	20.19	20.22	20.21	21.0	1.0	
100	QPSK	270	0	20.22	20.29	20.25			
100	16QAM	1	1	19.88	19.74	19.71	21.0	1.0	
100	16QAM	1	1	18.21	18.27	18.24	19.5	2.5	
100	256QAM	1	1	18.87	18.91	18.88	17.5	4.5	
Channel				5063.00	5185.98	5298.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5063.00	5185.98	5298.98			
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0	
Channel				5072.04	5185.98	5298.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5072.04	5185.98	5298.98			
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0	
Channel				5062.02	5185.98	5310.00	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5062.02	5185.98	5310.00			
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0	
Channel				5052.00	5185.98	5319.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5052.00	5185.98	5319.98			
60	QPSK	1	1	21.14	21.28	21.14	22.0	0.0	
Channel				5042.04	5185.98	5329.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5042.04	5185.98	5329.98			
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0	
Channel				5032.00	5185.98	5334.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5032.00	5185.98	5334.98			
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0	
Channel				5032.02	5185.98	5340.00	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5032.02	5185.98	5340.00			
40	QPSK	1	1	21.15	21.21	21.20	22.0	0.0	
Channel				5027.04	5185.98	5344.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5027.04	5185.98	5344.98			
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0	
Channel				5022.00	5185.98	5349.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5022.00	5185.98	5349.98			
30	QPSK	1	1	21.15	21.24	21.14	22.0	0.0	
Channel				5017.02	5185.98	5355.00	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5017.02	5185.98	5355.00			
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0	
Channel				5012.04	5185.98	5359.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5012.04	5185.98	5359.98			
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0	
Channel				5007.00	5185.98	5364.98	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5007.00	5185.98	5364.98			
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0	
Channel				5002.02	5185.98	5370.00	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				5002.02	5185.98	5370.00			
10	QPSK	1	1	21.08	21.19	21.20	22.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519500	519696		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	20.99	21.10	21.01		
40	Pl/2 BPSK	1	53	20.96	21.02	21.09	22.3	0.0
40	Pl/2 BPSK	1	104	20.96	21.03	21.07		
40	Pl/2 BPSK	50	0	21.11	21.18	21.11	22.3	0.0
40	Pl/2 BPSK	50	28	21.06	21.08	21.03	22.3	0.0
40	Pl/2 BPSK	50	56	21.02	21.20	21.18	22.3	0.0
40	Pl/2 BPSK	100	0	21.16	21.17	21.15		
40	QPSK	1	1	21.05	21.20	21.07		
40	QPSK	1	53	21.07	21.08	21.11	22.3	0.0
40	QPSK	1	104	21.02	21.07	20.99		
40	QPSK	50	0	21.11	21.16	21.14	22.3	0.0
40	QPSK	50	28	21.17	21.22	21.08	22.3	0.0
40	QPSK	50	56	21.20	21.15	21.05	22.3	0.0
40	QPSK	100	0	21.06	21.18	21.15		
40	16QAM	1	1	20.91	20.88	20.93	22.3	0.0
40	16QAM	1	1	19.81	19.89	19.88	21.5	0.8
40	256QAM	1	1	18.46	18.53	18.50	19.5	2.8
Channel				517002	516900	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2585	2604.99		
30	QPSK	1	1	21.02	21.20	20.98	22.3	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	21.00	21.19	21.02	22.3	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	21.00	21.22	20.97	22.3	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.04	21.21	20.96	22.3	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.04	21.25	21.00	22.3	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526202	518998	526200		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	21.05	21.23	21.06		
100	Pl/2 BPSK	1	137	21.05	21.21	20.85	22.3	0.0
100	Pl/2 BPSK	1	271	21.07	21.28	21.03		
100	Pl/2 BPSK	135	0	21.04	21.28	21.11	22.3	0.0
100	Pl/2 BPSK	135	69	21.05	21.27	21.00	22.3	0.0
100	Pl/2 BPSK	135	138	21.09	21.29	21.10	22.3	0.0
100	Pl/2 BPSK	270	0	21.13	21.38	21.05		
100	QPSK	1	1	21.18	21.30	21.14		
100	QPSK	1	137	21.11	21.33	20.99	22.3	0.0
100	QPSK	1	271	20.98	21.27	21.10		
100	QPSK	135	0	21.05	21.28	21.05	22.3	0.0
100	QPSK	135	69	21.13	21.38	21.17	22.3	0.0
100	QPSK	135	138	21.10	21.33	21.06		
100	QPSK	270	0	21.18	21.32	21.16	22.3	0.0
100	16QAM	1	1	21.08	21.09	21.05	22.3	0.0
100	16QAM	1	1	19.82	19.93	19.88	21.5	0.8
100	256QAM	1	1	18.50	18.59	18.51	19.5	2.8
Channel				526200	518998	526198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	21.12	21.35	21.12	22.3	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	21.14	21.27	21.12	22.3	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.08	21.32	21.09	22.3	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	21.16	21.28	21.10	22.3	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.16	21.33	21.10	22.3	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2667.49		
45	QPSK	1	1	21.16	21.34	21.06	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	21.13	21.33	21.05	22.3	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	21.06	21.27	21.02	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.10	21.30	21.13	22.3	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	21.13	21.33	21.08	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.12	21.34	21.10	22.3	0.0
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	21.12	21.27	21.11	22.3	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	21.06	21.38	21.03	22.3	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98		
Frequency (MHz)				519304	519300	519696		
40	PI/2 BPSK	1	1	18.40	18.43	18.22		
40	PI/2 BPSK	1	53	18.38	18.46	18.26	19.5	0.0
40	PI/2 BPSK	1	104	18.38	18.40	18.35		
40	PI/2 BPSK	50	0	18.32	18.38	18.20	19.5	0.0
40	PI/2 BPSK	50	28	18.27	18.33	18.18	19.5	0.0
40	PI/2 BPSK	50	56	18.23	18.39	18.27	19.5	0.0
40	PI/2 BPSK	100	0	18.22	18.39	18.21		
40	QPSK	1	1	18.38	18.51	18.25		
40	QPSK	1	53	18.46	18.48	18.26	19.5	0.0
40	QPSK	1	104	18.30	18.45	18.23		
40	QPSK	50	0	17.79	17.82	17.57	19.0	0.5
40	QPSK	50	28	18.26	18.29	18.25	19.5	0.0
40	QPSK	80	56	17.82	17.82	17.75		
40	QPSK	100	0	17.83	17.84	17.84	19.0	0.5
40	16QAM	1	1	17.78	17.78	17.79	19.0	0.5
40	16QAM	1	1	18.38	18.37	18.26	17.5	2.0
40	256QAM	1	1	14.78	14.99	14.71	15.5	4.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	18.44	18.34	18.18	19.5	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	18.43	18.41	18.23	19.5	0.0
Channel				516000	519000	523000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.44	18.42	18.23	19.5	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2577.51	2595	2614.99		
15	QPSK	1	1	18.41	18.44	18.17	19.5	0.0
Channel				515004	519000	525996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	18.44	18.38	18.16	19.5	0.0

n41 Ant 2 ECI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640		
Frequency (MHz)				5246.01	5292.99	5290		
100	PI/2 BPSK	1	1	18.47	18.52	18.35		
100	PI/2 BPSK	1	137	18.50	18.55	18.39	19.5	0.0
100	PI/2 BPSK	1	271	18.45	18.52	18.43		
100	PI/2 BPSK	135	0	18.40	18.47	18.33	19.5	0.0
100	PI/2 BPSK	135	69	18.39	18.45	18.29	19.5	0.0
100	PI/2 BPSK	135	138	18.36	18.49	18.37	19.5	0.0
100	PI/2 BPSK	270	0	18.37	18.46	18.35		
100	QPSK	1	1	18.54	18.58	18.38		
100	QPSK	1	137	18.53	18.58	18.34	19.5	0.0
100	QPSK	1	271	18.47	18.55	18.38		
100	QPSK	135	0	17.87	18.00	17.75	19.0	0.5
100	QPSK	135	69	18.37	18.43	18.35	19.5	0.0
100	QPSK	135	138	17.94	17.85	17.83		
100	QPSK	270	0	18.00	18.08	18.01	19.0	0.5
100	16QAM	1	1	17.91	17.95	17.86	19.0	0.5
100	16QAM	1	1	18.44	18.46	18.40	17.5	2.0
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.0
Channel				509200	518598	528998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	18.54	18.51	18.29	19.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.45	18.48	18.21	19.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.44	18.48	18.38	19.5	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	18.44	18.52	18.34	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.53	18.47	18.28	19.5	0.0
Channel				503200	518598	533998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2518.5	2592.99	2667.48		
45	QPSK	1	1	18.52	18.54	18.28	20.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	18.44	18.50	18.31	19.5	0.0
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	18.54	18.56	18.32	20.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.43	18.58	18.33	19.5	0.0
Channel				501702	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	18.42	18.58	18.28	20.0	0.0
Channel				501204	518598	536498	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.43	18.48	18.28	19.5	0.0
Channel				500700	518598	536998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2503.5	2592.99	2682.43		
15	QPSK	1	1	18.45	18.48	18.29	19.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.52	18.48	18.36	19.5	0.0



Part270 n77 PC2&PC3 Ant 3 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				19.90	19.95	19.98			
100	PI2 BPSK	1	1	19.90	19.95	19.98			
100	PI2 BPSK	1	137	19.92	19.94	19.90	21.0	0.0	
100	PI2 BPSK	1	271	19.96	19.95	19.92			
100	PI2 BPSK	135	0	19.87	19.99	19.91	21.0	0.0	
100	PI2 BPSK	135	69	19.93	19.93	19.82	21.0	0.0	
100	PI2 BPSK	135	138	19.90	19.98	19.93	21.0	0.0	
100	PI2 BPSK	270	0	19.92	19.93	19.95			
100	QPSK	1	1	20.00	20.01	19.99			
100	QPSK	1	137	20.00	20.00	19.94	21.0	0.0	
100	QPSK	1	271	19.98	20.00	19.67			
100	QPSK	135	0	19.92	19.94	19.93	21.0	0.0	
100	QPSK	135	69	19.93	19.95	19.89	21.0	0.0	
100	QPSK	135	138	19.89	19.90	19.89	21.0	0.0	
100	QPSK	270	0	19.91	19.94	19.88			
100	16QAM	1	1	19.73	19.81	19.71	21.0	0.0	
100	16QAM	1	1	19.85	19.89	19.86	21.0	0.0	
100	256QAM	1	1	19.86	19.90	19.86	21.0	0.0	
Channel				648968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.95	20.00	19.67	21.0	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.90	19.90	19.55	21.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.98	19.94	19.69	21.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.03			
60	QPSK	1	1	19.93	19.94	19.66	21.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.93	19.92	19.68	21.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.92	19.92	19.65	21.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.93	19.94	19.63	21.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	19.94	19.92	19.62	21.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.96	20.00	19.62	21.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	19.89	19.93	19.69	21.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	19.92	19.98	19.69	21.0	0.0	

Part270 n78 PC2&PC3 Ant 3 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)				19.87					
100	PI2 BPSK	1	1	19.87					
100	PI2 BPSK	1	137	19.86			21.0	0.0	
100	PI2 BPSK	1	271	19.87					
100	PI2 BPSK	135	0	19.90			21.0	0.0	
100	PI2 BPSK	135	69	19.88			21.0	0.0	
100	PI2 BPSK	135	138	19.82			21.0	0.0	
100	PI2 BPSK	270	0	19.87					
100	QPSK	1	1	19.88					
100	QPSK	1	137	19.92			21.0	0.0	
100	QPSK	1	271	19.85					
100	QPSK	135	0	19.81			21.0	0.0	
100	QPSK	135	69	19.84			21.0	0.0	
100	QPSK	135	138	19.85			21.0	0.0	
100	QPSK	270	0	19.89					
100	16QAM	1	1	19.73			21.0	0.0	
100	16QAM	1	1	19.71			21.0	0.0	
100	256QAM	1	1	19.71			21.0	0.0	
Channel				648968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	19.81	19.93	19.86	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	19.85	19.89	19.77	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	19.79	19.90	19.87	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	19.81	19.88	19.83	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	19.84	19.87	19.88	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	19.82	19.89	19.80	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	19.83	19.85	19.81	21.0	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	19.87	19.88	19.86	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	19.88	19.91	19.90	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	19.78	19.86	19.92	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	19.86	19.88	19.92	21.0	0.0	



n38 Ant 4 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2590.02	2595	2599.98			
Frequency (MHz)				519304	519300	519296			
40	PI/2 BPSK	1	1	19.12	19.25	19.20			
40	PI/2 BPSK	1	53	19.01	19.13	19.15	20.5	0.0	
40	PI/2 BPSK	1	104	19.04	19.15	19.01			
40	PI/2 BPSK	50	0	19.08	19.20	19.12	20.5	0.0	
40	PI/2 BPSK	50	28	19.00	19.17	19.14	20.5	0.0	
40	PI/2 BPSK	50	56	19.18	19.24	19.16	20.5	0.0	
40	PI/2 BPSK	100	0	19.17	19.17	19.15			
40	QPSK	1	1	19.25	19.31	19.27			
40	QPSK	1	53	19.04	19.13	19.11	20.5	0.0	
40	QPSK	1	104	19.10	19.19	19.12			
40	QPSK	50	0	19.14	19.18	19.13	20.5	0.0	
40	QPSK	50	28	19.22	19.29	19.28	20.5	0.0	
40	QPSK	80	56	19.05	19.25	19.16			
40	QPSK	100	0	19.23	19.28	19.22	20.5	0.0	
40	16QAM	1	1	19.13	19.13	19.14	20.5	0.0	
40	16QAM	1	1	19.24	19.30	19.27	20.5	0.0	
40	256QAM	1	1	18.02	18.10	18.06	19.5	1.0	
Channel				517002	516900	520398	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.20	19.26	19.19	20.5	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48			
25	QPSK	1	1	19.13	19.20	19.16	20.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.24	19.25	19.26	20.5	0.0	
Channel				515502	519000	52498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.21	19.23	19.22	20.5	0.0	
Channel				515004	519000	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.13	19.27	19.21	20.5	0.0	

n41 Ant 4 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
Frequency (MHz)				519202	518988	520000			
100	PI/2 BPSK	1	1	19.15	19.21	19.10			
100	PI/2 BPSK	1	137	19.20	19.21	19.06	20.5	0.0	
100	PI/2 BPSK	1	271	19.15	19.14	19.04			
100	PI/2 BPSK	135	0	19.20	19.34	19.15	20.5	0.0	
100	PI/2 BPSK	135	69	19.18	19.20	19.18	20.5	0.0	
100	PI/2 BPSK	135	138	19.30	19.31	19.28	20.5	0.0	
100	PI/2 BPSK	270	0	19.26	19.30	19.25			
100	QPSK	1	1	19.31	19.35	19.29			
100	QPSK	1	137	19.18	19.32	19.21	20.5	0.0	
100	QPSK	1	271	19.20	19.22	19.18			
100	QPSK	135	0	19.24	19.29	19.23	20.5	0.0	
100	QPSK	135	69	19.32	19.34	19.22	20.5	0.0	
100	QPSK	135	138	19.21	19.27	19.25			
100	QPSK	270	0	19.25	19.32	19.24	20.5	0.0	
100	16QAM	1	1	19.25	19.22	19.26	20.5	0.0	
100	16QAM	1	1	19.32	19.34	19.31	20.5	0.0	
100	256QAM	1	1	18.20	18.24	18.22	19.5	1.0	
Channel				520300	518988	520398	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.99			
90	QPSK	1	1	19.21	19.23	19.21	20.5	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	19.30	19.24	19.18	20.5	0.0	
Channel				530202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2685			
70	QPSK	1	1	19.21	19.24	19.24	20.5	0.0	
Channel				505200	518988	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2678.99			
60	QPSK	1	1	19.24	19.34	19.21	20.5	0.0	
Channel				504204	518988	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2684.99			
50	QPSK	1	1	19.25	19.26	19.20	20.5	0.0	
Channel				503200	518988	533498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2687.49			
45	QPSK	1	1	19.21	19.23	19.29	20.5	0.0	
Channel				503202	518988	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.25	19.22	19.26	20.5	0.0	
Channel				502704	518988	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	19.30	19.28	19.24	20.5	0.0	
Channel				502200	518988	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.28	19.28	19.28	20.5	0.0	
Channel				501702	518988	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	19.20	19.23	19.22	20.5	0.0	
Channel				501204	518988	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.23	19.23	19.28	20.5	0.0	
Channel				500700	518988	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.43			
15	QPSK	1	1	19.23	19.21	19.24	20.5	0.0	
Channel				500202	518988	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.27	19.32	19.21	20.5	0.0	



Part270 n77 Ant 5 PC2&PC3 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				18.90	18.85	18.78			
100	PI2 BPSK	1	1	18.90	18.85	18.78			
100	PI2 BPSK	1	137	18.78	18.82	18.79	20.0	0.0	
100	PI2 BPSK	1	271	18.84	18.86	18.83			
100	PI2 BPSK	135	0	18.82	18.90	18.85	20.0	0.0	
100	PI2 BPSK	135	69	18.82	18.84	18.87	20.0	0.0	
100	PI2 BPSK	135	138	18.91	18.92	18.90	20.0	0.0	
100	PI2 BPSK	270	0	18.95	18.82	18.85			
100	QPSK	1	1	18.90	19.00	18.98			
100	QPSK	1	137	18.81	18.79	18.85	20.0	0.0	
100	QPSK	1	271	18.86	18.79	18.84			
100	QPSK	135	0	18.82	18.91	18.85	20.0	0.0	
100	QPSK	135	69	18.89	18.98	18.86	20.0	0.0	
100	QPSK	135	138	18.88	18.89	18.77	20.0	0.0	
100	QPSK	270	0	18.88	18.94	18.84			
100	16QAM	1	1	18.76	18.91	18.79	20.0	0.0	
100	64QAM	1	1	18.84	18.91	18.80	20.0	0.0	
100	256QAM	1	1	17.93	17.91	17.89	19.5	0.5	
Channel				64998	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.89	18.98	18.85	20.0	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.83	18.90	18.79	20.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.83	18.92	18.84	20.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.81	18.95	18.85	20.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.82	18.82	18.76	20.0	0.0	
Channel				648000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.89	18.95	18.77	20.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.81	18.94	18.83	20.0	0.0	
Channel				647334	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.88	18.94	18.88	20.0	0.0	
Channel				647000	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.78	18.95	18.78	20.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.90	18.95	18.77	20.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.79	18.97	18.80	20.0	0.0	

Part270 n78 Ant 5 PC2&PC3 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)				18.83					
100	PI2 BPSK	1	1	18.83					
100	PI2 BPSK	1	137	18.76			20.0	0.0	
100	PI2 BPSK	1	271	18.80					
100	PI2 BPSK	135	0	18.84			20.0	0.0	
100	PI2 BPSK	135	69	18.76			20.0	0.0	
100	PI2 BPSK	135	138	18.87			20.0	0.0	
100	PI2 BPSK	270	0	18.76					
100	QPSK	1	1	18.88					
100	QPSK	1	137	18.63			20.0	0.0	
100	QPSK	1	271	18.70					
100	QPSK	135	0	18.80			20.0	0.0	
100	QPSK	135	69	18.83			20.0	0.0	
100	QPSK	135	138	18.82			20.0	0.0	
100	QPSK	270	0	18.85					
100	16QAM	1	1	18.87			20.0	0.0	
100	64QAM	1	1	18.84			20.0	0.0	
100	256QAM	1	1	17.77			19.5	0.5	
Channel				64998	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	18.87	18.82	18.84	20.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	18.85	18.87	18.75	20.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	18.60	18.77	18.67	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	18.70	18.78	18.73	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	18.70	18.78	18.74	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	18.82	18.85	18.85	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	18.85	18.78	18.71	20.0	0.0	
Channel				647334	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	18.68	18.86	18.69	20.0	0.0	
Channel				647000	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	18.70	18.79	18.75	20.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	18.67	18.85	18.69	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	18.72	18.84	18.69	20.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.58	22.40	22.51	23.6	0.0
100	PI2 BPSK	1	137	22.43	22.47	22.45		
100	PI2 BPSK	1	271	22.54	22.51	22.57		
100	PI2 BPSK	135	0	22.07	22.11	22.04	23.5	0.1
100	PI2 BPSK	135	69	22.41	22.43	22.54	23.6	0.0
100	PI2 BPSK	135	138	22.18	22.23	22.13	23.5	0.1
100	PI2 BPSK	270	0	22.09	22.13	21.98		
100	QPSK	1	1	22.59	22.40	22.62		
100	QPSK	1	137	22.52	22.45	22.53	23.6	0.0
100	QPSK	1	271	22.63	22.51	22.57		
100	QPSK	135	0	21.50	21.64	21.55	23.0	0.6
100	QPSK	135	69	22.47	22.63	22.50	23.6	0.0
100	QPSK	135	138	21.54	21.68	21.45	23.0	0.6
100	QPSK	270	0	21.66	21.67	21.54		
100	16QAM	1	1	21.50	21.60	21.40	23.0	0.6
100	16QAM	1	1	20.16	20.16	20.03	21.5	2.1
100	256QAM	1	1	18.14	18.09	18.18	19.5	4.1
Channel								
Frequency (MHz)				649334	650000	650666		
90	QPSK	1	1	22.52	22.56	22.48	23.6	0.0
Channel								
Frequency (MHz)				649334	650000	650666		
80	QPSK	1	1	22.40	22.54	22.59	23.6	0.0
Channel								
Frequency (MHz)				649300	650000	650300		
70	QPSK	1	1	22.51	22.50	22.43	23.6	0.0
Channel								
Frequency (MHz)				648668	650000	653334		
60	QPSK	1	1	22.48	22.54	22.53	23.6	0.0
Channel								
Frequency (MHz)				648334	650000	653668		
50	QPSK	1	1	22.35	22.50	22.49	23.6	0.0
Channel								
Frequency (MHz)				647668	650000	654000		
40	QPSK	1	1	22.56	22.57	22.52	23.6	0.0
Channel								
Frequency (MHz)				647668	650000	654334		
30	QPSK	1	1	22.52	22.50	22.49	23.6	0.0
Channel								
Frequency (MHz)				647500	650000	654500		
25	QPSK	1	1	22.48	22.49	22.52	23.6	0.0
Channel								
Frequency (MHz)				647334	650000	654668		
20	QPSK	1	1	22.54	22.50	22.48	23.6	0.0
Channel								
Frequency (MHz)				647168	650000	654834		
15	QPSK	1	1	22.52	22.57	22.45	23.6	0.0
Channel								
Frequency (MHz)				647000	650000	655000		
10	QPSK	1	1	22.51	22.56	22.44	23.6	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.79	19.82	19.70		
100	PI2 BPSK	1	137	19.80	19.82	19.81		
100	PI2 BPSK	1	271	19.78	19.78	19.71		
100	PI2 BPSK	135	0	19.22	19.31	19.14	20.0	0.5
100	PI2 BPSK	135	69	19.66	19.71	19.65	20.5	0.0
100	PI2 BPSK	135	138	19.27	19.27	19.23	20.0	0.5
100	PI2 BPSK	270	0	19.26	19.27	19.22		
100	QPSK	1	1	19.81	19.83	19.78		
100	QPSK	1	137	19.76	19.78	19.74	20.5	0.0
100	QPSK	1	271	19.76	19.80	19.70		
100	QPSK	135	0	18.75	18.79	18.64	19.5	1.0
100	QPSK	135	69	19.74	19.79	19.70	20.5	0.0
100	QPSK	135	138	18.73	18.78	18.75	19.5	1.0
100	QPSK	270	0	18.77	18.75	18.68		
100	16QAM	1	1	18.68	18.72	18.61	19.5	1.0
100	16QAM	1	1	17.20	17.24	17.16	18.0	2.5
100	256QAM	1	1	15.06	15.13	15.01	16.0	4.5
Channel								
Frequency (MHz)				648668	650000	652334		
90	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668		
80	QPSK	1	1	19.76	19.75	19.70	20.5	0.0
Channel								
Frequency (MHz)				649300	650000	650300		
70	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334		
60	QPSK	1	1	19.81	19.77	19.76	20.5	0.0
Channel								
Frequency (MHz)				648334	650000	653668		
50	QPSK	1	1	19.79	19.78	19.76	20.5	0.0
Channel								
Frequency (MHz)				647668	650000	654000		
40	QPSK	1	1	19.73	19.79	19.75	20.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334		
30	QPSK	1	1	19.77	19.77	19.72	20.5	0.0
Channel								
Frequency (MHz)				647500	650000	654500		
25	QPSK	1	1	19.76	19.79	19.77	20.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668		
20	QPSK	1	1	19.81	19.77	19.78	20.5	0.0
Channel								
Frequency (MHz)				647168	650000	654834		
15	QPSK	1	1	19.75	19.76	19.75	20.5	0.0
Channel								
Frequency (MHz)				647000	650000	655000		
10	QPSK	1	1	19.74	19.75	19.81	20.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.51	22.23	22.44		
100	PI2 BPSK	1	137	22.27	22.32	22.24	23.5	0.0
100	PI2 BPSK	1	271	22.44	22.55	22.46		
100	PI2 BPSK	135	0	21.99	21.96	21.92	23.0	0.5
100	PI2 BPSK	135	69	22.24	22.32	22.39	23.5	0.0
100	PI2 BPSK	135	138	22.01	22.12	21.97	23.0	0.5
100	PI2 BPSK	270	0	22.00	22.06	21.82		
100	QPSK	1	1	22.42	22.57	22.46		
100	QPSK	1	137	22.41	22.35	22.45	23.5	0.0
100	QPSK	1	271	22.51	22.44	22.50		
100	QPSK	135	0	21.38	21.47	21.43	22.5	1.0
100	QPSK	135	69	22.32	22.56	22.42	23.5	0.0
100	QPSK	135	138	21.40	21.58	21.36	22.5	1.0
100	QPSK	270	0	21.58	21.52	21.47		
100	16QAM	1	1	21.37	21.48	21.33	22.5	1.0
100	16QAM	1	1	20.08	20.03	19.94	21.0	2.5
100	256QAM	1	1	18.07	17.94	18.10	19.0	4.5
Channel								
Frequency (MHz)				648668	650000	652334		
90	QPSK	1	1	22.37	22.50	22.35	23.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668		
80	QPSK	1	1	22.59	22.42	22.39	23.5	0.0
Channel								
Frequency (MHz)				649300	650000	650300		
70	QPSK	1	1	22.43	22.38	22.40	23.5	0.0
Channel								
Frequency (MHz)				648668	650000	653334		
60	QPSK	1	1	22.45	22.40	22.38	23.5	0.0
Channel								
Frequency (MHz)				648334	650000	653668		
50	QPSK	1	1	22.40	22.43	22.37	23.5	0.0
Channel								
Frequency (MHz)				647668	650000	654000		
40	QPSK	1	1	22.36	22.49	22.41	23.5	0.0
Channel								
Frequency (MHz)				647668	650000	654334		
30	QPSK	1	1	22.42	22.38	22.30	23.5	0.0
Channel								
Frequency (MHz)				647500	650000	654500		
25	QPSK	1	1	22.43	22.42	22.33	23.5	0.0
Channel								
Frequency (MHz)				647334	650000	654668		
20	QPSK	1	1	22.34	22.43	22.34	23.5	0.0
Channel								
Frequency (MHz)				647168	650000	654834		
15	QPSK	1	1	22.39	22.46	22.38	23.5	0.0
Channel								
Frequency (MHz)				647000	650000	655000		
10	QPSK	1	1	22.35	22.47	22.31	23.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3750	3750		
100	PI2 BPSK	1	1		22.40			
100	PI2 BPSK	1	137		22.46			0.0
100	PI2 BPSK	1	271		22.52			
100	PI2 BPSK	135	0		22.08			23.5 0.1
100	PI2 BPSK	135	69		22.51			23.6 0.0
100	PI2 BPSK	135	138		22.05			23.5 0.1
100	PI2 BPSK	270	0		21.94			
100	QPSK	1	1		22.34			
100	QPSK	1	137		22.38			23.6 0.0
100	QPSK	1	271		22.43			
100	QPSK	135	0		21.62			23.0 0.6
100	QPSK	135	69		22.48			23.6 0.0
100	QPSK	135	138		21.43			23.0 0.6
100	QPSK	270	0		21.62			
100	16QAM	1	1		21.50			23.0 0.6
100	16QAM	1	1		19.99			21.5 2.1
100	256QAM	1	1		18.02			19.5 4.1
Channel								
Frequency (MHz)								
				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
90	QPSK	1	1		22.34	22.43	22.40	23.6 0.0
Channel								
Frequency (MHz)								
				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02		
80	QPSK	1	1		22.34	22.41	22.39	23.6 0.0
Channel								
Frequency (MHz)								
				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
70	QPSK	1	1		22.33	22.43	22.42	23.6 0.0
Channel								
Frequency (MHz)								
				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3750.01		
60	QPSK	1	1		22.44	22.48	22.45	23.6 0.0
Channel								
Frequency (MHz)								
				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
50	QPSK	1	1		22.34	22.51	22.50	23.6 0.0
Channel								
Frequency (MHz)								
				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3780		
40	QPSK	1	1		22.37	22.49	22.38	23.6 0.0
Channel								
Frequency (MHz)								
				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3780		
30	QPSK	1	1		22.35	22.52	22.37	23.6 0.0
Channel								
Frequency (MHz)								
				64750	65000	65250	Tune-up limit (dBm)	MPR (dB)
				3712.5	3750	3787.5		
25	QPSK	1	1		22.34	22.51	22.43	23.6 0.0
Channel								
Frequency (MHz)								
				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3792.02		
20	QPSK	1	1		22.33	22.43	22.45	23.6 0.0
Channel								
Frequency (MHz)								
				64718	65000	65284	Tune-up limit (dBm)	MPR (dB)
				3707.52	3750	3792.51		
15	QPSK	1	1		22.36	22.46	22.39	23.6 0.0
Channel								
Frequency (MHz)								
				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
10	QPSK	1	1		22.36	22.43	22.46	23.6 0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3750	3750		
100	PI2 BPSK	1	1		19.81			
100	PI2 BPSK	1	137		19.71			20.5
100	PI2 BPSK	1	271		19.88			
100	PI2 BPSK	135	0		19.24			20.0 0.5
100	PI2 BPSK	135	69		19.70			20.5 0.0
100	PI2 BPSK	135	138		19.25			20.0 0.5
100	PI2 BPSK	270	0		19.23			
100	QPSK	1	1		19.82			
100	QPSK	1	137		19.76			20.5 0.0
100	QPSK	1	271		19.76			
100	QPSK	135	0		18.78			19.5 1.0
100	QPSK	135	69		19.72			20.5 0.0
100	QPSK	135	138		18.77			19.5 1.0
100	QPSK	270	0		18.78			
100	16QAM	1	1		18.74			19.5 1.0
100	16QAM	1	1		17.34			18.0 2.5
100	256QAM	1	1		15.19			16.0 4.5
Channel								
Frequency (MHz)								
				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
90	QPSK	1	1		19.72	19.77	19.74	20.5 0.0
Channel								
Frequency (MHz)								
				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02		
80	QPSK	1	1		19.63	19.80	19.69	20.5 0.0
Channel								
Frequency (MHz)								
				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
70	QPSK	1	1		19.64	19.69	19.68	20.5 0.0
Channel								
Frequency (MHz)								
				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3750.01		
60	QPSK	1	1		19.67	19.75	19.70	20.5 0.0
Channel								
Frequency (MHz)								
				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
50	QPSK	1	1		19.75	19.73	19.69	20.5 0.0
Channel								
Frequency (MHz)								
				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3780		
40	QPSK	1	1		19.66	19.76	19.69	20.5 0.0
Channel								
Frequency (MHz)								
				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3780		
30	QPSK	1	1		19.68	19.76	19.69	20.5 0.0
Channel								
Frequency (MHz)								
				64750	65000	65250	Tune-up limit (dBm)	MPR (dB)
				3712.5	3750	3787.5		
25	QPSK	1	1		19.67	19.74	19.68	20.5 0.0
Channel								
Frequency (MHz)								
				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3792.02		
20	QPSK	1	1		19.64	19.74	19.68	20.5 0.0
Channel								
Frequency (MHz)								
				64718	65000	65284	Tune-up limit (dBm)	MPR (dB)
				3707.52	3750	3792.51		
15	QPSK	1	1		19.68	19.69	19.73	20.5 0.0
Channel								
Frequency (MHz)								
				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
10	QPSK	1	1		19.64	19.79	19.75	20.5 0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3750	3750		
100	PI2 BPSK	1	1		22.28			
100	PI2 BPSK	1	137		22.39			23.5 0.0
100	PI2 BPSK	1	271		22.44			
100	PI2 BPSK	135	0		21.91			23.0 0.5
100	PI2 BPSK	135	69		22.40			23.5 0.0
100	PI2 BPSK	135	138		21.97			23.0 0.5
100	PI2 BPSK	270	0		21.80			
100	QPSK	1	1		22.56			
100	QPSK	1	137		22.28			23.5 0.0
100	QPSK	1	271		22.28			
100	QPSK	135	0		21.52			22.5 1.0
100	QPSK	135	69		22.32			23.5 0.0
100	QPSK	135	138		21.32			22.5 1.0
100	QPSK	270	0		21.46			
100	16QAM	1	1		21.38			22.5 1.0
100	16QAM	1	1		19.86			21.0 2.5
100	256QAM	1	1		17.91			19.0 4.5
Channel								
Frequency (MHz)								
				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
90	QPSK	1	1		22.19	22.34	22.23	23.5 0.0
Channel								
Frequency (MHz)								
				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02		
80	QPSK	1	1		22.17	22.35	22.25	23.5 0.0
Channel								
Frequency (MHz)								
				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
70	QPSK	1	1		22.24	22.29	22.23	23.5 0.0
Channel								
Frequency (MHz)								
				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3750.01		
60	QPSK	1	1		22.25	22.28	22.25	23.5 0.0
Channel								
Frequency (MHz)								
				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
50	QPSK	1	1		22.17	22.28	22.25	23.5 0.0
Channel								
Frequency (MHz)								
				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3780		
40	QPSK	1	1		22.24	22.28	22.22	23.5 0.0
Channel								
Frequency (MHz)								
				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3780		
30	QPSK	1	1		22.28	22.30	22.32	23.5 0.0
Channel								
Frequency (MHz)								
				64750	65000	65250	Tune-up limit (dBm)	MPR (dB)
				3712.5	3750	3787.5		
25	QPSK	1	1		22.20	22.35	22.29	23.5 0.0
Channel								
Frequency (MHz)								
				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3792.02		
20	QPSK	1	1		22.17	22.36	22.30	23.5 0.0
Channel								
Frequency (MHz)								
				64718	65000	65284	Tune-up limit (dBm)	MPR (dB)
				3707.52	3750	3792.51		
15	QPSK	1	1		22.18	22.36	22.29	23.5 0.0
Channel								
Frequency (MHz)								
				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
10	QPSK	1	1		22.17	22.32	22.24	23.5 0.0



Part270 n77 PC2&PC3 Ant 9 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI/2 BPSK	1	1	21.35	21.40	21.24			
100	PI/2 BPSK	1	137	21.35	21.37	21.26	22.6	0.0	
100	PI/2 BPSK	1	271	21.27	21.33	21.20			
100	PI/2 BPSK	135	0	21.30	21.38	21.34	22.6	0.0	
100	PI/2 BPSK	135	69	21.36	21.37	21.32	22.6	0.0	
100	PI/2 BPSK	135	138	21.27	21.35	21.32	22.6	0.0	
100	PI/2 BPSK	270	0	21.31	21.34	21.33			
100	QPSK	1	1	21.37	21.45	21.36			
100	QPSK	1	137	21.36	21.32	21.28	22.6	0.0	
100	QPSK	1	271	21.28	21.35	21.29			
100	QPSK	135	0	21.30	21.30	21.29	22.6	0.0	
100	QPSK	135	69	21.33	21.44	21.34	22.6	0.0	
100	QPSK	135	138	21.32	21.34	21.24	22.6	0.0	
100	QPSK	270	0	21.28	21.32	21.31			
100	16QAM	1	1	21.32	21.26	21.26	22.6	0.0	
100	16QAM	1	1	21.36	21.40	21.34	22.6	0.0	
100	256QAM	1	1	21.30	21.38	21.33	22.5	0.1	
Channel				64898	65000	65234			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.32	21.39	21.26	22.6	0.0	
Channel				649334	650000	652668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.32	21.43	21.33	22.6	0.0	
Channel				649000	650000	653000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.28	21.38	21.28	22.6	0.0	
Channel				648668	650000	653334			
Frequency (MHz)				3730.02	3840	3950.03			
60	QPSK	1	1	21.31	21.36	21.34	22.6	0.0	
Channel				648334	650000	653668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.27	21.43	21.26	22.6	0.0	
Channel				648000	650000	653000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.30	21.43	21.25	22.6	0.0	
Channel				647668	650000	654334			
Frequency (MHz)				3715.02	3840	3965.03			
30	QPSK	1	1	21.25	21.44	21.25	22.6	0.0	
Channel				647500	650000	654500			
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	21.35	21.39	21.24	22.6	0.0	
Channel				647334	650000	654668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.30	21.33	21.32	22.6	0.0	
Channel				647168	650000	654834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.31	21.43	21.26	22.6	0.0	
Channel				647000	650000	655000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.28	21.37	21.36	22.6	0.0	

Part270 n78 PC2&PC3 Ant 9 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)									
100	PI/2 BPSK	1	1		21.33				
100	PI/2 BPSK	1	137		21.29		22.6	0.0	
100	PI/2 BPSK	1	271		21.28				
100	PI/2 BPSK	135	0		21.27		22.6	0.0	
100	PI/2 BPSK	135	69		21.33		22.6	0.0	
100	PI/2 BPSK	135	138		21.31		22.6	0.0	
100	PI/2 BPSK	270	0		21.33				
100	QPSK	1	1		21.23				
100	QPSK	1	137		21.33		22.6	0.0	
100	QPSK	1	271		21.34				
100	QPSK	135	0		21.32		22.6	0.0	
100	QPSK	135	69		21.35		22.6	0.0	
100	QPSK	135	138		21.23		22.6	0.0	
100	QPSK	270	0		21.34				
100	16QAM	1	1		21.30		22.6	0.0	
100	16QAM	1	1		21.31		22.6	0.0	
100	256QAM	1	1		21.28		22.5	0.1	
Channel				64898	65000	65034			
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	21.27	21.32	21.31	22.6	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	21.32	21.35	21.29	22.6	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	21.30	21.29	21.30	22.6	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	21.26	21.36	21.36	22.6	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	21.32	21.34	21.26	22.6	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	21.23	21.31	21.29	22.6	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3760	3785.03			
30	QPSK	1	1	21.30	21.35	21.29	22.6	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	21.33	21.30	21.29	22.6	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	21.30	21.28	21.30	22.6	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	21.28	21.29	21.32	22.6	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	21.29	21.33	21.30	22.6	0.0	



Reduced Power Mode for ECI 7

n5 Ant 0 ECI7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				166800	167300	167800	
Frequency (MHz)				834	838.5	839	
20	PI/2 BPSK	1	1	22.50	22.84	22.55	
20	PI/2 BPSK	1	53	22.56	22.89	22.56	24.0
20	PI/2 BPSK	1	104	22.53	22.84	22.50	
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5
20	PI/2 BPSK	50	28	22.48	22.57	22.54	24.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5
20	PI/2 BPSK	100	0	22.07	22.19	22.06	
20	QPSK	1	1	22.63	22.65	22.61	
20	QPSK	1	53	22.50	22.61	22.59	24.0
20	QPSK	1	104	22.62	22.64	22.58	
20	QPSK	50	0	21.53	21.57	21.47	23.0
20	QPSK	50	28	22.54	22.57	22.48	24.0
20	QPSK	50	56	21.50	21.56	21.52	23.0
20	QPSK	100	0	21.50	21.59	21.57	
20	16QAM	1	1	21.21	21.33	21.20	23.0
20	64QAM	1	1	19.77	19.87	19.77	21.5
20	256QAM	1	1	18.41	18.47	18.44	19.5
Channel				168300	167300	168300	
Frequency (MHz)				831.5	836.5	841.5	
15	QPSK	1	1	22.58	22.62	22.49	24.0
Channel				165800	167300	166800	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	22.23	22.63	22.61	24.0
Channel				165300	167300	165300	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	1	22.56	22.62	22.55	24.0

n26 Ant 0 ECI7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				164400	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	22.90	22.91	22.89	
20	PI/2 BPSK	1	53	22.87	22.88	22.84	24.0
20	PI/2 BPSK	1	104	22.91	22.88	22.82	
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5
20	PI/2 BPSK	100	0	22.44	22.48	22.47	
20	QPSK	1	1	22.94	22.96	22.93	
20	QPSK	1	53	22.87	22.94	22.86	24.0
20	QPSK	1	104	22.89	22.91	22.86	
20	QPSK	50	0	21.98	21.92	21.84	23.0
20	QPSK	50	28	22.86	22.89	22.84	24.0
20	QPSK	50	56	21.90	21.86	21.91	23.0
20	QPSK	100	0	21.88	21.93	21.90	
20	16QAM	1	1	21.68	21.70	21.67	23.0
20	64QAM	1	1	20.26	20.28	20.24	21.5
20	256QAM	1	1	18.84	18.89	18.82	19.5
Channel				164900	166300	166300	
Frequency (MHz)				831.5	831.5	841.5	
15	QPSK	1	1	22.92	22.95	22.86	24.0
Channel				163800	166300	166800	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	22.92	22.94	22.87	24.0
Channel				163300	166300	165300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.91	22.94	22.88	24.0



n2 Ant 1 EC17

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	1970	1880	1880		
40	PI2 BPSK	1	108	1997	2010	2014	21.4	0.0
40	PI2 BPSK	1	214	1992	2005	2002		
40	PI2 BPSK	108	0	1985	1973	1969	21.4	0.0
40	PI2 BPSK	108	54	2018	2020	2016	21.4	0.0
40	PI2 BPSK	108	108	2027	2026	2017		
40	PI2 BPSK	216	0	2027	2030	2019		
40	QPSK	1	1	2029	2032	2021		
40	QPSK	1	108	1996	2005	1986	21.4	0.0
40	QPSK	1	214	1992	2016	1997		
40	QPSK	108	0	2024	2025	2020	21.4	0.0
40	QPSK	108	54	2026	2030	2025	21.4	0.0
40	QPSK	108	108	2026	2028	2019		
40	QPSK	216	0	2023	2031	2027		
40	16QAM	1	1	1985	1991	1994	21.4	0.0
40	16QAM	1	1	1994	1998	1996	21.4	0.0
40	256QAM	1	1	1952	1880	1858	19.5	1.9
Channel								
Frequency (MHz)								
35	QPSK	1	1	37550	37600	37600		
Channel								
Frequency (MHz)								
30	QPSK	1	1	37550	37600	37600		
Channel								
Frequency (MHz)								
25	QPSK	1	1	37550	37600	37600		
Channel								
Frequency (MHz)								
20	QPSK	1	1	37550	37600	37600		
Channel								
Frequency (MHz)								
15	QPSK	1	1	37550	37600	37600		
Channel								
Frequency (MHz)								
10	QPSK	1	1	37550	37600	37600		
Channel								
Frequency (MHz)								
5	QPSK	1	1	37550	37600	37600		

n7 Ant 1 EC17

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	1788	1793	1782		
50	PI2 BPSK	1	135	1774	1779	1783	19.3	0.0
50	PI2 BPSK	1	268	1780	1789	1788		
50	PI2 BPSK	135	0	1797	1802	1801	19.3	0.0
50	PI2 BPSK	135	68	1800	1800	1798	19.3	0.0
50	PI2 BPSK	135	135	1797	1803	1798		
50	PI2 BPSK	270	0	1784	1808	1805		
50	QPSK	1	1	1802	1810	1808		
50	QPSK	1	135	1778	1790	1777	19.3	0.0
50	QPSK	1	268	1779	1790	1780		
50	QPSK	135	0	1794	1802	1797	19.3	0.0
50	QPSK	135	68	1799	1808	1805	19.3	0.0
50	QPSK	135	135	1790	1803	1797		
50	QPSK	270	0	1804	1807	1806	19.3	0.0
50	16QAM	1	1	1753	1761	1766	19.3	0.0
50	16QAM	1	1	1775	1780	1772	19.3	0.0
50	256QAM	1	1	1796	1800	1793	19.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	50300	50700	510500		
Channel								
Frequency (MHz)								
35	QPSK	1	1	50300	50700	510500		
Channel								
Frequency (MHz)								
30	QPSK	1	1	50300	50700	510500		
Channel								
Frequency (MHz)								
25	QPSK	1	1	50300	50700	510500		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	50300	50700	510500		
Channel								
Frequency (MHz)								
15	QPSK	1	1	50300	50700	510500		
Channel								
Frequency (MHz)								
10	QPSK	1	1	50300	50700	510500		
Channel								
Frequency (MHz)								
5	QPSK	1	1	50300	50700	510500		

n66 Ant 1 EC17

BW (MHz)	Modulation	RB 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	2057	2072	2072		
45	PI2 BPSK	1	120	2058	2066	2064	21.9	0.0
45	PI2 BPSK	1	240	2048	2073	2068		
45	PI2 BPSK	120	0	2072	2080	2076	21.9	0.0
45	PI2 BPSK	120	60	2065	2078	2074	21.9	0.0
45	PI2 BPSK	120	120	2078	2082	2078		
45	PI2 BPSK	240	0	2077	2081	2080		
45	QPSK	1	1	2074	2083	2078		
45	QPSK	1	120	2080	2073	2069	21.9	0.0
45	QPSK	1	240	2068	2073	2069		
45	QPSK	120	0	2072	2074	2075	21.9	0.0
45	QPSK	120	60	2074	2078	2075	21.9	0.0
45	QPSK	120	120	2072	2075	2068		
45	QPSK	240	0	2068	2074	2069		
45	16QAM	1	1	2039	2050	2052	21.9	0.0
45	16QAM	1	1	1988	2003	2000	21.5	0.4
45	256QAM	1	1	1859	1865	1862	19.5	2.4
Channel								
Frequency (MHz)								
40	QPSK	1	1	34500	34900	35250		
Channel								
Frequency (MHz)								
35	QPSK	1	1	34500	34900	35250		
Channel								
Frequency (MHz)								
30	QPSK	1	1	34500	34900	35250		
Channel								
Frequency (MHz)								
25	QPSK	1	1	34500	34900	35250		
Channel								
Frequency (MHz)								
20	QPSK	1	1	34500	34900	35250		
Channel								
Frequency (MHz)								
15	QPSK	1	1	34500	34900	35250		
Channel								
Frequency (MHz)								
10	QPSK	1	1	34500	34900	35250		
Channel								
Frequency (MHz)								
5	QPSK	1	1	34500	34900	35250		



n2 Ant 4 ECI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1870	1880	1890		
40	PI2 BPSK	1	1	15.10	15.19	15.08		
40	PI2 BPSK	1	108	15.18	15.11	15.11	16.2	0.0
40	PI2 BPSK	1	214	15.02	15.10	15.16		
40	PI2 BPSK	108	0	15.16	15.18	15.09	16.2	0.0
40	PI2 BPSK	108	54	15.09	15.16	15.08	16.2	0.0
40	PI2 BPSK	108	108	15.10	15.19	15.16	16.2	0.0
40	PI2 BPSK	216	0	15.08	15.15	15.10		
40	QPSK	1	1	15.16	15.21	15.15		
40	QPSK	1	108	15.10	15.18	15.13	16.2	0.0
40	QPSK	1	214	15.18	15.20	15.11		
40	QPSK	108	0	15.12	15.14	15.11	16.2	0.0
40	QPSK	108	54	15.08	15.15	15.14	16.2	0.0
40	QPSK	108	108	15.10	15.11	15.11	16.2	0.0
40	QPSK	216	0	15.11	15.12	15.08		
40	16QAM	1	1	15.14	15.18	15.10	16.2	0.0
40	16QAM	1	1	15.16	15.20	15.17	16.2	0.0
40	256QAM	1	1	15.19	15.20	15.14	16.2	0.0
Channel								
Frequency (MHz)				37250	37300	37350	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	15.11	15.11	15.15	24.0	0.0
Channel								
Frequency (MHz)				37300	37600	37900	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.08	15.10	15.09	24.0	0.0
Channel								
Frequency (MHz)				37250	37600	37950	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.06	15.11	15.13	24.0	0.0
Channel								
Frequency (MHz)				37200	37600	38000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.05	15.09	15.11	24.0	0.0
Channel								
Frequency (MHz)				37150	37600	38050	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.06	15.10	15.05	16.2	0.0
Channel								
Frequency (MHz)				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.16	15.15	15.03	16.2	0.0
Channel								
Frequency (MHz)				37050	37600	38150	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.13	15.14	15.04	16.2	0.0

n5 Ant 4 ECI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16650	16700	16750		
20	PI2 BPSK	1	1	22.63	22.67	22.61		
20	PI2 BPSK	1	53	22.58	22.65	22.60	24.0	0.0
20	PI2 BPSK	1	104	22.58	22.63	22.57		
20	PI2 BPSK	50	0	21.94	22.08	22.02	23.5	0.5
20	PI2 BPSK	50	28	22.38	22.49	22.44	24.0	0.0
20	PI2 BPSK	50	56	21.99	22.09	21.95	23.5	0.5
20	PI2 BPSK	100	0	22.08	22.10	22.06		
20	QPSK	1	1	22.64	22.68	22.62		
20	QPSK	1	53	22.64	22.66	22.60	24.0	0.0
20	QPSK	1	104	22.64	22.67	22.60		
20	QPSK	50	0	21.42	21.56	21.47	23.0	1.0
20	QPSK	50	28	22.45	22.55	22.53	24.0	0.0
20	QPSK	50	56	21.40	21.53	21.48	23.0	1.0
20	QPSK	100	0	21.52	21.55	21.52		
20	16QAM	1	1	21.33	21.43	21.35	23.0	1.0
20	16QAM	1	1	19.93	19.96	19.91	21.5	2.5
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5
Channel								
Frequency (MHz)				16530	16700	16850	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0
Channel								
Frequency (MHz)				16580	16730	16880	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.65	22.68	22.61	24.0	0.0
Channel								
Frequency (MHz)				16530	16700	16930	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.62	22.63	22.59	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2525	2535	2545		
50	PI2 BPSK	1	1	14.78	14.98	14.90		
50	PI2 BPSK	1	135	14.78	14.89	14.74	15.9	0.0
50	PI2 BPSK	1	268	14.78	14.82	14.85		
50	PI2 BPSK	135	0	14.88	14.86	14.93	15.9	0.0
50	PI2 BPSK	135	68	14.83	14.91	14.89	15.9	0.0
50	PI2 BPSK	135	135	14.85	14.87	14.91	15.9	0.0
50	PI2 BPSK	270	0	14.87	14.92	14.90		
50	QPSK	1	1	14.82	15.00	14.87		
50	QPSK	1	135	14.75	14.95	14.75	15.9	0.0
50	QPSK	1	268	14.73	14.93	14.82		
50	QPSK	135	0	14.83	14.88	14.88	15.9	0.0
50	QPSK	135	68	14.90	14.95	14.89	15.9	0.0
50	QPSK	135	135	14.84	14.92	14.90	15.9	0.0
50	QPSK	270	0	14.87	14.97	14.89		
50	16QAM	1	1	14.55	14.66	14.58	15.9	0.0
50	16QAM	1	1	14.58	14.67	14.66	15.9	0.0
50	256QAM	1	1	14.85	14.96	14.91	15.9	0.0
Channel								
Frequency (MHz)				50200	50700	51000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	14.76	14.95	14.83	15.9	0.0
Channel								
Frequency (MHz)				50350	50700	51050	Tune-up limit (dBm)	MPR (dB)
35	QPSK	1	1	14.81	14.96	14.80	23.0	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.74	14.94	14.82	15.9	0.0
Channel								
Frequency (MHz)				50250	50700	51150	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	14.78	14.94	14.77	15.9	0.0
Channel								
Frequency (MHz)				50200	50700	51200	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	14.71	14.92	14.80	15.0	0.0
Channel								
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.78	14.92	14.76	15.9	0.0
Channel								
Frequency (MHz)				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.81	14.93	14.79	15.9	0.0
Channel								
Frequency (MHz)				50050	50700	51350	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.78	14.92	14.84	15.9	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168300	169300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	24.0	0.0
20	PI2 BPSK	1	104	22.77	22.84	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.71	22.87	24.0	0.0
20	PI2 BPSK	50	56	22.16	22.26	22.22		
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81	24.0	0.0
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	23.0	1.0
20	QPSK	50	28	22.81	22.70	22.86	24.0	0.0
20	QPSK	50	56	21.80	21.74	21.68		
20	QPSK	100	0	21.72	21.75	21.74	23.0	1.0
20	16QAM	1	1	21.48	21.53	21.49	23.0	1.0
20	64QAM	1	1	20.04	20.10	20.07	21.5	2.5
20	256QAM	1	1	18.81	18.70	18.65	19.5	4.5
Channel				168300	169300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.74	22.79	22.78	24.0	0.0
Channel				163300	166300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0

n66 Ant 4 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	345500		
Frequency (MHz)				1727.5	1745	1757.5		
45	PI2 BPSK	1	1	15.80	15.94	15.93		
45	PI2 BPSK	1	120	15.84	15.92	15.89	17.0	0.0
45	PI2 BPSK	1	240	15.93	15.94	15.86		
45	PI2 BPSK	120	0	15.86	15.94	15.89	17.0	0.0
45	PI2 BPSK	120	60	15.86	15.91	15.81	17.0	0.0
45	PI2 BPSK	120	120	15.87	15.89	15.89		
45	PI2 BPSK	240	0	15.87	15.95	15.95		
45	QPSK	1	1	15.92	15.96	15.94		
45	QPSK	1	120	15.84	15.88	15.89	17.0	0.0
45	QPSK	1	240	15.95	15.97	15.93		
45	QPSK	120	0	15.88	15.90	15.86	17.0	0.0
45	QPSK	120	60	15.81	15.92	15.89	17.0	0.0
45	QPSK	120	120	15.82	15.91	15.80		
45	QPSK	240	0	15.88	15.97	15.85	17.0	0.0
45	16QAM	1	1	15.82	15.86	15.57	17.0	0.0
45	64QAM	1	1	15.00	15.67	15.68	17.0	0.0
45	256QAM	1	1	15.87	15.95	15.87	17.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	15.81	15.92	15.90	24.0	0.0
Channel				345500	349000	345500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
30	QPSK	1	1	15.90	15.94	15.91	24.0	0.0
Channel				345000	349000	349000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.82	15.88	15.93	17.0	0.0
Channel				344500	349000	343500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1762.5		
25	QPSK	1	1	15.82	15.97	15.91	17.0	0.0
Channel				344000	349000	344000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.82	15.96	15.86	17.0	0.0
Channel				343500	349000	344500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.86	15.97	15.87	17.0	0.0
Channel				343000	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.83	15.86	15.86	17.0	0.0
Channel				342500	349000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.90	15.96	15.87	17.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				519394	519500	519596				
Frequency (MHz)				2590.02	2595	2599.98				
40	PI/2 BPSK	1	1	21.01	21.07	21.07				
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0		0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09				
40	PI/2 BPSK	50	0	20.55	20.86	20.81	21.5		0.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0		0.0	
40	PI/2 BPSK	50	56	20.46	20.86	20.58	21.5		0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48				
40	QPSK	1	1	21.06	21.23	21.07				
40	QPSK	1	53	21.01	21.13	21.04	22.0		0.0	
40	QPSK	1	104	21.06	21.14	21.05				
40	QPSK	50	0	20.05	20.12	20.05	21.0		1.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0		0.0	
40	QPSK	80	56	20.04	20.14	20.14	21.0		1.0	
40	QPSK	100	0	20.08	20.13	20.10				
40	16QAM	1	1	19.58	19.64	19.62	21.0		1.0	
40	16QAM	1	1	18.07	18.10	18.07	19.5		2.5	
40	256QAM	1	1	18.76	18.82	18.71	17.5		4.5	
Channel				517002	516900	520398	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2585.01	2585	2604.99	22.0		0.0	
30	QPSK	1	1	20.98	21.15	20.99	22.0		0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2582.52	2595	2607.48	22.0		0.0	
25	QPSK	1	1	21.05	21.11	21.11	22.0		0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2580	2595	2610	22.0		0.0	
20	QPSK	1	1	21.04	21.09	21.01	22.0		0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.51	2595	2612.49	22.0		0.0	
15	QPSK	1	1	21.07	21.10	21.10	22.0		0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575.02	2595	2614.98	22.0		0.0	
10	QPSK	1	1	21.08	21.08	21.07	22.0		0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				526202	518598	526200				
Frequency (MHz)				2546.01	2592.99	2640				
100	PI/2 BPSK	1	1	21.15	21.24	21.17				
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0		0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24				
100	PI/2 BPSK	135	0	20.83	20.74	20.72	21.5		0.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0		0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5		0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.65				
100	QPSK	1	1	21.16	21.28	21.22				
100	QPSK	1	137	21.15	21.27	21.14	22.0		0.0	
100	QPSK	1	271	21.17	21.26	21.21				
100	QPSK	135	0	20.16	20.24	20.23	21.0		1.0	
100	QPSK	135	69	21.18	21.25	21.20	22.0		0.0	
100	QPSK	135	138	20.19	20.22	20.21	21.0		1.0	
100	QPSK	270	0	20.22	20.29	20.25				
100	16QAM	1	1	19.88	19.74	19.71	21.0		1.0	
100	16QAM	1	1	18.21	18.27	18.24	19.5		2.5	
100	256QAM	1	1	18.87	18.91	18.88	17.5		4.5	
Channel				526200	518598	526198	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2644.98	22.0		0.0	
90	QPSK	1	1	21.15	21.23	21.17	22.0		0.0	
Channel				507204	518598	529898	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2538.02	2592.99	2648.99	22.0		0.0	
80	QPSK	1	1	21.11	21.22	21.14	22.0		0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2531.01	2592.99	2655	22.0		0.0	
70	QPSK	1	1	21.17	21.21	21.20	22.0		0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2524	2592.99	2659.99	22.0		0.0	
60	QPSK	1	1	21.14	21.26	21.14	22.0		0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2521.02	2592.99	2664.99	22.0		0.0	
50	QPSK	1	1	21.11	21.22	21.17	22.0		0.0	
Channel				503200	518598	533498	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2518.05	2592.99	2667.48	22.0		0.0	
45	QPSK	1	1	21.13	21.24	21.19	22.0		0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2513.01	2592.99	2670	22.0		0.0	
40	QPSK	1	1	21.15	21.21	21.20	22.0		0.0	
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2513.52	2592.99	2672.49	22.0		0.0	
35	QPSK	1	1	21.12	21.20	21.15	22.0		0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2511	2592.99	2674.98	22.0		0.0	
30	QPSK	1	1	21.15	21.24	21.14	22.0		0.0	
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2508.51	2592.99	2677.5	22.0		0.0	
25	QPSK	1	1	21.11	21.21	21.13	22.0		0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506.02	2592.99	2679.99	22.0		0.0	
20	QPSK	1	1	21.15	21.21	21.22	22.0		0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2503.05	2592.99	2682.48	22.0		0.0	
15	QPSK	1	1	21.10	21.23	21.25	22.0		0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2501.01	2592.99	2685	22.0		0.0	
10	QPSK	1	1	21.08	21.28	21.19	22.0		0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98		
Frequency (MHz)				519304	519350	519396		
40	PI/2 BPSK	1	1	18.00	18.09	18.04		
40	PI/2 BPSK	1	53	17.99	17.99	18.06	19.4	0.0
40	PI/2 BPSK	1	104	18.02	18.03	17.98		
40	PI/2 BPSK	50	0	18.13	18.21	18.13	19.4	0.0
40	PI/2 BPSK	50	28	18.11	18.14	18.09	19.4	0.0
40	PI/2 BPSK	50	56	18.10	18.20	18.19	19.4	0.0
40	PI/2 BPSK	100	0	18.07	18.18	18.12		
40	QPSK	1	1	18.10	18.25	18.12		
40	QPSK	1	53	18.03	18.08	18.01	19.4	0.0
40	QPSK	1	104	18.05	18.08	18.06		
40	QPSK	50	0	18.08	18.23	18.21	19.4	0.0
40	QPSK	50	28	18.06	18.21	18.11	19.4	0.0
40	QPSK	50	56	18.13	18.20	18.13	19.4	0.0
40	QPSK	100	0	18.06	18.22	18.14		
40	16QAM	1	1	17.78	17.86	17.83	19.4	0.0
40	16QAM	1	1	17.76	17.83	17.87	19.4	0.0
40	256QAM	1	1	18.06	18.13	18.10	19.4	0.0
Channel				517002	517000	523898	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.91	2595	2604.99		
30	QPSK	1	1	18.00	18.16	18.07	19.4	0.0
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2282.52	2295	2307.48		
25	QPSK	1	1	18.03	18.21	18.11	19.4	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.00	18.14	18.05	19.4	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2377.51	2595	2612.49		
15	QPSK	1	1	18.08	18.23	18.02	19.4	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	17.98	18.19	18.05	19.4	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640		
Frequency (MHz)				507204	518998	529998		
100	PI/2 BPSK	1	1	18.08	18.26	18.06		
100	PI/2 BPSK	1	137	18.01	18.17	17.99	19.4	0.0
100	PI/2 BPSK	1	271	18.13	18.27	18.07		
100	PI/2 BPSK	135	0	18.05	18.22	18.04	19.4	0.0
100	PI/2 BPSK	135	69	18.00	18.21	18.07	19.4	0.0
100	PI/2 BPSK	135	138	18.02	18.29	18.03	19.4	0.0
100	PI/2 BPSK	270	0	18.09	18.31	18.05		
100	QPSK	1	1	18.13	18.33	18.15		
100	QPSK	1	137	18.14	18.28	18.15	19.4	0.0
100	QPSK	1	271	18.14	18.30	18.11		
100	QPSK	135	0	18.13	18.22	17.95	19.4	0.0
100	QPSK	135	69	18.16	18.32	18.14	19.4	0.0
100	QPSK	135	138	18.18	18.28	18.16	19.4	0.0
100	QPSK	270	0	18.15	18.29	18.17		
100	16QAM	1	1	17.76	17.89	17.87	19.4	0.0
100	16QAM	1	1	17.84	17.86	17.82	19.4	0.0
100	256QAM	1	1	18.16	18.25	18.17	19.4	0.0
Channel				507000	518998	529898	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.08	18.28	18.04	19.4	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	18.03	18.20	18.14	19.4	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2685		
70	QPSK	1	1	18.10	18.29	18.07	19.4	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2678.98		
60	QPSK	1	1	18.05	18.31	18.06	19.4	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2684.99		
50	QPSK	1	1	18.10	18.23	18.10	19.4	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2687.48		
45	QPSK	1	1	18.09	18.32	18.05	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	18.07	18.22	18.15	19.4	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	18.12	18.28	18.11	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.09	18.22	18.12	19.4	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	18.05	18.23	18.08	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.12	18.23	18.12	19.4	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	18.10	18.21	18.07	19.4	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.07	18.30	18.12	19.4	0.0



n38 Ant 2 ECI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519300	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	12.95	13.08	12.77		
40	Pl/2 BPSK	1	53	12.67	12.94	12.80	14.2	0.0
40	Pl/2 BPSK	1	104	12.78	13.05	12.79		
40	Pl/2 BPSK	50	0	12.84	12.93	12.72	14.2	0.0
40	Pl/2 BPSK	50	28	12.80	12.82	12.67	14.2	0.0
40	Pl/2 BPSK	50	56	12.68	12.81	12.78	14.2	0.0
40	Pl/2 BPSK	100	0	12.73	12.84	12.80		
40	QPSK	1	1	12.91	13.09	12.84		
40	QPSK	1	53	12.90	12.97	12.70	14.2	0.0
40	QPSK	1	104	12.84	12.93	12.86		
40	QPSK	50	0	12.77	12.83	12.65	14.2	0.0
40	QPSK	50	28	12.84	12.67	12.94	14.2	0.0
40	QPSK	50	56	12.84	12.79	12.73		
40	QPSK	100	0	12.87	13.01	12.92	14.2	0.0
40	16QAM	1	1	12.83	12.82	12.71	14.2	0.0
40	16QAM	1	1	12.87	12.90	12.77	14.2	0.0
40	256QAM	1	1	12.75	12.84	12.77	14.2	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	12.81	13.01	12.77	14.2	0.0
Channel				516504	519000	521498	Tune-up limit	MPR
Frequency (MHz)				2582.52	2595	2607.48	(dBm)	(dB)
25	QPSK	1	1	12.83	12.98	12.77	14.2	0.0
Channel				516000	519000	523000	Tune-up limit	MPR
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)
20	QPSK	1	1	12.83	12.97	12.84	14.2	0.0
Channel				515502	519000	524998	Tune-up limit	MPR
Frequency (MHz)				2577.51	2595	2614.99	(dBm)	(dB)
15	QPSK	1	1	12.88	13.05	12.81	14.2	0.0
Channel				515004	519000	525998	Tune-up limit	MPR
Frequency (MHz)				2575.02	2595	2614.98	(dBm)	(dB)
10	QPSK	1	1	12.91	13.03	12.80	14.2	0.0

n41 Ant 2 ECI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				529202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	13.02	13.18	12.89		
100	Pl/2 BPSK	1	137	13.00	13.02	12.89	14.2	0.0
100	Pl/2 BPSK	1	271	12.98	13.18	12.86		
100	Pl/2 BPSK	135	0	12.95	12.99	12.88	14.2	0.0
100	Pl/2 BPSK	135	69	12.87	12.90	12.82	14.2	0.0
100	Pl/2 BPSK	135	138	12.86	12.95	12.82	14.2	0.0
100	Pl/2 BPSK	270	0	12.90	13.01	12.90		
100	QPSK	1	1	13.09	13.20	13.01		
100	QPSK	1	137	12.95	13.08	12.81	14.2	0.0
100	QPSK	1	271	12.98	13.07	12.92		
100	QPSK	135	0	12.87	12.95	12.83	14.2	0.0
100	QPSK	135	69	13.01	13.05	13.02	14.2	0.0
100	QPSK	135	138	12.95	12.94	12.85		
100	QPSK	270	0	13.05	13.09	13.04	14.2	0.0
100	16QAM	1	1	12.96	12.90	12.85	14.2	0.0
100	16QAM	1	1	12.94	13.00	12.87	14.2	0.0
100	256QAM	1	1	12.90	13.02	12.83	14.2	0.0
Channel				528200	518998	528200	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.99	(dBm)	(dB)
90	QPSK	1	1	12.97	13.12	12.90	14.2	0.0
Channel				507204	518998	529998	Tune-up limit	MPR
Frequency (MHz)				2538.02	2592.99	2648.99	(dBm)	(dB)
80	QPSK	1	1	13.02	13.14	12.97	14.2	0.0
Channel				506202	518998	531000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	13.04	13.11	12.98	14.2	0.0
Channel				505200	518998	531998	Tune-up limit	MPR
Frequency (MHz)				2524	2592.99	2659.99	(dBm)	(dB)
60	QPSK	1	1	13.07	13.13	12.90	14.2	0.0
Channel				504204	518998	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	13.02	13.15	12.94	14.2	0.0
Channel				503200	518998	533998	Tune-up limit	MPR
Frequency (MHz)				2518.5	2592.99	2669.49	(dBm)	(dB)
45	QPSK	1	1	13.05	13.15	12.93	20.0	0.0
Channel				503202	518998	534000	Tune-up limit	MPR
Frequency (MHz)				2513.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	12.95	13.10	12.99	14.2	0.0
Channel				502704	518998	534498	Tune-up limit	MPR
Frequency (MHz)				2513.52	2592.99	2672.49	(dBm)	(dB)
35	QPSK	1	1	13.08	13.20	12.84	20.0	0.0
Channel				502200	518998	534998	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.99	(dBm)	(dB)
30	QPSK	1	1	13.00	13.13	12.84	14.2	0.0
Channel				501702	518998	535998	Tune-up limit	MPR
Frequency (MHz)				2508.51	2592.99	2677.5	(dBm)	(dB)
25	QPSK	1	1	12.99	13.13	12.92	20.0	0.0
Channel				501204	518998	536998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	13.00	13.13	12.97	14.2	0.0
Channel				500700	518998	536498	Tune-up limit	MPR
Frequency (MHz)				2503.5	2592.99	2682.43	(dBm)	(dB)
15	QPSK	1	1	13.05	13.13	13.01	14.2	0.0
Channel				500202	518998	537000	Tune-up limit	MPR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	13.07	13.15	12.96	14.2	0.0



Part270 n77 PC2&PC3 Ant 3 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	14.41	14.51	14.13			
100	PI2 BPSK	1	137	14.42	14.52	14.15	15.4	0.0	
100	PI2 BPSK	1	271	14.42	14.50	14.11			
100	PI2 BPSK	135	0	14.37	14.43	14.36	15.4	0.0	
100	PI2 BPSK	135	69	14.38	14.41	14.39	15.4	0.0	
100	PI2 BPSK	135	138	14.37	14.45	14.37	15.4	0.0	
100	PI2 BPSK	270	0	14.47	14.45	14.39			
100	QPSK	1	1	14.55	14.58	14.42			
100	QPSK	1	137	14.50	14.48	14.11	15.4	0.0	
100	QPSK	1	271	14.55	14.54	14.14			
100	QPSK	135	0	14.44	14.45	14.45	15.4	0.0	
100	QPSK	135	69	14.46	14.50	14.41	15.4	0.0	
100	QPSK	135	138	14.34	14.43	14.41			
100	QPSK	270	0	14.41	14.49	14.38	15.4	0.0	
100	16QAM	1	1	14.13	14.23	14.18	15.4	0.0	
100	64QAM	1	1	14.32	14.33	14.33	15.4	0.0	
100	256QAM	1	1	14.39	14.45	14.39	15.4	0.0	
Channel				64968	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	14.52	14.55	14.31	15.4	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	14.52	14.53	14.26	15.4	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	14.48	14.58	14.32	15.4	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	14.52	14.49	14.32	15.4	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	14.49	14.58	14.31	15.4	0.0	
Channel				648000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	14.49	14.58	14.32	15.4	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	14.54	14.59	14.33	15.4	0.0	
Channel				647334	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	14.53	14.57	14.35	15.4	0.0	
Channel				647000	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	14.47	14.51	14.33	15.4	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	14.53	14.48	14.34	15.4	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	14.45	14.54	14.31	15.4	0.0	

Part270 n78 PC2&PC3 Ant 3 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)									
100	PI2 BPSK	1	1		14.45				
100	PI2 BPSK	1	137		14.41		15.4	0.0	
100	PI2 BPSK	1	271		14.37				
100	PI2 BPSK	135	0		14.37		15.4	0.0	
100	PI2 BPSK	135	69		14.38		15.4	0.0	
100	PI2 BPSK	135	138		14.34		15.4	0.0	
100	PI2 BPSK	270	0		14.42				
100	QPSK	1	1		14.47				
100	QPSK	1	137		14.33		15.4	0.0	
100	QPSK	1	271		14.46				
100	QPSK	135	0		14.33		15.4	0.0	
100	QPSK	135	69		14.42		15.4	0.0	
100	QPSK	135	138		14.28				
100	QPSK	270	0		14.40		15.4	0.0	
100	16QAM	1	1		14.18		15.4	0.0	
100	64QAM	1	1		14.21		15.4	0.0	
100	256QAM	1	1		14.43		15.4	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	14.31	14.45	14.40	15.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	14.24	14.27	14.26	15.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	14.36	14.37	14.34	15.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	14.34	14.42	14.38	15.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	14.33	14.43	14.40	15.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	14.30	14.44	14.38	15.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	14.33	14.43	14.37	15.4	0.0	
Channel				647334	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	14.30	14.43	14.34	15.4	0.0	
Channel				647000	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	14.29	14.35	14.37	15.4	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	14.31	14.38	14.40	15.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	14.33	14.35	14.37	15.4	0.0	



n38 Ant 4 ECI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98		
Frequency (MHz)				15.17	15.22	15.22		
40	PI/2 BPSK	1	1	15.17	15.22	15.22		
40	PI/2 BPSK	1	53	15.09	15.11	15.07	16.1	0.0
40	PI/2 BPSK	1	104	15.03	15.16	15.02		
40	PI/2 BPSK	50	0	15.13	15.22	15.18	16.1	0.0
40	PI/2 BPSK	50	28	15.06	15.15	15.07	16.1	0.0
40	PI/2 BPSK	50	56	15.12	15.20	15.14	16.1	0.0
40	PI/2 BPSK	100	0	15.14	15.20	15.16		
40	QPSK	1	1	15.23	15.28	15.26		
40	QPSK	1	53	15.21	15.28	15.26	16.1	0.0
40	QPSK	1	104	15.24	15.26	15.23		
40	QPSK	50	0	15.19	15.24	15.14	16.1	0.0
40	QPSK	50	28	15.23	15.28	15.24	16.1	0.0
40	QPSK	80	56	15.17	15.24	15.22	16.1	0.0
40	QPSK	100	0	15.20	15.23	15.17		
40	16QAM	1	1	15.14	15.15	15.08	16.1	0.0
40	16QAM	1	1	15.22	15.24	15.19	16.1	0.0
40	256QAM	1	1	15.16	15.22	15.21	16.1	0.0
Channel				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	15.22	15.24	15.20	16.1	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	15.10	15.20	15.22	16.1	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	15.15	15.18	15.15	16.1	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2614.99		
15	QPSK	1	1	15.22	15.23	15.16	16.1	0.0
Channel				515004	519000	529996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	15.20	15.24	15.15	16.1	0.0

n41 Ant 4 ECI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640		
Frequency (MHz)				15.16	15.17	15.07		
100	PI/2 BPSK	1	1	15.15	15.17	15.07		
100	PI/2 BPSK	1	137	15.07	15.16	15.07	16.1	0.0
100	PI/2 BPSK	1	271	15.10	15.11	15.03		
100	PI/2 BPSK	135	0	15.11	15.27	15.17	16.1	0.0
100	PI/2 BPSK	135	69	15.18	15.23	15.19	16.1	0.0
100	PI/2 BPSK	135	138	15.22	15.30	15.16	16.1	0.0
100	PI/2 BPSK	270	0	15.16	15.30	15.14		
100	QPSK	1	1	15.26	15.31	15.28		
100	QPSK	1	137	15.04	15.15	15.07	16.1	0.0
100	QPSK	1	271	15.14	15.19	15.11		
100	QPSK	135	0	15.20	15.20	15.11	16.1	0.0
100	QPSK	135	69	15.26	15.28	15.24	16.1	0.0
100	QPSK	135	138	15.22	15.24	15.21	16.1	0.0
100	QPSK	270	0	15.22	15.28	15.18		
100	16QAM	1	1	15.16	15.20	15.13	16.1	0.0
100	16QAM	1	1	15.20	15.26	15.22	16.1	0.0
100	256QAM	1	1	15.27	15.29	15.28	16.1	0.0
Channel				506300	518368	526368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.17	15.28	15.27	16.1	0.0
Channel				507204	518598	529898	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	15.21	15.24	15.20	16.1	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.15	15.27	15.24	16.1	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	15.23	15.30	15.27	16.1	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.19	15.23	15.25	16.1	0.0
Channel				503200	518598	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.05	2592.99	2667.48		
45	QPSK	1	1	15.15	15.19	15.20	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	15.19	15.23	15.24	16.1	0.0
Channel				502704	518598	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	15.22	15.30	15.24	24.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.20	15.30	15.18	16.1	0.0
Channel				501702	518598	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	15.17	15.21	15.25	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.18	15.22	15.26	16.1	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.05	2592.99	2682.43		
15	QPSK	1	1	15.22	15.29	15.28	16.1	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	15.17	15.23	15.20	16.1	0.0



Part270 n77 Ant 5 PC2&PC3 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				15.33	15.28	15.21			
100	PI2 BPSK	1	1	15.26	15.32	15.30	16.6	0.0	
100	PI2 BPSK	1	137	15.40	15.34	15.31			
100	PI2 BPSK	1	271	15.40	15.34	15.31			
100	PI2 BPSK	135	0	15.41	15.40	15.38	16.6	0.0	
100	PI2 BPSK	135	69	15.31	15.37	15.30	16.6	0.0	
100	PI2 BPSK	135	138	15.43	15.44	15.34	16.6	0.0	
100	PI2 BPSK	270	0	15.40	15.41	15.30			
100	QPSK	1	1	15.42	15.47	15.44			
100	QPSK	1	137	15.33	15.29	15.30	16.6	0.0	
100	QPSK	1	271	15.36	15.27	15.30			
100	QPSK	135	0	15.36	15.40	15.38	16.6	0.0	
100	QPSK	135	69	15.39	15.45	15.36	16.6	0.0	
100	QPSK	135	138	15.38	15.39	15.23	16.6	0.0	
100	QPSK	270	0	15.43	15.44	15.36			
100	16QAM	1	1	15.24	15.44	15.25	16.6	0.0	
100	64QAM	1	1	15.38	15.41	15.35	16.6	0.0	
100	256QAM	1	1	15.38	15.40	15.36	16.6	0.0	
Channel				648968	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.35	15.44	15.32	16.6	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.30	15.44	15.36	16.6	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.34	15.44	15.43	16.6	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.03			
60	QPSK	1	1	15.38	15.33	15.39	16.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.39	15.44	15.32	16.6	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.39	15.38	15.33	16.6	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.21	15.37	15.33	16.6	0.0	
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.38	15.38	15.32	16.6	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.33	15.34	15.40	16.6	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.39	15.33	15.42	16.6	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.30	15.44	15.34	16.6	0.0	

Part270 n78 Ant 5 PC2&PC3 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)				15.33	15.28	15.21			
100	PI2 BPSK	1	1	15.26	15.32	15.30	16.6	0.0	
100	PI2 BPSK	1	137	15.40	15.34	15.31			
100	PI2 BPSK	1	271	15.40	15.34	15.31			
100	PI2 BPSK	135	0	15.41	15.40	15.38	16.6	0.0	
100	PI2 BPSK	135	69	15.31	15.37	15.30	16.6	0.0	
100	PI2 BPSK	135	138	15.43	15.44	15.34	16.6	0.0	
100	PI2 BPSK	270	0	15.40	15.41	15.30			
100	QPSK	1	1	15.42	15.47	15.44			
100	QPSK	1	137	15.33	15.29	15.30	16.6	0.0	
100	QPSK	1	271	15.36	15.27	15.30			
100	QPSK	135	0	15.36	15.40	15.38	16.6	0.0	
100	QPSK	135	69	15.39	15.45	15.36	16.6	0.0	
100	QPSK	135	138	15.38	15.39	15.23	16.6	0.0	
100	QPSK	270	0	15.43	15.44	15.36			
100	16QAM	1	1	15.24	15.44	15.25	16.6	0.0	
100	64QAM	1	1	15.38	15.41	15.35	16.6	0.0	
100	256QAM	1	1	15.38	15.40	15.36	16.6	0.0	
Channel				648968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	15.13	15.38	15.23	16.6	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3762.02			
80	QPSK	1	1	15.10	15.32	15.20	16.6	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	15.20	15.27	15.16	16.6	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	15.22	15.31	15.19	16.6	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	15.12	15.31	15.21	16.6	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	15.11	15.33	15.13	16.6	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	15.20	15.29	15.22	16.6	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	15.17	15.27	15.23	16.6	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	15.18	15.31	15.15	16.6	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	15.21	15.31	15.14	16.6	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	15.17	15.38	15.24	16.6	0.0	



Part270 n77 Ant 7 PC2&PC3 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	17.54	17.63	17.53			
100	PI2 BPSK	1	137	17.47	17.53	17.44	18.7	0.0	
100	PI2 BPSK	1	271	17.53	17.65	17.53			
100	PI2 BPSK	135	0	17.63	17.67	17.56	18.7	0.0	
100	PI2 BPSK	135	69	17.63	17.66	17.62	18.7	0.0	
100	PI2 BPSK	135	138	17.43	17.46	17.42	18.7	0.0	
100	PI2 BPSK	270	0	17.54	17.59	17.51			
100	QPSK	1	1	17.46	17.70	17.69			
100	QPSK	1	137	17.48	17.54	17.49	18.7	0.0	
100	QPSK	1	271	17.50	17.56	17.55			
100	QPSK	135	0	17.54	17.60	17.52	18.7	0.0	
100	QPSK	135	69	17.68	17.69	17.64	18.7	0.0	
100	QPSK	135	138	17.54	17.63	17.51	18.7	0.0	
100	QPSK	270	0	17.61	17.68	17.62	18.7	0.0	
100	16QAM	1	1	17.48	17.64	17.44	18.7	0.0	
100	16QAM	1	1	17.63	17.65	17.51	18.7	0.0	
100	256QAM	1	1	17.63	17.64	17.60	18.7	0.0	
Channel				648968	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.55	17.59	17.48	18.7	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.47	17.50	17.47	18.7	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.49	17.56	17.52	18.7	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.47	17.58	17.50	18.7	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.52	17.52	17.47	18.7	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.56	17.51	17.44	18.7	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	17.50	17.57	17.42	18.7	0.0	
Channel				647000	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	17.54	17.53	17.44	18.7	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.53	17.51	17.48	18.7	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.54	17.60	17.46	18.7	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.52	17.56	17.53	18.7	0.0	

Part270 n78 Ant 7 PC2&PC3 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3760	3760			
Frequency (MHz)									
100	PI2 BPSK	1	1	17.54	17.64	17.54			
100	PI2 BPSK	1	137	17.40	17.40	17.40	18.7	0.0	
100	PI2 BPSK	1	271	17.58	17.58	17.58			
100	PI2 BPSK	135	0	17.53	17.53	17.53	18.7	0.0	
100	PI2 BPSK	135	69	17.53	17.53	17.53	18.7	0.0	
100	PI2 BPSK	135	138	17.56	17.56	17.56	18.7	0.0	
100	PI2 BPSK	270	0	17.46	17.46	17.46			
100	QPSK	1	1	17.63	17.63	17.63			
100	QPSK	1	137	17.38	17.38	17.38	18.7	0.0	
100	QPSK	1	271	17.45	17.45	17.45			
100	QPSK	135	0	17.51	17.51	17.51	18.7	0.0	
100	QPSK	135	69	17.61	17.61	17.61	18.7	0.0	
100	QPSK	135	138	17.57	17.57	17.57	18.7	0.0	
100	QPSK	270	0	17.57	17.57	17.57	18.7	0.0	
100	16QAM	1	1	17.53	17.53	17.53	18.7	0.0	
100	16QAM	1	1	17.50	17.50	17.50	18.7	0.0	
100	256QAM	1	1	17.52	17.52	17.52	18.7	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3760	3765.01			
90	QPSK	1	1	17.38	17.43	17.44	18.7	0.0	
Channel				649334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3760	3760.02			
80	QPSK	1	1	17.44	17.44	17.42	18.7	0.0	
Channel				649000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3760	3765			
70	QPSK	1	1	17.33	17.48	17.36	18.7	0.0	
Channel				648668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3760	3770.01			
60	QPSK	1	1	17.30	17.38	17.37	18.7	0.0	
Channel				648334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3760	3775.02			
50	QPSK	1	1	17.36	17.41	17.42	18.7	0.0	
Channel				648000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3760	3780			
40	QPSK	1	1	17.29	17.37	17.44	18.7	0.0	
Channel				647668	650000	655334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3760	3785.01			
30	QPSK	1	1	17.32	17.44	17.39	18.7	0.0	
Channel				647000	650000	655500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3760	3787.5			
25	QPSK	1	1	17.34	17.40	17.40	18.7	0.0	
Channel				647334	650000	655668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3760	3790.02			
20	QPSK	1	1	17.33	17.41	17.43	18.7	0.0	
Channel				647168	650000	655834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3760	3792.51			
15	QPSK	1	1	17.30	17.47	17.38	18.7	0.0	
Channel				647000	650000	656000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3760	3795			
10	QPSK	1	1	17.35	17.38	17.36	18.7	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	17.84	17.96	17.70		
100	PI2 BPSK	1	137	17.78	17.79	17.79	18.7	0.0
100	PI2 BPSK	1	271	17.81	17.79	17.68		
100	PI2 BPSK	135	0	17.81	17.89	17.82	18.7	0.0
100	PI2 BPSK	135	69	17.82	17.84	17.78	18.7	0.0
100	PI2 BPSK	135	138	17.76	17.87	17.89	18.7	0.0
100	PI2 BPSK	270	0	17.81	17.84	17.82		
100	QPSK	1	1	17.92	17.88	17.77		
100	QPSK	1	137	17.81	17.90	17.75	18.7	0.0
100	QPSK	1	271	17.83	17.83	17.76		
100	QPSK	135	0	17.80	17.86	17.78	18.7	0.0
100	QPSK	135	69	17.90	17.83	17.79	18.7	0.0
100	QPSK	135	138	17.82	17.84	17.79	18.7	0.0
100	QPSK	270	0	17.82	17.88	17.76		
100	16QAM	1	1	17.77	17.81	17.80	18.7	0.0
100	16QAM	1	1	17.82	17.84	17.83	18.7	0.0
100	256QAM	1	1	17.80	17.90	17.78	18.7	0.0
Channel								
Frequency (MHz)				648968	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.81	17.91	17.69	18.7	0.0
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.84	17.90	17.66	18.7	0.0
Channel								
Frequency (MHz)				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.85	17.84	17.75	18.7	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.03		
60	QPSK	1	1	17.88	17.91	17.66	18.7	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.91	17.92	17.67	18.7	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.88	17.96	17.74	18.7	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.80	17.97	17.75	18.7	0.0
Channel								
Frequency (MHz)				647000	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	17.84	17.88	17.72	18.7	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.83	17.87	17.69	18.7	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.80	17.95	17.68	18.7	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.82	17.89	17.72	18.7	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3760	3760		
100	PI2 BPSK	1	1		17.87			
100	PI2 BPSK	1	137		17.81		18.7	0.0
100	PI2 BPSK	1	271		17.78			
100	PI2 BPSK	135	0		17.82		18.7	0.0
100	PI2 BPSK	135	69		17.84		18.7	0.0
100	PI2 BPSK	135	138		17.86		18.7	0.0
100	PI2 BPSK	270	0		17.85			
100	QPSK	1	1		17.80			
100	QPSK	1	137		17.88		18.7	0.0
100	QPSK	1	271		17.82			
100	QPSK	135	0		17.80		18.7	0.0
100	QPSK	135	69		17.82		18.7	0.0
100	QPSK	135	138		17.81		18.7	0.0
100	QPSK	270	0		17.79			
100	16QAM	1	1		17.78		18.7	0.0
100	16QAM	1	1		17.76		18.7	0.0
100	256QAM	1	1		17.78		18.7	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3760	3765.01		
90	QPSK	1	1	17.80	17.86	17.80	18.7	0.0
Channel								
Frequency (MHz)				649334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3760	3760.02		
80	QPSK	1	1	17.80	17.89	17.82	18.7	0.0
Channel								
Frequency (MHz)				649000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3760	3765		
70	QPSK	1	1	17.85	17.82	17.84	18.7	0.0
Channel								
Frequency (MHz)				648668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3760	3770.01		
60	QPSK	1	1	17.78	17.84	17.84	18.7	0.0
Channel								
Frequency (MHz)				648334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3760	3775.02		
50	QPSK	1	1	17.82	17.87	17.89	18.7	0.0
Channel								
Frequency (MHz)				648000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3760	3780		
40	QPSK	1	1	17.81	17.87	17.84	18.7	0.0
Channel								
Frequency (MHz)				647668	650000	655334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3760	3785.01		
30	QPSK	1	1	17.84	17.87	17.80	18.7	0.0
Channel								
Frequency (MHz)				647000	650000	655500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3760	3787.5		
25	QPSK	1	1	17.88	17.84	17.80	18.7	0.0
Channel								
Frequency (MHz)				647334	650000	655668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3760	3790.02		
20	QPSK	1	1	17.82	17.85	17.85	18.7	0.0
Channel								
Frequency (MHz)				647168	650000	655834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3760	3792.51		
15	QPSK	1	1	17.83	17.89	17.83	18.7	0.0
Channel								
Frequency (MHz)				647000	650000	656000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3760	3795		
10	QPSK	1	1	17.80	17.88	17.86	18.7	0.0



BT 2.0 Antt Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1800	2400	3500
BR / EDR	CH10	2402	16.80	13.26	13.99
	CH12	2414	16.80	14.20	14.18
	CH18	2480	16.80	13.17	13.29
Turn-up Limit			18.00	15.00	15.00

BT 2.0 Antt For heat Simultaneous

Mode	Frequency (MHz)	Average power (dBm)		
		1800	2400	3500
BR / EDR	2402	12.49	9.25	9.93
	2414	12.54	10.14	10.00
	2480	12.46	9.12	9.25
Turn-up Limit		14.00	11.00	11.00

BT 2.0 Antt For Hotspot

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1800	2400	3500
BR / EDR	CH10	2402	15.27	12.07	12.84
	CH12	2414	15.00	13.13	13.02
	CH18	2480	15.83	12.14	12.38
Turn-up Limit			17.00	14.00	14.00

BLE 1M Antt Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH10	2402	6.31
	CH12	2414	6.66
	CH18	2480	6.45
Turn-up Limit			7.00

BLE 2M Antt Full power

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH10	2402	6.46
	CH12	2414	6.88
	CH18	2480	6.84
Turn-up Limit			7.00